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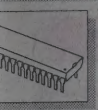
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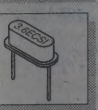
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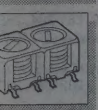
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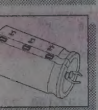
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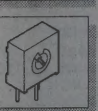
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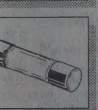
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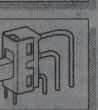
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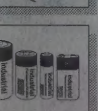
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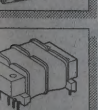
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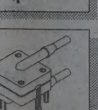
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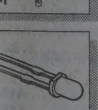
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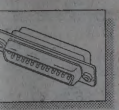
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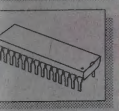
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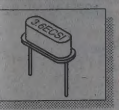
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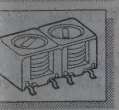
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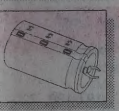
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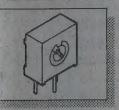
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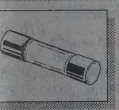
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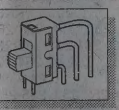
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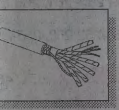
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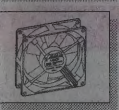
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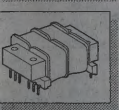
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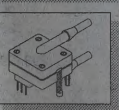
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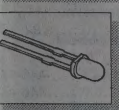
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- RF
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- SMK
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- USB

Alarms

Alligator Clips

Alternistors

Amplifiers, Broadband

Antenna
- Cellular/GPS
- GPS Patch/Element
- Magnetic Mount
- Planar
- Surface Mount
- Whip
- Yagi

Attenuators

Audio
- Connectors
- Processors
- Transducers

Auto Accessories
- Fuses
  - Holders

B

Backlight, EL Element

Backplanes

Backshells, D-Sub

Ballast, Lighting

Balun

Barrier Blocks

Batteries
- Alkaline
- Coin Cell
- Heavy Duty
- Holders
- Lithium
  - Ion
  - Rechargeable
- Bead Cores

Bezels

Blowers/Fans (see Fans/Blowers)

Bluetooth Serial Modem
- Adapter
- PC Cord

Boards
- Accessories
- Copper Clad
- Daughter
- Evaluation
- Insulated
- LVDT
- PC Prototyping
  - Specialty
- RVIT

Boxes
- Aluminum
- Instrumentation Cases
- Plastic
- Watertight/Airtight Cases

Breadboards, Solderless

Bulbs (Replacement)

Bushings
- Strain Relief

Buzzers

C

Cabinets
- Conductive

Cable Assemblies
- Audio & Apple
- BNC, Molded
- CAT 5e
- CAT 5 Patch
- CAT 6 Patch
- CD-ROM
- Computer, Molded
- F Type (Television)
- Fiber Optic
- Flat Flex Cable
  - DF9
- IDC (Insulation Displacement Connectors)
  - Card Edge
  - Delta
  - DIP
  - D-Sub
  - PCB
  - Pin/Plug
  - Socket
- IEEE 1394
- Modular
- Panel Meter
- Power
- Power Cord
- RF
- SCSI Extension
- Single Ended
- Twisted Pair
- UFL
- USB
  - Lighted

Cable Clamp

Cable EMI Ferrite Cores

Cable Grips

Cable Testers

Cable Ties
- Heat Stabilized
- Holders
- Metal
- Tak Ties Reusable
- Twist Lock
- Velcro
- Wire Clamp

Cable/Wire
- Bus Bar
- Cable Tester, PC
- Clamps
- Coaxial
- Cross-Connect Wire
- Datacom Cable
- Fiber Optic
- Fire Alarm
- Flat Cable Jumpers
- Flat Flex Cable
  - 0.5mm
  - 1mm Flex
  - 1.27mm
  - 2.54mm
- Hook-Up
- Instrumentation
- Microphone, Shielded
- Modular
- Multiconductor
- Multiconductor, Foil/Braid Shielded
- Multi-Paired, Shielded
- Plenum
- Ribbon
  - 2mm
  - Flat Cable
- Sleeving
- Strippers
- UTP HS Data/LAN Cable

Capacitor Arrays

Capacitor Networks

Capacitors
- Aluminum Electrolytic
- Aluminum Electrolytic Axial
- Aluminum Electrolytic Snap-In
- Aluminum Organic
- Bi-Polar
- Ceramic
  - Axial
  - Chip
  - Disc
  - Multilayer
  - Multilayer Chip
  - Trimmer
- Computer Grade
- Dry Film AC
- Electric Double Layer
- Film
- Gold
- Low Inductance
  - SMT
- Metallized Polyester
- Metallized Polypropylene
- MICA
- Multilayer Ceramic Chip
  - High Capacitance
- Polymer
- Polyester
- Polyester and Foil
- Polypropylene
- PPS Film
- Radial
  - Aluminum Electrolytic
- Safety Series
- Specialty Polymer
- Supercapacitors
  - Aerogel Carbon Foam
- Surface Mount
  - Aluminum Electrolytic
  - Ceramic
  - Electrolytic
  - Film
  - MICA
  - PPS Film
  - Safety Series
  - Tantalum
  - Trimmer
- Tantalum
  - Axial
- Thin Film
  - Chip
- Trimmer
- Ultracap
- Variable

Card Extenders

Card Racks

Card Reader, Magnetic

Cards
- Dataflash
- Memory
- Smart Media
- Solid State Floppy Disk

Cases
- Computer
- Conductive
- Instrumentation
- Watertight/Airtight

Chip Beads
- Common Mode Chokes
- Inductors
- High Current

Chokes
- CAN-BUS
- Current Compensated
- Kits
- High Current
- High Frequency
- Surface Mount
- Wirewound
- Common Mode
  - Arrays
  - High Current
  - Kits
  - Power

Circuit Board Accessories

Circuit Breakers
- DIN Rail Mount
- Switch
- Thermal

Cleaning Accessories
- Cleaners
- Wipes

Clinometers

Clips
- Alligator
- Fuse
- Nano/Micro

Clock Smoother Module

Coils/Inductors
- Air Core
- Chip
  - Shielded
- Chokes
- Common Mode Choke Array
- Conformal Coated
- Digital Audio
- Drum Core
- Fixed
- High Current
- High Frequency
- Kits
- Monolithic
- Multilayer
- Power
  - Surface Mount
- Power Choke
- Rod Core
- Shielded
- Shielded SMT
- Surface Mount
  - Thin Film
- Switchmode
- Thin Film
- Toroidal
- Variable
- Voltage Step-Up
- Wirewound

CompactPCI Products

Computer Equipment
- Cable Assemblies
- Keyboards
- KVM Switches
- Trackball

Connectors
- 0.3mm
- 0.5mm
  - FPC/Flex
  - JMD Series
- 0.6mm
- 0.65mm
- 0.8mm
- 1mm
  - Card Edge
  - Flex
  - SH Series
  - SHD Series
- 1.25mm/1.27mm
- 1.5mm
  - ZH Series
- 2mm
  - Discrete Wire
  - FB, Z-Pack
  - Hard Metric
  - Headers
  - HM, Z-Pack
  - Jumpers
  - JWPF Series
  - Milli-Grid
  - PA Family Series
  - PH Series
  - PHD Series
  - Sherlock
  - Socket
- 2.5mm
  - DB Series
  - EH Series
  - HR Series
- 2.54mm
- 3.0mm Micro-Fit
- 3.96mm
  - VH Series
- 4.2mm
- 5.0mm
- 7.92mm
- Adapters
- Audio
- Backshells
- Barrier Blocks
- Blind Mate (BMI)
- BNC
  - Accessories
  - Adapters
  - Crimp
  - Decoupled
  - Field Serviceable
  - Jack
  - Terminal Plugs
  - Twist-On
- Card Edge
- Centronics
- CF (CompactFlash) Card
- Champ
- Circular
  - 97 Series
  - Accessories
  - C 091A
  - C 16-1
  - Coaxial
  - DIN
  - Metal
  - MIL-C-5015
  - Miniature
  - Mini-DIN
  - MS Series
  - Plastic
    - .125 Powerband Contact
  - PT Series
  - Push-Pull Lock
  - Screw Lock
  - Water Resistant
- Coaxial
  - Miniature
- Commercial
- CompactPCI
- Delta
- DIMM Card
- DIN
  - Circular
  - IDC Rectangular
  - Mini Circular
  - Rectangular
- DIP Sockets, Lock Eject
- D-Sub
  - Crimp
  - Dual Port
  - High Density
  - High Density Right Angle
  - Industrial
  - Kits
  - Press Fit
  - Right Angle
  - Right Angle Stacked
  - Surface Mount
  - Wire Wrap
- Edgecard
- Ethernet (see Modular Jacks and Plugs)
- Eurocard
- F Type
- Faston
- Ferrules
- FFC/FPC
- Fiber Optic
- Firewire, IEEE 1394
- Flat Flex
- Flexi-Block
- GBIC
- Hard Metric
- Hardware
- Headers
  - .025"
  - .050"
  - .100" Centers
  - .156" Centers
  - .5mm
  - 1mm
  - 1.5mm
  - 2mm
  - 2.5mm
  - 3.96mm
  - Breakaway, .100" Centers
  - Breakaway, 2mm
  - IDC
  - Protected
- High Density Interconnect (HDI)
- Hoods, D-Sub
- IDC
  - Card Edge
  - Centronics
  - Crimp
  - DIP
  - D-Sub
  - Parallel Interface
  - PCB
  - Pin/Plug
  - Socket
    - DIN
    - Discrete Wire
- IEEE 1394
- Industrial Ethernet
- Intra-Connector
- IO
- Jig Assemblies
- Jones
- Jumpers
- LAN
  - Power Over Ethernet
- Mate-N-Lok
- Memory
  - Compact Flash
  - DIMM
  - Memory Stick
  - PCMCIA Memory Card
  - Secure Digital
  - SIMM
- Metrimate
- Micro Cross DVI
- Microphone
- Mictor
- Mini D
- Mini DIN, Circular
- Miniature Rectangular (MR)
- Miniature Threaded
- Mini-Fit
  - BMI
  - HCS
  - SMC
  - Sr
- Modular
  - DSL Filter
- Modular Adapter
- Modular Jacks
  - Filtered
  - IBM Equivalent
  - Industrial
- Modular Plugs
  - Industrial
- M-Series
- MTA .100" and .156"
- N Type

The following items are also available through Digi-Key. Go to *www.digikey.com* and do a keyword search to find the products you want.

PanelMate
Parallel Interface
PC Board
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PC Terminals
PCMCIA Memory Card
Phone Jacks/Plugs
Phono Jacks/Plugs
Power
Power Jack
Power Supply
Rack and Panel
Retention Modules
Reverse Polarity SMA
RF
- Accessories
- Adapters
- BNC
- F Type
- FAKRA
- Ferrules, Wire
- MCX/MMCX Type
- Miniature Threaded
- N Type
- SHV
- SMA/SMB
- SMK
- Terminals, Braid-Pic
- TNC
- Tools, Crimp
- Twinaxial
- UHF

RITS
RJ45 (see Modular Jacks and Plugs)
Sabre
- Tools

Scotchlok
SCSI 1, 2, 3
SCSI Terminator
SFP (Small Frame Pluggable)
Shunts
SHV
Sink
SMA/SMB
Smart Card
Sockets
- IC
- IDC

Soft Shell .062" and .093"
Splice
- Kits
- Lugs/Rings
- Quick Disconnect
- Spade

Spring-Loaded Contacts
Switch
System 5
Television, "F" Type
Terminal Blocks
- DIN Rail
- PCB

Terminals
- Crimp
- Kits
- Lugs/Rings
- Quick Disconnect
- Spade
- Spring Push

TNC
Twin Beam
UHF
USB
- Ethernet

Video
Water Resistant/Waterproof
Weathertight
Z-Pack

Contacts (see Connectors)

Controllers
- Brushless Fan Motor
- Controller
- Development Kits
- Programmable Boards
- Source Ringer

Converters, AC-DC

Converters, DC-DC
- DIN-Rail Mounted
- Dual Output
- Integrated Circuits
- Power Supply
- Single Output
- Triple Output

Cord Grips

Cord Guards

Cords
- Fan
- Patch

Counters
- Accessories

Crystals
- Cylinder Type
- Microprocessor
- Surface Mount

D

Data Books/ Manuals/Catalogs

DC-DC Converters
- DIN-Rail Mounted
- Dual Output
- Integrated Circuits
- Point of Load (POL)
- Power Supplies
- Programmable
- Single Output
- Triple Output
- Voltage Regulators

Detectors
- CO
- Combustible Gas Leak
- Refrigeration Leak

Development - System Matrix

Development Systems
- Accessories
- IR
- RF Evaluation Kits
- RFid
- Thermostat

Development Tools
- Accessory Kits
- Adapters
- Development Kits
- Emulators
- Modules
- Programmer

Diacs

Dials, Concentric Scale

DIN Rail
- Accessories

Diode Arrays

Diodes/Rectifiers
- Bridge
- HexFreds
- Hyperabrupt Varactors
- Pin
- Schottky
- Switching
- Surface Mount
- Variable Capacitance
- Zener

Dispensers
- Liquid
- Tape/Wire Marker

Displays
- Backlights
- Dot Matrix
- LCD, 7-Segment
- LCD Modules
  - Character
  - Graphic
  - TFT
- LED 7-Segment
- LED Alphanumeric
- LED Numeric
- (TFT) Modules
- Development Kits
- Vacuum Fluorescent

DSP

Duct Wiring

E

EEPROM
- Parallel
- Serial

EMI Filters

EMI Shields

EMI Suppression
- Arrays
- Common Mode Chokes
- Ferrite Cable Cores
- Ferrite Chips
- Ferrite Cores
- High Current
- Surface Mount
- Thru-Hole

Emulators
- ClearView
- EPROM
- Flash
- Microcontrollers
- PIC

Enclosures
- Instrumentation Cases
- Phenolic Fiber
- Plastic E.M.I.
- Watertight/Airtight Cases

Encoders
- Digital Contacting
- Mechanical
- Optical
- Rotary
- Universal

EPROM
- Emulator
- Programmer

ESD Products
- Suppression
  - Arrays
  - Multilayer Chip
- Surgector
  - Arrays
- Transient Voltage Suppressors (TVS)
- Varistor

Evaluation Kits
- Ferrite EMI
- RF

F

Fans/Blowers
- AC
- Accessories
- Blowers
- Brushless DC
- Chip Cooler
- Tachometer Output
- ThermaPro-V

Fastening Systems
- Dual Lock
- Hook and Loop
- Velcro

Faston, Terminals

Ferrites
- Axial Lead Beads
- Bead Cores
- Broad Band Cores
- Cable, Clamp-On
- Chips
  - Arrays
- Clamp-On
- Common Mode Chokes
- Cylinder
- Differential Mode Filters
- EMI Discs and Plates
- Flat Core
- High Frequency Cores
- Kits
- Low Frequency Cores
- Ribbon Cable
- Ribbon Cable Filters
- Ring Core
- SMT Chip Beads
- Split Cores
- Surface Mount
- Thru-Hole Filters

Ferrules
- Crimp
- Fiber Optic
- Split-Ring
- Stepped
- Straight
- Wire

Fiber Optic
- Accessories
- Adapters
- Amplifiers
- Attenuators
- Bare Cable
- Cable
  - Assemblies
- Connectors
- Emitters/Detectors
- Ferrules
- Kits
- LEDs
- Photodetectors
- Receivers
- Switches
- Terminators
- Test Equipment
- Tools
- Transceiver
- Transmitters
- Transmitting/Receiving Modules

Filter Modules
- DC Filter Module

Filters
- 3-Terminal
- Active
- Common Mode
- Crystal, Monolithic
- Dielectric
- Differential Mode
- Digital Noise
- DSL
- CPE
- EMI
- Ferrites
- Helical
- Line
- Noise Filter
  - 2 Mode
  - Common Mode
- RF Line
- Saw

Fish Paper

Flash Emulator

Flashlights

Flash Memory
- Serial DataFlash

Fuses
- Alarm Indicating
- Automotive
- Axial
- Blade
- Clips
- Hazardous Area
- Holders
  - Automotive
  - Blocks
  - Clips
  - Panel Mount
  - PC Mount
- Kits
- Metric
- Multi-Meter
- Picofuse
- Radial
- Resettable
- Surface Mount
- Telecom
- Thermal Cutoffs

G

Gaskets
- Jack Screw
- Retaining Clips
- Screw Locks

Generators
- Color
- RF

GPS

Graphic Modules

Graphite Sheets

Grommets
- D-Sub Backshell
- Hole

H

Hardware
- Bushings
  - Strain Relief
- Cable Clamps
- Cable Wall Brackets
- Card Guides
- Casters
- D-Sub Connectors
  - Accessories
- Fastener
  - Hook and Loop
  - Velcro
- Ferrules
  - Crimp
  - Split-Ring
  - Stepped
  - Straight
- Grommet Edging
- Grommets
- Handles
- Holders
  - Fuse
  - LED
  - Wire Tie
- Insulators
  - Transistor Mounting
- Knobs, Instrumentation
- Nuts
- Screws
- Spacers/Standoffs
- Spiral Wrap
- Support Posts
- Tubing, Corrugated Loom

Headers
- .050"
- .100" Centers
- .156" Centers
- 0.5mm
- 1mm
- 1.25mm
- 2mm
- 3.96mm
- 7.92mm
- Breakable, .100" Centers
- Breakable, 2mm
- IDC
- Protected
- Surface Mount

Heat Shrink
- Sleeves
- Tape
- Tubing

Heat Sinks
- BGA
- Graphite Sheets
- Grease
- Pads

Hexfets

Hoods, D-Sub

Hospital Grade Products

I

IC Sockets
(also see Sockets)
- Adapters
  - IC
  - PLCC
- Collet
- DIP
- Dual Leaf
- Horizontal
- Integral Capacitor
- Low Profile
- Machine Pin
- Miniature Spring
- Open Frame
- PGA
- PLCC
- PQFP
- Right Angle, Dual-In-Line
- Shrink DIP
- Socket Carrier
- Solder Tail
- Surface Mount
- Test
- Type "A" LCC
- Vertical
- Wire-Wrap
- ZIF
- ZIP DIP

IC Test Clips

Inclinometers

Inductors
(see Coils/Inductors)

Insulating Board, Prepunched

Insulators
- MICA

Integrated Circuits/ Semiconductors
- A/D and D/A Converters, DAS
- Amplifiers
- Analog Switches
- ARM Microcontrollers
- Audio Amps
- Audio Volume Control
- AVR Microcontrollers
- Battery Management
- Buck Regulators
- Buffers
- Bus Control/Management
- CCD Signal Processors
- Clock Drivers
- Clock Generators
- CODECs
- Comparators
- Controllers
  - Peripheral
  - Phase
  - Serial Communications
- Counters/Timers
- CPLDs
- Current Mirror/Monitors
- Data Communication
- Data Conversion
- Data Transmission
  - 4-20mA
  - Transmitters/Receivers
  - ADSL Drivers
  - CAN
  - Ethernet
  - I^2C
  - IEEE1394
  - LCD
  - LV
  - LVCP
  - LVDM
  - LVDS
  - RS232
  - RS422/RS423/RS485

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  - 4000
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  - 74ALS
  - 74ALV/ALVC/ALVCH
  - 74ALVTC/ALVTH
  - 74AS
  - 74AUC
  - 74AUP
  - 74AVC
  - 74BCT
  - 74CBT
  - 74F
  - 74FB (Future Bus)
  - 74FCT
  - 74GTL
  - 74HC/HCT/HCU
  - 74LCX
  - 74LPT
  - 74LV/LVC
  - 74LVT/LVTH
  - 74LVU
  - 74LVX
  - 74S
  - 74SSTL/SSTU/SSTV
  - 74TTL
  - 74VCX
  - 74VHC
  - 74VMEH
  - Bus Switch Products
- Digital Radio
- DRAM
  - SDRAM
  - DDR
  - DDR2
- DSP (Digital Signal Processor)
- EEPROM, Parallel
- EEPROM, Serial
- EPROMs, OTP
- Evaluation Boards
- FIFO Memory
- Filters
- Flash Memory
- FLASH
  - NOR Flash
- FPGA
- FPSLIC
- Hall Effect Sensors
- Hot Swap
- IEEE1394
- Instrumentation Amps
- Integrators
- Interface
- I/O Expanders
- IRDA
- LCD/LED Drivers
- Linear
- LMOS
- Logic Translation
- Microcontrollers
- 8051 Architecture
- Microcontroller Supervisors
- Microprocessors
- Microprocessor Reset Circuit
- Microprocessor Supervising Circuit Drivers
- Mixed Signal Product
- MMIC Switches
- MOSFET/MOSFET Drivers
- Multiplexer/Multiplier/Divider
- Op Amps
- PAL Compatible SPLDs
- PCI
- PECL
- Potentiometers, Digital
- Power Control/Management
- Power Distribution Switches
- Power Supply Products
- PSRAM
- PWM (Pulse Width Modulator)
- Q Filter, Variable
- Radio Frequency ICs
  - FM ICs
  - RFID
- RealTime Clocks
- Relays
- Resets
- RF/IF Products
  - Frequency Synthesizer
  - Transceivers/Receivers
- Ring Controllers
- Serial Configuration PROM
- Signal Controllers
- SONET Transceivers
- SOTiny™ Logic
- Specialized
- SPLDs
- SRAMs
- STAMP Microcontrollers
- Switches
- Switching Regulators
- System Supervisors/Monitors
- Temperature Sensors
- Timers
- TinyLogic HS/UHS Series
- Tone Decoder
- TRAC (Totally Re-configurable Analog Circuit)
- Transceivers/Receivers
- UARTs
- USB
- USB Transient Suppression
- Video Decoders/Encoders
- Video Switch
- Voice Record/Playback
- Voltage Converters
- Voltage Detectors
- Voltage References
- Voltage Regulators
- Voltage-to-Current Converter
- Volt-to-Freq. / Freq.-to-Volt Converters

Inverters
- CCFL and UV
- EL Backlighting
- Power

I/O Modules

Isolators, Digital

J

Jumpers
- .100" Centers
- 2mm Discrete Wire

K

Keyboards

Keypads

Kits
- Application
- BASIC Stamp Board of Education
- Capacitor
  - Aerogel Carbon Foam
  - Aluminum Electrolytic
  - Film
  - Polyester
  - Specialty Polymer
  - Supercapacitor
- Champ Connector
- Chokes
- Connector
- D-Sub Connectors
- Earth Measurements
- EMI Components
- Fabri-Level Switch
- Ferrite Cable Cores
- Ferrite Cores
- Fiber Optic
- Fuses
- Heat Shrink Tubing
- Inductors
- Industrial Control
- LEDs
  - Discovery
- Magnetic Switches
- Microcontrollers
- Parallel Interface Connector
- Potentiometers
- Remote
- Robotics Parts
- Switches
- TCP/IP Development
- Terminals, Insulated
- Termination
- Test Lead
- Thermistors

Knobs

L

Labels
- Computer Printable
- Heat Shrink
- Safety
- Thermal Transfer
- Wire Marker
  - Dispenser

Lamps
- Assemblies
- Bracket
- Bulbs
- CCFL
- Magnifier
- UV

Laser
- Accessories
- Diode
- HE NE
- Receiver
- WBS

Laser Diodes
- Infrared
- Modules
  - Adjustable Focus
  - Infrared
  - Line Generator
  - Variable Power
  - Visible Green

LCDs
- 7-Segment Displays
- Displays
- Modules
  - Character
  - Graphic
- TFT Modules

LEDs
- 7-Segment Displays
- AlInGaP
- Alphanumeric Displays
- Array/Light Bars
- Assemblies
- Bar Graph Array
- Bi-Color
- Blue
- Caps
- Cluster
- Dot Matrix Display
- DSP
- Fiber Optic
- Flashing
- Heatsinks
- Highbrightness
- Holders, Panel Mount
- Incandescent Replacement
- InGan
- Infrared
- Lenses
- Mega-Brite
- Modular
- Numeric Displays
- Panel Mount
- PC Mount
- RGB(Red/Green/Blue)
- Spacers
- Surface Mount
- Violet
- White

Light Pipes

Lights
- Lighting Ballast
- Worklights

Line Conditioners

Lockouts

M

Magnetic Card Readers

Magnets

Manometer
- Digital

Memory Cards
- CompactFlash
- Secure Digital
- Smart Media
- Solid State Floppy Disk

Memory ICs
- DataFlash, Serial
- DRAM
  - SDRAM
  - DDR
  - DDR2
- EEPROM, Parallel
- EEPROM, Serial
- EPROM
- FLASH
  - NOR Flash
- PSRAM
- SRAMs

Memory Modules

Meters
- Automotive/Industrial
- Megohmmeter
- Multimeters
- Panel
  - Analog
  - Digital
- Thermometers
- Volt/Ammeter, Panel Mount

Microcontrollers
- 8051 Architecture
- ARM
- AVR
- BASIC Stamp
- Development Kits
- FLASH
- Microchip
  - dsPIC®
  - PIC
- Programmers
  - RF
- Supervisors
- USB

Microphones
- Cable
- Electret Condenser
- Holders
- Magnetic
- Surface Mount

Microprocessors
- Modules

Microscopes

Modular
- Adapters
- Cable Assemblies
- Cable/Wire
- Connectors
- Crimp Tools

Modems
- Development Kits

MOSFET/MOSFET Drivers

Motors
- Geared AC/DC
- Stepper

MPLAB-ICE, Processor Modules

N

Networks
- Capacitor
- RC
- Resistor

O

Optoelectronics
- Detector, IR
- Emitters, IR
- Infrared LED
- Interrupter Modules
- Light Detectors
- Logic Detectors
- Optoisolators
- Photoconductive Cells
- Photocouplers
- Photodiodes
- Photo Interrupters
- Photo Microsensors
- Photo Reflectors
- Photo Transistor
- Sensors, Optical
- Solid State Relays

Optoisolators
- High Speed Output
- Interrupter Module
- Logic Output
- Photo Transistor Output
- Photovoltaic Coupler
- SCR/Triac Output
- Thyristor Output

Oscillators
- Crystal
- Ovenized (OCXO)
- Programmable
- Socket
- Surface Mount
- Temperature Compensated (TCXO)
- Voltage Controlled

Oscilloscopes
- Accessories
- Probes

P

Panel Meters
- Cable Assemblies
- Digital
- Power Supplies

Paper
- Toner Transfer

PC Board Prototyping
- Copper Clad Boards
- Drill Bits
- Etch Resist Pens
- Etchant Tank and Heater
- Layout Software
- PCI Development Boards
- Prototyping Boards
- Specialty
- Toner Transfer Paper

PC Pins/Receptacles

PC Terminals

Photocouplers
- OPIC
- Thyristor Output

Photo Detectors

Photodiodes, Emitters

Photo-Transistors

Potentiometers
- Audio
- Carbon
- Cermet
- Conductive Plastic
- Digital
- Digital Readout Dial
- Panel Control
- Panel Mountable
- Position Sensor
- Slide
- SMT Trimmer
- Stock Pot™
- Ten-Turn Wirewound
- Thumbwheel
- Trimmer
- Two-Axis Controller
- Wirewound

Power Cords
- EMI Filters

Power Divider

Power Entry Modules

Power Filters

Power Outlet

Power Supplies
- AC Adapter
- Accessories
- Cable Kits
- Compact PCI
- Converters
  - AC-DC
  - DC-DC
- DC Power Supplies
- Desktop Switchers
- DIN Rail Mount
- External
- Linear
- Medical
- Rack Mount
- Switching
- Universal Input
- UPS Systems
- Wall Transformers
  - AC Out
  - DC Out
  - International

Pressure Sensors

Pressure Switches

Printers
- Accessories
- Labels
- Thermal
- Wire Marker

Probes
- Accessories
- Clips
- Oscilloscope

Programmable Gate Arrays

Programmable Logic
- Integrated Circuits
- Software

Programmers
- CPLD
- Emulators
- FPGA Serial Configuration EEPROM
- FPSLIC
- Microcontroller
- Oscillator
- QuickWriter
- STAMP Field Programmer
- Voice Record/Playback

Protectors
- Modem/Fax
- Power
- SiBar Thyristor

Prototyping Tools

Protractors, Digital

The following items are also available through Digi-Key. Go to *www.digikey.com* and do a keyword search to find the products you want.

Q

Quadracs

R

Raceway
Accessories
Wire Duct

Racks and Accessories

RC Networks

Rectifiers/Diodes
Bridge
Schottky

Reference
Books
Tech Support

Relays
BGA
High Frequency
Mechanical
Power IC
Reed
Safety
Solid State

Resistor Arrays

Resistor Networks
Surface Mount

Resistors
Anti-Sulfurated
Arrays
Carbon Composition
SMD
Current Sensing
Heat Sink Mountable
Metal Element
Metal Film
Metal Oxide Film
Networks
Power
Surface Mount
Thick Film
Thin Film Chip
Wide Terminal
Wire Element
Wirewound

Resonators
Ceramic
SAW

Retention Modules

RF/Hybrid
Balun
Directional Coupler
Power Divider

RFid
Evaluation Kits
Modules
RFI Suppression

RF Line Filters

RF/OEM Modules

RF Transistors

RF Transmitter/Receiver Boards
Evaluation Boards

Ribbon Cable, Filters

S

SCRs

Semiconductors
(see Integrated Circuits)

Sensors
Accelerometer
Current
Distance Measuring
Dust
Electromechanical Controls
Level Switches
Electro-Optic
Float Type Level Switch
Fabri-Level Kit
Flow
Flow Switch
Gas
Hall Effect
Programmable
Humidity
Illumination
Inclinometer
Magnetic
Optical
Photoelectric
Piezo
Position
Magnetic
Pressure
Proximity
Solid State Zener Barrier
Temperature
Thermal
Thermopile
Ultrasonic Proximity
Vibration

Shunts

SiBar Thyristors, Surge Protectors

Sidacs

Sidactors

Sirens

Socket-Wrap ID

Sockets
(also see IC Sockets)
Adapters, IC
DIMM
Oscillator
Pin Line
Right Angle, Dual-In-Line
SIMM
Socket/Receptacles Assemblies
Strip
Transistor
USB Receptacles
ZIF
Zig-Zag

Software
C-Compiler
AVR
Freescale
Library
Microcontrollers
MSP430 Family
Pic
Compiler, PicBasic
Module
Oscilloscope
PC Board Layout

Solder/Desolder
Accessories
Desolder Pump
Desoldering Braid
Flux Pens/Dispensers
SMT Rework Kit
Sponges
Stencil Wipes
Equipment
Paste Dispenser
Rework/Repair
Thermal Tweezers

Solenoids

Sound Modules

Speakers
Card Type
General Purpose
Headset/Handset
Micro
Mini
Notebook

Speech Recognition Kit
Programmable Interactive Development Kit
Programmable Interactive Module

Static Control Products

Stepper Motor

Surface Mount Products
(see specific product listing)

Surge Absorbers
Arrays
Multilayer Chip
ZNR

Surge Arresters

Surge Suppressors
Arrays
Multilayer Chip

Switches
Accessories
Splashproof Boots
Detector
DIP
Door
Fiber Optic
Interlocks
Intra-Switch
Keylock
Key Switch
Keypads
Knob Switches
Limit
Magnetic
Matrix Selector
Momentary Tact
Multi-Function
Optical
Pilot Lights
Power
Caps
Power Distribution
Pressure
Proximity
Pushbutton
Caps
Frames
Lamps
Reed
Rocker
Rotary
DIP
Seals
Selector
Slide
Snap Acting
Switchlocks/Key Switch
Synchronous Clock
Generators
Tact
Thumbwheel
Toggle

Switching Regulators

T

Tape
Low Static
Polymide Film
Safety
Shrink
Water Soluble
Wire Marker

Telephone
Adapters
Cable Assemblies
Connectors

Terminal Blocks
DIN Rail
Eurostyle
PCB

Terminals - Splices
Accessories
Board-in-Crimp
Braid-Pic
Butt Splice
Closed End
Faston
PC
Quick Disconnect
Ring Tongue
Spade and Lugs
Spring Push

Terminators

Test Clips, IC

Test Equipment
Accessories
CRT Restorer Analyzer
Emulator
EPROM
Flash
PIC
Fiber Optic
Generator, RF
Isolation Transformer
LED Tester Box
Megohmmeter
Multimeters
Oscilloscope
Oscilloscope Probes
Patch Cords
PC Cable Tester
Power Supplies, DC
Probes
Accessories
Clips
Thermocouple
Programmers, EPROM
Spectrum Analyzer
Test Leads
Test Points
Test Probes
Tester
Insulation
PC Cable
Transistor
Thermometers

Test Leads
Nano/Micro

Thermal Cutoffs

Thermistors
Glass Encapsulated
High Temperature
Inrush Current Limiters
Miniature Sensors
NTC
PTC
PTC Resettable Fuses
Surface Mount

Thermostats, Encapsulated

Thyristors

Timers
Accessories
Programmable
Remote Reset
Solid State
Timing Modules

Tools
Audio/Instrument
Awl
Bench Press, IDC Assembly
Bit Holders
Bits
Cable Strippers
Cable Tie Gun
Coax Stripper
Crimp
BNC
CATV
Die Set
Excavators
Hooks
Lifters
Magnetizer/Demagnetizer
Mate-N-Lok®
MIL-C-5015
Mini-Fit Sr
Mirrors, Inspection
Modular
MS Series
Rack & Panel
Reamer
Sabre
Sockets
Universal
Cutters and Pliers
Datacomm
Probe Pick
Punchdown Tools
Debugger
Desoldering Pump
Drill Bits and Holders
Extraction
Contact
D-Sub
ICs
PLCC
Fiber Optic
Field Service Kits
Flat Cable Cutter
Fume Absorber
Hammers
Insertion
Inspection Mirrors
Kits
Extraction
Insertion
Manual Punch
Knives and Blades
Lead Straightener, IC
L-Key
Multipurpose
Nibbler
Pin Extractor
Scissors
Screwdrivers
Security Bits
Socket Set
Soldering Stations
T-Handle
Tuning, Ceramic
Tuning, Inductor
Tweezers
Vacuum Vise
Vises
Wire Cutter
Wire Stripper
Wrenches

Transceiver, Fiber Optic

Transducer
Audio
Current
Pressure
RVIT
Ultrasonic

Transformers
Audio
Balun
CCFL, Configurable Control
Current Sense
Desktop Switcher
Encapsulated
Isolation
Medical Grade
PC Mount
Piezoelectric
Power
Pulse
Surface Mount
Switchmode
Telecommunications
LAN Discrete Modules
Telephone Coupling
Toroidal
Wall
AC Out
DC Out
Wire Leaded

Transient Voltage Suppressors (TVS)
Avalanche Diode Array
ESD
Rail Clamp
Surgector
Varistors

Transistors
IGBTs
Insulators, MICA
MOSFETs

Transponders

Triacs

Tubing
Corrugated Loom
Heat Shrink
Teflon

U

UPS Systems

V

Varistors
Arrays
Automotive
Block
ESD
Leaded
Metal Oxide
Multilayer Chip
Standard
Strap
Telecom
ZNR

Voice Record/Playback ICs

Voltage Detectors

Voltage References

Voltage Regulators

Voltmeters, Miniature Panel Mount

W

Wall Transformers
AC Out
DC Out
International

Web Server

Wire (also see Cable/Wire)
Ferrules
Holders, Ties
Jumpers
Markers
Dispenser
Saddle
Ties

Wireless Communication
Development Systems
GPS
Integrated Circuits
RF Transmitters/Receivers

Wire Duct
Accessories
Raceway
Wireless Communication

Wireless Frequency Components

Wireless Modems

Z

ZIF Sockets

ZNRs
Surface Mount
Type C
Type CF/SF/SFM/VFT Chip
Type D (Series V)
Type E

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3M
- Backshells, D-Sub
- Cable
  - Ties
- Cable Assemblies
- Connectors
  - Delta, Ribbon
  - D-Sub
  - Headers
  - IDC
  - Intra-Connector
  - Intra-Switch
  - Mini D
  - Scotchlok
- Fastening Systems
- Hardware, D-Sub Connector
- Heat Shrink Tubing
- Hook and Loop Fasteners
- IC Sockets
  - PQFP
  - Type "A" LCC
  - ZIF
  - ZIP DIP
- IC Test Clips
- Kits
  - Heat Shrink Tubing
  - Insulated Terminals
- Patch Cords
- Probe-It Clips
- Sockets
  - PQFP
  - Type "A" LCC
- Static Control Products
- Tape
  - Foil Shielding
  - Low Static
  - Water Soluble
- Terminal Connectors
- ZIF Sockets
- ZIP DIP Sockets

A

Aavid Thermalloy
- Heat Sinks
  - BGA

Abracon Corporation
- Crystals
  - Surface Mount
- Filters
  - Saw
  - Surface Mount
- Oscillators
  - Surface Mount
- Resonators
  - Ceramic
  - Surface Mount

ACL Staticide
- Antistatic Products
- Cleaning Wipes
- Static Control Equipment
- Static Control Products

ADI
(see Analog Devices, Inc.)

Advanced Photonix, Inc.
- Photo Diodes/Emitters

Alcoswitch/Tyco Electronics
(see Tyco Electronics/Alcoswitch)

AlfaMag Electronics, LLC
- Inductors

All Sensors Corporation
- Pressure Sensors

Alpha Wire Company
- Cable
  - Bus Bar
  - CAT5 and CAT5e
  - Coaxial
  - Hook-Up
  - Multiconductor
  - Sleeving
  - UTP
- Tubing
  - Sleeves
  - Teflon

American Electrical, Inc.
- Cable Grips
- Circuit Breakers
  - DIN Rail Mount
- DIN Rail
- Tools, Crimp
- Wire Ferrules

Amertherm
- Thermistors, NTC

AMP/Tyco Electronics
(see Tyco Electronics/AMP)

Amphenol
- Adapters, RF Coaxial
- Connectors
  - Backshell Kit
  - Circular
    - 97 Series
    - Accessories
    - C 091 A
    - C 16-1
    - MS Series
    - PT Series
  - RF, BNC
  - RF, Mini UHF
  - RF, SMA/SMB
    - FAKRA
  - RF, TNC
  - RF, Twinaxial
  - RF, Type N
  - RF, UHF
  - Smart Card
- Cord Grips
- Fiber Optic, Connectors
- Tools, RF Crimp

Amveco Magnetics
- Transformers
  - Current Sense
  - Medical Grade
  - Power
  - Toroidal

Analog Devices, Inc.
- Gyroscopes

API Delevan
- Bead Cores
- Inductors
  - Air Core
  - Chip
  - Coils
  - Common Mode Choke
  - Filter
  - Fixed
  - High Current
  - Kits
  - Power Choke
  - Shielded Surface Mount
  - Surface Mount
  - Toroidal

APM Hexseal
- Switch Seals

Aries Electronics, Inc.
- Adapters
  - DIP
  - IC Socket
  - Socket
  - Surface Mount
- Headers
  - Covers
  - DIP
  - Socket/Receptacles
  - Strip Line SIP
- IC Sockets
  - Adapter
  - Collet
  - Horizontal
  - Lock/Eject DIP
  - Open Frame
  - PGA ZIF
  - PLCC
  - QFP
  - Test
  - Vertical
  - Wire-Wrap
  - ZIF
- Sockets
  - Breakable
  - Lock Eject DIP
  - Oscillator
  - Pin Line
  - Strip Line
- Tools
  - DIP Extractor
  - IC Straightener

Aromat
(see Panasonic Electric Works)

Artesyn Technologies
- DC-DC Converters
- Power Supplies

Asahi Rubber, Inc.
- Heat Sink Pads

Assmann
- Adapters
  - D-Sub
  - Keyboard
  - Mouse
  - SCSI
  - USB
- Cable Assemblies
  - CAT 5e
  - CAT 5
  - Computer, Molded
  - IEEE 1394
  - Molded
  - Power Cord
  - SCSI
  - USB Extension
- Cable Testers
- Connectors
- Flat Cable
- Modular Plugs

Astec Power
- DC DC Converters
- Power Supplies

Astro Tool Corp.
- Tools
  - Crimp
  - Extraction/Insertion

ATM America
(see Brand 77 Tools)

Atmel
- AVR Microcontroller
  - Adapter
- ARM Thumb Microcontroller Cards
  - Dataflash
- CPLDs
- Evaluation Kits
- FingerChip®
- FPGA
- GPS
- Memory ICs
  - EEPROM, Parallel
  - EEPROM, Serial
  - EPROM
  - Flash
    - DataFlash
  - Serial Configuration EEPROMs
- Microcontrollers
  - 8051 Architecture
  - AVR
- PAL Compatible SPLDs
- Programmers/Emulators/Development Tools
  - ARM Thumb
  - CPLD
  - FPGA Serial Configuration EEPROMs
  - FPSLIC
  - MARC 4
- RF Transmitters/Receivers SPLDs
- Serial Configuration EEPROMs
- Transmitters/Receivers
- Wireless Communication

Aven
- Blades
  - Deburring
  - Precision
- Illumination Lamps
- Microscopes
- Tools
  - Cable Tie Guns
  - Extraction
  - Knives and Blades
- Tweezers
- Utility Knife
- Worklights
  - Replacement Bulbs

B

BC Components
- Capacitors
  - Aluminum Electrolytic
  - Axial
  - Film
  - Metallized Polypropylene
  - Multilayer Ceramic Chip
  - Trimmer
- Potentiometers, Trimmer
- Resistors
  - Thin Film Chip
- Sensors, Humidity
- Switches
  - Slide
- Thermistors
- Varistors

BEAU (see Molex)

Bel Fuse, Inc.
- DC DC Converters
- Fuses
  - Axial
  - Radial
  - Surface Mount
  - Telecom

Bergquist
- Heat Sink Pads

BICCGeneral
(see General Cable)

Bivar, Inc.
- Hardware
  - Card Guides
  - Insulators
  - Spacers
- LED
  - Assemblies
  - Clips
  - Light Pipes

B&K Precision
- Analyzer
  - CRT
  - Spectrum
- Generator
  - Color
  - RF
- Insulation Tester
- Programmers
- Transformer, Isolation
- Transistor Tester

Bourns
- Dials, Concentric Scale
- Encoders
  - Digital Contacting
  - Rotary
- Fuses
  - Resettable
  - Telecom
- Inductors
- Kits, Potentiometers
- Potentiometers
  - Cermet
  - Kits
  - Panel Control
  - Surface Mount
  - Ten-Turn Wirewound
  - Trimmer
- Rotary Selector Switch
- Surge Suppressors
- Switches, SMT Key
- Thyristors

Bud Industries, Inc.
- Blower
- Filters

Burr-Brown
(see Texas Instruments)

Bussmann
(see Cooper/Bussmann)

C

Cambridge Products
- Adapters
- Connectors, RF

Cantherm
- Bimetal Cutoffs
- Encapsulated Thermostats
- Sensors
  - Thermal
- Temperature Regulators
- Thermistors
  - PTC

Cardinal Components, Inc.
- Programmable Oscillators

Carling Technologies
- Circuit Breakers
- Switches
  - Accessories
  - Pushbutton
  - Rocker
  - Slide
  - Toggle

Carol Brand
(see General Cable/Carol Brand)

Cherry Switch
- Keyboards and Mouse
- Sensors
  - Magnetic Position
- Switches
  - Key
  - Rocker
  - Snap Acting
  - Thumbwheel

Chicago Miniature Lamp, Inc.
(see CML Innovative Technologies, Inc.)

Chip Quik, Inc.
- SMT Removal Kits

CII Technologies
(see Corcom/Tyco Electronics)

Cinch
- Barrier Blocks
- Hardware, Screws
- Jones Connectors

Citizen
- TCXO

Clare
- Optocouplers
- Relays, Solid State
- Switches, Power

Clarostat
- Encoder, Optical
- Potentiometers

C-MAX
- RF Receivers/Evaluation Boards

CML Innovative Technologies, Inc.
- Lamps
  - Incandescent
- LEDs
  - Assemblies
  - Blue SMT
  - Flashing
  - Incandescent
  - Replacement
  - Lenses
  - Surface Mount
  - White
- Light Pipes

CoEv Magnetics/Tyco Electronics
(see Tyco Electronics/CoEv Magnetics)

Coiltronics (Division of Cooper Bussmann)
- Inductors
  - Power
  - Surface Mount
- Transformers
  - CCFL

Comair Rotron
- Fans
  - Accessories

Communication Devices
(Division of EDAC)
- Matrix Switches

Condor
- Power Supplies
  - Accessories
  - Connector Kits
  - DC/DC Converters
  - Rack Mount

Connor-Winfield
- Clock Smoother Module
- Crystals, Surface Mount
- Oscillators
  - Ovenized (OCXO)
  - Surface Mount
  - Voltage Controlled (VCXO)
- Synchronous Clock Generators
- Timing Modules

Conxall/Switchcraft Inc.
- Cable Assemblies
- Circular Connector

Cooper/Bussmann
- ESD
- Fuses
  - 1/4" Diameter AG
  - Alarm Indicating
  - Automotive
  - Axial
  - Metric
  - Multi-Meter
  - Surface Mount
  - Telecom
- Holders
  - Automotive
  - Clips
  - Panel Mount
  - PC Mount

Cooper Tools
(see Crescent/EREM/Weller/Wiss/Xcelite)

Copal Electronics, Inc.
- Potentiometers, Cermet

Copeland Communications, Inc.
- Modems
  - Development Kits

Corcom/Tyco Electronics
(see Tyco Electronics/Corcom)

Cornell Dubilier Electronics – Waldom
- Capacitors, MICA
  - Miniature Dipped Radial
  - Standard Dipped Radial
  - Surface Mount

Coto Technology
- Relays
  - BGA
  - Reed
- Switches, Magnetic

Cramer
- Geared Motors AC/DC

Crescent
- Tools
  - Pliers, Wrenches
  - Screwdrivers

Crydom Company
- I/O Modules
- SCRs
- Solid State Relays
- Triacs

C-Ton Industries
- Digital Panel Meters
  - Cable Assemblies
  - Power Supplies

The following items are also available through Digi-Key. Go to *www.digikey.com* and do a keyword search to find the products you want.

CTS
- Crystals
  - Surface Mount
- Encoders
- Heat Sinks
  - (see IERC vendor)
- Oscillators
  - Surface Mount
  - VCXO
- Potentiometers
  - Carbon
  - Cermet
  - Stock Pot™
  - Trimmer
  - Two Axis Controller
  - Wirewound
- Resistor Networks
  - BGA
- Surface Mount Oscillators
- Switches
  - Rotary
- Wireless Frequency
- Components
  - Crystals
  - Filters
    - Ceramic
    - Crystal
    - Duplexers
  - VCTCXO

CUI, Inc.
- Alligator Clips
- Buzzers
- Cable Assemblies
  - Audio
  - Power
- Connectors
  - Audio
  - F (Television)
  - Modular Adapters
  - Power
- Encoders
  - Integral
  - Optical
- Power Supplies
  - Desktop Switcher
  - Wall Transformers
- Sensors
  - Current
- Speakers
- Transducers, Audio

CUI, Inc./V-Infinity
- (see V-Infinity)

Curtis
- Automotive/Industrial
- Meters
- Counters
- Timers

Custom Computer Services, Inc. (CCS)
- C-Compiler
- Development Systems

CW Industries
- Cable Assemblies
- Connectors
  - IDC
    - Card Edge
    - DIP
    - D-Sub
    - PCB
    - Socket
- Switches
  - Kits
  - Rocker
  - Slide

Cypress Semiconductor Corp.
- Boards, Evaluation
- Integrated Circuits/ Semiconductors
  - Buffers
  - Clock Generators
  - CPLDs
  - FIFO Memory
  - Microcontrollers
  - PAL Compatible SPLDs
- Memory ICs
  - SRAM
- Microcontrollers
  - Development Kits
  - Programmers
  - USB
- Programmable Logic
  - Integrated Circuits
  - Software

D

Daburn
- Cable/Wire
  - Hook-Up
- Hardware, Standoffs
- Heatshrink Tubing
- Kits, Heatshrink Tubing
- Shrink Tape

Dallas Semiconductor
- Integrated Circuits
  - Adapters
  - Kits
  - Microcontrollers
  - Oscillators

Delphi Connection Systems/ Specialty Electronics
- Cable Assemblies
  - USB
    - Lighted
- Connectors
  - Headers/Receptacles, 2mm
  - Shorting Jumpers, 2mm
  - USB
- Shunts

DESCO
- Probes
- Static Control Products/ESD
  - Bags
  - Heel Straps
  - Mat/Mat Cleaner
  - Wash Bottles
  - Wrist Straps

Dialight
- LEDs
  - Panel Mount
  - PC Mount
  - Surface Mount
- Light Pipes

Diodes Inc.
- Bridge Rectifiers
- Diode Arrays
- MOSFETs
  - Surface Mount
- Rectifiers/Diodes
- Schottky Rectifiers/Diodes
- Thyristor Surge Protection
- Transistors
  - Pre-Biased
- TVS (Transient Voltage Suppressors)
- Zener Diodes
  - Surface Mount

E

Eastek International/PREO
- Filters, Line

Easy Braid
- Desoldering Braid
- Soldering Irons
- Sponges

ebm-papst, Inc.
- Fans/Blowers

ECS International Inc.
- Crystals
- Data Book
- Filter
  - Monolithic Crystal
  - Saw
- Oscillators
  - Programmable
  - TCXO
- Resonators
  - Ceramic
  - Saw

EDAC
- Connectors
  - Rack and Panel

EDP Company
- Sensors, Ultrasonic
- Proximity

Electroswitch
- Rotary

Elpac
- AC Adapters
- Power Supplies
  - External
  - Medical
  - Open Frame

Energizer Battery Company
- Batteries
- Flashlights

EPCOS, Inc.
- Capacitors
  - Ceramic, Multilayer
  - Film
  - Metallized Polypropylene
  - Surface Mount Tantalum
  - Tantalum
  - Ultra
- Chokes
- Filter
- Surge Arresters
- Varistors
  - Automotive
  - Block
  - Leaded
  - Monolithic, Surface Mount
  - Strap
  - Telecom

Equinox Technologies
- Programmers

EREM
- Tools
- Tweezers

E-Switch, Inc.
- Switches
  - Caps
  - Keylock
  - Momentary Tact
  - Power
  - Push Button
  - Rocker
  - Rotary
  - Slide
  - Toggle

ETA
- Circuit Breakers, Thermal

ETC (see Molex)

E-Z-Hook
- Cable Wall Brackets
- Hooks
- Patch Cords
- Probes
- Test Leads
- Test Points

F

Fairchild Semiconductor
- Integrated Circuits
  - HS/UHS Series
  - Op Amps
  - TinyLogic
- Memory ICs
- MOSFETs

Fairchild Semiconductor/ Optoelectronics Group
- LEDs
  - 7-Segment Display
  - Bar Graph
  - Holders
  - Light Bar
  - PC Mount
  - Surface Mount
- Optoelectronics
- Optoisolators
  - High Speed
  - SCR/Triac Output
  - Transistor Output
- Photo Transistors

Flambeau, Inc.
- Cabinets
  - Conductive
- Cases
  - Conductive

Freescale Semiconductor, Inc.
- Sensors

G

GC Electronics
- Etch Resist Pens
- Etchant Tank
- Etchant Tank Heater
- Fish Paper
- Terminals, Spring Push
- Test Lead Jumpers
- Tool, Nibbler

Gems Sensors
- Kits
- Pressure Transducers
- Relays, Safety
- Sensors
  - Conductive Switches
  - Electromechanical Level Switches
  - Float Type Level Switch Fabri-Level Kits
  - Flow
  - Flow Switches
  - Solid State Zener Barrier

GE Infrastructure Sensing
- Fuses, PTC Resettable
- Inrush Current Limiters
- Sensors
- Thermistors
  - NTC
  - PTC

General Cable/ Carol Brand
- Cable
  - Coaxial
  - Datacom
  - Instrumentation
  - Microphone
  - Multiconductor
  - Multi-Paired Shielded
  - Plenum
  - Shielded
  - UTP HS Data/LAN
- Wire
  - Cross-Connect

General Semiconductor
- Diodes/Rectifiers
  - Schottky
- TVS (Transient Voltage Suppressors)

Grayhill
- Encoders
- I/O Modules
- Keypads
- Switches
  - DIP
  - Pushbutton
  - Rotary

H

Hamlin Electronics Limited Partnership
- Magnets
- Relays, Reed
- Sensors
  - Hall Effect
  - Position
- Switches, Magnetic

Hammond Manufacturing
- Boxes
- Connectors
- Chokes
- Enclosures
- Hardware
- Inductors
- Racks and Accessories
- Transformers

Hirose
- Cable Assemblies
  - UFL
  - USB
- Connectors
  - 0.3mm
  - 0.5mm SMT
    - Flex
  - 0.6mm SMT
  - 0.65mm SMT
  - 0.8mm SMT
  - 1mm
    - Flex
  - 1.25mm/1.27mm
  - 2mm
    - Hard Metric
  - 2.5mm
  - 2.54mm
  - 3.96mm
  - 5mm
  - 7.92mm
  - Adapter, AC
  - CF Card
  - Circular
    - Miniature
    - Push-Pull Lock
    - Screwlock
  - Coaxial
    - Miniature
  - DIMM Sockets
  - DIN, Rectangular
  - Fiber Optic
  - Interface
  - IO
  - Memory Card
    - PCMCIA
    - Secure Digital
  - Microphone
  - Modular
  - PC Card
  - Power
  - Power Supply
  - Push-Pull Lock
  - Rack and Panel
  - Rectangular, DIN
  - RF, Miniature
  - Tool HR25
  - USB
  - Video
  - Water Resistant
  - Wire, 2mm Discrete
- Fiber Optic
  - Adapters
  - Attenuators
  - Connectors
  - Ferrules
  - Terminals
- Modular
  - Jacks/Plugs Connectors
- Tools

HOEI America
- Adapters, RF
- Cable Assemblies, RF
- Solder

Honeywell Sensing and Control
- Sensors
  - Pressure

Horn Industrial Co., Ltd.
- Microphones, Electret Condenser

Humirel
- Sensors
  - Humidity
  - Temperature

I

IERC
- Data Book
- Heat Sinks

Imagecraft Creations, Inc.
- C-Compiler
  - AVR
  - Microcontrollers
  - MSP430 Family

Industrial Fiber Optics
- Fiber Optic
  - Accessories
  - Bare Fiber
  - Cable
  - Connector
  - Emitters/Detectors
  - Kits
  - Tools
- LEDs
- Photo Detectors

Injectorall Electronics
- Breadboards
- Drill Bits
- PC Boards

International Rectifier
- Bridge Rectifiers
- Diodes/Rectifiers
- Hexfets
- HexFred Diodes
- Integrated Circuits
  - Control/Power
  - LDO
    - Regulators/Switching Controllers
- Lighting Ballast
- MOSFETs
- Optoelectronics, Relays
- Schottky Rectifiers
- Transistors, IGBT

Intersil
- Amplifiers
- CPU Supervisors
- Data Conversion
- Drivers/Receivers
- EEPROM, Parallel
- Interface
- Integrated Circuits
  - Specialized
- Potentiometers, Digital
- Power Management
- RealTime Clocks
- Switches, Arrays
- Timer

ITC
- Transducer, Ultrasonic

ITT Industries, Cannon (C&K Switches)
- Encoders
  - Optical
- Keypads
- Sensors, Magnetic
- Smart Card
- Switches
  - Accessories
  - Caps
  - DIP
  - Door Interlocks
  - Keyswitch
  - Momentary Tact
  - Pushbutton
  - Rocker
  - Rotary
  - Slide
  - Snap Acting
  - Thumbwheel
  - Toggle
- Switchlocks

ITW Chemtronics
- Hand Lotion, ESD
- Heat Sink, Grease

Iwatsu
- Optical Encoders

IXYS
- Diodes/Rectifiers
- FRED
- IGBT Transistors
- Integrated Circuits/Semiconductors
- MOSFETs
- SCRs

J

Jewell Instruments
- Panel Meters
  - Analog
  - Digital

JKL Components Corp.
- Inverters
  - CCFL and UV Lamps
  - EL Backlighting
- Lamps
  - Assemblies
  - CCFL
  - UV
- LEDs
  - Blue
  - Caps

Johnson Components
- Adapters, SMA/SMB
- Cable, RF
- Connectors, SMK
- RF Connectors
  - MCX/MMCX
- Spacers

JRC (see NJR)

JST Sales America, Inc.
- Connectors
  - .5mm
  - 1.0mm
  - 1.5mm
  - 2.0mm
  - 2.5mm
  - 3.96mm
  - Headers
  - Quick Disconnect
  - Terminals
- Terminals
  - Board-in Crimp
- Tool, Crimp

Judco
- Switches

JW Miller Magnetics
- Ferrite Bead Cores
- Filters, EMI
- Inductors
  - Fixed
  - Power
  - Surface Mount
- Inverters
  - CCFL
- RF Chokes
- Toroid
  - High Current Inductors
  - Surface Mount
- Transformers
  - Surface Mount

K

K & D Magnetics, Inc.
- Magnets

Kemet
- Capacitors
  - Aluminum Organic
  - Tantalum
    - Axial
    - Surface Mount

Keystone Electronics Corp.
- Banana Plugs
- Boxes
- Connector Hardware
- Enclosures
- Fuse Holders
- Handles
- Knobs, Instrumentation
- MICA Insulators
- Mounting Hardware, Transistors
- PC Terminals
- Phono Jacks/Plugs
- Sockets, Transistor

Kilo International
- Dials, Concentric Scale
- Knobs, Aluminum

Knowles Acoustics
- Boom Assembly
- Microphones
  - Electret
  - Magnetic
  - Surface Mount
- Sensors
  - Accelerometer
  - Vibration
- Speakers, Headset/Handset
- Transducers

L

Lamina Ceramics
- LEDs
  - Arrays
- Kit

LEM USA, Inc.
- Current Sensors
- Current Transducers

Linear Technology
- Amplifiers
  - Comparator
  - Differential
  - Instrumentation
  - Op Amps
- Data Conversion
  - Current Output
  - Delta Sigma
  - General Purpose
  - High Speed
  - Multiplexers
  - Special Function
  - Voltage Output
- Filters
- Interface
- Oscillators
- Power Management
  - Battery Charger
  - CCFL/LCD
  - Charge Pump
  - CPU Core Power
  - Hot Swap
  - Mosfet Drivers
  - PCMCIA
  - Power Controllers
  - Pulse Width Modulator
  - Regulators
  - SIM Interface
  - Supervisors
- References

Linx Technologies
- Broadband Amplifiers
- Connectors
- Encoders/Decoders
- Evaluation Kits
- RF / OEM Modules and Kits
- Tools
  - Crimp

Linx Technologies/ Antenna Factor
- Antennas

LiteOn Trading USA, Inc.
- Displays
  - Alphanumeric
  - Dot Matrix
  - Numeric
- LEDs
  - 7-Segment
  - Bar Graph
  - Highbrightness
  - Infrared
  - Round, Large
- Optoisolators

Littelfuse, Inc.
- ESD
- Fuses
  - 2AG
  - Alarm Indicating
  - Automotive
  - Hazardous Area Fuses
    - Barrier Network
  - Kits
  - PTC Resettable
  - Surface Mount
  - Telecom
- Holders
  - Automotive
  - Blocks
  - Clips
  - Panel Mount
  - PC Mount
- Surgectors
- Transient Voltage Suppressors (TVS)
- Varistors
  - Metal Oxide
  - Multilayer

LMB Heeger
- Enclosures

Logical Systems
- Programming/Prototyping Adapters

Logic Product Development
- Microcontrollers
  - ARM

Lumex Opto/ Components, Inc.
- Catalog CD-ROM
- Displays
  - LCD, 7-Segment
  - LCD NTSC (TFT) Modules
- Indicator, Low Battery
- Laser Diodes, Visible and Infrared
- LCDs
  - 7-Segment Display Modules
    - Graphic
- LEDs
  - AlInGaP
  - Array/Light Bars
  - Bi-Color
  - Blue
  - DSP
  - Flashing
  - High Brightness
  - Holders, Panel Mount
  - Infrared
  - InGan
  - Mega-Brite
  - Panel Mount
  - PC Mount
  - RGB (Red/Green/Blue)
  - Surface Mount
  - Tester Box
  - White
- Light Pipes
- Kits
  - Demo
- Optoisolators
- Switches
  - Pushbutton
  - Rocker
  - Toggle

Luxo
- Illumination Lamps
- Worklights
  - Replacement Bulbs

M

Mallory Sonalert Products Inc.
- Alarms
- Buzzers
- Sirens

Martel
- Panel Meters
  - Miniature
  - Volt/Ammeter
  - Volt Meter

Maxim
- Integrated Circuits

MaxStream, Inc.
- Evaluation Kits
- RF Module

MCC (Micro Commercial Components)
- Diodes
- Mosfets
- Transistors

Measurement Specialties (MSI)
- Accelerometer
- Kits, Piezo Sensor
- Sensors, Pressure
- Sensor, Piezo
- Sensor, Vibration
- Transducers, Pressure

Measurement Specialties (MSI)/Schaevitz
- Boards, LVDT
- Clinometers
- Protractors, Digital
- RVIT
- Transducers, Pressure

Meder Electronics
- Sensors
  - Level
  - Magnetic

Melexis
- Integrated Circuits
  - Hall Effect Sensors
    - Programmable
  - Specialized
- Programmers
- RF Transmitters/Receivers
- Sensors, Hall Effect

Memory Protection Devices (MPD)
- Battery Holders

Metcal (Division of OK International)
- Solder/Desolder Systems
  - Accessories
  - Replacement Tips

MG Chemicals
- Copper Clad Board

Microchip Technology, Inc.
- Data Books/Handbooks
- Development System Matrix
- Development Tools
- DSP (Digital Signal Processor)
- dsPIC® Microcontrollers
- Integrated Circuits
- Interface
  - Controller Area Network (CAN)
  - Infrared Products
  - LCD Drivers
  - LIN Transceivers
  - RF Communication Receivers
  - Serial Peripheral
- Linear
  - Comparators
  - Op Amps
  - Programmable Gain Amplifiers
- Memory ICs
- Microcontroller, RF
- Mixed Signal
  - A/D and D/A Converters
  - Freq.-to-Volt./Volt.-to Freq. Converters
  - Potentiometers, Digital
- PIC Microcontrollers
- Power Management
  - Battery Management
  - DC-DC Converters
  - Power MOSFET Drivers
  - PWM
  - Switching Regulators
  - System Supervisors
  - Voltage Detectors
  - Voltage Regulators
- RFid
- Serial EEPROM Designer Kits
- Thermal Management
  - Fans
  - Temperature Sensors

microEngineering Labs, Inc.
- Compiler, PicBasic

Micro Oscillator, Inc.
- Oscillators
  - Surface Mount

Micron Technology, Inc.
- Memory ICs
  - DRAM
    - SDRAM
    - DDR
    - DDR2
  - Flash
  - PSRAM
- Memory Modules

Microsemi
- Diodes
- Diode Arrays
- Rectifiers
  - Schottky
- TVS (Transient Voltage Suppressors)

Mill-Max
- Adapters, PLCC
- Connectors
  - Spring-Loaded Contacts
  - Universal Serial Bus (USB)
- Headers, Pin
- IC Sockets
  - DIP Socket Carrier
  - Integral Capacitor
  - Low-Profile
  - Machine Pin
  - Shrink DIP
  - Solder Tail
  - Wire Wrap
- Jumpers
- PC Pins/Receptacles
- Shunts
- Sockets
  - PGA
  - Pin
  - PLCC
  - Receptacles
  - Right Angle
  - Strip
  - Transistor
  - USB Receptacles
  - Zig-Zag

Modem Technology
- Stepping Motor Driver Board

Modutec (see Jewell Instruments)

Molex
- Cable Assemblies, USB
- Cable Jumpers, Flat
- Connectors
  - 0.050mm
  - 0.5mm
  - 1.00mm
  - 1.25mm
  - 1.5mm
  - 2mm
    - Sherlock
  - 2mm Milli-Grid
  - 3.0mm Micro-Fit
  - Beau
    - Barrier Blocks
    - Terminal Blocks
  - Blindmate (BMI)
  - Breakaway
  - Card
  - C-Grid
  - Crimp Terminal
  - ETC
    - Terminals
  - FFC/FPC
  - Firewire
  - GBIC
  - Headers
  - I/O
  - 1394
  - Memory
    - Compact Flash
    - DIMM
    - SIMM
  - Mini-Fit BMI
  - Mini-Fit HCS
  - Mini-Fit SMC
  - Mini-Fit Sr.
  - Modular Jacks
    - Industrial
  - PanelMate
  - P.C. Board
  - Power
  - Sabre
    - Tools
  - SCSI
  - SFP (Small Frame Pluggable)
  - Switch
  - USB
  - Waterproof
- Headers
- Sockets
  - DIMM
  - SIMM
  - Transistor
- Tools
  - Crimp
  - Extraction

Mueller
- Clips, Alligator
- Insulators
- Kits, Test Lead
- Test Leads

Murata Electronics
- Inductors

N

National Semiconductor
- Integrated Circuits
  - A/D and D/A Converters
  - Audio Amp
  - Battery Charge Controller
  - DC DC Converters
  - Hot Swap
  - Interface
  - Linear
  - Microcontrollers
  - Microprocessor Reset Circuits
  - MOSFET Drivers/Controllers
  - Op Amps
  - Switch Regulators
  - UARTs
  - Voltage Reference
  - Voltage Regulators

NEC
- Amplifiers, Wideband
- Optoisolators
  - High Speed Digital
  - Photo Transistor Output
- Prescalers
- Relay, Solid State
- RF and Microwave Products
- Transistors

Needham's Electronics
- Programmers
- RF Modules

NetBurner, Inc.
- Development Kits
- Microprocessors Module

Newava Technology, Inc.
- Inductors
- Transformers

NJR Corporation
- Integrated Circuits
  - Switches
  - Timers

NKK Switches
- Switches
  - Accessories
    - Splashproof Boots
  - Keylock
  - Pushbutton

The following items are also available through Digi-Key. Go to *www.digikey.com* and do a keyword search to find the products you want.

- Rocker
- Tact
- Toggle

NorComp
- Backshells, D-Sub
- Connector Hardware, D-Sub
- Connectors
  - 2mm Connectors
  - Centronics
  - DIN Rectangular, IDC
  - D-Sub
  - Hardware
  - IDC
  - Parallel Interface
- Shunts
- Tool
  - Crimp

Noritake
- Displays, Vacuum Fluorescent

Nortech Systems
- Cable Assemblies

NVE Corporation
- Evaluation Kit
- Isolators, Digital and Analog
- Sensors, Magnetic
- Voltage Regulators

O

Ohmite
- Resistors
  - Carbon Composition SMD
  - Current Sensing
  - Heat Sink Mountable
  - Metal Element
  - Metal Oxide Film
  - Power
  - Thick Film
  - Wire Element
  - Wirewound

OK Industries (Division of Jonard Ind. Corp.)
- Desoldering Pump
- Fume Absorber
- Socket-Wrap I.D.
- Tools
  - Kits
  - Pin Extractor

Omron Electronics, Inc.
- Buzzers
- Card Readers, Magnetic
- Connectors
  - FFC/FPC
  - FPC/Flex
- Counters/Timers
- Fiber Optic
  - Cable
  - Switches
- Magnetic Card Readers
- Photo Microsensor
- Power Supplies
- Relays
  - High Frequency
  - Mechanical
  - Solid State
- Sensors
  - Capacitive Proximity
  - Fiber Optic
  - Flow
  - Inductive Proximity
  - Optical
  - Photoelectric
  - Pressure
  - Vibration
- Switches
  - Accessories
  - Door
  - Hardware
  - Key Switch
  - Knob Switch
  - Lever
  - Limit
  - Pushbutton
  - Rotary DIP
  - Thumbwheel

On Semiconductor
- Diodes/Rectifiers
  - Switching
- Integrated Circuits
  - Analog Switches
  - Buffers
  - Clock Driver
  - Clock Generator
  - Comparators
  - Counters/Timers
  - DC DC Converter
  - Filters
  - Hot Swap Interface
  - LED Driver
  - Multiplexers
  - Op Amps
  - PWM (Pulse Width Modulator)
  - Receivers
  - Switching Regulators
  - Transceivers
  - Voltage Detectors
  - Voltage References
  - Voltage Regulators
- Mosfets
- SCRs
- Transient Voltage Suppressors (TVS)
- Triacs

On-Shore Technology
- Headers, Pin
- IC Sockets
- Terminal Blocks
  - DIN Rail

Optek Technology
- (see TT Electronics/Optek Technology)

Optrex America, Inc.
- Displays

Osram Opto Semiconductors, Inc.
- LEDs
  - Surface Mount
- Optoelectronics
  - Detector
  - Interrupter
  - Emitters, IR
  - Photodiodes
  - Photo Transistors

P

Paladin Tools
- Cable Testers
- Connectors
- Desoldering Pump
- Kit, Termination
- Testers
  - PC Cable
- Tools
  - Cable Strippers
  - Coaxial Cable Strippers
  - Crimp
  - Datacomm
    - Probe Pick
    - Punchdown Tool
  - Modular Crimp
  - Scissors/Knives
  - Wire Strippers

Panasonic
- Antennas, Ceramic
- Attenuator
- Audio Amps
- Balun
- Batteries
  - Lithium-Ion
- Bead Cores
- Buzzers
- Capacitors
  - Aluminum Electrolytic
  - Arrays
  - Bi-Polar
  - Ceramic
  - Ceramic Safety
  - Computer Grade
  - Film
  - Gold
  - Kits
  - Multilayer Ceramic Chips
    - High Capacitance
  - Networks
  - Polyester
  - Surface Mount
    - Aluminum Electrolytic
    - Ceramic
    - Film
    - Specialty Polymer
- Card Readers, Magnetic
- Chokes, Surface Mount
- Coils, Choke
- Coils, Voltage Step-Up
- Coupler
- DC-DC Converters
- DC-DC Power Modules
- Diodes
  - Pin
  - Schottky
  - Zener
- Encoders
  - Mechanical
  - Rotary
- Ferrites
  - Flat Core
  - Ring Core
  - Snap-On Core
- Filters
  - Digital Noise
  - EMI
  - Line
  - Noise Filter
    - 2-Mode
    - Common Mode
  - SAW
- Fuses
- Graphite Sheets
- Inductors, Surface Mount
- Integrated Circuits/Semiconductors
  - MMIC Switches
- LEDs
  - Blue
  - Numeric Displays
  - Surface Mount
- Magnetic Card Readers
- Memory Cards
- Microcontrollers, Flash
- Microphone, Cartridges/Holders
- MOSFETs
- Networks
  - Capacitors
  - RC
- Optoelectronics
- Optoisolators
  - Infrared LED
  - Photo Diodes
  - Photo Interrupter
  - Photo Reflector
  - Photo Transistors
- Potentiometers
  - Audio
  - Cermet
  - Position Sensor
  - Slide
  - SMT Trimmer
  - Thumbwheel
  - Trimmer
- Power Divider
- Resistors
  - Anti-Sulfurated
  - Metal Film
  - Networks
  - SMT Arrays
  - Wide Terminal
- Resonators
  - Ceramic
  - SAW
- RF/Hybrid
  - Balun
  - Directional Coupler
  - Power Divider
- Semiconductors (see Integrated Circuits)
- Sensors
  - Ultrasonic Ceramic
- Speakers
  - Card Type
  - Micro
  - Mini
- Surface Mount
  - Bead Cores
  - Capacitors
    - Aluminum Electrolytic
    - Ceramic
    - Film
    - Specialty Polymer
  - Chokes
  - Filters
  - Fuses
  - Inductors
  - LEDs
  - Networks
  - Potentiometers, Trimmer
  - Surge Absorbers
  - Switches
  - Transistors
  - Varistor, Multilayer Chip
  - Voltage Regulators
- Surge Absorbers
- Switches
  - Detector
  - Momentary Pushbutton
  - Multi-Function
  - Power
  - Rotary Encoder
  - Slide
  - Surface Mount
- Thermal Cutoffs
- Thermistors
- Transducers
  - Audio
  - Transformers
  - Ultrasonic Ceramic
- Transformers
  - Piezoelectric
- Transistors
- Varistor, SMT Multilayer Chip
- Voltage Detectors
- Voltage Regulators
- Zener Diodes
- ZNR

Panasonic Electric Works
- Counters/Timers
- Relays
  - Mechanical
  - Solid State

Panavise
- Bench Press, IDC Assembly
- Circuit Board Holders
- Tools
- Vise, Magnetic Base Adapter

Panduit
- Cable Clamps
- Connectors, Splice
- Ducts
  - Accessories
- Heat Shrink
- Labels
  - Heat Shrink
  - Thermal Transfer
  - Wire Marker
- Lockouts
- Printers, Wire Marker
- Raceway, Wire Duct
- Tools
- Wire Ties

Parallax, Inc.
- BASIC Stamp
  - Accessories
  - Books
  - Carrier Boards
  - Kits
  - Modules
- "Board of Education" Kit
- Programmers
  - BASIC Stamp
  - Ubicom 5X Series

Parlex Corporation
- Flat Flex Assemblies
  - DF9
- Flat Flex Cable
  - .050" (1.27mm)
  - .100" (2.54mm)
  - 0.5mm
  - 1mm

Pericom Semiconductor Corporation
- Integrated Circuits
  - Analog Switch
  - Bus Switch
  - Clock Drivers
  - LVDS Data Transmission
  - Video Switch
- Logic ICs
  - 74ALVCH
  - 74ALVTC
  - 74AVC
  - 74FCT
  - 74LPT
  - 74VCX
  - SOTiny™

Philips
- Amplifiers
- Data Communication
- Data Conversion
- Data Transmission
- I/O Expanders
- Logic Translation
- Memory
- Microcontrollers
- Power Control/Management
- Power Supply Products
- Radio Frequency IC's
- Real Time Clocks
- Signal Controllers
- Specialized
- Temperature Sensors
- Timers

Phoenix Contact
- Connectors
  - D-Sub, Industrial
  - Modular Jacks, Industrial
- DIN Rail
  - Accessories
- PCB
- Power Supplies
- Terminal Blocks

Phoenix Passive Components
- Resistors
  - Metal Film

Photonic Detectors
- (see Advanced Photonix, Inc.)

Pomona Electronics
- Adapters
  - Kits
  - RF
- Boxes
  - Aluminum
- Cable Assemblies
- Test Equipment
  - Accessories
  - Oscilloscope Probes
  - Probes
  - Test Leads

Pontiac Coil, Inc.
- Solenoids

Portescap Danaher Motion (Specialty Motors)
- Stepper Motors

Potter & Brumfield/Tyco Electronics
- (see Tyco Electronics/Potter & Brumfield)

Power-One
- DC-DC Converters
- Power Supplies
- Programmable

PowerStor (Division of Cooper Bussmann)
- Capacitors
  - Supercapacitors
- Kits
  - Supercapacitors

Power Trends
- (see Texas Instruments/Plug-In Power Solutions)

PRD Plastics
- Bezels

Precision Electronic Components Ltd.
- Potentiometers
  - Carbon
  - Digital Readout Dial
  - Ten-Turn Wirewound

Pulsar
- PC Board Prototyping

Pulse
- Excelsus®
  - Filters
    - CPE
    - DSL
- Inductors
  - Chip
  - Drumcore
    - Shielded
    - Unshielded
  - Power, Surface Mount
  - Toroidal
  - High Frequency
- Modular Jacks
  - Filtered
- Transformers
  - Telecommunication
    - LAN Discrete Modules
    - Balun

Q

Quadravox, Inc.
- Adapters
- Programmer, Voice Record/Playback
- Prototyping Tools
- Sound Modules

Qualtek
- AC Receptacles
- Fans, Accessories
- Power Entry Modules

Quantum Research Group
- Sensors

Quarton, Inc.
- Laser Diode, Module
- Laser Line Generator

R

Rabbit Semiconductor
- (see Z-World/Rabbit Semiconductor)

Raychem Cable Protection/ Tyco Electronics
- (see Tyco Elec./Raychem Cable Protection)

Raychem/Tyco Electronics
- (see Raychem/Tyco Elec.)

Red Lion Controls
- Counters, Modules
- Panel Meters, Miniature
- Voltmeter

Renesas Technology America
- Diodes
  - Schottky
- Microcontrollers
- MOSFETS
- SRAM
- Thyristors

R.F. Solutions
- PIC Emulators
  - Adapter
  - Daughter Boards
- RF Transmitters/Receivers

Richco Plastics Company
- Bushing Insulators, Nylon
- Bushings, Strain Relief
- Cable Clamps
- Cable Ties
- Fuses, Covers
- Grommets
- Spacers, LED

- Ties
  - Beaded
  - Cable
  - Hanking
  - Holders
  - Wire
- Tools, Cable Ties Gun
- Wire Saddle
- Wire Ties

ROHM
- Capacitors
  - Multilayer Ceramic Chip
  - Surface Mount
- Diodes
  - Schottky
  - Switching
  - Zener
- Integrated Circuits
  - Comparators
  - DC-DC Converters
  - Op Amps
  - Voltage Regulators
- LEDs
  - Surface Mount
- Memory IC's
  - EEPROM, Serial
- Mosfets
- Resistors
  - Arrays
- Sensors, Optical
- Transient Voltage Suppressors
  - ESD
- Transistors

S

Schaevitz
(see Measurement Specialties/Schaevitz)

Schurter, Inc.
- Connectors
- Power Entry Module
- Switches

Sensory, Inc.
- Voice Recognition Kit
  - Programmable Interactive Development Kit
  - Programmable Interactive Module

Senstronics, LTD
- Sensors, Pressure

SenSym ICT
- Sensors, Pressure
- Transducers, Pressure

Serpac Electronic Enclosures
- Boxes
- Cases
  - Computer
  - Watertight/Airtight
- Enclosures
  - Plastic
  - Plastic E.M.I.

Sharp Microelectronics
- Cable Wire
- Displays
  - LCD Modules, TFT
- Fiber Optic
  - Cable
  - Receivers
  - Transmitters
- ICs/Semiconductors
  - Chopper Regulators
  - LDO Voltage Regulators
  - Memory
- Laser Diodes
- LEDs
- Microcontrollers
  - ARM
- Optoelectronics
  - IR Emitters
  - Light Detectors
  - Photo Diodes
  - Photo Transistors
  - Photocouplers
  - Photointerrupters
- Relays, Solid State
- Sensors
  - Distance Measuring
  - Dust

Silicon Laboratories, Inc.
- Prototyping Boards

Singatron
- Connectors, Circular DIN & Mini DIN

Soberton
- Audio Transducers

Softec Microsystems SRL
- Programmers
- Programming/Prototyping Adapters
- Software Libraries

Sprague-Goodman
- Capacitors, Trimmer
- Tools

SRC Devices
- Relays, Reed
- Switches, Reed

Staco Energy Products Company
- Transformer
  - Toroidal
    - Variable

Stanley Electric Sales of America
- LEDs
  - 7-Segment
  - Alphanumeric
  - Bar Lights
  - Bi-Color
  - Surface Mount

Steward
- Bead Cores
- CAN BUS Chokes
- Chip Beads
  - Common Mode Chokes
  - High Current Inductors
- Coils/Inductors
  - Chip
  - Common Mode Choke
  - Monolithic
- Common Mode Chip Bead
- Common Mode Chokes
  - Arrays
  - High Current
  - Kits
  - Power
- Differential Mode Filters
- EMI Filters
- EMI Shields
- Evaluation Kits, Ferrite EMI
- Ferrites
  - Axial Lead Beads
  - Bead Cores
  - Broad Band Cores
  - Chip Arrays
  - Chips
  - Clamp-On Cylinder
  - EMI Discs and Plates
  - Differential Mode Filters
  - Flat Core
  - High Frequency Cores
  - Low Frequency Cores
  - Kits
  - Ribbon Cable
  - Ring Cores
  - SMT Chip Beads
  - Split Core
  - Surface Mount
  - Thru Hole Filters
- Inductors, SMT
- Inductors/Coils
  - Chip
  - Monolithic
- Kits
  - Chokes
  - EMI Components
  - Ferrite Cable Cores
  - Ferrite Cores

Stewart Connector Systems
- Connectors, Modular Plugs and Jacks
- Modular Plugs and Jacks
- Tools, Crimp

STMicroelectronics
- Diodes
- Mosfets
- RFID, Evaluation Kits

Storm Interface
- Cable Assemblies
- Encoder
- Keyboards
- Keypads
- Trackball

Sullins Electronics Corporation
- Connectors
  - 1mm
  - Compact PCI
  - Edgeboard
  - Hard Metric
- Headers
  - .1"
  - 2mm
- Shunts

Sumida Corporation
- Inductors, Power
- Switches, Reed

Sunbrite
- LEDs
  - Bi-Color
  - Cluster
  - Incandescent
  - Replacement
  - LuxLEDs™
  - Poly LEDs

Sunon
- Blowers
- Fans
  - Chip Cooler

Supco (Sealed Unit Parts Co.)
- Megohmmeter
- Tester, Capacitor

Susumu Co., Ltd.
- Capacitors, Thin Film Chip
- Inductors, Thin Film
- Resistors
  - Thin Film Chip
  - Kits

Swanstrom Tool
- Tools, Cutters and Pliers

Switchcraft, Inc.
- Connectors
  - Audio
  - Phone Jacks/Plugs
  - Weathertight

Switchcraft, Inc./Conxall
(see Conxall/Switchcraft, Inc.)

T

Tadiran Batteries
- Batteries
  - Lithium

Tamura/Microtran
- Connectors, Modular Jack
- Inductors
  - Common Mode Choke
  - Power
    - Rod Core
    - Wirewound
- Sensors, Current
- Transformers
  - Current Sense
  - Modem/Telcom
  - PC Mount
  - Power
  - Telephone Coupling
  - Wall Mount

TDK
- Bluetooth Serial Modem
  - Adapters
  - PC Cord
- Capacitors
  - Low Inductance, SMT
  - Multilayer Ceramic Chip
- Ferrites
  - Bead Cores
  - Chip
  - Cylinder
- Filters
  - Line
- Inductors/Coils
  - Chip
    - Shielded
  - Common Mode Choke
  - Multilayer
  - Power
    - Surface Mount
  - Shielded SMT
- Inverters
  - CCFL
- Resonators
  - Ceramic
- Thermistors
  - NTC
  - Surface Mount
- Transformers, Balun
- Varistors
  - Multilayer Chip

Teccor Electronics
- Alternistors
- Diacs
- Fuses, Telecommunication
- Quadracs
- Rectifiers
- SCRs
- Sidacs
- Sidactors
- Switches, Bilateral Trigger
- Triacs

TechTools
- Emulator, EPROM/PIC
- Logic Analyzer
- Programmer, PIC

Techcon Systems
(Division of OK International)
- Fluid Dispensing System

Telcom Semiconductor, Inc.
(see Microchip Technology)

Texas Instruments
- Amplifiers
- Audio Volume Control
- Bus Solutions
  - Clock Drivers
  - IEEE 1394
  - PCI
  - PECL
- CCD
- Comparators
  - Low Power
  - Low Voltage
- Data Communications
  - Audio CODECs
  - Central Office CODECs
  - IRDA
  - Ring Controllers
  - SONET Transceivers
  - UARTs
  - USB
  - Video Decoders/Encoders
- Data Conversion
  - Analog Control Circuit
  - Analog-to-Digital Converters
  - Audio Analog-to-Digital Converters
  - Audio Digital-to-Analog Converters
  - Digital-to-Analog Converters
  - DSP-Compatible A/D Converters
  - Voltage-to-Current Converter
  - Voltage-to-Frequency Converters
- Data Transmission
  - 4-20mA
  - Transmitters/Receivers
  - ADSL Drivers
  - Ethernet
  - LCD
  - LV
  - LVCP
  - LVDM
  - LVDS
  - RS232
  - RS422/RS423/RS485
  - SCSI
  - Switches
- Demo Board
- Digital Audio Interface Receiver
- Digital Logic
  - 4000 Family
  - ABT/ABTE/ABTH/ABTR
  - AC/ACT/AHC/AHCT/AHCU
  - ALS
  - ALVC/ALVCH/ALVCHG/ALVCHR/ALVCHS
  - ALVTH/ALVTHR
  - AS
  - AUC/AUCH
  - AUP
  - AVC
  - BCT
  - Bus Switch
  - F
  - FCT
  - Future Bus
  - GTL/GTLP/GTLPH
  - LV
  - LVC/LVCC/LVCH/LVCHR/LVCR/LVCU/LVCZ
  - LVT/LVTH/LVTZ
  - LVU
  - MLVD
  - S
  - SSTL/SSTU/SSTV
  - TTL
  - VMEH
- Digital Radio
- Digital Signal Processors
- FIFO Memory
- Filters
- Integrators
- I/O Expanders
- Linear Peripheral Drivers
- Microcontrollers
  - Development Tools
  - MSP430 Family
  - TMS370 Family
- Multiplexers
  - Analog
- Optical Sensors
- Power Control/Management Products
  - CCFL Drivers
  - Hot Plug
  - Hot-Swap
  - Peripheral
  - Power + Array
  - Power + Logic
- Power Supply Products
  - Audio Differential Line Drivers
  - Battery Management
  - Buck Regulators
  - DC-to-DC Converters
  - MCU Supervisory Circuit
  - Drivers
  - MOSFET/MOSFET Drivers
  - Power Distribution Switches
  - PWM Controllers
  - Schottky Diode Arrays
  - Voltage References
  - Voltage Regulators
    - Low Dropout Volt. Regulators
- Programmable Gate Arrays
- RealTime Clocks
- RF Products
- Signal Controllers
  - Audio
  - Processors/CODECs

Texas Instruments/ Plug-In Power Solutions
- Integrated Circuits
  - DC-DC Converters
  - Switching Regulators

Texas Instruments RFid Systems
- Antennas
- RFid
  - Evaluation Kits
  - Modules
  - Readers
- Transponders

Thermometrics
(see GE Infrastructure Sensing)

Toko
- Antenna, GPS
- Patch/Element
- Coils
  - Variable
- Diodes
- Filters
  - Chip
  - Common Mode
  - Dielectric
  - Helical
- Inductors
  - Chip
  - Fixed
  - Kits
  - Surface Mount
- Integrated Circuits
  - DC DC Converters
  - Op Amp
  - Video Line Driver
  - Voltage Regulator
- Power Supplies, Switching
- Transformers, Balun

Toshiba
- Evaluation Kit
- Fiber Optic
  - Transmitting/Receiving Modules
- IC Drivers, Darlington Sink
- Integrated Circuits
- Linear ICs
- Logic ICs
- Memory ICs
  - Floppy Disk Cards
- Microcontrollers
- MOSFETs
- Optoisolators
- Photovoltaic Coupler
- SSRs
- Sensors, Illumination

Tosoku
- Optical Encoders

TPI
- BNC Cables
- Coax Adapter Connector Kit
- Detectors
  - CO
  - Combustible Gas Leak
  - Refrigeration Leak
- F (Television) Cables
- Manometers
  - Digital
- Multimeters
- Oscilloscopes
- Probes, Oscilloscope
- Software, Oscilloscope
- Test Clips
- Test Leads
- Thermometers

TransERA Electronics, Inc.
- Transformers
  - Encapsulated
  - Power

Triad Magnetics
- Inductors
  - High Frequency
  - Rod Core
  - Switchmode
  - Toroidal
- Transformers
  - Audio
  - Control
  - Power
  - Switchmode

Tripp Lite Power Protection
- Battery Pack
- Computer Equipment
  - KVM Switches
- Hospital Grade Products
- Isolation Transformers
- Line Conditioners
- Power Inverters
- Power Strips
- Power Supplies, DC Regulated
- Surge Suppressors
- UPS Systems

The following items are also available through Digi-Key. Go to *www.digikey.com* and do a keyword search to find the products you want.

TT Electronics/Optek Technology
- Optoisolators
- Photodiodes
- Sensors
  - Hall Effect
  - Optical
- Switches, Optical

Twin Industries
- Extender Cards
- SMT Adapter Boards
- Solderless Breadboards
- Prototyping Boards

Tyco Electronics/ Aicoswitch
- Switches
  - Dip
  - Keylock
  - Pushbutton
  - Rocker
  - Rotary
  - Tact
  - Toggle

Tyco Electronics/AMP
- Adapters
  - Fiber Optic
  - Modular
  - Modular Coupler
  - RF
- Backshells, D-Sub
- Cable Assemblies
- Cable Clamp
- Cable
  - Fiber Optic
  - Flat Flex
  - Ribbon
- Connectors
  - .050"
  - .100"
  - 1mm
  - 4.2mm
  - Accessories
  - BNC
    - Accessories
    - Adapters
    - Crimp
    - Decoupled
    - Field Serviceable
    - Jack
    - Terminal Plugs
    - Twist-On
  - Card Edge
  - Centronics
  - Champ
    - Action Pins
  - Circular
    - Accessories
    - Audio/Instrument
    - Coaxial
    - MIL-C-5015
    - Plug Assemblies
  - Commercial
  - Crimp Terminal
  - DIN, Circular
  - DIN, Rectangular
  - D-Sub
  - Dynamic
  - Eurocard
  - Faston
  - Fiber Optic
  - Flat Flex
  - Flexi-Block
  - Hardware, D-Sub
  - Headers
  - Hoods, D-Sub
  - IDC
  - Industrial Ethernet
  - LAN
  - Mate-N-Lok
  - Memory Card
  - Metrimate
  - Mictor
  - Miniature Rectangle
  - Miniature Threaded
  - Modular
  - Modular Jacks
  - M-Series
  - MTA (.100" and .156")
  - N Type
  - Power
  - Rectangular DIN
  - Retention Modules
  - RF
    - Accessories
    - Adapters
    - BNC
    - Miniature Threaded
    - N Type
    - SHV
    - SMA/SMB
    - TNC
    - Tools, Crimp
    - UHF
  - RITS
  - SCSI
  - SHV
  - SMA/SMB
  - Socket, IDC
  - Softshell (.062" and .093")
  - Splice
  - Surface Mount
  - Switch
  - Terminal Blocks
  - Terminals-Splices
    - Crimp
  - TNC
  - Twin-Beam
  - UHF
  - Z-pack 2mm
    - FB
    - HM
- Contacts (see Connectors)
- Extractor, PLCC Socket
- Fiber Optic
  - Adapters
  - Attenuators
  - Cable
  - Cable Assemblies
  - Connectors
  - Photodetectors
  - Receivers
  - Switches
  - Tools
  - Transceivers
  - Transmitters
- Flat Flex Cable
- Headers
  - Pin/Socket
  - SMT Connectors
- IC Sockets
  - Miniature Spring
  - PLCC
  - Surface Mount
- IDC Connectors
  - DIP
  - D-Sub
  - Pin/Plug
  - Socket
- Kits, Champ Connectors
  - D-Sub Connectors
- Modular
  - Adapters
  - Crimp Tools
  - Jacks, IBM Equivalent
  - Jacks, Plugs
- PLCC Extractors
- Ribbon Cable
- Shunts
- Sockets
  - Assemblies, Mod.II and IV
  - IDC Connectors
  - Miniature Spring
  - PLCC
  - SMT, IC
- Terminal Blocks
- Terminals, Braid-Pic
- Terminals – Splices
- Tools
  - Audio/Instrument
  - Crimp
  - Fiber Optic
  - Modular Crimp

Tyco Electronics/CoEv Magnetics
- Inductors
  - Drum Core
  - Surface Mount

Tyco Electronics/ Corcom
- Modular Jacks, Filtered
- Power Entry Module
- RF Line Filters

Tyco Electronics/ Potter & Brumfield
- Circuit Breakers
- Relays, Mechanical
  - Safety
  - Solid State
- Timers, Solid State

Tyco Electronics/Power Systems
- Converters DC-DC
  - Dual Output
  - Single Output
  - Triple Output
- Filter Module
  - DC Filter Module

Tyco Electronics/ Raychem Cable Protection
- Heat Shrink
  - Kits
  - Sleeves
  - Tubing

Tyco Electronics/Raychem
- Fuses, SMT
- Power Distribution Switch
- Resettable Devices
- Surge Protectors, Sibar Thyristor
- Varistors, Metal Oxide

U

United Chemi-Con
- Capacitors
  - Aluminum Electrolytic
    - Surface Mount

US-Lasers, Inc.
- Laser Diode
  - Housing Kit
  - Infrared
  - Power Supply, SMT
  - Visible Red
- Laser Diode Module
  - Adjustable Focus
  - Infrared Red
  - Visible Red

US Relays and Technology, Inc.
- Reed Relays

V

Varitronix Limited
- LCD Displays
- LCD Modules, Character Graphic

Vector Electronics & Technology, Inc.
- Backplanes
- Card Extenders
- Card Racks
- Connectors, Edgeboard
- PC Board Prototyping
  - Accessories
  - PCI Development
  - Prototyping Boards

V-Infinity
(Division of CUI, Inc.)
- AC-DC Converters
- DC-to-DC Converters
- Power Supplies, Switcing

Vishay
- Resistors
  - Surface Mount
  - Wirewound

VTI
- Sensors
  - Accelerometers
  - Inclinometers

Volgen (Division of Kaga Electronics USA)
- Power Supplies
  - Switching
  - Universal Input

W

Waka/Hoei America
- Cable Assemblies

Wakefield Engineering
- Heat Sinks
  - Grease
  - Pads

Waldom/Cinch (see Cinch)

Waldom/Molex
- Cable Assemblies
- Cable Jumpers, Flat
- Connectors
  - 0.5mm
  - 1.00mm
  - 1.25mm
  - 1.5mm
  - 2mm
    - Milli-Grid
    - Sherlock
  - 3.0mm Micro-Fit
  - Blindmate (BMI)
  - Breakaway
  - Card
  - C-Grid
  - Crimp Terminal
  - FFC/FPC
  - Firewire
  - GBIC
  - Headers
  - I/O
    - 1394
  - Memory
    - Compact Flash
    - DIMM
    - SIMM
  - Mini-Fit
    - BMI
    - HCS
    - SMC
    - Sr.
  - Modular Jack
  - Panel Mate
  - P.C. Board Power
  - Sabre
    - Tools
  - SCSI
  - SFP (Small Frame Pluggable)
  - Switch
  - USB
  - Waterproof
- Headers
- Sockets
  - DIMM
  - SIMM
  - Transistor
- Tools
  - Crimp, C-Grid Extraction

Weidmuller
- DC-DC Converters
- Power Supplies
- Terminal Blocks
- Tools

Weller
- Soldering Equipment
- Soldering Irons
  - Replacement Tips
- Soldering Station
  - Calibration Unit
- Thermal Tweezers
- Vacuum Tool

Wickmann
- Fuses
  - Axial
  - Kits
  - Metric
  - Picofuse
  - Surface Mount
  - Telecom
- Holders
  - Panel Mount
  - PC Mount

Wiha
- Hand Tools
  - Bit Holders
  - Bits
  - Bit Sets
  - Cutters
  - Field Service Kits
  - Hammers
  - Inspection Mirrors
  - L-Keys
  - Pliers
  - Probes
  - Screwdrivers
  - Security Bits
  - Socket Sets
  - T-Handle
  - Tweezers
  - Wire Stripper

Winbond Electronics Corp. America
- Integrated Circuits
  - Codecs
  - Potentiometers
    - Digital
  - Text-to-Speech
- Voice Record/Playback ICs

Wintec Industries
- Memory Cards, CompactFlash
- Memory Modules, SDRAM

World Magnetics
- Sensors
  - Pressure Switches

X

Xcelite
- Pliers/Cutters
- Screwdrivers
- Tools

Xeltek
- Programmers
  - EPROM
  - Universal

Xicor
(see Intersil)

Y

Yageo
- Antennas, Ceramic
- Resistors
  - Thin Film
    - Surface Mount

Z

Zetex
- Amplifiers
- Brushless Fan Motor Controllers
- Diodes, Surface Mount
- Hyperabrupt Varactor Diodes
- Integrated Circuits
  - Current Monitor/Mirror
  - DC/DC Converters
  - Specialized Timer
  - Variable Q Filter
- MOSFET/MOSFET Drivers
- Security Siren Driver Transistors
  - "H" Bridge
- Voltage Reference
- Voltage Regulators
- Voltage Supply Monitor

Zilog
- Adapter
  - Programming
- Counters/Timers
- Controllers
  - Modem
- Development Systems
  - IR
  - Thermostat
- Development Tools
  - Accessory Kits
  - Adapters
  - Development Kits
  - Emulators
  - Modules
  - Programmer
- Integrated Circuits
- Microcontrollers
  - Encore! XP®
- Microprocessors
- Transceivers
- Web Server Development Kit

Z-World/Rabbit Semiconductor
- Application Kits
- Microprocessor
- Programmable Circuits
- Programmable Controllers
  - Accessories
- Reference Books
- Software
- TCP / IP Development KitT
- TCP / IP Tool Kit
- Tech Support

Conversion Chart

inch	to	mm	inch x 25.4
mm	to	inch	mm ÷ 25.4
inch	to	cm	inch x 2.54
cm	to	inch	cm x .3937
feet	to	meters	foot x .3048
meters	to	feet	meter x 3.28084
ounce	to	grams	oz. x 28.349
pounds	to	kilograms	lb. x .4536
µf	to	pf	.1µf = 100,000pf
µf	to	nf	.1µf = 100nf
pf	to	nf	100,000pf = 100nf
nf	to	µf	100nf = .1µf
celsius	to	fahrenheit	c x 1.8 + 32
fahrenheit	to	celsius	f – 32 ÷ 1.8

VA = volt x amps
watt = volt x amps

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MAIL/FAX ORDER FORM

#P053

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701 Brooks Ave. South
PO Box 677
Thief River Falls, MN 56701-0677

	No. of Pages:
To:	From:
Co.: *Digi-Key Corporation*	Co.:
Dept.: *Order Department*	Phone No:
Fax No: *218-681-3380*	Fax No:

(Please Check One)

❑ Personal Order ❑ Company Order (Please Check One)

Payment Method: ❑ Credit Card ❑ COD ❑ Check or MO ❑ Open Acct.

Card Number: ❑MC ❑VISA ❑AmEx ❑Discover

Expiration Date Mo. Yr.

Security Code (See back of card.)

Credit Card Holder's Name (Please Print Clearly)

Ship to:

Customer Number

Customer Name

Company Name Phone ( )

Shipping Address Apartment/Suite

City State Zip

Bill to:

P.O. No. Account No.

Company Name Phone ( )

Billing Address Apartment/Suite

City State Zip

	Quantity	Digi-Key Part No.	Description (brief)	Price/Unit	Total Price
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

Ship Via:

Are substitutions acceptable?
❑ Yes ❑ No

Are backorders acceptable?
❑ Yes ❑ No

Backordered for a period of _____ days.

Backorder shipping method:

Confirmation required?
❑ Yes ❑ No

Confirm VIA: ❑ Phone ❑ FAX

HANDLING CHARGES

$0.00 - $24.99 ..... Add $5.00
$25.00 and Up ..... No Charge
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We pay all shipping (our choice of method) and insurance to addresses in the USA and Canada when check or money order accompanies order. See "Ordering Information/Shipping Charges" for details on heavy/oversize items.

1. Total of all items ..... $
2. Orders less than $25.00 add $5.00 handling charge ... $
3. Sub Total ..... $
4. Minnesota residents add 6.5% tax of line 3 ..... $
5. International orders (excluding Canada) add $6.00 ..... $
6. Total enclosed ..... $
   (Total of all lines) (US Dollars)

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The foregoing remedy shall be subject to buyer's written notification of defect and return of the defective product within ninety (90) days of purchase. The foregoing remedy does not apply to products that have been subjected to misuse (including without limitation static discharge), neglect, accident or modification, or to products that have been soldered or altered during assembly, or are otherwise not capable of being tested.

IN NO EVENT SHALL DIGI-KEY BE LIABLE TO THE BUYER OR TO ANY THIRD PARTY FOR ANY INDIRECT, INCIDENTAL, SPECIAL, CONSEQUENTIAL, PUNITIVE OR EXEMPLARY DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS, LOST SAVINGS, OR LOSS OF BUSINESS OPPORTUNITY) ARISING OUT OF OR RELATING TO ANY PRODUCT OR SERVICE PROVIDED OR TO BE PROVIDED BY DIGI-KEY, OR THE USE OR INABILITY TO USE THE SAME, EVEN IF DIGI-KEY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

Infringement Disclaimer:

Notwithstanding section 2-312 of any applicable version of the Uniform Commercial Code or any other similar law, or any purchase order term, other contractual provision or the like from the buyer, Digi-Key: (i) expressly disclaims any and all warranties against third party claims for infringement or the like, and (ii) shall have no obligation of any kind to the buyer for claims brought by third parties against the buyer for infringement or the like arising out of or in any way related to product purchased by the buyer from Digi-Key.

How To Order

❒ By Telephone: 800-344-4539 (US & Canada) or 218-681-6674

Our friendly sales representatives are ready to serve you from 6:00pm Sunday through 6:00am Saturday Central Time. For most efficient service, please have ready a list of quantities and part numbers and, if paying by credit card, your MasterCard, VISA, American Express or Discover card.

Note: Calls may be recorded or monitored for quality and training purposes.

❒ By Fax: 218-681-3380

Digi-Key Fax lines can be accessed 24-hours a day, 7-days a week, 365-days a year. Depending on the shipping method; fax orders will be processed and shipped according to the "Orders entered by times" listed below under ***Shipment***. Orders received after these cutoff times will be processed and shipped the next business day. Please include your daytime telephone number and/or email address in case we have any questions about your order.

❒ By Internet: www.digikey.com

Order on-line 24-hours a day, 7 days a week, 365 days a year. Digi-Key's Top Rated Web site receives hundreds-of-thousands of orders each year. Internet orders entered after normal business hours are promptly processed and shipped the next business day.

❒ By Mail: Simply Mail Your Order To:

Digi-Key Corporation
701 Brooks Avenue South
PO Box 677
Thief River Falls MN 56701-0677

International customers please see "International Orders" below for additional information.

Ordering Information

Prices/Quantities:

Digi-Key makes every effort to present current and accurate pricing in its catalog and on its Web site. However, prices are subject to change without notice and quantities may be limited. All orders are subject to current pricing at time of acceptance by Digi-Key. Digi-Key country specific Web sites offer alternative currencies. No trade in other currencies will be accepted.

Shipment:

Digi-Key's warehouse is open and staffed Monday through Friday, 7:30am-9:00pm Central Time (subject to holidays). Orders are shipped only on these business days. Orders and correspondence received on Saturday and Sunday will be addressed/shipped on the following Monday and included in that day's business.

Digi-Key's cut-off times for Same-Day Shipment Monday-Friday are as follows:

- Orders entered by 6:00pm CT–All USPS Options (Express Mail delayed 1 day).
- Orders entered by 7:00pm CT–FedEx ground.
- Orders entered by 8:00pm CT–All UPS air and surface options; All FedEx air options.

Shipping Charges:

Shipping or freight charges and insurance will be paid by the customer*. All sales are made FOB point (as defined by the INCOTERMS 2000) in Thief River Falls, MN, USA. Shipping or freight charges from Digi-Key's warehouse in Thief River Falls, MN are prepaid and added to the invoice, billed collect or billed to a 3rd party.

* When a check or money order accompanies your order, Digi-Key pays all shipping and insurance (our choice for method of shipping) to all addresses in the USA and Canada, unless such charges exceed 10% on orders of $200 or less, or 5% on orders greater than $200. Digi-Key will notify you prior to shipment if these conditions exist.

Handling Charge:

- A $5.00 handling charge applies to all orders less than $25.00. This fee will be waived on orders of $25.00 or more.
- A $6.00 processing fee will be applied to all International orders, excluding Canada.

Sales Tax:

Only Minnesota residents need to remit 6.5% sales tax. Digi-Key does not remit sales tax to states other than Minnesota. Any sales tax due that is not collected by Digi-Key is the responsibility of the customer.

Payment:

Digi-Key offers a number of convenient payment methods:

For United States customers we offer check, money order, MasterCard, VISA, American Express, Discover, and C.O.D. as well as open account credit to qualified institutions and businesses.

For Canadian customers we offer all of the above payment options except C.O.D.

For International customers see "International Orders" below.

To obtain a credit application for open account credit, contact any sales representative by calling 800-344-4539 (US & Canada) or 218-681-6674 or faxing your request to 218-681-3380. Or, you may go to www.digikey.com and click on "Contact Us", which will bring you to the "Digi-Key Communications" page. Then click on "Net 30 Credit Application" in the "Accounting" box. Please allow sufficient time for the credit approval process. To avoid delay on your initial order you may elect an alternative payment method.

Dishonored Check Policy:

If a check you give us for payment is dishonored for any reason by the bank or other institution on which it is drawn, you agree to pay us $20.00 as a service charge (if the check cannot be redeposited) pursuant to Minnesota Statutes § 332.50. In addition, you agree to pay any other reasonable charges imposed by any check verification company or collection agency that we may use for collection.

Out-Of-Stock:

On orders paid by check, money order or credit card, items not available for immediate shipment will be shipped as they become available. Items not available at the end of 30 days will be cancelled and refunded/credited in cases of prepayment. The number of backorder days may be extended beyond 30 days at customer's request. If a refund check is issued, the cancelled item can be re-entered without a handling charge if the check and cancellation notice are returned to us.

On orders billed to customers with open account credit, items not available for immediate shipment will be shipped and billed as they become available. Items not available at the end of 90 days will be cancelled. The number of backorder days may be extended beyond 90 days at customers request.

International Orders:

In addition to the United States and its territories, Digi-Key accepts International orders. All orders of International origin are exported from the US in accordance with the Export Administration Regulations. Diversion contrary to US Law is prohibited. An additional handling charge of $6.00 will be included for processing and invoicing. All duties and taxes will be the responsibility of the customer.

Payment options for International customers: MasterCard, VISA, American Express, Discover, cashier's check in US funds, as well as open account credit to qualified institutions and businesses. We cannot accept personal checks or certified personal checks. Money orders can result in significant delays. Use of Letters of Credit must be approved in advance by Digi-Key's Accounting Department.

To obtain a credit application for open account credit, contact any sales representative by calling 218-681-6674 or faxing your request to 218-681-3380. Or, you may go to www.digikey.com and click on "Contact Us", which will bring you to the "Digi-Key Communications" page. Then click on "Net 30 Credit Application" in the "Accounting" box. Please allow sufficient time for the credit approval process. To avoid delay on your initial order you may elect an alternative payment method.

Customer Service:

Voice: 800-858-3616 in (US & Canada) or 218-681-6674

Fax: 218-681-3380

Internet: www.digikey.com (click "Contact Us")

Mail: Digi-Key Corporation
Attn: Customer Service
PO Box 677
Thief River Falls MN 56701-0677

A friendly, competent staff of customer service representatives is available from 6:00pm Sunday through 6:00am Saturday Central Time to assist you. Please have your sales order or invoice number available when you call.

Freight Damage:

If you receive merchandise that has been damaged in transit, it is important to keep the shipping carton, packing material and parts intact. Please contact a Digi-Key Customer Service representative immediately to initiate a claim. See "Customer Service" above for contact information.

Return Policy:

Digi-Key accepts merchandise returns subject to the terms outlined below and will replace the product or refund your money at your option.
To facilitate processing of returned merchandise:

- Please contact a Customer Service Representative to obtain an RMA (Returned Merchandise Authorization) number prior to returning product. See "Customer Service" above for contact information.
- All returns should be made within 30 days of date of invoice and be accompanied by the original invoice number and a brief explanation of the reason for the return.
- Return freight charge must be prepaid. Sorry, C.O.D. returns cannot be accepted.
- Returned merchandise must be in original packaging and resalable condition.
- Parts returned due to customer error may be subject to a restocking charge. "Not-in Catalog Items" and parts specified as "Non-Cancelable/Non-Returnable" at time of quote or sale are not returnable.
- Defective merchandise may be returned within 90 days of the original invoice date and need not be in original packaging.

Duplicate Mailings:

If you receive more than one catalog with the same name and address, please return the labels to Digi-Key and pass the catalog along to a friend. Also, if you do not require multiple copies to the same company address, contact a sales representative to verify your mailing information. A forms based communications method for catalog issues (Receive, Remove, Change of Address) can be accessed at www.digikey.com by clicking "Contact Us", which brings you to the "Digi-Key Communications" page. Then click "Catalog Mailing List" and scroll to "Service Out Options" to note your preferences. Alternatively, you may mail, telephone or fax Digi-Key your request.

Environmental Packaging:

Based on our commitment to the environment and you, our valued customer, we are now using Geami, a 100% recyclable packaging product. Both the outer and the inner tissue can be put in your newspaper bin for recycling.

Privacy Policy:

Your privacy as a customer is very important to us. We want you to know how your customer information is used.

Once you make a purchase, request a catalog or other information from Digi-Key, your name, shipping/mailing address, telephone number, email address and fax number are included in our customer file.

This information is used to ensure a quick, efficient flow of products and services to you. This information may also be used for other purposes as outlined below.

Postal Addresses: Digi-Key may use your mailing address to send the Digi-Key catalog to keep you updated on our most current products and services.
Occasionally, Digi-Key may make the names and addresses of our customer list available to carefully screened companies that offer products and/or services that may be of interest to you.

Email Addresses: Email addresses may be used to communicate information of interest to you about Digi-Key. This includes Order Shipment/Tracking Information, Obsolete Part Bulletins, Service Change Information or other Digi-Key promotional emails.

Emails may be sent by Digi-Key or an authorized agent working for Digi-Key. All authorized agents operate with a confidentiality agreement. Information sent in this manner will always include "opt out" options.

Email addresses are never rented, sold or traded to third parties.

Opt Out: You may elect to opt out of any of the above uses of your customer information by completing the "Opt Out" form in our privacy statement on our Web site or by contacting us by telephone, fax or mail.

Other Uses Of Customer Information: Digi-Key is under contract to provide point of sale information to many of its product suppliers for market research and payment of commission to the supplier's agents.

If you have an open account with Digi-Key, credit and payment history will periodically be shared with credit reporting agencies.

Customer information is also used for marketing and market research for Digi-Key Corporation. Digi-Key or an authorized agent working for Digi-Key may complete these activities. All customer information is kept confidential.

Digi-Key will share customer information with government agencies if required by law.

Note: We reserve the right to make changes to our privacy policy at any time without prior notification.

ISO 9001:2000 Certified:

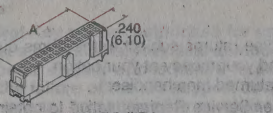
Digi-Key's operations from order entry through shipping have been fully ISO certified since March 17,1994 and are recertified on an annual basis. A copy of Digi-Key Corporation's ISO Certification is available at www.digikey.com or upon verbal or written request.

tyco Electronics AMP

Socket Connectors

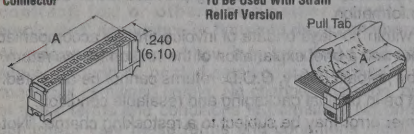
A

Socket Connector with Central Polarizing Key



Socket Connector

Permanent Pull-Tabs To Be Used With Strain Relief Version



Material and Finish:

Plastic Shell: • **Housing, Cover & Strain Relief** — Black thermoplastic, 94V-0 rated

• **Gold Finish: Contacts** — Phosphor bronze, duplex 15µ" gold or 30µ" gold on post/pin mating end, 100µ"-200µ" bright tin-lead on termination end, with entire contact underplated 50µ" nickel

No. of Cont.	Contact Finish	Dimension A Inch (mm)	Digi-Key Part No.	Pricing 1	Pricing 10	AMP Part No.
Socket Connector Only (Strain Reliefs Sold Separately)						
10	15µ" AU	.68 (17.27)	ASC10G-ND	1.15	5.46	499997-1
14	15µ" AU	.88 (22.35)	ASC14G-ND	1.68	7.97	499997-2
16	15µ" AU	.98 (24.89)	ASC16G-ND	1.77	8.39	499997-3
20	15µ" AU	1.18 (29.97)	ASC20G-ND	1.86	8.81	499997-4
24	15µ" AU	1.38 (35.05)	ASC24G-ND	2.30	10.91	499997-5
26	15µ" AU	1.48 (37.59)	ASC26G-ND	2.30	10.91	499997-6
30	15µ" AU	1.68 (42.67)	ASC30G-ND	3.04	14.41	499997-7
34	15µ" AU	1.88 (47.75)	ASC34G-ND	2.57	12.17	499997-8
40	15µ" AU	2.18 (55.37)	ASC40G-ND	2.89	13.70	499997-9
50	15µ" AU	2.68 (68.07)	ASC50G-ND	3.45	16.37	1-499997-0
64	15µ" AU	3.38 (85.85)	ASC64G-ND	5.01	23.77	1-499997-2
10	30µ" AU	.68 (17.27)	ASN10A-ND	1.42	6.71	746290-1
14	30µ" AU	.88 (22.35)	ASN14A-ND	1.86	8.81	746290-2
16	30µ" AU	.98 (24.89)	ASN16A-ND	1.95	9.23	746290-3
20	30µ" AU	1.18 (29.97)	ASN20A-ND	2.03	9.65	746290-4
24	30µ"AU	1.38 (35.05)	ASN24A-ND	4.08	19.33	746290-5
26	30µ" AU	1.48 (37.59)	ASN26A-ND	2.30	10.91	746290-6
30	30µ" AU	1.68 (42.67)	ASN30A-ND	2.65	12.59	746290-7
34	30µ" AU	1.88 (47.75)	ASN34A-ND	2.92	13.85	746290-8
40	30µ" AU	2.18 (55.37)	ASN40A-ND	3.45	16.37	746290-9
50	30µ" AU	2.67 (68.07)	ASN50A-ND	4.16	19.72	1-746290-0
Socket Connector With Polarizing Key						
10	15µ" AU	.68 (17.27)	AKC10G-ND	1.36	6.46	746285-1
14	15µ" AU	.88 (22.35)	AKC14G-ND	1.93	9.17	746285-2
16	15µ" AU	.98 (24.89)	AKC16G-ND	2.10	9.94	746285-3
20	15µ" AU	1.18 (29.97)	AKC20G-ND	1.91	9.08	746285-4
24	15µ" AU	1.38 (35.05)	AKC24G-ND	2.30	10.91	746285-5
26	15µ" AU	1.48 (37.59)	AKC26G-ND	2.37	11.24	746285-6
30	15µ" AU	1.68 (42.67)	AKC30G-ND	2.57	12.17	746285-7
34	15µ" AU	1.88 (47.75)	AKC34G-ND	2.64	12.53	746285-8
40	15µ" AU	2.18 (55.37)	AKC40G-ND	2.83	13.43	746285-9
44	15µ" AU	2.38 (60.45)	AKC44G-ND	3.36	15.95	1-746285-3
50	15µ" AU	2.68 (68.07)	AKC50G-ND	3.45	16.37	1-746285-0
60	15µ" AU	3.18 (80.77)	AKC60G-ND	4.42	20.98	1-746285-1
64	15µ" AU	3.38 (85.85)	AKC64G-ND	4.87	23.08	1-746285-2
10	30µ" AU	.68 (17.27)	AKN10A-ND	1.42	6.71	746288-1
14	30µ" AU	.88 (22.35)	AKN14A-ND	1.86	8.81	746288-2
16	30µ" AU	.98 (24.89)	AKN16A-ND	1.95	9.23	746288-3
20	30µ" AU	1.18 (29.97)	AKN20A-ND	2.03	9.65	746288-4
24	30µ" AU	1.38 (35.05)	AKN24A-ND	2.30	10.91	746288-5
26	30µ" AU	1.48 (37.59)	AKN26A-ND	2.30	10.91	746288-6
30	30µ" AU	1.68 (42.67)	AKN30A-ND	2.92	13.85	746288-7
34	30µ" AU	1.88 (47.75)	AKN34A-ND	2.92	13.85	746288-8
40	30µ" AU	2.18 (55.37)	AKN40A-ND	3.45	16.37	746288-9
44	30µ" AU	2.38 (60.45)	AKN44A-ND	4.07	19.30	1-746288-3
50	30µ" AU	2.67 (68.07)	AKN50A-ND	4.16	19.72	1-746288-0
60	30µ" AU	3.18 (80.77)	AKN60A-ND	5.13	24.34	1-746288-1
64	30µ" AU	3.38 (85.85)	AKN64A-ND	5.66	26.86	1-746288-2

No. of Cont.	Contact Finish	Dimension A Inch (mm)	Digi-Key Part No.	Pricing 1	Pricing 10	AMP Part No.
Strain Relief For Socket Connectors						
10	—	.68 (17.27)	ASSR10-ND	.21	1.84	499252-5
14	—	.88 (22.35)	ASSR14-ND	.21	1.84	499252-9
16	—	.98 (24.89)	ASSR16-ND	.21	1.84	499252-8
20	—	1.18 (29.97)	ASSR20-ND	.21	1.84	499252-2
24	—	1.38 (35.05)	ASSR24-ND	.39	3.53	1-499252-0
26	—	1.48 (37.59)	ASSR26-ND	.24	2.15	499252-3
30	—	1.68 (42.67)	ASSR30-ND	.24	2.15	1-499252-2
34	—	1.88 (47.75)	ASSR34-ND	.24	2.15	499252-6
40	—	2.18 (55.37)	ASSR40-ND	.28	2.50	499252-1
44	—	2.38 (60.45)	ASSR44-ND	.73	6.53	1-499252-1
50	—	2.68 (68.07)	ASSR50-ND	.32	2.86	499252-4
60	—	3.18 (80.77)	ASSR60-ND	.36	3.22	499252-7
64	—	3.38 (85.85)	ASSR64-ND	.44	3.93	1-499252-3
Permanent Pull Tabs (For Conn. With Strain Reliefs)						
10	—	.44 (11.18)	ASPT10-ND	.27	2.42	88450-2
14	—	.64 (16.26)	ASPT14-ND	.24	2.14	88450-3
16	—	.74 (18.80)	ASPT16-ND	.27	2.42	88450-4
20	—	.88 (22.35)	ASPT20-ND	.33	2.91	88450-5
24	—	1.08 (27.43)	ASPT24-ND	.18	1.60	88450-6
26	—	1.18 (29.97)	ASPT26-ND	.37	3.32	88450-7
30	—	1.38 (35.05)	ASPT30-ND	.23	2.08	1-88450-2
34	—	1.58 (40.13)	ASPT34-ND	.22	1.95	88450-8
40	—	1.82 (46.23)	ASPT40-ND	.24	2.16	88450-9
50	—	2.32 (58.93)	ASPT50-ND	.55	4.96	1-88450-0
60	—	2.80 (71.12)	ASPT60-ND	.82	7.35	1-88450-1
Continuous Strip no positions		120.0 (3048.0)	ASPT01-ND	19.34	173.15	88450-1
Keying Plug For Socket Connectors						
Keying Plugs			ASKP01-ND	.13	1.21	499712-1
Keying Plugs 10/Comb			ASKP02-ND	1.01	9.07	104072-1

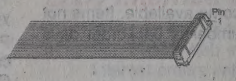
A□□□□□-□□□□□-ND

- Style: 1 or 3□□ (Socket)
- Conn. Finish: G is ≤15µ Gold; A is ≥15µ Gold; T=Tin
- Ribbon Cable: M=Multi-color, G=Gray
- Length (Use "Inches" only.)
- No. Of Contacts

Termination Jumpers

Socket Connector — Single Ended

* MC = Multi-Color, GR = Gray



Socket connector without strain relief shown.

No. of Contacts	Conn. Finish	Length Inch (cm)	Ribbon* Cable	Digi-Key Part No.	Pricing 1	Pricing 10
10	Gold	36 (91.44)	MC	A1AXG-1036M-ND	2.36	19.26
	Gold	36 (91.44)	GR	A1AXG-1036G-ND	1.60	13.06
14	Gold	36 (91.44)	MC	A1AXG-1436M-ND	3.38	27.54
	Gold	36 (91.44)	GR	A1AXG-1436G-ND	2.22	18.08
16	Gold	36 (91.44)	MC	A1AXG-1636M-ND	3.78	30.74
	Gold	36 (91.44)	GR	A1AXG-1636G-ND	2.40	19.51
20	Gold	36 (91.44)	MC	A1AXG-2036M-ND	4.63	37.69
	Gold	36 (91.44)	GR	A1AXG-2036G-ND	2.72	22.18
24	Gold	36 (91.44)	MC	A1AXG-2436M-ND	5.45	44.35
	Gold	36 (91.44)	GR	A1AXG-2436G-ND	3.20	26.03
26	Gold	36 (91.44)	MC	A1AXG-2636M-ND	5.72	46.57
	Gold	36 (91.44)	GR	A1AXG-2636G-ND	3.54	28.79
30	Gold	36 (91.44)	MC	A1AXG-3036M-ND	6.25	50.93
	Gold	36 (91.44)	GR	A1AXG-3036G-ND	4.07	33.15
34	Gold	36 (91.44)	MC	A1AXG-3436M-ND	7.02	57.17
	Gold	36 (91.44)	GR	A1AXG-3436G-ND	3.97	32.35
40	Gold	36 (91.44)	MC	A1AXG-4036M-ND	8.05	65.52
	Gold	36 (91.44)	GR	A1AXG-4036G-ND	4.48	36.48
50	Gold	36 (91.44)	MC	A1AXG-5036M-ND	10.69	87.04
	Gold	36 (91.44)	GR	A1AXG-5036G-ND	6.20	50.48
64	Gold	36 (91.44)	MC	A1AXG-6436M-ND	12.73	103.64
	Gold	36 (91.44)	GR	A1AXG-6436G-ND	7.32	59.63

Also available in the following versions:

A1BXG-□□□□□-ND — Socket Connector with Strain Relief

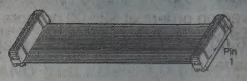
A1CXG-□□□□□-ND — Socket Connector with Central Polarizing Key

A1DXG-□□□□□-ND — Socket Connector with Strain Relief and Central Polarizing Key

Call for complete part number and pricing!

Socket Connector to Socket Connector

* MC = Multi-Color, GR = Gray



Socket connector without strain relief shown.

No. of Contacts	Conn. Finish	Length Inch (cm)	Ribbon* Cable	Digi-Key Part No.	Pricing 1	Pricing 10
10	Gold	6 (15.24)	MC	A3AAG-1006M-ND	2.50	20.38
	Gold	6 (15.24)	GR	A3AAG-1006G-ND	2.38	19.35
	Gold	18 (45.72)	MC	A3AAG-1018M-ND	2.91	23.68
	Gold	18 (45.72)	GR	A3AAG-1018G-ND	2.53	20.58
	Gold	36 (91.44)	MC	A3AAG-1036M-ND	3.51	28.62
	Gold	36 (91.44)	GR	A3AAG-1036G-ND	2.75	22.42
14	Gold	6 (15.24)	MC	A3AAG-1406M-ND	3.55	28.90
	Gold	6 (15.24)	GR	A3AAG-1406G-ND	3.45	28.11
	Gold	18 (45.72)	MC	A3AAG-1418M-ND	4.21	34.30
	Gold	18 (45.72)	GR	A3AAG-1418G-ND	3.63	29.57
	Gold	36 (91.44)	MC	A3AAG-1436M-ND	5.06	41.23
	Gold	36 (91.44)	GR	A3AAG-1436G-ND	3.90	31.77
16	Gold	6 (15.24)	MC	A3AAG-1606M-ND	3.87	31.54
	Gold	6 (15.24)	GR	A3AAG-1606G-ND	3.64	29.67
	Gold	18 (45.72)	MC	A3AAG-1618M-ND	4.54	36.98
	Gold	18 (45.72)	GR	A3AAG-1618G-ND	3.85	31.37
	Gold	36 (91.44)	MC	A3AAG-1636M-ND	5.54	45.15
	Gold	36 (91.44)	GR	A3AAG-1636G-ND	4.17	33.92
20	Gold	6 (15.24)	MC	A3AAG-2006M-ND	4.45	36.24
	Gold	6 (15.24)	GR	A3AAG-2006G-ND	4.13	33.65
	Gold	18 (45.72)	MC	A3AAG-2018M-ND	5.32	43.35
	Gold	18 (45.72)	GR	A3AAG-2018G-ND	4.37	35.60
	Gold	36 (91.44)	MC	A3AAG-2036M-ND	6.63	54.03
	Gold	36 (91.44)	GR	A3AAG-2036G-ND	4.73	38.52
24	Gold	6 (15.24)	MC	A3AAG-2406M-ND	5.13	41.73
	Gold	6 (15.24)	GR	A3AAG-2406G-ND	4.75	38.68
	Gold	18 (45.72)	MC	A3AAG-2418M-ND	6.17	50.27
	Gold	18 (45.72)	GR	A3AAG-2418G-ND	5.05	41.11
	Gold	36 (91.44)	MC	A3AAG-2436M-ND	7.75	63.08
	Gold	36 (91.44)	GR	A3AAG-2436G-ND	5.50	44.76
26	Gold	6 (15.24)	MC	A3AAG-2606M-ND	5.38	43.82
	Gold	6 (15.24)	GR	A3AAG-2606G-ND	5.02	40.86
	Gold	18 (45.72)	MC	A3AAG-2618M-ND	6.48	52.79
	Gold	18 (45.72)	GR	A3AAG-2618G-ND	5.39	43.90
	Gold	36 (91.44)	MC	A3AAG-2636M-ND	8.13	66.24
	Gold	36 (91.44)	GR	A3AAG-2636G-ND	5.95	48.46
30	Gold	6 (15.24)	MC	A3AAG-3006M-ND	6.45	52.54
	Gold	6 (15.24)	GR	A3AAG-3006G-ND	6.09	49.57
	Gold	18 (45.72)	MC	A3AAG-3018M-ND	7.55	61.51
	Gold	18 (45.72)	GR	A3AAG-3018G-ND	6.46	52.61
	Gold	36 (91.44)	MC	A3AAG-3036M-ND	9.21	74.96
	Gold	36 (91.44)	GR	A3AAG-3036G-ND	7.02	57.17
34	Gold	6 (15.24)	MC	A3AAG-3406M-ND	5.87	47.83
	Gold	6 (15.24)	GR	A3AAG-3406G-ND	5.37	43.70
	Gold	18 (15.24)	MC	A3AAG-3418M-ND	7.36	59.92
	Gold	18 (45.72)	GR	A3AAG-3418G-ND	5.84	47.51
	Gold	36 (91.44)	MC	A3AAG-3436M-ND	9.59	78.06
	Gold	36 (91.44)	GR	A3AAG-3436G-ND	6.54	53.24
40	Gold	6 (15.24)	MC	A3AAG-4006M-ND	6.53	53.19
	Gold	6 (15.24)	GR	A3AAG-4006G-ND	5.94	48.35
	Gold	18 (45.72)	MC	A3AAG-4018M-ND	8.27	67.34
	Gold	18 (45.72)	GR	A3AAG-4018G-ND	6.49	52.82
	Gold	36 (91.44)	MC	A3AAG-4036M-ND	10.88	88.57
	Gold	36 (91.44)	GR	A3AAG-4036G-ND	7.31	59.53
50	Gold	6 (15.24)	MC	A3AAG-5006M-ND	9.37	76.32
	Gold	6 (15.24)	GR	A3AAG-5006G-ND	8.62	70.23
	Gold	18 (45.72)	MC	A3AAG-5018M-ND	11.56	94.10
	Gold	18 (45.72)	GR	A3AAG-5018G-ND	9.31	75.81
	Gold	36 (91.44)	MC	A3AAG-5036M-ND	14.83	120.76
	Gold	36 (91.44)	GR	A3AAG-5036G-ND	10.34	84.19
64	Gold	6 (15.24)	MC	A3AAG-6406M-ND	11.04	89.92
	Gold	6 (15.24)	GR	A3AAG-6406G-ND	11.79	96.02
	Gold	18 (45.72)	MC	A3AAG-6418M-ND	13.66	111.25
	Gold	18 (45.72)	GR	A3AAG-6418G-ND	13.96	113.69
	Gold	36 (91.44)	MC	A3AAG-6436M-ND	17.59	143.26
	Gold	36 (91.44)	GR	A3AAG-6436G-ND	17.25	140.48

Also available in the following versions:

A3BBG-□□□□□-ND — Socket Connector with Strain Relief.

A3DDG-□□□□□-ND — Socket Connector with Strain Relief and Central Polarizing Key.

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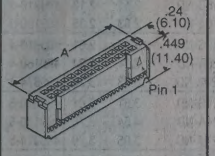
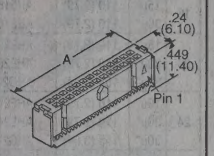
CW INDUSTRIES

Socket Connectors

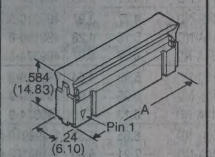
Socket Connector



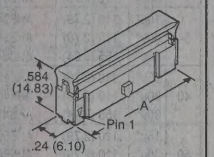
Socket Connector with Central Polarizing Key



Socket Connector with Strain Relief



Socket Connector with Strain Relief and Central Polarizing Key

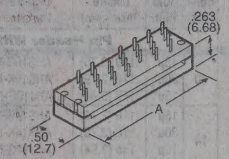


• **Contacts:** Phosphor bronze • **Contact Plating:** Gold – 10µ in. gold (in mating area) over 50µ in. nickel. Tin – 100µ in. tin-lead • **Insulator Material:** UL 94V-0 flame-retardant thermoplastic • **Strain Relief Strap Material:** Insulated stainless steel • **Color:** Blue • **Operating Temperature:** -55°C ~ +125°C • **Current Rating:** 1A (maximum) per contact • **Dielectric Withstand Voltage:** Greater than 500 Vdc at sea level • **Insulation Resistance:** Greater than $5x10^9$ Ω • Withdrawal force 56.70g – 226.79g/contact, typical. • Cover pull-off force 226.79g/contact, minimum (force along contacts' primary axis)

No. of Cont.	Cont. Finish	Dim. A Inch (mm)	Digi-Key Part No.	Price Each 1	10	100
Socket Connector						
10	Gold	.677 (17.20)	CSC10G-ND	1.12	.85	.65
	Tin	.677 (17.20)	CSC10T-ND	.95	.72	.56
14	Gold	.877 (22.28)	CSC14G-ND	1.58	1.20	.92
	Tin	.877 (22.28)	CSC14T-ND	1.34	1.02	.79
16	Gold	.977 (24.82)	CSC16G-ND	1.83	1.39	1.07
	Tin	.977 (24.82)	CSC16T-ND	1.55	1.18	.91
20	Gold	1.177 (29.90)	CSC20G-ND	1.92	1.46	1.12
	Tin	1.177 (29.90)	CSC20T-ND	1.63	1.24	.95
26	Gold	1.477 (37.52)	CSC26G-ND	2.29	1.74	1.34
	Tin	1.477 (37.52)	CSC26T-ND	1.95	1.48	1.14
34	Gold	1.877 (47.68)	CSC34G-ND	2.82	2.14	1.64
	Tin	1.877 (47.68)	CSC34T-ND	2.40	1.82	1.40
40	Gold	2.177 (55.30)	CSC40G-ND	3.10	2.35	1.80
	Tin	2.177 (55.30)	CSC40T-ND	2.64	2.00	1.53
50	Gold	2.677 (68.00)	CSC50G-ND	3.72	2.82	2.16
	Tin	2.677 (68.00)	CSC50T-ND	3.16	2.40	1.84
60	Gold	3.177 (80.70)	CSC60G-ND	4.53	3.44	2.63
	Tin	3.177 (80.70)	CSC60T-ND	3.85	2.92	2.24
Socket Connector With Strain Relief						
10	Gold	.677 (17.20)	CSR10G-ND	1.36	1.04	.80
	Tin	.677 (17.20)	CSR10T-ND	1.16	.88	.68
14	Gold	.877 (22.28)	CSR14G-ND	1.83	1.39	1.07
	Tin	.877 (22.28)	CSR14T-ND	1.55	1.18	.91
16	Gold	.977 (24.82)	CSR16G-ND	2.05	1.56	1.19
	Tin	.977 (24.82)	CSR16T-ND	1.74	1.32	1.01
20	Gold	1.177 (29.90)	CSR20G-ND	2.14	1.63	1.25
	Tin	1.177 (29.90)	CSR20T-ND	1.82	1.38	1.06
26	Gold	1.477 (37.52)	CSR26G-ND	2.48	1.88	1.44
	Tin	1.477 (37.52)	CSR26T-ND	2.11	1.60	1.23
34	Gold	1.877 (47.68)	CSR34G-ND	3.04	2.31	1.77
	Tin	1.877 (47.68)	CSR34T-ND	2.58	1.96	1.50
40	Gold	2.177 (55.30)	CSR40G-ND	3.29	2.50	1.91
	Tin	2.177 (55.30)	CSR40T-ND	2.79	2.12	1.63
50	Gold	2.677 (68.00)	CSR50G-ND	3.94	2.99	2.29
	Tin	2.677 (68.00)	CSR50T-ND	3.35	2.54	1.95
60	Gold	3.177 (80.70)	CSR60G-ND	4.77	3.62	2.78
	Tin	3.177 (80.70)	CSR60T-ND	4.06	3.08	2.36
Socket Connector With Polarizing Key						
10	Gold	.677 (17.20)	CKC10G-ND	1.12	.85	.65
	Tin	.677 (17.20)	CKC10T-ND	.95	.72	.56
14	Gold	.877 (22.28)	CKC14G-ND	1.58	1.20	.92
	Tin	.877 (22.28)	CKC14T-ND	1.34	1.02	.79
16	Gold	.977 (24.82)	CKC16G-ND	1.83	1.39	1.07
	Tin	.977 (24.82)	CKC16T-ND	1.55	1.18	.91
20	Gold	1.177 (29.90)	CKC20G-ND	1.92	1.46	1.12
	Tin	1.177 (29.90)	CKC20T-ND	1.63	1.24	.95
26	Gold	1.477 (37.52)	CKC26G-ND	2.29	1.74	1.34
	Tin	1.477 (37.52)	CKC26T-ND	1.95	1.48	1.14
Socket Connector with Polarizing Key (Cont.)						
34	Gold	1.877 (47.68)	CKC34G-ND	2.82	2.14	1.64
	Tin	1.877 (47.68)	CKC34T-ND	2.40	1.82	1.40
40	Gold	2.177 (55.30)	CKC40G-ND	3.10	2.35	1.80
	Tin	2.177 (55.30)	CKC40T-ND	2.64	2.00	1.53
50	Gold	2.677 (68.00)	CKC50G-ND	3.72	2.82	2.16
	Tin	2.677 (68.00)	CKC50T-ND	3.16	2.40	1.84
60	Gold	3.177 (80.70)	CKC60G-ND	4.53	3.44	2.63
	Tin	3.177 (80.70)	CKC60T-ND	3.85	2.92	2.24
Socket Connector w/Polarizing Key and Strain Relief						
10	Gold	.677 (17.20)	CKR10G-ND	1.36	1.04	.80
	Tin	.677 (17.20)	CKR10T-ND	1.16	.88	.68
14	Gold	.877 (22.28)	CKR14G-ND	1.83	1.39	1.07
	Tin	.877 (22.28)	CKR14T-ND	1.55	1.18	.91
16	Gold	.977 (24.82)	CKR16G-ND	2.05	1.56	1.19
	Tin	.977 (24.82)	CKR16T-ND	1.74	1.32	1.01
20	Gold	1.177 (29.90)	CKR20G-ND	2.14	1.63	1.25
	Tin	1.177 (29.90)	CKR20T-ND	1.82	1.38	1.06
26	Gold	1.477 (37.52)	CKR26G-ND	2.48	1.88	1.44
	Tin	1.477 (37.52)	CKR26T-ND	2.11	1.60	1.23
34	Gold	1.877 (47.68)	CKR34G-ND	3.04	2.31	1.77
	Tin	1.877 (47.68)	CKR34T-ND	2.58	1.96	1.50
40	Gold	2.177 (55.30)	CKR40G-ND	3.29	2.50	1.91
	Tin	2.177 (55.30)	CKR40T-ND	2.79	2.12	1.63
50	Gold	2.677 (68.00)	CKR50G-ND	3.94	2.99	2.29
	Tin	2.677 (68.00)	CKR50T-ND	3.35	2.54	1.95
60	Gold	3.177 (80.70)	CKR60G-ND	4.77	3.62	2.78
	Tin	3.177 (80.70)	CKR60T-ND	4.06	3.08	2.36
Polarizing Key			PK-1-ND	.22/2	.86/10	6.30/100

PCB Connectors

• **Contacts:** Phosphor bronze • **Contact Plating:** Tin – 100µ in tin-lead • **Insulator Material:** UL 94V-0 flame-retardant thermoplastic • **Color:** Blue • **Op Temperature:** -55°C ~ +125°C • **Current Rating:** 1A (max.) per contact • **Dielectric Withstand Voltage:** Greater than 500 VDC at sea level • **Insulation Resistance:** Greater than 5 x 10^9 Ω. Cover pull-off force, without strain relief, 5.60kg. min. (force along contacts' primary axis)

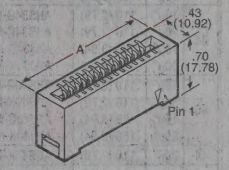


No. of Cont.	Cont. Finish	Dim. A Inch (mm)	Digi-Key Part No.	Price Each 1	10	100
PCB Connectors						
10	Tin	.700 (17.78)	CPC10T-ND	1.24	.94	.72
•20	Tin	1.200 (30.48)	CPC20T-ND	1.46	1.11	.85
26	Tin	1.500 (38.10)	CPC26T-ND	1.86	1.41	1.08
34	Tin	1.900 (48.26)	CPC34T-ND	2.26	1.72	1.32
•40	Tin	2.200 (55.88)	CPC40T-ND	2.60	1.98	1.52
50	Tin	2.700 (68.58)	CPC50T-ND	3.22	2.45	1.88
•60	Tin	3.200 (81.28)	CPC60T-ND	3.72	2.82	2.16

• Full row version. ("Special Center" version shown above).

Card Edge Connectors

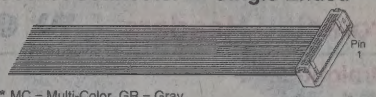
• **Contacts:** Phosphor bronze • **Contact Plating:** Gold – 10µ in. gold (in mating area) over 50µ in. nickel. Tin – 100µ in. tin-lead • **Insulator Material:** UL 94V-0 flame-retardant thermoplastic • **Color:** Blue • **Op Temperature:** -55°C ~ +125°C • **Current Rating:** 1 A (max.) per contact • **Dielectric Withstand Voltage:** Greater than 500 Vdc at sea level • **Insulation Resistance:** Greater than $5x10^9$ Ω • Cover pull-off force 226.79g./contact min. (force along contacts' primary axis)



No. of Cont.	Contact Finish	Dim. A Inch (mm)	Digi-Key Part No.	Price Each 1	10	100
Card Edge Connectors						
10	Gold	.976 (24.79)	CCE10G-ND	2.42	1.84	1.41
10	Tin	.976 (24.79)	CCE10T-ND	2.05	1.56	1.19
20	Gold	1.476 (37.49)	CCE20G-ND	3.22	2.45	1.88
20	Tin	1.476 (37.49)	CCE20T-ND	2.73	2.07	1.59
26	Gold	1.776 (45.11)	CCE26G-ND	3.88	2.94	2.25
26	Tin	1.776 (45.11)	CCE26T-ND	3.29	2.50	1.91
34	Gold	2.176 (55.27)	CCE34G-ND	4.81	3.65	2.79
34	Tin	2.176 (55.27)	CCE34T-ND	4.09	3.11	2.38
40	Gold	2.476 (62.89)	CCE40G-ND	5.61	4.26	3.26
40	Tin	2.476 (62.89)	CCE40T-ND	4.77	3.62	2.78
50	Gold	2.976 (75.59)	CCE50G-ND	6.32	4.80	3.68
50	Tin	2.976 (75.59)	CCE50T-ND	5.36	4.07	3.12
Polarizing Key			PK-2-ND	.22/2	.86/10	6.30/100

Termination Jumpers

Socket Connector — Single Ended



* MC = Multi-Color, GR = Gray
Socket connector without strain relief shown.

No. of Contacts	Conn. Finish	Length Inch (cm)	Ribbon* Cable	Digi-Key Part No.	Price Each 1	10
10	Gold	36 (91.44)	MC	C1AXG-1036M-ND	1.84	1.40
	Tin	36 (91.44)	MC	C1AXT-1036M-ND	1.67	1.27
	Gold	36 (91.44)	GR	C1AXG-1036G-ND	1.61	1.23
	Tin	36 (91.44)	GR	C1AXT-1036G-ND	1.45	1.10
14	Gold	36 (91.44)	MC	C1AXG-1436M-ND	2.60	1.97
	Tin	36 (91.44)	MC	C1AXT-1436M-ND	2.36	1.80
	Gold	36 (91.44)	GR	C1AXG-1436G-ND	2.29	1.74
	Tin	36 (91.44)	GR	C1AXT-1436G-ND	2.05	1.56
16	Gold	36 (91.44)	MC	C1AXG-1636M-ND	2.99	2.27
	Tin	36 (91.44)	MC	C1AXT-1636M-ND	2.72	2.06
	Gold	36 (91.44)	GR	C1AXG-1636G-ND	2.63	2.00
	Tin	36 (91.44)	GR	C1AXT-1636G-ND	2.35	1.79
20	Gold	36 (91.44)	MC	C1AXG-2036M-ND	3.38	2.56
	Tin	36 (91.44)	MC	C1AXT-2036M-ND	3.09	2.35
	Gold	36 (91.44)	GR	C1AXG-2036G-ND	2.93	2.22
	Tin	36 (91.44)	GR	C1AXT-2036G-ND	2.64	2.00
26	Gold	36 (91.44)	MC	C1AXG-2636M-ND	4.18	3.18
	Tin	36 (91.44)	MC	C1AXT-2636M-ND	3.84	2.92
	Gold	36 (91.44)	GR	C1AXG-2636G-ND	3.61	2.74
	Tin	36 (91.44)	GR	C1AXT-2636G-ND	3.26	2.48
34	Gold	36 (91.44)	MC	C1AXG-3436M-ND	5.29	4.01
	Tin	36 (91.44)	MC	C1AXT-3436M-ND	4.86	3.69
	Gold	36 (91.44)	GR	C1AXG-3436G-ND	4.53	3.44
	Tin	36 (91.44)	GR	C1AXT-3436G-ND	4.11	3.12
40	Gold	36 (91.44)	MC	C1AXG-4036M-ND	6.01	4.56
	Tin	36 (91.44)	MC	C1AXT-4036M-ND	5.55	4.21
	Gold	36 (91.44)	GR	C1AXG-4036G-ND	5.11	3.88
	Tin	36 (91.44)	GR	C1AXT-4036G-ND	4.65	3.53
50	Gold	36 (91.44)	MC	C1AXG-5036M-ND	7.36	5.58
	Tin	36 (91.44)	MC	C1AXT-5036M-ND	6.80	5.16
	Gold	36 (91.44)	GR	C1AXG-5036G-ND	6.23	4.73
	Tin	36 (91.44)	GR	C1AXT-5036G-ND	5.67	4.31
60	Gold	36 (91.44)	MC	C1AXG-6036M-ND	8.87	6.73
	Tin	36 (91.44)	MC	C1AXT-6036M-ND	8.19	6.22
	Gold	36 (91.44)	GR	C1AXG-6036G-ND	7.53	5.71
	Tin	36 (91.44)	GR	C1AXT-6036G-ND	6.85	5.20

Also available in the following versions:
C1BX□-□□□□□-ND – Socket Connector with Strain Relief
C1CX□-□□□□□-ND – Socket Connector with Central Polarizing Key
C1DX□-□□□□□-ND – Socket Connector w. Strain Relief & Central Polarizing Key
Call for complete part number and pricing!

PCB Connector – Single Ended

* MC = Multi-Color, GR = Gray PCB connector without strain relief.

No. of Contacts	Conn. Finish	Length Inch (cm)	Ribbon* Cable	Digi-Key Part No.	Price Each 1	10
10	Tin	36 (91.44)	MC	C1PXT-1036M-ND	1.97	1.49
	Tin	36 (91.44)	GR	C1PXT-1036G-ND	1.74	1.32
20	Tin	36 (91.44)	MC	C1PXT-2036M-ND	2.91	2.21
	Tin	36 (91.44)	GR	C1PXT-2036G-ND	2.46	1.87
26	Tin	36 (91.44)	MC	C1PXT-2636M-ND	3.75	2.85
	Tin	36 (91.44)	GR	C1PXT-2636G-ND	3.17	2.41
34	Tin	36 (91.44)	MC	C1PXT-3436M-ND	4.73	3.59
	Tin	36 (91.44)	GR	C1PXT-3436G-ND	3.97	3.02
40	Tin	36 (91.44)	MC	C1PXT-4036M-ND	5.51	4.19
	Tin	36 (91.44)	GR	C1PXT-4036G-ND	4.62	3.50
50	Tin	36 (91.44)	MC	C1PXT-5036M-ND	6.86	5.21
	Tin	36 (91.44)	GR	C1PXT-5036G-ND	5.74	4.35
60	Tin	36 (91.44)	MC	C1PXT-6036M-ND	5.59	4.24
	Tin	36 (91.44)	GR	C1PXT-6036G-ND	4.25	3.22

C□□□□-□□□□□-ND
- Style
- Conn. Finish G=Gold T=Tin
- Ribbon Cable M=Multi-color G=Gray
- Length *(Use "Inches" only.)*
- No. Of Contacts

Digi-Key® Custom Cable Assemblies Available

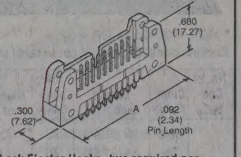
Call Digi-Key

CW INDUSTRIES

Protected Headers

Straight-Lead

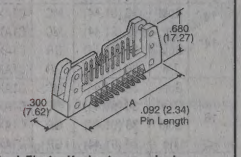
No. of Pins	Dim. A In. (mm)
10	1.26 (32.00)
14	1.46 (37.08)
16	1.56 (39.62)
20	1.76 (44.70)
26	2.06 (52.32)
34	2.46 (62.48)
40	2.76 (70.10)
50	3.26 (82.80)
60	3.76 (95.50)



Lock Ejector Hooks, two required per connector, sold separately (see below).

Right-Angle

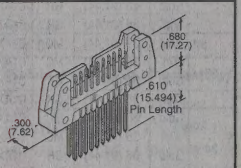
No. of Pins	Dim. A In. (mm)
10	1.26 (32.00)
14	1.46 (37.08)
16	1.56 (39.62)
20	1.76 (44.70)
26	2.06 (52.32)
34	2.46 (62.48)
40	2.76 (70.10)
50	3.26 (82.80)
60	3.76 (95.50)



Lock Ejector Hooks, two required per connector, sold separately (see below).

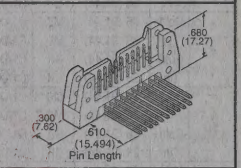
Straight-Lead Wire Wrap

Lock Ejector Hooks, two required per connector, sold separately (see below)



Right-Angle Wire Wrap

Lock Ejector Hooks, two required per connector, sold separately (see below)



SPECIFICATIONS: • **Contacts:** phosphor bronze, standard. • **Contact Plating:** 10µ in. gold (in mating area) over 50µ in. nickel. • **Insulator Material:** UL 94V-0 flame-retardant thermoplastic. • **Color:** blue. • **Operating Temperature:** -55°C to 125°C. • **Current Rating:** 1A (maximum) per contact. • **Dielectric Withstand Voltage:** greater than 500 Vdc at sea level. • **Insulation Resistance:** greater than 5 x 10^9 ohms. • U.S. Defense Department Mil-C-83503/20, 21, approved.

No. of Contacts	Description	Digi-Key Part No.	Price Each 1	10	100	1,000
Protected Headers - Gold Finish						
10	Straight-Lead	CHS10G-ND	.99	.76	.58	.42
	Right-Angle	CHR10G-ND	.99	.76	.58	.42
	Straight-Lead WW	CHW10G-ND	2.08	1.58	1.21	.88
	Right-Angle WW	CHA10G-ND	2.08	1.58	1.21	.88
14	Straight-Lead	CHS14G-ND	1.30	.99	.76	.55
	Right-Angle	CHR14G-ND	1.30	.99	.76	.55
	Straight-Lead WW	CHW14G-ND	2.64	2.00	1.53	1.11
	Right-Angle WW	CHA14G-ND	2.64	2.00	1.53	1.11
16	Straight-Lead	CHS16G-ND	1.46	1.11	.85	.62
	Right-Angle	CHR16G-ND	1.46	1.11	.85	.62
	Straight-Lead WW	CHW16G-ND	2.98	2.26	1.73	1.25
	Right-Angle WW	CHA16G-ND	2.98	2.26	1.73	1.25
20	Straight-Lead	CHS20G-ND	1.52	1.16	.89	.64
	Right-Angle	CHR20G-ND	1.52	1.16	.89	.64
	Straight-Lead WW	CHW20G-ND	3.10	2.35	1.80	1.30
	Right-Angle WW	CHA20G-ND	3.10	2.35	1.80	1.30
26	Straight-Lead	CHS26G-ND	1.86	1.41	1.08	.78
	Right-Angle	CHR26G-ND	1.86	1.41	1.08	.78
	Straight-Lead WW	CHW26G-ND	3.72	2.82	2.16	1.56
	Right-Angle WW	CHA26G-ND	3.72	2.82	2.16	1.56
34	Straight-Lead	CHS34G-ND	2.23	1.70	1.30	.94
	Right-Angle	CHR34G-ND	2.23	1.70	1.30	.94
	Straight-Lead WW	CHW34G-ND	4.46	3.39	2.60	1.88
	Right-Angle WW	CHA34G-ND	4.46	3.39	2.60	1.88
40	Straight-Lead	CHS40G-ND	2.73	2.07	1.59	1.15
	Right-Angle	CHR40G-ND	2.73	2.07	1.59	1.15
	Straight-Lead WW	CHW40G-ND	5.43	4.12	3.15	2.28
	Right-Angle WW	CHA40G-ND	5.43	4.12	3.15	2.28
50	Straight-Lead	CHS50G-ND	3.04	2.31	1.77	1.28
	Right-Angle	CHR50G-ND	3.04	2.31	1.77	1.28
	Straight-Lead WW	CHW50G-ND	6.11	4.63	3.55	2.57
	Right-Angle WW	CHA50G-ND	6.11	4.63	3.55	2.57
60	Straight-Lead ST* (Shrouded)	CHB60G-ND	5.08	3.86	2.96	2.14
	Straight-Lead WW* (Shrouded)	CHC60G-ND	5.08	3.86	2.96	2.14
	Right-Angle ST* (Shrouded)	CHD60G-ND	3.72	2.82	2.16	1.56
	Right-Angle WW* (Shrouded)	CHE60G-ND	5.08	3.86	2.96	2.14
CLKS01-ND	Lock Ejector Hooks-Short (2 required per connector)					**$.22/2**
CLKS02-ND	Lock Ejector Hooks: Long - with strain relief, (2 required per connector)					**$.22/2**

* Lock ejector hooks included.

tyco Electronics AMP

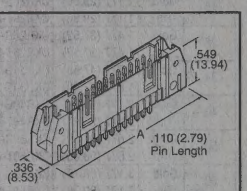
Protected Headers

Specifications:

- Connectors recognized under component program of Underwriters Laboratories Inc. File No. E28476.
- Connectors certified by Canadian Standards Association File No. LR16455.
- .025" (.64mm) Sq. Posts, .240" (6.10mm) Mating Post Length.
- Material and Finish: Housing and Latches — Black thermoplastic, 94V-0 rated.
- Contact Finish: 15µ or 30µ gold on post/pin mating end, .000100-.000200 bright tin-lead on termination end, with entire contact underplated .000050 nickel.

Straight-Lead

No. of Pins	Dim. A In. (mm)
10	1.26 (32.00)
14	1.46 (37.08)
16	1.56 (39.62)
20	1.76 (44.70)
24	1.96 (49.78)
26	2.06 (52.32)
30	2.26 (57.40)
34	2.46 (62.48)
40	2.76 (70.10)
44	2.96 (75.18)
50	3.26 (82.80)
60	3.76 (95.50)
64	3.96 (100.58)



Lock Ejector Hooks, two required per connector, sold separately (see below).

No. of Contacts	Cont. Gold Plat.	Post Length Inch (mm)	Digi-Key Part No.	Price Each 1	10	AMP Part No.
Pin Header Without Latches						
10	15µ"	.110 (2.79)	AHS10G-ND	1.06	.89	102153-1
	30µ"	.110 (2.79)	AHS10K-ND	1.16	.97	102154-1
	15µ"	.155 (3.94)	AHJ10G-ND	1.19	.99	102155-1
14	15µ"	.110 (2.79)	AHS14G-ND	1.40	1.17	102153-2
	30µ"	.110 (2.79)	AHS14K-ND	1.54	1.28	102154-2
	15µ"	.155 (3.94)	AHJ14G-ND	1.72	1.43	102155-2
	30µ"	.155 (3.94)	AHJ14K-ND	1.69	1.41	102156-2
16	15µ"	.110 (2.79)	AHS16G-ND	1.59	1.33	102153-3
	30µ"	.110 (2.79)	AHS16K-ND	1.83	1.53	102154-3
	15µ"	.155 (3.94)	AHJ16G-ND	1.88	1.57	102155-3
	30µ"	.155 (3.94)	AHJ16K-ND	2.33	1.94	102156-3
20	15µ"	.110 (2.79)	AHS20G-ND	1.97	1.65	102153-4
	30µ"	.110 (2.79)	AHS20K-ND	2.17	1.81	102154-4
	15µ"	.155 (3.94)	AHJ20G-ND	2.49	2.08	102155-4
	30µ"	.155 (3.94)	AHJ20K-ND	4.78	3.98	102156-4
24	15µ"	.110 (2.79)	AHS24G-ND	2.38	1.98	102153-5
	30µ"	.110 (2.79)	AHS24K-ND	2.55	2.13	102154-5
	15µ"	.155 (3.94)	AHJ24G-ND	2.55	2.13	102155-5
	30µ"	.155 (3.94)	AHJ24K-ND	2.79	2.33	102156-5
26	15µ"	.110 (2.79)	AHS26G-ND	2.50	2.09	102153-6
	30µ"	.110 (2.79)	AHS26K-ND	2.65	2.21	102154-6
	15µ"	.155 (3.94)	AHJ26G-ND	3.14	2.61	102155-6
	30µ"	.155 (3.94)	AHJ26K-ND	2.89	2.41	102156-6
30	15µ"	.110 (2.79)	AHS30G-ND	4.75	3.95	102153-7
	30µ"	.110 (2.79)	AHS30K-ND	3.07	2.56	102154-7
	15µ"	.155 (3.94)	AHJ30G-ND	2.98	2.49	102155-7
34	15µ"	.110 (2.79)	AHS34G-ND	3.18	2.65	102153-8
	30µ"	.110 (2.79)	AHS34K-ND	3.27	2.73	102154-8
	15µ"	.155 (3.94)	AHJ34G-ND	3.37	2.81	102155-8
	30µ"	.155 (3.94)	AHJ34K-ND	3.47	2.89	102156-8
40	15µ"	.110 (2.79)	AHS40G-ND	3.66	3.05	102153-9
	30µ"	.110 (2.79)	AHS40K-ND	3.76	3.13	102154-9
	15µ"	.155 (3.94)	AHJ40G-ND	4.45	3.70	102155-9
	30µ"	.155 (3.94)	AHJ40K-ND	4.00	3.33	102156-9
44	30µ"	.110 (2.79)	AHS44K-ND	4.54	3.78	1-102154-3
50	15µ"	.110 (2.79)	AHS50G-ND	4.33	3.61	1-102153-0
	30µ"	.110 (2.79)	AHS50K-ND	4.43	3.69	1-102154-0
	15µ"	.155 (3.94)	AHJ50G-ND	5.20	4.32	1-102155-0
	30µ"	.155 (3.94)	AHJ50K-ND	4.83	4.02	1-102156-0
60	30µ"	.110 (2.79)	AHS60K-ND	5.25	4.37	1-102154-1
	15µ"	.155 (3.94)	AHJ60G-ND	5.92	4.92	1-102155-1
	30µ"	.155 (3.94)	AHJ60K-ND	6.37	5.30	1-102156-1
64	15µ"	.110 (2.79)	AHS64G-ND	5.32	4.43	1-102153-2
	30µ"	.110 (2.79)	AHS64K-ND	5.36	4.46	1-102154-2
	15µ"	.155 (3.94)	AHJ64G-ND	5.43	4.52	1-102155-2
	30µ"	.155 (3.94)	AHJ64K-ND	5.53	4.60	1-102156-2
Pin Header With ACTION PIN Contacts						
10	30µ"	.174 (4.42)	AHA10A-ND	1.83	1.53	499582-1
14	30µ"	.174 (4.42)	AHA14A-ND	2.50	2.09	499582-2
16	30µ"	.174 (4.42)	AHA16A-ND	2.79	2.33	499582-3
20	30µ"	.174 (4.42)	AHA20A-ND	3.27	2.73	499582-4
24	30µ"	.174 (4.42)	AHA24A-ND	3.95	3.29	499582-5
26	30µ"	.174 (4.42)	AHA26A-ND	4.14	3.45	499582-6
30	30µ"	.174 (4.42)	AHA30A-ND	4.67	3.89	499582-7
34	30µ"	.174 (4.42)	AHA34A-ND	5.11	4.25	499582-8
40	30µ"	.174 (4.42)	AHA40A-ND	5.64	4.69	499582-9
50	30µ"	.174 (4.42)	AHA50A-ND	6.27	5.21	1-499582-0
60	30µ"	.174 (4.42)	AHA60A-ND	6.93	5.77	1-499582-1
64	30µ"	.174 (4.42)	AHA64A-ND	8.54	7.10	1-499582-2

No. of Contacts	Cont. Gold Plat.	Post Length Inch (mm)	Digi-Key Part No.	Price Each 1	10	AMP Part No.
Pin Header With Latches - Without Strain Relief						
10	15µ"	.110 (2.79)	AHE10G-ND	1.69	1.41	499910-1
	30µ"	.110 (2.79)	AHE10A-ND	1.78	1.49	499160-1
	30µ"	.155 (3.94)	AHG10A-ND	2.11	1.76	499374-1
14	15µ"	.110 (2.79)	AHE14G-ND	2.31	1.93	499910-2
	30µ"	.155 (3.94)	AHG14A-ND	4.64	3.86	499374-2
16	15µ"	.110 (2.79)	AHE16G-ND	2.55	2.13	499910-3
	30µ"	.110 (2.79)	AHE16A-ND	2.83	2.35	499160-3
20	15µ"	.110 (2.79)	AHE20G-ND	3.13	2.61	499910-4
	30µ"	.110 (2.79)	AHE20A-ND	7.14	5.94	499160-4
	30µ"	.155 (3.94)	AHG20A-ND	3.93	3.28	499374-4
24	15µ"	.110 (2.79)	AHE24G-ND	3.61	3.01	499910-5
	30µ"	.110 (2.79)	AHE24A-ND	4.54	3.78	499160-5
	30µ"	.155 (3.94)	AHG24A-ND	3.95	3.29	499374-5
26	15µ"	.110 (2.79)	AHE26G-ND	3.85	3.21	499910-6
	30µ"	.110 (2.79)	AHE26A-ND	4.14	3.45	499160-6
	30µ"	.155 (3.94)	AHG26A-ND	4.90	4.08	499374-6
30	15µ"	.110 (2.79)	AHE30G-ND	8.19	6.81	499910-7
	30µ"	.110 (2.79)	AHE30A-ND	4.67	3.89	499160-7
34	15µ"	.110 (2.79)	AHE34G-ND	4.77	3.97	499910-8
	30µ"	.110 (2.79)	AHE34A-ND	5.15	4.28	499160-8
	30µ"	.155 (3.94)	AHG34A-ND	6.09	5.07	499374-8
40	15µ"	.110 (2.79)	AHE40G-ND	5.46	4.54	499910-9
	30µ"	.110 (2.79)	AHE40A-ND	5.95	4.95	499160-9
	30µ"	.155 (3.94)	AHG40A-ND	6.13	5.10	499374-9
50	15µ"	.110 (2.79)	AHE50G-ND	6.65	5.53	1-499910-0
	30µ"	.110 (2.79)	AHE50A-ND	7.21	6.00	1-499160-0
	30µ"	.155 (3.94)	AHG50A-ND	7.21	6.00	1-499374-0
60	30µ"	.110 (2.79)	AHE60A-ND	8.47	7.05	1-499160-1
	30µ"	.155 (3.94)	AHG60A-ND	8.47	7.05	1-499374-1
64	15µ"	.110 (2.79)	AHE64G-ND	9.28	7.72	1-499910-2
Pin Header With Latches - With Strain Relief						
10	15µ"	.110 (2.79)	AHK10G-ND	1.69	1.41	499922-1
	30µ"	.110 (2.79)	AHK10A-ND	1.69	1.41	499206-1
	15µ"	.155 (3.94)	AHL10G-ND	6.35	5.28	499923-1
	30µ"	.155 (3.94)	AHL10A-ND	1.83	1.53	102321-1
14	15µ"	.110 (2.79)	AHK14G-ND	2.31	1.93	499922-2
	30µ"	.110 (2.79)	AHK14A-ND	2.46	2.05	499206-2
	30µ"	.155 (3.94)	AHL14A-ND	2.91	2.42	102321-2
16	15µ"	.110 (2.79)	AHK16G-ND	2.55	2.13	499922-3
	30µ"	.110 (2.79)	AHK16A-ND	2.74	2.29	499206-3
	15µ"	.155 (3.94)	AHL16G-ND	2.52	2.10	499923-3
	30µ"	.155 (3.94)	AHL16A-ND	2.74	2.29	102321-3
20	15µ"	.110 (2.79)	AHK20G-ND	3.13	2.61	499922-4
	30µ"	.110 (2.79)	AHK20A-ND	3.32	2.77	499206-4
	15µ"	.155 (3.94)	AHL20G-ND	3.12	2.59	499923-4
	30µ"	.155 (3.94)	AHL20A-ND	3.32	2.77	102321-4
24	15µ"	.110 (2.79)	AHK24G-ND	3.61	3.01	499922-5
	30µ"	.110 (2.79)	AHK24A-ND	3.95	3.29	499206-5
	30µ"	.155 (3.94)	AHL24A-ND	4.54	3.78	102321-5
26	15µ"	.110 (2.79)	AHK26G-ND	3.85	3.21	499922-6
	30µ"	.110 (2.79)	AHK26A-ND	3.37	2.81	499206-6
	15µ"	.155 (3.94)	AHL26G-ND	4.59	3.82	499923-6
	30µ"	.155 (3.94)	AHL26A-ND	4.14	3.45	102321-6
30	30µ"	.110 (2.79)	AHK30A-ND	4.67	3.89	499206-7
	15µ"	.155 (3.94)	AHL30G-ND	4.31	3.58	499923-7
	30µ"	.155 (3.94)	AHL30A-ND	4.67	3.89	102321-7
34	15µ"	.110 (2.79)	AHK34G-ND	4.77	3.97	499922-8
	30µ"	.110 (2.79)	AHK34A-ND	5.15	4.28	499206-8
	15µ"	.155 (3.94)	AHL34G-ND	9.91	8.24	499923-8
	30µ"	.155 (3.94)	AHL34A-ND	5.15	4.28	102321-8
40	15µ"	.110 (2.79)	AHK40G-ND	5.46	4.54	499922-9
	30µ"	.110 (2.79)	AHK40A-ND	5.95	4.95	499206-9
	15µ"	.155 (3.94)	AHL40G-ND	5.50	4.57	499923-9
	30µ"	.155 (3.94)	AHL40A-ND	5.95	4.95	102321-9
50	15µ"	.110 (2.79)	AHK50G-ND	6.65	5.53	1-499922-0
	30µ"	.110 (2.79)	AHK50A-ND	6.23	5.18	1-499206-0
	15µ"	.155 (3.94)	AHL50G-ND	6.69	5.56	1-499923-0
	30µ"	.155 (3.94)	AHL50A-ND	7.21	6.00	1-102321-0
60	15µ"	.110 (2.79)	AHK60G-ND	7.81	6.49	1-499922-1
	30µ"	.110 (2.79)	AHK60A-ND	8.47	7.05	1-499206-1
	15µ"	.155 (3.94)	AHL60G-ND	9.21	7.66	1-499923-1
	30µ"	.155 (3.94)	AHL60A-ND	8.72	7.25	1-102321-1
64	15µ"	.110 (2.79)	AHK64G-ND	8.05	6.70	1-499922-2
	30µ"	.110 (2.79)	AHK64A-ND	8.79	7.31	1-499206-2
	15µ"	.155 (3.94)	AHL64G-ND	9.59	7.98	1-499923-2
	30µ"	.155 (3.94)	AHL64A-ND	8.79	7.31	1-102321-2
Lock Ejector Hooks (2 Required per Connector)						
Short			ALSN01-ND		.49/2	102312-1
Long w/o Push Tabs			ALLN01-ND		.51/2	102320-1
Pin Header Mounting Kit *						
Bolt and Nut, 2 each/kit			A26333-ND	1.64	—	102198-1

* 2-56 bolts and nuts may be used to mount pin headers with and w/out latches. If latches are to be used, the bolts must be positioned in the pin header before the latches are installed.

(Continued)

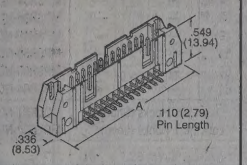
More Product Available Online: www.digikey.com
Toll-Free: 1-800-344-4539 • Phone: 218-681-6674 • Fax: 218-681-3380

tyco Electronics AMP

Protected Headers (Cont.)

Right-Angle

No. of Pins	Dim. A In. (mm)
10	1.26 (32.00)
14	1.46 (37.08)
16	1.56 (39.62)
20	1.76 (44.70)
24	1.96 (49.78)
26	2.06 (52.32)
30	2.26 (57.40)
34	2.46 (62.48)
40	2.76 (70.10)
50	3.26 (82.80)
60	3.76 (95.50)
64	3.96 (100.58)



Lock Ejector Hooks, two required per connector, sold separately.

No. of Contacts	Cont. Gold Plat.	Post Length Inch (mm)	Digi-Key Part No.	Price Each 1	Price Each 10	AMP Part No.
Right-Angle Pin Headers without Latches						
10	15µ"	.110 (2.79)	AHR10G-ND	1.16	.97	102159-1
	30µ"	.110 (2.79)	AHR10K-ND	1.35	1.13	102160-1
14	15µ"	.110 (2.79)	AHR14G-ND	1.49	1.25	102159-2
	15µ"	.155 (3.94)	AHZ14G-ND	4.73	3.93	102161-2
	30µ"	.155 (3.94)	AHZ14K-ND	1.93	1.61	102162-2
16	15µ"	.110 (2.79)	AHR16G-ND	1.83	1.53	102159-3
	30µ"	.110 (2.79)	AHR16K-ND	2.33	1.94	102160-3
	15µ"	.155 (3.94)	AHZ16G-ND	2.31	1.93	102161-3
20	15µ"	.110 (2.79)	AHR20G-ND	2.17	1.81	102159-4
	30µ"	.110 (2.79)	AHR20K-ND	2.41	2.01	102160-4
	15µ"	.155 (3.94)	AHZ20G-ND	2.93	2.44	102161-4
	30µ"	.155 (3.94)	AHZ20K-ND	2.55	2.13	102162-4
24	30µ"	.110 (2.79)	AHR24K-ND	2.79	2.33	102160-5
	15µ"	.155 (3.94)	AHZ24G-ND	3.32	2.77	102161-5
26	15µ"	.110 (2.79)	AHR26G-ND	2.65	2.21	102159-6
	30µ"	.110 (2.79)	AHR26K-ND	2.89	2.41	102160-6
	15µ"	.155 (3.94)	AHZ26G-ND	4.04	3.36	102161-6
30	15µ"	.110 (2.79)	AHR30G-ND	3.07	2.56	102159-7
	30µ"	.110 (2.79)	AHR30K-ND	3.65	3.04	102160-7
	15µ"	.155 (3.94)	AHZ30G-ND	3.95	3.29	102161-7
	30µ"	.155 (3.94)	AHZ30K-ND	4.16	3.47	102162-7
34	15µ"	.110 (2.79)	AHR34G-ND	3.27	2.73	102159-8
	30µ"	.110 (2.79)	AHR34K-ND	3.47	2.89	102160-8
	15µ"	.155 (3.94)	AHZ34G-ND	4.38	3.65	102161-8
	30µ"	.155 (3.94)	AHZ34K-ND	4.62	3.84	102162-8
40	15µ"	.110 (2.79)	AHR40G-ND	3.76	3.13	102159-9
	30µ"	.110 (2.79)	AHR40K-ND	4.00	3.33	102160-9
	30µ"	.155 (3.94)	AHZ40K-ND	5.09	4.24	102162-9
50	15µ"	.110 (2.79)	AHR50G-ND	4.43	3.69	1-102159-0
	30µ"	.110 (2.79)	AHR50K-ND	4.83	4.02	1-102160-0
	15µ"	.155 (3.94)	AHZ50G-ND	6.20	5.16	1-102161-0
	30µ"	.155 (3.94)	AHZ50K-ND	5.53	4.60	1-102162-0
60	15µ"	.110 (2.79)	AHR60G-ND	12.25	10.15	1-102159-1
	30µ"	.110 (2.79)	AHR60K-ND	5.53	4.60	1-102160-1
	15µ"	.155 (3.94)	AHZ60G-ND	7.21	6.00	1-102161-1
	30µ"	.155 (3.94)	AHZ60K-ND	7.42	6.17	1-102162-1
64	15µ"	.110 (2.79)	AHR64G-ND	10.92	9.08	1-102159-2
	30µ"	.110 (2.79)	AHR64K-ND	5.71	4.75	1-102160-2
	30µ"	.155 (3.94)	AHZ64K-ND	6.62	5.50	1-102162-2
Headers with Short Latches						
10	15µ"	.110 (2.79)	AHB10G-ND	1.78	1.49	499913-1
	30µ"	.110 (2.79)	AHB10K-ND	4.21	3.50	499345-1
14	15µ"	.110 (2.79)	AHB14G-ND	2.46	2.05	499913-2
16	15µ"	.110 (2.79)	AHB16G-ND	2.74	2.29	499913-3
	30µ"	.110 (2.79)	AHB16K-ND	2.98	2.49	499345-3
20	15µ"	.110 (2.79)	AHB20G-ND	3.32	2.77	499913-4
24	15µ"	.110 (2.79)	AHB24G-ND	4.07	3.39	499913-5
	30µ"	.110 (2.79)	AHB24K-ND	4.33	3.61	499345-5
26	15µ"	.110 (2.79)	AHB26G-ND	4.14	3.45	499913-6
	30µ"	.110 (2.79)	AHB26K-ND	4.57	3.81	499345-6
30	15µ"	.110 (2.79)	AHB30G-ND	5.53	4.60	499913-7
34	15µ"	.110 (2.79)	AHB34G-ND	5.25	4.37	499913-8
	30µ"	.110 (2.79)	AHB34K-ND	5.64	4.69	499345-8
40	15µ"	.110 (2.79)	AHB40G-ND	5.32	4.43	499913-9
	30µ"	.110 (2.79)	AHB40K-ND	6.51	5.42	499345-9
50	15µ"	.110 (2.79)	AHB50G-ND	7.21	6.00	1-499913-0
	30µ"	.110 (2.79)	AHB50K-ND	8.12	6.76	1-499345-0
60	15µ"	.110 (2.79)	AHB60G-ND	8.72	7.25	1-499913-1
	30µ"	.110 (2.79)	AHB60K-ND	10.68	8.88	1-499345-1
64	15µ"	.110 (2.79)	AHB64G-ND	10.08	8.39	1-499913-2
	30µ"	.110 (2.79)	AHB64K-ND	11.17	9.29	1-499345-2
Headers with Long Latches						
10	15µ"	.110 (2.79)	AHC10G-ND	1.78	1.49	499786-1
	30µ"	.110 (2.79)	AHC10K-ND	1.97	1.65	499141-1
	30µ"	.155 (3.94)	AHT10K-ND	2.17	1.81	102322-1
14	15µ"	.110 (2.79)	AHC14G-ND	2.46	2.05	499786-2
	30µ"	.110 (2.79)	AHC14K-ND	2.75	2.29	499141-2
	30µ"	.155 (3.94)	AHT14K-ND	3.43	2.86	102322-2
16	15µ"	.110 (2.79)	AHC16G-ND	2.74	2.29	499786-2
	30µ"	.110 (2.79)	AHC16K-ND	2.98	2.49	499141-3
	30µ"	.155 (3.94)	AHT16K-ND	6.50	5.41	102322-3
20	15µ"	.110 (2.79)	AHC20G-ND	3.32	2.77	499786-4
	30µ"	.110 (2.79)	AHC20K-ND	4.21	3.50	499141-4
	30µ"	.155 (3.94)	AHT20K-ND	4.04	3.37	102322-4
24	15µ"	.110 (2.79)	AHC24G-ND	4.68	3.89	499786-5
	30µ"	.110 (2.79)	AHC24K-ND	4.33	3.61	499141-5
26	15µ"	.110 (2.79)	AHC26G-ND	4.14	3.45	499786-6
	30µ"	.110 (2.79)	AHC26K-ND	4.57	3.81	499141-6
	30µ"	.155 (3.94)	AHT26K-ND	5.95	4.95	102322-6
30	15µ"	.110 (2.79)	AHC30G-ND	4.67	3.89	499786-7
	30µ"	.110 (2.79)	AHC30K-ND	10.54	8.76	499141-7
34	15µ"	.110 (2.79)	AHC34G-ND	5.15	4.28	499786-8
	30µ"	.110 (2.79)	AHC34K-ND	5.64	4.69	499141-8
	30µ"	.155 (3.94)	AHT34K-ND	10.22	8.50	102322-8
40	15µ"	.110 (2.79)	AHC40G-ND	5.95	4.95	499786-9
	30µ"	.110 (2.79)	AHC40K-ND	6.51	5.42	499141-9
	30µ"	.155 (3.94)	AHT40K-ND	8.30	6.90	102322-9
50	15µ"	.110 (2.79)	AHC50G-ND	7.46	6.20	1-499786-0
	30µ"	.110 (2.79)	AHC50K-ND	7.91	6.58	1-499141-0
	30µ"	.155 (3.94)	AHT50K-ND	8.79	7.31	1-102322-0
60	15µ"	.110 (2.79)	AHC60G-ND	12.50	10.39	1-499786-1
	30µ"	.110 (2.79)	AHC60K-ND	9.28	7.72	1-499141-1
64	15µ"	.110 (2.79)	AHC64G-ND	9.07	7.54	1-499786-2
	30µ"	.110 (2.79)	AHC64K-ND	22.12	18.40	1-499141-2
Lock Ejector Hooks (2 Required per Connector)						
Short			ALSN01-ND	.49/2		102312-1
Long w/o Push Tabs			ALLN01-ND	.51/2		102320-1

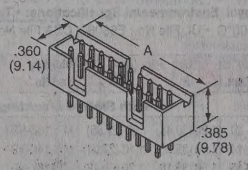
tyco Electronics AMP

Low Profile - 4 Sided Protective Headers - .100 x .100 Centers

Specifications:

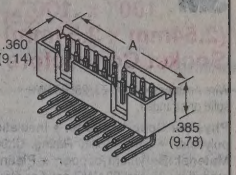
- .025" (.64mm) Sq. Posts, .240" (6.10mm) Mating Post Length.
- Material and Finish: Housing and Latches — Black thermo-plastic, 94V-0 rated.
- Contact Finish: 15µ or 30µ gold on post/pin mating end, 100µ-200µ bright tin-lead on termination end, with entire contact underplated 50µ nickel.

No. of Pins	Dim. A In. (mm)
10	.800 (20.32)
14	1.00 (25.40)
16	1.10 (27.94)
20	1.30 (33.02)
24	1.40 (35.56)
26	1.60 (40.64)
34	2.00 (50.80)
40	2.30 (58.42)
50	2.80 (71.12)
60	3.30 (83.82)



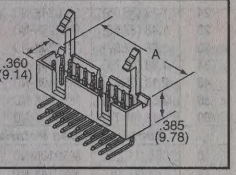
No. of Contacts	Contact Gold Plating	Digi-Key Part No.	Price Each 1	Price Each 100	AMP Part No.
Shrouded with .150" (3.81mm) End Dimension Double Row - Straight Post					
10	15µ"	A26267-ND	.45	.37	103308-1
	30µ"	A26268-ND	.54	.44	103309-1
14	15µ"	A26269-ND	.59	.49	103308-2
	30µ"	A26270-ND	.84	.68	103309-2
16	15µ"	A26271-ND	.84	.68	103308-3
	30µ"	A26272-ND	.92	.75	103309-3
20	15µ"	A26273-ND	.79	.65	103308-5
	30µ"	A26274-ND	.96	.78	103309-5
26	15µ"	A26275-ND	.93	.76	103308-6
	30µ"	A26276-ND	1.13	.92	103309-6
34	15µ"	A26277-ND	1.22	.99	103308-7
	30µ"	A26278-ND	1.30	1.06	103309-7
40	15µ"	A26279-ND	1.42	1.15	103308-8
	30µ"	A26280-ND	5.23	4.24	103309-8
50	15µ"	A26281-ND	1.36	1.11	1-103308-0
	30µ"	A26282-ND	1.73	1.40	1-103309-0
60	15µ"	A26283-ND	2.92	2.37	1-103308-2
High Temp. Housing with Board Retention Feature					
10	15µ"	A26844-ND	1.20	.86	104338-1
14	15µ"	A26845-ND	1.38	.99	104338-2
16	15µ"	A26846-ND	1.59	1.14	104338-3
20	15µ"	A26847-ND	1.82	1.31	104338-4
24	15µ"	A26848-ND	2.10	1.51	104338-5
34	15µ"	A26849-ND	2.76	1.98	104338-7
40	15µ"	A26850-ND	2.67	1.92	104338-8
50	15µ"	A26851-ND	3.32	2.38	104338-9

No. of Pins	Dim. A In. (mm)
10	.800 (20.32)
14	1.00 (25.40)
16	1.10 (27.94)
20	1.30 (33.02)
26	1.60 (40.64)
34	2.00 (50.80)
40	2.30 (58.42)
50	2.80 (71.12)
60	3.30 (83.82)



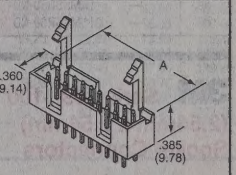
No. of Contacts	Contact Gold Plating	Digi-Key Part No.	Price Each 1	Price Each 100	AMP Part No.
Shrouded with .150" (3.81mm) End Dimension Double Row - Right-Angle Post					
10	15µ"	A26285-ND	.61	.50	103310-1
	30µ"	A26286-ND	.67	.55	103311-1
14	15µ"	A26287-ND	.80	.65	103310-2
	30µ"	A26288-ND	1.43	1.16	103311-2
16	15µ"	A26289-ND	.67	.55	103310-3
	30µ"	A26290-ND	.97	.79	103311-3
20	15µ"	A26291-ND	1.05	.85	103310-5
	30µ"	A26292-ND	1.02	.83	103311-5
26	15µ"	A26293-ND	1.26	1.02	103310-6
	30µ"	A26294-ND	1.42	1.15	103311-6
34	15µ"	A26295-ND	1.62	1.31	103310-7
	30µ"	A26296-ND	1.81	1.47	103311-7
40	15µ"	A26297-ND	1.81	1.47	103310-8
	30µ"	A26298-ND	1.87	1.52	103311-8
50	15µ"	A26299-ND	1.98	1.61	1-103310-0
	30µ"	A26300-ND	2.46	1.99	1-103311-0
60	15µ"	A26915-ND	3.69	2.65	1-103310-2
	30µ"	A26913-ND	5.01	3.60	1-103311-2

No. of Pins	Dim. A In. (mm)
10	.800 (20.32)
14	1.00 (25.40)
16	1.10 (27.94)
20	1.30 (33.02)
26	1.60 (40.64)
34	2.00 (50.80)
40	2.30 (58.42)
50	2.80 (71.12)



No. of Contacts	Contact Gold Plating	Latching Height Inch (mm)	Digi-Key Part No.	Price Each 1	Price Each 100	AMP Part No.
Shrouded with Ejection Latches and .150" (3.81mm) End Dimension Double Row - Right Angle Post						
10	30µ"	.585 (14.9)	A26301-ND	2.05	1.66	104130-1
	30µ"	.435 (11.0)	A26302-ND	2.02	1.64	104315-1
14	30µ"	.585 (14.9)	A26303-ND	2.23	1.81	104130-2
16	30µ"	.585 (14.9)	A26304-ND	2.33	1.89	104130-3
20	30µ"	.585 (14.9)	A26305-ND	2.54	2.06	104130-4
26	30µ"	.585 (14.9)	A26306-ND	2.85	2.31	104130-5
	30µ"	.435 (11.0)	A26307-ND	2.81	2.28	104315-5
34	30µ"	.585 (14.9)	A26308-ND	3.17	2.57	104130-6
40	30µ"	.585 (14.9)	A26309-ND	3.51	2.84	104130-7
	30µ"	.435 (11.0)	A26310-ND	3.51	2.84	104315-7
50	30µ"	.585 (14.9)	A26311-ND	3.86	3.13	104130-9
	30µ"	.435 (11.0)	A26312-ND	3.82	3.10	104315-9

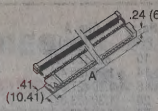
No. of Pins	Dim. A In. (mm)
10	.800 (20.32)
14	1.00 (25.40)
16	1.10 (27.94)
20	1.30 (33.02)
26	1.60 (40.64)
34	2.00 (50.80)
40	2.30 (58.42)
50	2.80 (71.12)
60	3.30 (83.82)



No. of Contacts	Contact Gold Plating	Latching Height Inch (mm)	Digi-Key Part No.	Price Each 1	Price Each 100	AMP Part No.
Shrouded with Ejection Latches and .150" (3.81mm) End Dimension Double Row - Straight Post						
10	30µ"	.585 (14.9)	A26313-ND	1.96	1.59	104128-1
	30µ"	.435 (11.0)	A26314-ND	1.96	1.59	104313-1
14	30µ"	.585 (14.9)	A26315-ND	2.18	1.77	104128-2
	30µ"	.435 (11.0)	A26316-ND	2.18	1.77	104313-2
16	30µ"	.585 (14.9)	A26317-ND	2.29	1.86	104128-3
	30µ"	.435 (11.0)	A26318-ND	2.29	1.86	104313-3
20	30µ"	.585 (14.9)	A26319-ND	2.48	2.01	104128-4
	30µ"	.435 (11.0)	A26320-ND	2.48	2.01	104313-4
26	30µ"	.585 (14.9)	A26321-ND	2.61	2.12	104128-5
	30µ"	.435 (11.0)	A26322-ND	2.75	2.23	104313-5
34	30µ"	.585 (14.9)	A26323-ND	3.11	2.52	104128-6
	30µ"	.435 (11.0)	A26324-ND	3.11	2.52	104313-6
40	30µ"	.585 (14.9)	A26325-ND	8.88	7.20	104128-7
	30µ"	.435 (11.0)	A26326-ND	3.32	2.69	104313-7
50	30µ"	.585 (14.9)	A26327-ND	3.72	3.01	104128-9
	30µ"	.435 (11.0)	A26328-ND	3.72	3.01	104313-9
60	30µ"	.585 (14.9)	A26329-ND	2.35	1.91	1-104128-0
	30µ"	.435 (11.0)	A26330-ND	4.37	3.54	1-104313-0

A

3M .100" x .100" (2.54mm x 2.54mm) Socket Connectors

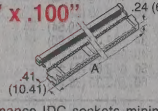


Wire Accommodation: 26, 28, 30AWG solid or stranded.

Physical Specifications: • Insulation Material: Glass reinforced polyester • Flammability Rating: UL94V-0 • Color: Gray • Contact Material: Beryllium copper • Plating: 30µ" gold • Wire Accommodation: 26 and 28AWG solid or stranded, 30AWG solid • Marking: 3M logo, part identification number and orientation triangle **Electrical Specifications:** • Current Rating: 1A • Insulation Resistance: >1x10^{9}Ω @ 500VDC • Withstanding Voltage: 1000VRMS @ sea level **Environmental Specifications:** • Temperature Rating: -55°C ~ 105°C • UL File No.: E68080; CSA File No.: LR-40971

No. of Contacts	Dim. A In. (mm)	Digi-Key Part No.	Pricing 1	Pricing 10	3M Part No.
Polarizing Slots (Open End)					
10	.68 (17.27)	MSC10K-ND	2.00	16.80	3473-6000
14	.88 (22.35)	MSC14K-ND	2.41	20.30	3385-6000
16	.98 (24.89)	MSC16K-ND	2.64	22.23	3452-6000
20	1.18 (29.97)	MSC20K-ND	2.91	24.50	3421-6000
24	1.38 (35.05)	MSC24K-ND	3.49	29.40	3626-6000
26	1.48 (37.59)	MSC26K-ND	3.76	31.68	3399-6000
30	1.68 (42.67)	MSC30K-ND	4.33	36.40	3419-6000
34	1.88 (47.75)	MSC34K-ND	4.91	41.30	3414-6000
40	2.18 (55.37)	MSC40K-ND	5.76	48.48	3417-6000
50	2.68 (68.07)	MSC50K-ND	7.20	60.55	3425-6000
60	3.18 (80.77)	MSC60K-ND	8.92	75.08	3334-6000
Center-Bumped Polarizing (Open End)					
10	.68 (17.27)	MKC10K-ND	2.00	16.80	3473-6600
14	.88 (22.35)	MKC14K-ND	2.41	20.30	3385-6600
16	.98 (24.89)	MKC16K-ND	2.64	22.23	3452-6600
20	1.18 (29.97)	MKC20K-ND	2.91	24.50	3421-6600
24	1.38 (35.05)	MKC24K-ND	3.49	29.40	3626-6600
26	1.48 (37.59)	MKC26K-ND	3.76	31.68	3399-6600
30	1.68 (42.67)	MKC30K-ND	4.33	36.40	3419-6600
34	1.88 (47.75)	MKC34K-ND	4.91	41.30	3414-6600
40	2.18 (55.37)	MKC40K-ND	5.76	48.48	3417-6600
50	2.68 (68.07)	MKC50K-ND	7.20	60.55	3425-6600
60	3.18 (80.77)	MKC60K-ND	8.92	75.08	3334-6600
Center-Bumped Polarizing (Closed End)					
10	.68 (17.27)	MSD10K-ND	2.12	17.85	3473-7600
14	.88 (22.35)	MSD14K-ND	2.66	22.40	3385-7600
16	.98 (24.89)	MSD16K-ND	2.79	23.45	3452-7600
20	1.18 (29.97)	MSD20K-ND	3.06	25.73	3421-7600
24	1.38 (35.05)	MSD24K-ND	3.66	30.80	3626-7600
26	1.48 (37.59)	MSD26K-ND	3.97	33.43	3399-7600
30	1.68 (42.67)	MSD30K-ND	4.56	38.33	3419-7600
34	1.88 (47.75)	MSD34K-ND	5.12	43.05	3414-7600
40	2.18 (55.37)	MSD40K-ND	6.01	50.58	3417-7600
50	2.68 (68.07)	MSD50K-ND	7.49	63.00	3425-7600
60	3.18 (80.77)	MSD60K-ND	9.26	77.88	3334-7600
Cable Strain Relief/Stabilizer					
10	—	MSSR10-ND	.25	2.10	3448-3010
14	—	MSSR14-ND	.25	2.10	3448-3014
16	—	MSSR16-ND	.25	2.10	3448-3016
20	—	MSSR20-ND	.25	2.10	3448-3020
24	—	MSSR24-ND	.25	2.10	3448-3024
26	—	MSSR26-ND	.25	2.10	3448-3026
30	—	MSSR30-ND	.25	2.10	3448-3030
34	—	MSSR34-ND	.25	2.10	3448-3034
40	—	MSSR40-ND	.25	2.10	3448-3040
50	—	MSSR50-ND	.25	2.10	3448-3050
60	—	MSSR60-ND	.25	2.10	3448-3060

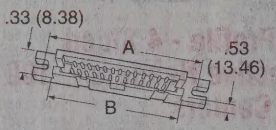
3M Series 89, .100" x .100" (2.54mm x 2.54mm) Socket Connectors



These high-quality, standard-performance IDC sockets minimize applied assembly costs without sacrificing reliability. The Series 89 IDC socket is part of a new line of standard-performance interconnects specifically designed to help electronic equipment manufacturers hold down applied assembly costs. These interconnects also offer the quality and reliability you'd expect from 3M. They have been engineered with a "systems" approach that has a positive impact on your process and product costs. **Physical Specifications:** • Insulation Material: Glass reinforced polyester (PBT) • Flammability Rating: UL94V-0 • Color: Gray • Marking: Molded Figures: 3M logo and orientation triangle • Pins: Phosphor bronze • Contact Plating: Wipe Area: 30µ" gold, MIL-G-45204, Type II, Grade C • Underplate: 100µ" nickel, QQ-N-290, Class 2 • Wire Accommodation: 28AWG stranded **Electrical Specifications:** • Current Rating: 1A • Insulation Resistance: >1x10^{9}Ω @ 500VDC • Withstanding Voltage: 1000VRMS @ Sea Level **Environmental Specifications:** • Operating Temperature: -55°C ~ 105°C • UL File No.: E68080; CSA File No.: LR40971

No. of Contacts	Dim. A In. (mm)	Digi-Key Part No.	Pricing 1	Pricing 10	3M Part No.
IDC Socket Gold					
10	.68 (17.27)	MSC10A-ND	1.09	8.84	89110-0001
14	.88 (22.35)	MSC14A-ND	1.12	9.12	89114-0001
16	.98 (24.89)	MSC16A-ND	1.16	9.41	89116-0001
20	1.18 (29.97)	MSC20A-ND	1.26	10.26	89120-0001
24	1.38 (35.05)	MSC24A-ND	1.40	11.40	89124-0001
26	1.48 (37.59)	MSC26A-ND	1.44	11.69	89126-0001
30	1.68 (42.67)	MSC30A-ND	1.58	12.83	89130-0001
34	1.88 (47.75)	MSC34A-ND	1.61	13.11	89134-0001
40	2.18 (55.37)	MSC40A-ND	2.17	17.67	89140-0001
50	2.68 (68.07)	MSC50A-ND	2.35	19.10	89150-0001
60	3.18 (80.77)	MSC60A-ND	2.42	19.67	89160-0001
IDC Socket Gold, Polarizing					
10	.68 (17.27)	MKC10A-ND	1.09	8.84	89110-0101
14	.88 (22.35)	MKC14A-ND	1.12	9.12	89114-0101
16	.98 (24.89)	MKC16A-ND	1.16	9.41	89116-0101
20	1.18 (29.97)	MKC20A-ND	1.26	10.26	89120-0101
24	1.38 (35.05)	MKC24A-ND	1.40	11.40	89124-0101
26	1.48 (37.59)	MKC26A-ND	1.44	11.69	89126-0101
30	1.68 (42.67)	MKC30A-ND	1.58	12.83	89130-0101
34	1.88 (47.75)	MKC34A-ND	1.61	13.11	89134-0101
40	2.18 (55.37)	MKC40A-ND	2.17	17.67	89140-0101
50	2.68 (68.07)	MKC50A-ND	2.35	19.10	89150-0101
60	3.18 (80.77)	MKC60A-ND	2.42	19.67	89160-0101
Strain Relief					
10	—	MKSR10-ND	.28	2.28	3448-89110
14	—	MKSR14-ND	.28	2.28	3448-89114
16	—	MKSR16-ND	.28	2.28	3448-89116
20	—	MKSR20-ND	.28	2.28	3448-89120
24	—	MKSR24-ND	.28	2.28	3448-89124
26	—	MKSR26-ND	.28	2.28	3448-89126
30	—	MKSR30-ND	.28	2.28	3448-89130
34	—	MKSR34-ND	.28	2.28	3448-89134
40	—	MKSR40-ND	.28	2.28	3448-89140
50	—	MKSR50-ND	.28	2.28	3448-89150
60	—	MKSR60-ND	.28	2.28	3448-89160

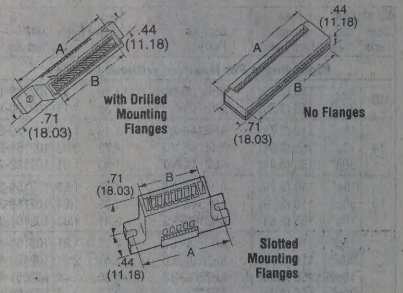
3M .100" x .100" (2.54mm x 2.54mm) Plug Connectors



Physical Specifications: • Insulation Material: Glass reinforced polyester (PBT) • Flammability Rating: UL94V-0 • Color: Gray • Contact Material: Flat Cable Connectors: Beryllium copper • Latch Eject Headers: Copper alloy • Plating: 30µ" gold • Wire Accommodation: 26 and 28AWG solid or stranded, 30AWG solid **Electrical Specifications:** • Current Rating: 1A • Insulation Resistance: >1x10^{9}Ω @ 500VDC • Withstanding Voltage: 1000VRMS @ sea level **Environmental Specifications:** • Temperature Rating: -55°C ~ 105°C • UL File No.: E68080; CSA File No.: LR-40971

No. of Cont.	Dim. – In. (mm) A	Dim. – In. (mm) B	Digi-Key Part No.	Pricing 1	Pricing 10	3M Part No.
With Slotted Mounting Flanges						
10	1.20 (30.48)	.90 (22.86)	MPL10K-ND	2.95	24.85	4610-6050
14	1.40 (35.56)	1.10 (27.94)	MPL14K-ND	4.10	34.48	4614-6000
16	1.50 (38.10)	1.20 (30.48)	MPL16K-ND	4.64	39.03	4616-6000
20	1.70 (43.18)	1.40 (35.56)	MPL20K-ND	5.41	45.50	4620-6000
24	1.90 (48.26)	1.60 (40.64)	MPL24K-ND	5.95	50.05	4624-6000
26	2.00 (50.80)	1.70 (43.18)	MPL26K-ND	6.16	51.80	4626-6000
30	2.20 (55.88)	1.90 (48.26)	MPL30K-ND	6.76	56.88	4630-6000
34	2.40 (60.96)	2.10 (53.34)	MPL34K-ND	7.63	64.23	4634-6000
36	2.50 (63.50)	2.20 (55.88)	MPL36K-ND	8.07	67.90	4636-6000
40	2.70 (68.58)	2.40 (60.96)	MPL40K-ND	8.47	71.23	4640-6000
50	3.20 (81.28)	2.90 (73.66)	MPL50K-ND	9.17	77.18	4650-6000
60	3.70 (93.98)	3.40 (86.36)	MPL60K-ND	10.82	91.00	4660-6000
64	3.90 (99.06)	3.60 (91.44)	MPL64K-ND	11.54	97.13	4664-6000
Without Mounting Flanges						
10	1.20 (30.48)	.90 (22.86)	MPK10K-ND	2.95	24.85	4610-6051
14	1.40 (35.56)	1.10 (27.94)	MPK14K-ND	4.10	34.48	4614-6001
16	1.50 (38.10)	1.20 (30.48)	MPK16K-ND	4.64	39.03	4616-6001
20	1.70 (43.18)	1.40 (35.56)	MPK20K-ND	5.41	45.50	4620-6001
24	1.90 (48.26)	1.60 (40.64)	MPK24K-ND	5.95	50.05	4624-6001
26	2.00 (50.80)	1.70 (43.18)	MPK26K-ND	6.16	51.80	4626-6001
30	2.20 (55.88)	1.90 (48.26)	MPK30K-ND	6.76	56.88	4630-6001
34	2.40 (60.96)	2.10 (53.34)	MPK34K-ND	7.63	64.23	4634-6001
36	2.50 (63.50)	2.20 (55.88)	MPK36K-ND	8.07	67.90	4636-6001
40	2.70 (68.58)	2.40 (60.96)	MPK40K-ND	8.47	71.23	4640-6001
50	3.20 (81.28)	2.90 (73.66)	MPK50K-ND	9.17	77.18	4650-6001
60	3.70 (93.98)	3.40 (86.36)	MPK60K-ND	10.82	91.00	4660-6001
64	3.90 (99.06)	3.60 (91.44)	MPK64K-ND	11.54	97.13	4664-6001
Strain Reliefs						
10	—	—	MPSR10-ND	.58	4.90	3448-4610
14	—	—	MPSR14-ND	.69	5.78	3448-4614
16	—	—	MPSR16-ND	.69	5.78	3448-4616
20	—	—	MPSR20-ND	.69	5.78	3448-4620
24	—	—	MPSR24-ND	.69	5.78	3448-4624
26	—	—	MPSR26-ND	.69	5.78	3448-4626
30	—	—	MPSR30-ND	.69	5.78	3448-4630
34	—	—	MPSR34-ND	.69	5.78	3448-4634
36	—	—	MPSR36-ND	.69	5.78	3448-4636
40	—	—	MPSR40-ND	.69	5.78	3448-4640
50	—	—	MPSR50-ND	.69	5.78	3448-4650
60	—	—	MPSR60-ND	.69	5.78	3448-4660
64	—	—	MPSR64-ND	.69	5.78	3448-4664
Lock Eject. Hooks (Short)			MDLKS1-ND	29/2	1.23	3505-16
Lock Eject. Hooks (Long)			MDLKS2-ND	33/2	1.40	3505-17

3M .100" (2.54mm) Card Edge Connectors



Physical Specifications: • Insulation Material: Glass reinforced polyester (PBT) • Flammability Rating: UL94V-0 • Color: Gray • Contact Material: Beryllium copper • Plating: 30µ" gold • Marking: 3M logo and part identification number

Electrical Specifications: • Current Rating: 1A • Insulation Resistance: >1x10^{9}Ω @ 500VDC • Withstanding Voltage: 1000VRMS @ sea level

Environmental Specifications: • Temperature Rating: -55°C ~ 105°C • UL File No.: E68080; CSA File No.: LR-40971 • Wire Accommodation: 26AWG solid or stranded, 28AWG solid or stranded, 30AWG solid

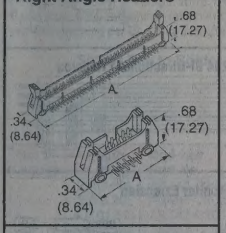
Order strain reliefs separately.

No. of Cont.	Dim. – Inch (mm) A	Dim. – Inch (mm) B	Digi-Key Part No.	Pricing 1	Pricing 10	3M Part No.
With Drilled Mounting Flanges						
10	1.40 (35.56)	.612 (15.54)	MCF10K-ND	5.10	42.88	3358-0000
16	1.70 (43.18)	.912 (23.16)	MCF16K-ND	6.26	52.68	3368-0000
20	1.90 (48.26)	1.112 (28.24)	MCF20K-ND	6.64	55.83	3461-0000
26	2.20 (55.88)	1.412 (35.86)	MCF26K-ND	8.05	67.73	3462-0000
34	2.60 (66.04)	1.812 (46.02)	MCF34K-ND	8.57	72.10	3463-0000
40	2.90 (73.66)	2.112 (53.64)	MCF40K-ND	9.40	79.10	3464-0000
50	3.40 (86.36)	2.612 (66.34)	MCF50K-ND	11.67	98.18	3415-0000
60	3.90 (99.06)	3.112 (79.04)	MCF60K-ND	13.48	113.40	3666-0000
64	4.10 (104.14)	3.312 (84.12)	MCF64K-ND	13.12	110.43	3403-0000
Without Flanges						
10	.96 (24.38)	.612 (15.54)	MCE10K-ND	5.10	42.88	3358-0001
16	1.26 (32.00)	.912 (23.16)	MCE16K-ND	6.26	52.68	3368-0001
20	1.46 (37.08)	1.112 (28.24)	MCE20K-ND	6.64	55.83	3461-0001
26	1.76 (44.70)	1.412 (35.86)	MCE26K-ND	8.05	67.73	3462-0001
34	2.16 (54.86)	1.812 (46.02)	MCE34K-ND	8.57	72.10	3463-0001
40	2.46 (62.48)	2.112 (53.64)	MCE40K-ND	9.40	79.10	3464-0001
50	2.96 (75.18)	2.612 (66.34)	MCE50K-ND	11.67	98.18	3415-0001
60	3.46 (87.88)	3.112 (79.04)	MCE60K-ND	13.48	113.40	3666-0001
64	3.66 (92.96)	3.312 (84.12)	MCE64K-ND	13.12	110.43	3403-0001
With Slotted Mounting Flanges						
10	1.30 (33.02)	.612 (15.54)	MCS10K-ND	5.10	42.88	3358-0002
16	1.60 (40.64)	.912 (23.16)	MCS16K-ND	6.26	52.68	3368-0002
20	1.80 (45.72)	1.112 (28.24)	MCS20K-ND	6.64	55.83	3461-0002
26	2.10 (53.34)	1.412 (35.86)	MCS26K-ND	8.05	67.73	3462-0002
34	2.50 (63.50)	1.812 (46.02)	MCS34K-ND	8.57	72.10	3463-0002
40	2.80 (71.12)	2.112 (53.64)	MCS40K-ND	9.40	79.10	3464-0002
50	3.30 (83.82)	2.612 (66.34)	MCS50K-ND	11.67	98.18	3415-0002
60	3.80 (96.52)	3.112 (79.04)	MCS60K-ND	13.48	113.40	3666-0002
64	4.00 (101.60)	3.312 (84.12)	MCS64K-ND	13.12	110.43	3403-0002
Strain Reliefs						
10	—	—	MCSR10-ND	1.83	15.40	3448-52
16	—	—	MCSR16-ND	1.83	15.40	3448-53
20	—	—	MCSR20-ND	1.83	15.40	3448-54
26	—	—	MCSR26-ND	1.71	14.35	3448-55
34	—	—	MCSR34-ND	1.46	12.25	3448-56
40	—	—	MCSR40-ND	1.71	14.35	3448-57
50	—	—	MCSR50-ND	1.83	15.40	3448-58
60	—	—	MCSR60-ND	5.41	45.50	3448-31
64	—	—	MCSR64-ND	1.83	15.40	3448-59

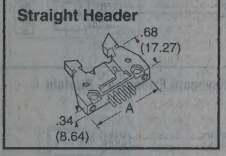
3M Latch/Eject Headers .100" x .100" (2.54mm x 2.54mm)

Four-wall shrouded housing to protect against physical and chemical pin damage. *Order optional ejector latches separately below.*

Right Angle Headers



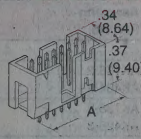
Straight Header



No. of Cont.	Dim. A in. (mm)	Digi-Key Part No.	Pricing 1	100	500	3M Part No.
Right Angle						
10	1.26 (32.00)	MHR10K-ND	1.16	88.48	400.40	3793-5002
14	1.46 (37.08)	MHR14K-ND	1.60	121.66	550.55	3314-5002
16	1.56 (39.62)	MHR16K-ND	1.85	140.62	636.35	3408-5002
20	1.76 (44.70)	MHR20K-ND	2.29	173.80	786.50	3428-5002
24	1.96 (49.78)	MHR24K-ND	2.75	208.56	943.80	3627-5002
26	2.06 (52.32)	MHR26K-ND	2.97	225.94	1022.45	3429-5002
30	2.26 (57.40)	MHR30K-ND	2.75	208.56	943.80	3440-5002
34	2.46 (62.48)	MHR34K-ND	3.10	235.42	1065.35	3431-5002
40	2.76 (70.10)	MHR40K-ND	3.66	278.08	1258.40	3432-5002
50	3.26 (82.80)	MHR50K-ND	4.58	347.60	1573.00	3433-5002
60	3.76 (95.50)	MHR60K-ND	5.47	415.54	1880.45	3372-5002
Straight						
10	1.26 (32.00)	MHS10K-ND	1.14	86.90	393.25	3793-6002
14	1.46 (37.08)	MHS14K-ND	1.58	120.08	543.40	3314-6002
16	1.56 (39.62)	MHS16K-ND	1.81	137.46	622.05	3408-6002
20	1.76 (44.70)	MHS20K-ND	2.25	170.64	772.20	3428-6002
24	1.96 (49.78)	MHS24K-ND	2.70	205.40	929.50	3627-6002
26	2.06 (52.32)	MHS26K-ND	2.91	221.20	1001.00	3429-6002
30	2.26 (57.40)	MHS30K-ND	2.70	205.40	929.50	3440-6002
34	2.46 (62.48)	MHS34K-ND	3.04	230.68	1043.90	3431-6002
40	2.76 (70.10)	MHS40K-ND	3.58	271.76	1229.80	3432-6002
50	3.26 (82.80)	MHS50K-ND	4.47	339.70	1537.25	3433-6002
60	3.76 (95.50)	MHS60K-ND	5.39	409.22	1851.85	3372-6002
Optional Ejector Latches for Connectors						
Short		MLKS01-ND*	.21/2	7.90	35.75	3505-2
Long		MLKS02-ND†	.21/2	7.90	35.75	3505-3

* Use without strain relief † Use with strain relief

3M Low Profile Headers (Protected Headers)



Physical Specifications: Insulation: • Material: Glass filled Polyester (PBT) • Flammability: UL94V-0 • Color: Gray • Marking: 3M logo and Orientation Triangle **Contact:** • Material: Phosphor Bronze (C510) **Plating:** • Underplate: 100µ" Nickel-QQ-N-290, Class 2 • Wiping Area: Gold-MIL-G-45204, Type II, Grade C • Solder Tails: 200µ" 60/40 Tin Lead-MIL-P-81728 • Wrap Tails: Gold Flash

Electrical Specifications: • Current Rating: 2A • Insulation Resistance: >1x10⁹Ω @ 500Vdc • Withstanding voltage: 1000Vrms at Sea Level

Environmental Specification: • Temperature Rating: -55°C ~ 105°C

UL File No.: E68080
CSA File No.: LR 40971

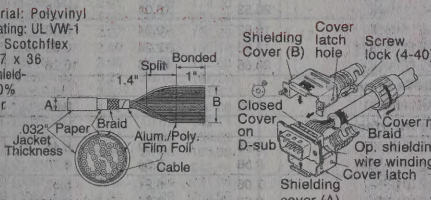
No. of Cont.	Dim. A in. (mm)	Digi-Key Part No.	Pricing 1	100	500	3M Part No.
Straight Solder Tail						
10	0.79 (20.07)	MHB10K-ND	1.37	104.28	471.90	2510-6002UB
14	0.99 (22.15)	MHB14K-ND	1.41	107.44	486.20	2514-6002UB
16	1.09 (27.69)	MHB16K-ND	1.58	120.08	543.40	2516-6002UB
20	1.29 (32.77)	MHB20K-ND	1.64	124.82	564.85	2520-6002UB
24	1.49 (37.85)	MHB24K-ND	1.75	132.72	600.60	2524-6002UB
26	1.59 (40.39)	MHB26K-ND	1.77	134.30	607.75	2526-6002UB
30	1.79 (45.47)	MHB30K-ND	2.04	154.84	700.70	2530-6002UB
34	1.99 (50.55)	MHB34K-ND	2.12	161.16	729.30	2534-6002UB
40	2.29 (58.17)	MHB40K-ND	2.27	172.22	779.35	2540-6002UB
50	2.79 (70.87)	MHB50K-ND	2.81	213.30	965.25	2550-6002UB
60	3.29 (83.57)	MHB60K-ND	3.37	255.96	1158.30	2560-6002UB
Right Angle Solder Tail						
10	0.79 (20.07)	MHD10K-ND	1.52	115.34	521.95	2510-5002UB
14	0.99 (22.15)	MHD14K-ND	1.56	118.50	536.25	2514-5002UB
16	1.09 (27.69)	MHD16K-ND	1.75	132.72	600.60	2516-5002UB
20	1.29 (32.77)	MHD20K-ND	1.83	139.04	629.20	2520-5002UB
24	1.49 (37.85)	MHD24K-ND	1.91	145.36	657.80	2524-5002UB
26	1.59 (40.39)	MHD26K-ND	1.93	146.94	664.95	2526-5002UB
30	1.79 (45.47)	MHD30K-ND	2.62	199.08	900.90	2530-5002UB
34	1.99 (50.55)	MHD34K-ND	2.31	175.38	793.65	2534-5002UB
40	2.29 (58.17)	MHD40K-ND	2.50	189.60	858.00	2540-5002UB
50	2.79 (70.87)	MHD50K-ND	3.08	233.84	1058.20	2550-5002UB
60	3.29 (83.57)	MHD60K-ND	3.70	281.24	1272.70	2560-5002UB

3M Round Jacketed/Shielded Flat Cable 3659 Series

PHYSICAL: • Insulation Material: Polyvinyl Chloride (PVC) • Flammability Rating: UL VW-1 • Color: Black • Inner Cable: Scotchflex Product No. 3365, 28 AWG 7 x 36 Conductors; UL Style: 2651 • Shielding: 0.001" (.03mm) and 90% Optical Coverage Tinned Copper Braid

ELECTRICAL: • Voltage Rating: 150 V • Insulation Resistance: > 1 x 10¹⁰Ω/ 10 ft.

ENVIRONMENTAL: • Temperature Rating: -4°F ~ 176°F (-20°C ~ 80°C)



No. of Contacts	Dim. (inch) A	B	Digi-Key Part No.	Note: X In Part No. = Ft. Per Roll *Price Per Roll 5 ft.	10 ft.	25 ft.	50 ft.	100 ft.
15	.29	.700	MC15R-X-ND	11.54	21.43	47.81	82.44	131.90
20	.30	.950	MC20R-X-ND	12.43	23.08	51.49	88.78	142.04
24	.35	1.150	MC24R-X-ND	13.32	24.73	55.17	95.11	152.18
25	.35	1.200	MC25R-X-ND	13.73	25.50	56.89	98.09	156.94
26	.35	1.250	MC26R-X-ND	14.20	26.38	58.84	101.45	162.32
34	.39	1.650	MC34R-X-ND	15.98	29.68	66.20	114.14	182.62
36	.41	1.750	MC36R-X-ND	16.42	30.50	68.04	117.31	187.70
37	.41	1.800	MC37R-X-ND	16.87	31.32	69.88	120.48	192.76
40	.41	1.950	MC40R-X-ND	17.31	32.15	71.72	123.65	197.84
50	.50	2.450	MC50R-X-ND	19.97	37.09	82.74	142.66	228.26
60	.53	2.950	MC60R-X-ND	22.39	41.58	92.76	159.94	255.90
64	.54	3.150	MC64R-X-ND	23.53	43.69	97.46	168.04	268.86

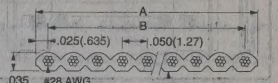
No. of Contacts	Digi-Key Part No.	Pricing 1	100	500	1,000	3M Part No.
D-Sub Backshells						
9	MDBS09-ND	3.93	298.62	1351.35	2457.00	3357-9209
15	MDBS15-ND	4.35	330.22	1494.35	2717.00	3357-9215
25	MDBS25-ND	4.97	377.62	1708.85	3107.00	3357-9225
37	MDBS37-ND	7.26	551.42	2495.35	4537.00	3357-9237
50	MDBS50-ND	11.40	865.84	3918.20	7124.00	3357-9250
NEW! Thumbscrew Kit (2 Thumbscrews and 2 Retainers) NEW!						
Kit	MDTS07-ND	3.97	301.78	1365.65	2483.00	3341-7

3M Gray Cable Clamps with Adhesive

3484 Series: Cable clamps organize cable routing by clamping and retaining up to six layers of flat cable.

3484-1000-ND Cable Clamps with Adhesive **$12.25/100**

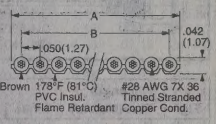
3M Gray Flat Cable 3365 Series



PHYSICAL: • Insulation Material: Polyvinyl Chloride (PVC) • Flammability Rating: UL VW-1 • Marking: Red Edge • Conductors: 28 AWG 7x36 Tinned Stranded Copper **ELECTRICAL:** • Voltage Rating: 300 V • Insulation Resistance: >1 x 10¹⁰Ω/ 10 ft. **ENVIRONMENTAL:** • Temp. Rating: -4°F ~ 221°F (-20°C ~ 105°C)

No. of Contacts	Dimensions Inch (mm) A	B	Digi-Key Part No.	Note: X In Part No. = Ft. Per Roll *Price Per Roll 5 ft.	10 ft.	25 ft.	50 ft.	100 ft.	300 ft.
10	.500 (12.70)	.450 (11.43)	MC10G-X-ND	1.63	3.02	6.74	11.63	20.93	55.80
14	.700 (17.78)	.650 (16.51)	MC14G-X-ND	2.28	4.23	9.43	16.26	29.27	78.04
16	.800 (20.32)	.750 (19.05)	MC16G-X-ND	2.60	4.83	10.78	18.58	33.44	89.18
20	1.000 (25.40)	.950 (24.13)	MC20G-X-ND	3.25	6.04	13.47	23.23	41.81	111.50
24	1.200 (30.48)	1.150 (29.21)	MC24G-X-ND	3.90	7.25	16.17	27.87	50.17	133.78
26	1.300 (33.02)	1.250 (31.75)	MC26G-X-ND	4.23	7.85	17.51	30.19	54.34	144.92
34	1.700 (43.18)	1.650 (41.91)	MC34G-X-ND	5.53	10.27	22.90	39.49	71.08	189.54
37	1.850 (46.99)	1.800 (45.72)	MC37G-X-ND	6.02	11.17	24.93	42.98	77.36	206.28
40	2.000 (50.80)	1.950 (49.53)	MC40G-X-ND	6.50	12.08	26.95	46.46	83.63	223.00
50	2.500 (63.50)	2.450 (62.23)	MC50G-X-ND	8.13	15.10	33.68	58.06	104.51	278.70
60	3.000 (76.20)	2.950 (74.93)	MC60G-X-ND	9.76	18.12	40.41	69.68	125.42	334.46
64	3.200 (81.28)	3.150 (80.01)	MC64G-X-ND	10.40	19.32	43.11	74.32	133.78	356.74

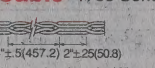
3M Color Coded Flat Cable 3302 Series



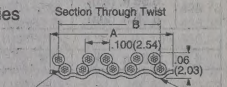
PHYSICAL: • Insulation Material: Polyvinyl Chloride (PVC) • Flammability Rating: UL VW-1 • Color: 10 Color Repeat, Clear Carrier • Conductors: 28 AWG 7 x 36 Tinned Stranded Copper. **ELECTRICAL:** • Voltage Rating: 300 V • Insulation Resistance: > 1 x 10⁹Ω/ 10 ft. **ENVIRONMENTAL:** • Temperature Rating: -4°F ~ 176°F (-20°C ~ 80°C)

No. of Contacts	Dimensions Inch (mm) A	B	Digi-Key Part No.	Note: X In Part No. = Ft. Per Roll *Price Per Roll 5 ft.	10 ft.	25 ft.	50 ft.	100 ft.	300 ft.
10	.500 (12.70)	.450 (11.43)	MC10M-X-ND	2.89	5.36	11.96	20.63	37.13	99.00
14	.700 (17.78)	.650 (16.51)	MC14M-X-ND	4.04	7.51	16.75	28.88	51.98	138.60
16	.800 (20.32)	.750 (19.05)	MC16M-X-ND	4.62	8.58	19.14	33.00	59.40	158.40
20	1.000 (25.40)	.950 (24.13)	MC20M-X-ND	5.78	10.73	23.93	41.25	74.25	198.00
24	1.200 (30.48)	1.150 (29.21)	MC24M-X-ND	6.93	12.87	28.71	49.50	89.10	237.60
26	1.300 (33.02)	1.250 (31.75)	MC26M-X-ND	7.51	13.94	31.10	53.63	96.53	257.40
34	1.700 (43.18)	1.650 (41.91)	MC34M-X-ND	9.82	18.23	40.67	70.13	126.23	336.60
37	1.850 (46.99)	1.800 (45.72)	MC37M-X-ND	10.68	19.84	44.26	76.31	137.36	366.30
40	2.000 (50.80)	1.950 (49.53)	MC40M-X-ND	11.55	21.45	47.85	82.50	148.50	396.00
50	2.500 (63.50)	2.450 (62.23)	MC50M-X-ND	14.44	26.81	59.81	103.13	185.63	495.00
60	3.000 (76.20)	2.950 (74.93)	MC60M-X-ND	17.33	32.18	71.78	123.75	222.75	594.00
64	3.200 (81.28)	3.150 (80.01)	MC64M-X-ND	18.48	34.32	76.56	132.00	237.60	633.60

3M Twisted Pair Flat Cable 1700 Series



Standard product has alt. 18" (45.72cm) twisted sections and 2" (5.08cm) flat sections.



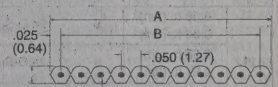
PHYSICAL: • Insulation Material: Polyvinyl Chloride (PVC) • Flammability Rating: UL VW-1. **ELECTRICAL:** • Voltage Rating: 300 V • Insulation Resistance: >1 x 10⁹Ω/ 10 ft. **ENVIRONMENTAL:** • Temperature Rating: -4°F ~ 176°F (-20°C ~ 80°C)

No. of Contacts	Dimensions Inch (mm) A	B	Digi-Key Part No.	Note: X In Part No. = Ft. Per Roll *Price Per Roll 5 ft.	10 ft.	25 ft.	50 ft.	100 ft.†
10	.50 (12.70)	.450 (11.43)	MC10F-X-ND	3.05	5.66	12.62	21.75	34.80
14	.70 (17.78)	.650 (16.51)	MC14F-X-ND	4.26	7.92	17.66	30.45	48.72
16	.80 (20.32)	.750 (19.05)	MC16F-X-ND	4.87	9.05	20.18	34.80	55.68
20	1.00 (25.40)	.950 (24.13)	MC20F-X-ND	6.09	11.31	25.23	43.50	69.60
26	1.30 (33.02)	1.250 (31.75)	MC26F-X-ND	7.92	14.70	32.80	56.55	90.48
34	1.70 (43.18)	1.650 (41.91)	MC34F-X-ND	10.35	19.23	42.89	73.95	118.32
36	1.80 (45.72)	1.750 (44.45)	MC36F-X-ND	10.96	20.36	45.41	78.30	125.28
40	2.00 (50.80)	1.950 (49.53)	MC40F-X-ND	12.18	22.62	50.46	87.00	139.20
50	2.50 (63.50)	2.450 (62.23)	MC50F-X-ND	15.23	28.28	63.08	108.75	174.00
60	3.00 (76.20)	2.950 (74.93)	MC60F-X-ND	18.27	33.93	75.69	130.50	208.80
64	3.20 (81.28)	3.150 (80.01)	MC64F-X-ND	19.49	36.19	80.74	139.20	222.72

† If ordered in full reel size, may contain a splice. Comes in unreel box.

3M High Flex Life Cable 3319 Series

19 strands of high strength copper alloy provide the longest flex life available for dynamic applications. **PHYSICAL:** • Insulation Material: Polyvinyl Chloride (PVC) • Color: Black • Marking, Standard: None • CSA Option: UL AWM 2651 105C 300V VW1, 3M NU, CSA AWM 1A 105C 300V FT1 • Conductors: 28 AWG 19x40 (19x0.079) Silver Plated Stranded Copper Alloy (89% conductivity) **ELECTRICAL:** • Voltage Rating: 300 V • Insulation Resistance: >1 x 10¹⁰Ω/ 10 ft. (3m) **ENVIRONMENTAL:** • Temperature Rating: -4°F ~ 221°F (-20°C ~ 105°C) • Flammability Rating: UL: VW-1, CSA: FT1



No. of Contacts	Dimensions Inch (mm) A	B	Digi-Key Part No.	Note: X In Part No. = Ft. Per Roll *Price Per Roll 5 ft.	10 ft.	25 ft.	50 ft.	100 ft.
10	.50 (12.70)	.45 (11.43)	MC10H-X-ND	18.99	35.26	78.66	135.63	217.00
14	.70 (17.78)	.65 (16.51)	MC14H-X-ND	26.58	49.37	110.13	189.88	303.80
16	.80 (20.32)	.75 (19.05)	MC16H-X-ND	30.38	56.42	125.86	217.00	347.20
20	1.00 (25.40)	.95 (24.13)	MC20H-X-ND	37.98	70.53	157.33	271.25	434.00
24	1.20 (30.48)	1.15 (29.21)	MC24H-X-ND	45.57	84.63	188.79	325.50	520.80
26	1.30 (33.02)	1.25 (31.75)	MC26H-X-ND	49.37	91.68	204.52	352.63	564.20
34	1.70 (43.18)	1.65 (41.91)	MC34H-X-ND	64.56	119.89	267.45	461.13	737.80
37	1.85 (46.99)	1.80 (45.72)	MC37H-X-ND	70.25	130.47	291.05	501.81	802.90
40	2.00 (50.80)	1.95 (49.53)	MC40H-X-ND	75.95	141.05	314.65	542.50	868.00
50	2.50 (63.50)	2.45 (62.23)	MC50H-X-ND	94.94	176.31	393.31	678.13	1085.00
60	3.00 (76.20)	2.95 (74.93)	MC60H-X-ND	113.93	211.58	471.98	813.75	1302.00
64	3.20 (81.28)	3.15 (80.01)	MC64H-X-ND	121.52	225.67	503.43	867.98	1388.76

Fig. 1 — Parallel Extension

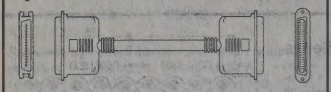


Fig. 2 — Parallel Printer (Snap Hood)

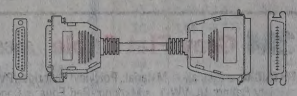


Fig. 3 — Parallel Printer (Molded Hood)

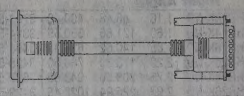


Fig. 4 — Right Angle Parallel Printer

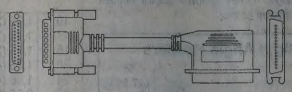


Fig. 5 — Serial Printer (Snap Hoods)

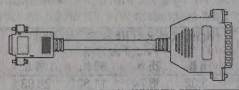


Fig. 6 — IEEE 1284 Bi-Directional Printer

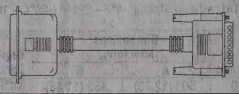


Fig. 7 — IEEE 1284 Bi-Directional Connection

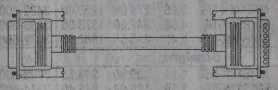


Fig. 8 — IEEE 1284 Bi-Directional Extension

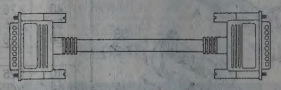


Fig. 9 — Connection Cable, 25-Pin Interface Serial/Parallel

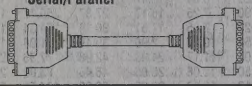


Fig. 10 — 25-Pin Interface Extension

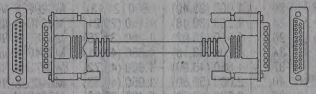


Fig. 11 — 9-Pin Interface Extension

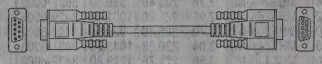


Fig. 12 — VGA Monitor Extension

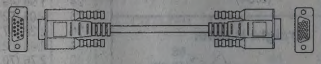


Fig. 13 — Premium VGA Monitor Extension

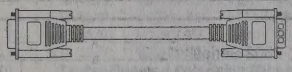


Fig. 14 — PC/XT/AT Keyboard Extension

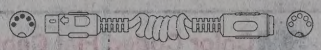


Fig. 15 — PS/2 Keyboard Extension - Spiral

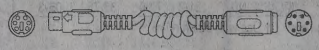


Fig. 16 — PS/2 Keyboard Extension – Straight

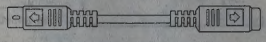


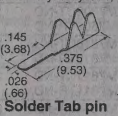
Fig.	Length Feet (Meters)	Lines	Description	Digi-Key Part No.	Price Each 1	10	25	Assmann Part No.
			Molded Extension for 36-Pin Centronics Interfaces					
1	6.56 ft. (2m)	36	2x Centronics 36-Pin Female to Female	AE1000-ND	12.38	10.88	9.75	AK155-2
	9.84 ft. (3m)			AE1001-ND	16.50	14.50	13.00	AK434-3
	6.56 ft. (2m)	36	2x Centronics 36-Pin Male to Male	AE1002-ND	10.73	9.43	8.45	AK138-2
	9.84 ft. (3m)			AE1003-ND	15.02	13.20	11.83	AK426-3
	6.56 ft. (2m)	36	2x Centronics 36-Pin Male to Female	AE1004-ND	11.55	10.15	9.10	AK140-2
	9.84 ft. (3m)			AE1005-ND	15.68	13.78	12.35	AK430-3
			Parallel Printer Cable, IBM PC & Compatibles					
2	5.90 ft (1.8m)	25	D-Sub 25-Pin Male to Centronics 36-Pin Male, Snap-Hoods	AE1006-ND	4.79	4.21	3.77	AK101-1.8
	9.84 ft. (3m)			AE1007-ND	7.99	7.02	6.30	AK102-3
	16.40 ft. (5m)			AE1099-ND	7.06	6.21	5.57	AK103-5
	22.96 ft. (7m)			AE1100-ND	8.94	7.86	7.05	AK104-7
3	6.56 ft. (2m)	25	D-Sub 25-Pin Male to Centronics 36-Pin Male, Molded Hoods	AE1101-ND	4.59	4.04	3.62	AK108-2
	9.84 ft. (3m)			AE1102-ND	5.81	5.11	4.58	AK127-3
	22.96 ft. (7m)			AE1104-ND	9.47	8.33	7.47	AK159-7
4	6.56 ft. (2m)	25	D-Sub 25-Pin Male to Right Angle Centronics 36-Pin Male	AE1008-ND	8.25	7.25	6.50	AK525-2
	6.56 ft. (2m)		D-Sub 25-Pin Male to Left Angle Centronics 36-Pin Male	AE1009-ND	8.25	7.25	6.50	AK525-L2
			Parallel Printer Cable, IBM PC & Compatibles					
5	9.84 ft. (3m)	8	D-Sub 9-Pin Female to D-Sub 25-Pin Male, Snap-Hoods	AE1103-ND	3.27	2.88	2.58	AK150-3
			IEEE 1284 Bi-Directional Cable - Molded Hoods					
6	5.90 ft. (1.8m)	25	D-Sub 25-Pin Male to Centronics 36-Pin Male, Printer	AE1105-ND	10.26	9.02	8.09	AK711-1.8
	9.84 ft. (3m)			AE1106-ND	13.79	12.13	10.87	AK712-3
	16.40 ft. (5m)			AE1107-ND	18.65	16.39	14.69	AK713-5
7	5.90 ft. (1.8m)	25	D-Sub 25-Pin Male to D-Sub 25-Pin Female, Connection	AE1108-ND	10.82	9.52	8.53	AK733-1.8
	9.84 ft. (3m)			AE1109-ND	14.59	12.82	11.50	AK734-3
	16.40 ft. (5m)			AE1110-ND	20.53	18.04	16.18	AK735-5
8	5.90 ft. (1.8m)	25	D-Sub 25-Pin Male to D-Sub 25-Pin Male, Extension	AE1112-ND	10.63	9.34	8.38	AK736-1.8
	9.84 ft. (3m)			AE1113-ND	13.93	12.24	10.98	AK737-3
	16.40 ft. (5m)			AE1114-ND	20.66	18.16	16.28	AK738-5
			Snap-Hood Connection for 25-Pin Interface					
9	6.56 ft. (2m)	25	D-Sub 25-Pin Male to D-Sub 25-Pin Male, Snap-Hoods	AE1111-ND	3.83	3.37	3.02	AK401-2
			Molded Extension for 25-Pin Interfaces					
10	6.56 ft. (2m)	25	2x D-Sub 25-Pin Male to Male	AE1010-ND	6.93	6.09	5.46	AK137-2
	9.84 ft. (3m)			AE1011-ND	8.58	7.54	6.76	AK162-3
	6.56 ft. (2m)	25	2x D-Sub 25-Pin Male to Female	AE1012-ND	7.06	6.21	5.57	AK135-2
	9.84 ft. (3m)			AE1013-ND	8.58	7.54	6.76	AK166-3
	6.56 ft. (2m)	25	2x D-Sub 25-Pin Female to Female	AE1014-ND	7.23	6.36	5.70	AK133-2
	9.84 ft. (3m)			AE1015-ND	10.03	8.82	7.91	AK170-3
			Molded Extension for 9-Pin Interfaces					
11	6.56 ft. (2m)	9	2x D-Sub 9-Pin Male to Male	AE1018-ND	5.35	4.70	4.22	AK129-2
	9.84 ft. (3m)			AE1019-ND	6.01	5.28	4.74	AK174-3
	6.56 ft. (2m)	9	2x D-Sub 9-Pin Male to Female	AE1020-ND	5.35	4.70	4.22	AK131-2
	9.84 ft. (3m)			AE1021-ND	6.01	5.28	4.74	AK178-3
	6.56 ft. (2m)	9	2x D-Sub 9-Pin Female to Female	AE1016-ND	5.35	4.70	4.22	AK152-2
	9.84 ft. (3m)			AE1017-ND	6.11	5.37	4.81	AK182-3
			VGA Monitor Extension Cable - IBM PS/2					
12	6.56 ft. (2m)	—	2x H/D D-Sub 15-Pin Male to Female	AE1022-ND	6.01	5.28	4.74	AK322-2
			Molded VGA to 5 x BNC, Monitor Cable					
—	6.56 ft. (2m)	—	HD D-Sub 15-Pin Male to 5 x BBNC Male	AE1116-ND	17.23	15.14	13.58	AK553-2
			Molded Premium VGA Monitor Extension Cable					
13	5.90 ft. (1.8m)	—	HD D-Sub 15-Pin Male to HD D-Sub 15-Pin Female	AE1117-ND	10.13	8.91	7.99	AK3220-1.8
			IBM PC-XT/AT Keyboard Extension					
14	6.56 ft. (2m)	5	5-Pin Standard Din Male to Female	AE1023-ND	4.29	3.77	3.38	AK306-2
	16.40 ft. (5m)			AE1024-ND	8.75	7.69	6.89	AK307-5
			Molded PS/2 Keyboard Extension					
15	6.56 ft. (2m)	6	6-Pin Mini Din Male to Female, Spiral	AE1025-ND	5.84	5.14	4.61	AK323-2
	16.40 ft. (5m)			AE1026-ND	10.73	9.43	8.45	AK528-5
16	6.56 ft. (2m)	6	MiniDIN 6-Pin Male to MiniDIN 6-Pin Female, Straight	AE1118-ND	2.48	2.18	1.95	AK323/G-2

tyco AMP Electronics

.100" (2.54mm) Flat Flex Cable Assemblies

.100 (2.54mm) Flat Flex Cable Material: • Conductors: Un-plated copper per QQ-C-502 • Insulation: Flame retardant polyester film **Performance Characteristics:** • Current Rating: 2 amperes (28AWG equivalent) • Voltage Rating: 300 volts • Temperature Rating: -20°C ~ 105°C • Insulation Resistance: 5000 megohms (minimum) • Insulation Flammability: Polyester, self-extinguishing per UL Flame Test VW-1

Solder Tab to Solder Tab

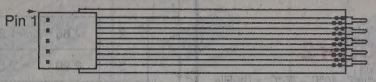


Solder Tab pin

No. of Contacts	Length in.(mm)	Digi-Key Part No.	Pricing 1	10	100
2	2 (50.80)	A9AAT-0202F-ND	.64	5.22	38.43
	3 (76.20)	A9AAT-0203F-ND	.76	6.16	45.36
	4 (101.60)	A9AAT-0204F-ND	.87	7.10	52.29
	5 (127.00)	A9AAT-0205F-ND	.99	8.04	59.22
	6 (152.40)	A9AAT-0206F-ND	1.10	8.98	66.15
	8 (203.20)	A9AAT-0208F-ND	1.33	10.83	79.80
3	2 (50.80)	A9AAT-0302F-ND	.83	6.75	49.77
	3 (76.20)	A9AAT-0303F-ND	.95	7.72	56.91
	4 (101.60)	A9AAT-0304F-ND	1.07	8.72	64.26
	5 (127.00)	A9AAT-0305F-ND	1.19	9.72	71.61
	6 (152.40)	A9AAT-0306F-ND	1.31	10.69	78.75
	8 (203.20)	A9AAT-0308F-ND	1.56	12.68	93.45
4	2 (50.80)	A9AAT-0402F-ND	.99	8.09	59.64
	3 (76.20)	A9AAT-0403F-ND	1.12	9.12	67.20
	4 (101.60)	A9AAT-0404F-ND	1.25	10.15	74.76
	5 (127.00)	A9AAT-0405F-ND	1.37	11.17	82.32
	6 (152.40)	A9AAT-0406F-ND	1.50	12.20	89.88
	8 (203.20)	A9AAT-0408F-ND	1.75	14.25	105.00
5	2 (50.80)	A9AAT-0502F-ND	1.14	9.32	68.67
	3 (76.20)	A9AAT-0503F-ND	1.27	10.37	76.44
	4 (101.60)	A9AAT-0504F-ND	1.40	11.43	84.21
	5 (127.00)	A9AAT-0505F-ND	1.54	12.51	92.19
	6 (152.40)	A9AAT-0506F-ND	1.67	13.57	99.96
	8 (203.20)	A9AAT-0508F-ND	1.93	15.70	115.71
6	2 (50.80)	A9AAT-0602F-ND	1.30	10.57	77.91
	3 (76.20)	A9AAT-0603F-ND	1.45	11.77	86.73
	4 (101.60)	A9AAT-0604F-ND	1.59	12.94	95.34
	5 (127.00)	A9AAT-0605F-ND	1.74	14.14	104.16
	6 (152.40)	A9AAT-0606F-ND	1.88	15.33	112.98
	8 (203.20)	A9AAT-0608F-ND	2.18	17.73	130.62
8	2 (50.80)	A9AAT-0802F-ND	1.63	13.28	97.86
	3 (76.20)	A9AAT-0803F-ND	1.81	14.76	108.78
	4 (101.60)	A9AAT-0804F-ND	1.99	16.22	119.49
	5 (127.00)	A9AAT-0805F-ND	2.17	17.67	130.20
	6 (152.40)	A9AAT-0806F-ND	2.35	19.12	140.91
	8 (203.20)	A9AAT-0808F-ND	2.71	22.06	162.54
9	2 (50.80)	A9AAT-0902F-ND	1.81	14.71	108.36
	3 (76.20)	A9AAT-0903F-ND	2.03	16.53	121.80
	4 (101.60)	A9AAT-0904F-ND	2.25	18.35	135.24
	5 (127.00)	A9AAT-0905F-ND	2.48	20.18	148.68
	6 (152.40)	A9AAT-0906F-ND	2.70	22.00	162.12
	8 (203.20)	A9AAT-0908F-ND	3.15	25.65	189.00
10	2 (50.80)	A9AAT-1002F-ND	1.89	15.42	113.61
	3 (76.20)	A9AAT-1003F-ND	2.12	17.27	127.26
	4 (101.60)	A9AAT-1004F-ND	2.35	19.12	140.91
	5 (127.00)	A9AAT-1005F-ND	2.58	20.98	154.56
	6 (152.40)	A9AAT-1006F-ND	2.81	22.86	168.42
	8 (203.20)	A9AAT-1008F-ND	3.26	26.56	195.72
11	2 (50.80)	A9AAT-1102F-ND	1.97	16.07	118.44
	3 (76.20)	A9AAT-1103F-ND	2.21	17.98	132.51
	4 (101.60)	A9AAT-1104F-ND	2.44	19.86	146.37
	5 (127.00)	A9AAT-1105F-ND	2.67	21.77	160.44
	6 (152.40)	A9AAT-1106F-ND	2.91	23.66	174.30
	8 (203.20)	A9AAT-1108F-ND	3.37	27.47	202.44
12	2 (50.80)	A9AAT-1202F-ND	2.27	18.50	136.29
	3 (76.20)	A9AAT-1203F-ND	2.59	21.06	155.19
	4 (101.60)	A9AAT-1204F-ND	2.90	23.60	173.88
	5 (127.00)	A9AAT-1205F-ND	3.21	26.16	192.78
	6 (152.40)	A9AAT-1206F-ND	3.52	28.70	211.47
	8 (203.20)	A9AAT-1208F-ND	4.15	33.80	249.06
13	2 (50.80)	A9AAT-1302F-ND	2.42	19.69	145.11
	3 (76.20)	A9AAT-1303F-ND	2.74	22.29	164.22
	4 (101.60)	A9AAT-1304F-ND	3.06	24.88	183.33
	5 (127.00)	A9AAT-1305F-ND	3.37	27.47	202.44
	6 (152.40)	A9AAT-1306F-ND	3.69	30.04	221.34
	8 (203.20)	A9AAT-1308F-ND	4.33	35.23	259.56
14	2 (50.80)	A9AAT-1402F-ND	2.57	20.89	153.93
	3 (76.20)	A9AAT-1403F-ND	2.89	23.51	173.25
	4 (101.60)	A9AAT-1404F-ND	3.21	26.13	192.57
	5 (127.00)	A9AAT-1405F-ND	3.53	28.76	211.89
	6 (152.40)	A9AAT-1406F-ND	3.86	31.41	231.42
	8 (203.20)	A9AAT-1408F-ND	4.50	36.65	270.06
15	2 (50.80)	A9AAT-1502F-ND	2.72	22.12	162.96
	3 (76.20)	A9AAT-1503F-ND	3.05	24.80	182.70
	4 (101.60)	A9AAT-1504F-ND	3.37	27.47	202.44
	5 (127.00)	A9AAT-1505F-ND	3.70	30.15	222.18
	6 (152.40)	A9AAT-1506F-ND	4.03	32.83	241.92
	8 (203.20)	A9AAT-1508F-ND	4.69	38.19	281.40
16	2 (50.80)	A9AAT-1602F-ND	2.86	23.28	171.57
	3 (76.20)	A9AAT-1603F-ND	3.20	26.02	191.73
	4 (101.60)	A9AAT-1604F-ND	3.53	28.73	211.68
	5 (127.00)	A9AAT-1605F-ND	3.86	31.46	231.84
	6 (152.40)	A9AAT-1606F-ND	4.20	34.17	251.79
	8 (203.20)	A9AAT-1608F-ND	4.87	39.62	291.90
18	2 (50.80)	A9AAT-1802F-ND	3.60	29.33	216.09
	3 (76.20)	A9AAT-1803F-ND	4.17	33.94	250.11
	4 (101.60)	A9AAT-1804F-ND	4.74	38.56	284.13
	5 (127.00)	A9AAT-1805F-ND	5.30	43.18	318.15
	6 (152.40)	A9AAT-1806F-ND	5.87	47.77	351.96
	8 (203.20)	A9AAT-1808F-ND	7.00	57.00	420.00
20	2 (50.80)	A9AAT-2002F-ND	3.90	31.75	233.94
	3 (76.20)	A9AAT-2003F-ND	4.48	36.45	268.59
	4 (101.60)	A9AAT-2004F-ND	5.05	41.15	303.24
	5 (127.00)	A9AAT-2005F-ND	5.63	45.86	337.89
	6 (152.40)	A9AAT-2006F-ND	6.21	50.56	372.54
	8 (203.20)	A9AAT-2008F-ND	7.37	59.99	442.05

Receptacle Housing to Solder Tab

Mates with single row .025 (.64mm) square pin, .100 (2.54mm) headers.



Housing Contacts — Material and Finish: Phosphor bronze; plated gold duplex or bright tin-lead overall. Duplex plated

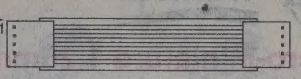
A9BAG – □□□□F-ND 15µ gold or 30µ gold on mating area.
A9BAA – □□□□F-ND = 30µ gold

No. of Contacts	Length in.(mm)	Digi-Key Part No.	Pricing 1	10	100
2	2 (50.80)	A9BAG-0202F-ND	1.94	15.76	116.13
	3 (76.20)	A9BAG-0203F-ND	2.05	16.70	123.06
	4 (101.60)	A9BAG-0204F-ND	2.17	17.64	129.99
	5 (127.00)	A9BAG-0205F-ND	2.28	18.55	136.71
	6 (152.40)	A9BAG-0206F-ND	2.39	19.49	143.64
	8 (203.20)	A9BAG-0208F-ND	2.63	21.38	157.50
3	2 (50.80)	A9BAG-0302F-ND	2.23	18.15	133.77
	3 (76.20)	A9BAG-0303F-ND	2.35	19.15	141.12
	4 (101.60)	A9BAG-0304F-ND	2.47	20.12	148.26
	5 (127.00)	A9BAG-0305F-ND	2.59	21.12	155.61
	6 (152.40)	A9BAG-0306F-ND	2.71	22.09	162.75
	8 (203.20)	A9BAG-0308F-ND	2.96	24.08	177.45
4	2 (50.80)	A9BAG-0402F-ND	2.52	20.49	150.99
	3 (76.20)	A9BAG-0403F-ND	2.64	21.52	158.55
	4 (101.60)	A9BAG-0404F-ND	2.77	22.54	166.11
	5 (127.00)	A9BAG-0405F-ND	2.89	23.57	173.67
	6 (152.40)	A9BAG-0406F-ND	3.02	24.60	181.23
	8 (203.20)	A9BAG-0408F-ND	3.27	26.65	196.35
5	2 (50.80)	A9BAG-0502F-ND	2.79	22.69	167.16
	3 (76.20)	A9BAG-0503F-ND	2.92	23.74	174.93
	4 (101.60)	A9BAG-0504F-ND	3.05	24.82	182.91
	5 (127.00)	A9BAG-0505F-ND	3.18	25.88	190.68
	6 (152.40)	A9BAG-0506F-ND	3.31	26.93	198.45
	8 (203.20)	A9BAG-0508F-ND	3.57	29.07	214.20
6	2 (50.80)	A9BAG-0602F-ND	3.07	25.02	184.38
	3 (76.20)	A9BAG-0603F-ND	3.22	26.19	192.99
	4 (101.60)	A9BAG-0604F-ND	3.36	27.39	201.81
	5 (127.00)	A9BAG-0605F-ND	3.51	28.59	210.63
	6 (152.40)	A9BAG-0606F-ND	3.66	29.78	219.45
	8 (203.20)	A9BAG-0608F-ND	3.95	32.18	237.09
8	2 (50.80)	A9BAG-0802F-ND	3.66	29.81	219.66
	3 (76.20)	A9BAG-0803F-ND	3.84	31.26	230.37
	4 (101.60)	A9BAG-0804F-ND	4.02	32.75	241.29
	5 (127.00)	A9BAG-0805F-ND	4.20	34.20	252.00
	6 (152.40)	A9BAG-0806F-ND	4.38	35.65	262.71
	8 (203.20)	A9BAG-0808F-ND	4.74	38.59	284.34
9	2 (50.80)	A9BAG-0902F-ND	4.00	32.58	240.03
	3 (76.20)	A9BAG-0903F-ND	4.22	34.40	253.47
	4 (101.60)	A9BAG-0904F-ND	4.45	36.22	266.91
	5 (127.00)	A9BAG-0905F-ND	4.67	38.05	280.35
	6 (152.40)	A9BAG-0906F-ND	4.89	39.84	293.58
	8 (203.20)	A9BAG-0908F-ND	5.34	43.49	320.46
10	2 (50.80)	A9BAG-1002F-ND	4.24	34.54	254.52
	3 (76.20)	A9BAG-1003F-ND	4.47	36.39	268.17
	4 (101.60)	A9BAG-1004F-ND	4.70	38.25	281.82
	5 (127.00)	A9BAG-1005F-ND	4.92	40.10	295.47
	6 (152.40)	A9BAG-1006F-ND	5.16	41.98	309.33
	8 (203.20)	A9BAG-1008F-ND	5.61	45.69	336.63
11	2 (50.80)	A9BAG-1102F-ND	4.48	36.48	268.80
	3 (76.20)	A9BAG-1103F-ND	4.71	38.39	282.87
	4 (101.60)	A9BAG-1104F-ND	4.95	40.30	296.94
	5 (127.00)	A9BAG-1105F-ND	5.18	42.18	310.80
	6 (152.40)	A9BAG-1106F-ND	5.41	44.09	324.87
	8 (203.20)	A9BAG-1108F-ND	5.88	47.88	352.80
12	2 (50.80)	A9BAG-1202F-ND	4.93	40.13	295.68
	3 (76.20)	A9BAG-1203F-ND	5.24	42.66	314.37
	4 (101.60)	A9BAG-1204F-ND	5.55	45.23	333.27
	5 (127.00)	A9BAG-1205F-ND	5.87	47.77	351.96
	6 (152.40)	A9BAG-1206F-ND	6.18	50.33	370.86
	8 (203.20)	A9BAG-1208F-ND	6.81	55.43	408.45
13	2 (50.80)	A9BAG-1302F-ND	5.20	42.35	312.06
	3 (76.20)	A9BAG-1303F-ND	5.52	44.94	331.17
	4 (101.60)	A9BAG-1304F-ND	5.84	47.54	350.28
	5 (127.00)	A9BAG-1305F-ND	6.16	50.13	369.39
	6 (152.40)	A9BAG-1306F-ND	6.48	52.73	388.50
	8 (203.20)	A9BAG-1308F-ND	7.11	57.91	426.72
14	2 (50.80)	A9BAG-1402F-ND	5.47	44.57	328.44
	3 (76.20)	A9BAG-1403F-ND	5.80	47.20	347.76
	4 (101.60)	A9BAG-1404F-ND	6.12	49.85	367.29
	5 (127.00)	A9BAG-1405F-ND	6.44	52.47	386.61
	6 (152.40)	A9BAG-1406F-ND	6.77	55.09	405.93
	8 (203.20)	A9BAG-1408F-ND	7.41	60.36	444.78
15	2 (50.80)	A9BAG-1502F-ND	5.96	48.56	357.84
	3 (76.20)	A9BAG-1503F-ND	6.29	51.24	377.58
	4 (101.60)	A9BAG-1504F-ND	6.62	53.92	397.32
	5 (127.00)	A9BAG-1505F-ND	6.95	56.60	417.06
	6 (152.40)	A9BAG-1506F-ND	7.28	59.28	436.80
	8 (203.20)	A9BAG-1508F-ND	7.94	64.64	476.28
16	2 (50.80)	A9BAG-1602F-ND	6.31	51.39	378.63
	3 (76.20)	A9BAG-1603F-ND	6.65	54.12	398.79
	4 (101.60)	A9BAG-1604F-ND	6.98	56.83	418.74
	5 (127.00)	A9BAG-1605F-ND	7.32	59.57	438.90
	6 (152.40)	A9BAG-1606F-ND	7.65	62.27	458.85
	8 (203.20)	A9BAG-1608F-ND	8.32	67.72	498.96
18	2 (50.80)	A9BAG-1802F-ND	7.46	60.73	447.51
	3 (76.20)	A9BAG-1803F-ND	8.03	65.35	481.53
	4 (101.60)	A9BAG-1804F-ND	8.59	69.97	515.55
	5 (127.00)	A9BAG-1805F-ND	9.16	74.58	549.57
	6 (152.40)	A9BAG-1806F-ND	9.72	79.17	583.38
	8 (203.20)	A9BAG-1808F-ND	10.86	88.41	651.42
20	2 (50.80)	A9BAG-2002F-ND	8.16	66.43	489.51
	3 (76.20)	A9BAG-2003F-ND	8.74	71.16	524.37
	4 (101.60)	A9BAG-2004F-ND	9.32	75.87	559.02
	5 (127.00)	A9BAG-2005F-ND	9.89	80.57	593.67
	6 (152.40)	A9BAG-2006F-ND	10.47	85.27	628.32
	8 (203.20)	A9BAG-2008F-ND	11.63	94.71	697.83

Call for complete part number and pricing.

Receptacle Housing to Receptacle Housing

Mates with single row .025 (.64mm) square pin, .100 (2.54mm) headers.



Plain Style Housing — Material: Black thermoplastic, flame retardant, 94V-0 rated. Duplex plated contacts.
A9BBG – □□□□F-ND = 15µ gold, A9BBA – □□□□F-ND = 30µ gold

No. of Contacts	Length in.(mm)	Digi-Key Part No.	Pricing 1	10	100
2	2 (50.80)	A9BBG-0202F-ND	3.23	26.31	193.83
	3 (76.20)	A9BBG-0203F-ND	3.35	27.25	200.76
	4 (101.60)	A9BBG-0204F-ND	3.46	28.16	207.48
	5 (127.00)	A9BBG-0205F-ND	3.57	29.10	214.41
	6 (152.40)	A9BBG-0206F-ND	3.69	30.04	221.34
	8 (203.20)	A9BBG-0208F-ND	3.92	31.92	235.20
3	2 (50.80)	A9BBG-0302F-ND	3.63	29.55	217.77
	3 (76.20)	A9BBG-0303F-ND	3.75	30.55	225.12
	4 (101.60)	A9BBG-0304F-ND	3.87	31.52	232.26
	5 (127.00)	A9BBG-0305F-ND	3.99	32.52	239.61
	6 (152.40)	A9BBG-0306F-ND	4.12	33.52	246.96
	8 (203.20)	A9BBG-0308F-ND	4.36	35.48	261.45
4	2 (50.80)	A9BBG-0402F-ND	4.04	32.86	242.13
	3 (76.20)	A9BBG-0403F-ND	4.16	33.89	249.69
	4 (101.60)	A9BBG-0404F-ND	4.29	34.91	257.25
	5 (127.00)	A9BBG-0405F-ND	4.41	35.94	264.81
	6 (152.40)	A9BBG-0406F-ND	4.54	36.96	272.37
	8 (203.20)	A9BBG-0408F-ND	4.79	39.02	287.49
5	2 (50.80)	A9BBG-0502F-ND	4.43	36.08	265.86
	3 (76.20)	A9BBG-0503F-ND	4.56	37.14	273.63
	4 (101.60)	A9BBG-0504F-ND	4.69	38.19	281.40
	5 (127.00)	A9BBG-0505F-ND	4.82	39.27	289.38
	6 (152.40)	A9BBG-0506F-ND	4.95	40.33	297.15
	8 (203.20)	A9BBG-0508F-ND	5.22	42.47	312.90
6	2 (50.80)	A9BBG-0602F-ND	4.84	39.44	290.64
	3 (76.20)	A9BBG-0603F-ND	4.99	40.64	299.46
	4 (101.60)	A9BBG-0604F-ND	5.14	41.84	308.28
	5 (127.00)	A9BBG-0605F-ND	5.29	43.04	317.10
	6 (152.40)	A9BBG-0606F-ND	5.43	44.23	325.92
	8 (203.20)	A9BBG-0608F-ND	5.73	46.63	343.56
8	2 (50.80)	A9BBG-0802F-ND	5.69	46.34	341.46
	3 (76.20)	A9BBG-0803F-ND	5.87	47.79	352.17
	4 (101.60)	A9BBG-0804F-ND	6.05	49.25	362.88
	5 (127.00)	A9BBG-0805F-ND	6.23	50.73	373.80
	6 (152.40)	A9BBG-0806F-ND	6.41	52.18	384.51
	8 (203.20)	A9BBG-0808F-ND	6.77	55.12	406.14
9	2 (50.80)	A9BBG-0902F-ND	6.19	50.42	371.49
	3 (76.20)	A9BBG-0903F-ND	6.42	52.24	384.93
	4 (101.60)	A9BBG-0904F-ND	6.64	54.06	398.37
	5 (127.00)	A9BBG-0905F-ND	6.86	55.89	411.81
	6 (152.40)	A9BBG-0906F-ND	7.09	57.71	425.25
	8 (203.20)	A9BBG-0908F-ND	7.54	61.36	452.13
10	2 (50.80)	A9BBG-1002F-ND	6.59	53.67	395.43
	3 (76.20)	A9BBG-1003F-ND	6.82	55.52	409.08
	4 (101.60)	A9BBG-1004F-ND	7.05	57.37	422.73
	5 (127.00)	A9BBG-1005F-ND	7.27	59.22	436.38
	6 (152.40)	A9BBG-1006F-ND	7.50	61.10	450.24
	8 (203.20)	A9BBG-1008F-ND	7.96	64.81	477.54
11	2 (50.80)	A9BBG-1102F-ND	6.99	56.91	419.37
	3 (76.20)	A9BBG-1103F-ND	7.22	58.80	433.23
	4 (101.60)	A9BBG-1104F-ND	7.46	60.71	447.30
	5 (127.00)	A9BBG-1105F-ND	7.69	62.61	461.37
	6 (152.40)	A9BBG-1106F-ND	7.92	64.50	475.23
	8 (203.20)	A9BBG-1108F-ND	8.39	68.29	503.16
12	2 (50.80)	A9BBG-1202F-ND	7.58	61.73	454.86
	3 (76.20)	A9BBG-1203F-ND	7.90	64.30	473.76
	4 (101.60)	A9BBG-1204F-ND	8.21	66.86	492.66
	5 (127.00)	A9BBG-1205F-ND	8.52	69.40	511.35
	6 (152.40)	A9BBG-1206F-ND	8.84	71.96	530.25
	8 (203.20)	A9BBG-1208F-ND	9.46	77.06	567.84
13	2 (50.80)	A9BBG-1302F-ND	7.99	65.04	479.22
	3 (76.20)	A9BBG-1303F-ND	8.31	67.63	498.33
	4 (101.60)	A9BBG-1304F-ND	8.62	70.22	517.44
	5 (127.00)	A9BBG-1305F-ND	8.94	72.82	536.55
	6 (152.40)	A9BBG-1306F-ND	9.26	75.41	555.66
	8 (203.20)	A9BBG-1308F-ND	9.89	80.57	593.67
14	2 (50.80)	A9BBG-1402F-ND	8.39	68.29	503.16
	3 (76.20)	A9BBG-1403F-ND	8.71	70.91	522.48
	4 (101.60)	A9BBG-1404F-ND	9.03	73.53	541.80
	5 (127.00)	A9BBG-1405F-ND	9.35	76.15	561.12
	6 (152.40)	A9BBG-1406F-ND	9.68	78.80	580.65
	8 (203.20)	A9BBG-1408F-ND	10.32	84.05	619.29
15	2 (50.80)	A9BBG-1502F-ND	9.21	75.01	552.72
	3 (76.20)	A9BBG-1503F-ND	9.54	77.69	572.46
	4 (101.60)	A9BBG-1504F-ND	9.87	80.37	592.20
	5 (127.00)	A9BBG-1505F-ND	10.20	83.05	611.94
	6 (152.40)	A9BBG-1506F-ND	10.53	85.73	631.68
	8 (203.20)	A9BBG-1508F-ND	11.19	91.09	671.16
16	2 (50.80)	A9BBG-1602F-ND	9.77	79.52	585.90
	3 (76.20)	A9BBG-1603F-ND	10.10	82.22	605.85
	4 (101.60)	A9BBG-1604F-ND	10.43	84.93	625.80
	5 (127.00)	A9BBG-1605F-ND	10.77	87.67	645.96
	6 (152.40)	A9BBG-1606F-ND	11.10	90.37	665.91
	8 (203.20)	A9BBG-1608F-ND	11.77	95.82	706.02
18	2 (50.80)	A9BBG-1802F-ND	11.32	92.14	678.93
	3 (76.20)	A9BBG-1803F-ND	11.88	96.76	712.95
	4 (101.60)	A9BBG-1804F-ND	12.45	101.37	746.97
	5 (127.00)	A9BBG-1805F-ND	13.02	105.99	780.99
	6 (152.40)	A9BBG-1806F-ND	13.58	110.58	814.80
	8 (203.20)	A9BBG-1808F-ND	14.71	119.81	882.84
20	2 (50.80)	A9BBG-2002F-ND	12.42	101.15	745.29
	3 (76.20)	A9BBG-2003F-ND	13.00	105.85	779.94
	4 (101.60)	A9BBG-2004F-ND	13.58	110.58	814.80
	5 (127.00)	A9BBG-2005F-ND	14.16	115.28	849.45
	6 (152.40)	A9BBG-2006F-ND	14.74	119.99	884.10
	8 (203.20)	A9BBG-2008F-ND	15.89	129.39	953.40

Call for complete part number and pricing.

A

molex Waldom ELECTRONICS

Micro-Miniature 1.25mm Connectors

A

1.25mm CONNECTORS: Physical Specifications: • Housing: PBTP, UL 94V-0 • Temperature: -40°C ~ 85°C • UL File No.: E29179 CSA File No.: LR19980 **1.25mm CRIMP TERMINAL: Electrical Specifications:** • Voltage: 125V • Current: 1.0A (0.8A for 32AWG) • Contact Resistance: 20mΩ max. • Dielectric Withstanding Voltage: 250V AC/1 min. • Insulation Resistance: 100MΩ min. **Physical Specifications:** • Contact: Phosphor Bronze • Plating: Tin • Wire Range: 26 ~ 32 AWG • Insulation Range: 1.00mm dia. max. • Strip Length: 1.40 ~ 1.90mm

Fig. 1 – 1.25mm Receptacle Housing

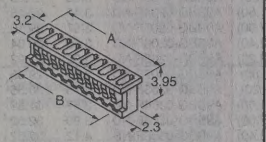


Fig. 2 – 1.25mm Straight Header

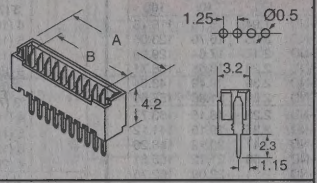


Fig. 3 – 1.25mm Right Angle Header

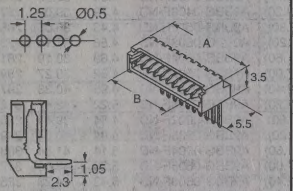


Fig. 4 – 1.25mm SMT Straight Header

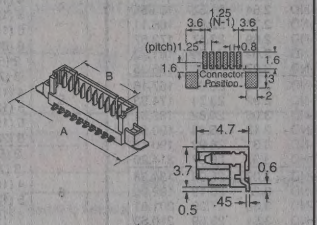


Fig. 5 – 1.25mm SMT Right Angle Header

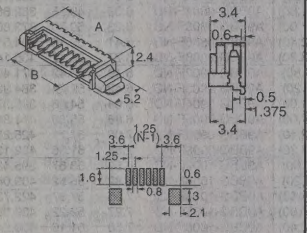


Fig. 6 – Crimp Terminal (Female)

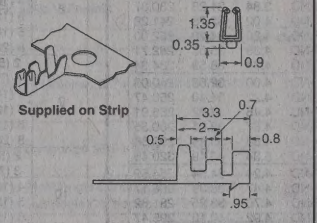


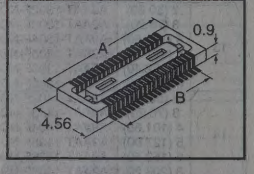
Fig.	Cir-cuits	Dimension (mm) A	B	Digi-Key Part No.	Price Each 1	10	100	500	Molex Part No.
				Receptacle Housing					
1	2	4.25	1.25	WM1720-ND	.39	.33	.24	.19	51021-0200
	3	5.50	2.50	WM1721-ND	.44	.37	.27	.21	51021-0300
	4	6.75	3.75	WM1722-ND	.49	.44	.30	.24	51021-0400
	5	8.00	5.00	WM1723-ND	.55	.49	.33	.26	51021-0500
	6	9.25	6.25	WM1724-ND	.60	.50	.36	.29	51021-0600
	7	10.50	7.50	WM1725-ND	.65	.54	.39	.31	51021-0700
	8	11.75	8.75	WM1726-ND	.70	.62	.42	.33	51021-0800
	9	13.00	10.00	WM1727-ND	.75	.67	.45	.36	51021-0900
	10	14.25	11.25	WM1728-ND	.80	.66	.48	.38	51021-1000
	11	15.50	12.50	WM1729-ND	.85	.70	.50	.40	51021-1100
	12	16.75	13.75	WM1730-ND	.90	.74	.53	.43	51021-1200
	13	18.00	15.00	WM17000-ND	.95	.84	.56	.45	51021-1300
	14	19.25	16.25	WM17001-ND	1.00	.88	.59	.47	51021-1400
	15	20.50	17.50	WM17002-ND	1.04	.92	.62	.49	51021-1500
				Straight Headers					
2	2	4.25	1.25	WM1731-ND	.49	.41	.29	.23	53047-0210
	3	5.50	2.50	WM1732-ND	.59	.53	.35	.28	53047-0310
	4	6.75	3.75	WM1733-ND	.70	.62	.42	.34	53047-0410
	5	8.00	5.00	WM1734-ND	.80	.67	.48	.38	53047-0510
	6	9.25	6.25	WM1735-ND	.92	.76	.55	.44	53047-0610
	7	10.50	7.50	WM1736-ND	1.12	.93	.66	.53	53047-0710
	8	11.75	8.75	WM1737-ND	1.15	.95	.68	.55	53047-0810
	9	13.00	10.00	WM1738-ND	1.26	1.11	.74	.60	53047-0910
	10	14.25	11.25	WM1739-ND	1.46	1.29	.86	.69	53047-1010
	11	15.50	12.50	WM1740-ND	1.41	1.25	.84	.67	53047-1110
	12	16.75	13.75	WM1741-ND	1.60	1.42	.95	.76	53047-1210
	13	18.00	15.00	WM17003-ND	1.71	1.51	1.01	.81	53047-1310
	14	19.25	16.25	WM17004-ND	1.83	1.62	1.08	.87	53047-1410
	15	20.50	17.50	WM17005-ND	1.94	1.71	1.15	.92	53047-1510
				Right Angle Headers					
3	2	4.25	1.25	WM1742-ND	.56	.50	.33	.27	53048-0210
	3	5.50	2.50	WM1743-ND	.67	.60	.40	.32	53048-0310
	4	6.75	3.75	WM1744-ND	.78	.70	.47	.37	53048-0410
	5	8.00	5.00	WM1745-ND	.98	.81	.58	.46	53048-0510
	6	9.25	6.25	WM1746-ND	1.02	.90	.60	.48	53048-0610
	7	10.50	7.50	WM1747-ND	1.13	1.00	.67	.54	53048-0710
	8	11.75	8.75	WM1748-ND	1.24	1.10	.73	.59	53048-0810
	9	13.00	10.00	WM1749-ND	1.36	1.20	.80	.64	53048-0910
	10	14.25	11.25	WM1750-ND	1.47	1.30	.87	.70	53048-1010
	11	15.50	12.50	WM1751-ND	1.60	1.41	.94	.76	53048-1110
	12	16.75	13.75	WM1752-ND	1.79	1.58	1.06	.85	53048-1210
	13	18.00	15.00	WM17006-ND	1.71	1.51	1.01	.81	53048-1310
	14	19.25	16.25	WM17007-ND	2.02	1.79	1.19	.96	53048-1410
	15	20.50	17.50	WM17008-ND	1.95	1.72	1.15	.92	53048-1510

Fig.	Cir-cuits	Dimension (mm) A	B	Digi-Key Part No.	Price Each 1	10	100	500	Molex Part No.
				SMT Straight Headers — Lead Free					
4	2	7.65	1.25	WM7606CT-ND WM7606TR-ND	1.37	1.21 534.00/1,000	.81	.65	53398-0271
	3	8.90	2.50	WM7607CT-ND WM7607TR-ND	1.63	1.45 638.00/1,000	.97	.77	53398-0371
	4	10.15	3.75	WM7608CT-ND WM7608TR-ND	1.72	1.53 673.00/1,000	1.02	.82	53398-0471
	5	11.40	5.00	WM7609CT-ND WM7609TR-ND	1.91	1.69 747.00/1,000	1.13	.91	53398-0571
	6	12.65	6.25	WM7610CT-ND WM7610TR-ND	2.06	1.82 805.00/1,000	1.22	.98	53398-0671
	7	13.90	7.50	WM7611CT-ND WM7611TR-ND	2.23	1.97 871.00/1,000	1.32	1.05	53398-0771
	8	15.15	8.75	WM7612CT-ND WM7612TR-ND	2.37	2.09 924.00/1,000	1.40	1.12	53398-0871
	9	16.40	10.00	WM7613CT-ND WM7613TR-ND	2.56	2.26 1001.00/1,000	1.51	1.21	53398-0971
	10	17.65	11.25	WM7614CT-ND WM7614TR-ND	2.72	2.40 1061.00/1,000	1.60	1.28	53398-1071
	11	18.90	12.50	WM7615CT-ND WM7615TR-ND	2.89	2.55 1127.00/1,000	1.70	1.36	53398-1171
	12	20.15	13.75	WM7616CT-ND WM7616TR-ND	3.05	2.70 1193.00/1,000	1.80	1.44	53398-1271
	13	21.40	15.00	WM7617CT-ND WM7617TR-ND	3.27	2.89 1277.00/1,000	1.93	1.54	53398-1371
	14	22.65	16.25	WM7618CT-ND WM7618TR-ND	3.40	3.00 1328.00/1,000	2.00	1.60	53398-1471
	15	23.90	17.50	WM7619CT-ND WM7619TR-ND	3.48	3.08 1359.00/1,000	2.05	1.64	53398-1571
				SMT Right Angle Headers — Lead Free					
5	2	7.65	1.25	WM7620CT-ND WM7620TR-ND	1.43	1.27 560.00/1,000	.85	.68	53261-0271
	3	8.90	2.50	WM7621CT-ND WM7621TR-ND	1.64	1.45 642.00/1,000	.97	.78	53261-0371
	4	10.15	3.75	WM7622CT-ND WM7622TR-ND	1.80	1.59 702.00/1,000	1.06	.85	53261-0471
	5	11.40	5.00	WM7623CT-ND WM7623TR-ND	1.98	1.75 774.00/1,000	1.17	.94	53261-0571
	6	12.65	6.25	WM7624CT-ND WM7624TR-ND	2.13	1.88 832.00/1,000	1.26	1.01	53261-0671
	7	13.90	7.50	WM7625CT-ND WM7625TR-ND	2.29	2.03 895.00/1,000	1.35	1.08	53261-0771
	8	15.15	8.75	WM7626CT-ND WM7626TR-ND	2.43	2.15 950.00/1,000	1.44	1.15	53261-0871
	9	16.40	10.00	WM7627CT-ND WM7627TR-ND	2.63	2.32 1027.00/1,000	1.55	1.24	53261-0971
	10	17.65	11.25	WM7628CT-ND WM7628TR-ND	2.78	2.46 1087.00/1,000	1.64	1.32	53261-1071
	11	18.90	12.50	WM7629CT-ND WM7629TR-ND	2.95	2.61 1154.00/1,000	1.74	1.39	53261-1171
	12	20.15	13.75	WM7630CT-ND WM7630TR-ND	3.12	2.76 1219.00/1,000	1.84	1.47	53261-1271
	14	22.65	16.25	WM7631CT-ND WM7631TR-ND	3.47	3.06 1354.00/1,000	2.04	1.64	53261-1471
	15	23.90	17.50	WM7632CT-ND WM7632TR-ND	3.62	3.19 1412.00/1,000	2.13	1.71	53261-1571
6	Crimp Term., 28-32 AWG			WM1775-ND WM1775TR-ND	—	.07 575.00/25,000	.06	.05	50058-8000
	Crimp Term., 26-28 AWG			WM1142CT-ND WM1142TR-ND	—	.07 600.00/25,000	.05	.04	50079-8000
Prototype Crimp Tool (Molex)				WM9931-ND		214.65/1			63811-0200
Production Crimp Tool (Molex)				WM9932-ND		528.37/1			63811-0000
Contact Extraction Tool (Molex)				WM9933-ND		140.15/1			57072-6000
Housing Extraction Tool (Molex)				WM9934-ND		145.01/1			11-03-0045

HRS HIROSE ELECTRIC CO.,LTD.

DF30 Surface Mount Connectors - 0.4mm Pitch

Applications: • Cellular Phones • PDA's • Mobile Computers • Digital Cameras • Digital Video Cameras • Devices demanding high reliability connections in extremely limited spaces **Specifications:** • Operating Temperature Range: -35°C ~ 85°C • Voltage Rating: 30VAC • Current Rating: 0.3A **Electrical Characteristics:** • Contact Resistance: 100mΩ max. • Insulation Resistance: 50MΩ min. **Mechanical Characteristics:** • Mechanical Operation: 50 times insertions and extractions **Materials: Insulator:** • LCP, Black Finish, UL94V-0 **Contacts:** • Phosphor Bronze, Gold Plated Finish **Metal Fittings:** • Phosphor Bronze, Tin-Copper plated Finish



No. of Contacts	Dim. (mm) A	B	Digi-Key Part No.	Price Each 1	10	50	T&R Pricing 1,000*	Hirose Part No.
			Receptacles					
20	6.22	3.6	H3859CT-ND	1.54	1.26	1.02	539.98	DF30FC-20DS-0.4V(82)
24	7.02	4.4	H3860CT-ND	1.61	1.32	1.06	562.59	DF30FC-24DS-0.4V(82)
30	8.22	5.6	H3861CT-ND	1.73	1.42	1.14	605.15	DF30FC-30DS-0.4V(82)
34	9.02	6.4	H3862CT-ND	1.83	1.50	1.21	641.06	DF30FC-34DS-0.4V(82)
40	10.22	7.6	H3855CT-ND	1.76	1.47	1.22	720.86	DF30FC-40DS-0.4V(82)
50	12.22	9.6	H3863CT-ND	2.09	1.74	1.45	856.52	DF30FC-50DS-0.4V(82)
60	14.22	11.6	H3857CT-ND	2.35	1.96	1.63	962.92	DF30FC-60DS-0.4V(82)
			Headers					
20	5.14	3.6	H3864CT-ND	1.68	1.37	1.11	587.86	DF30FC-20DP-0.4V(82)
24	5.94	4.4	H3865CT-ND	1.76	1.44	1.16	617.12	DF30FC-24DP-0.4V(82)
30	7.14	5.6	H3866CT-ND	1.64	1.37	1.14	672.98	DF30FC-30DP-0.4V(82)
34	7.94	6.4	H3867CT-ND	1.73	1.44	1.20	708.89	DF30FC-34DP-0.4V(82)
40	9.14	7.6	H3856CT-ND	1.88	1.57	1.31	768.74	DF30FC-40DP-0.4V(82)
50	11.14	9.6	H3868CT-ND	2.25	1.88	1.56	921.69	DF30FC-50DP-0.4V(82)
60	13.14	11.6	H3858CT-ND	2.48	2.06	1.72	1014.79	DF30FC-60DP-0.4V(82)

*For Tape and Reel part number, change CT-ND to TR-ND.

More Product Available Online: www.digikey.com

Toll-Free: 1-800-344-4539 • Phone: 218-681-6674 • Fax: 218-681-3380

HRS HIROSE ELECTRIC CO.,LTD.

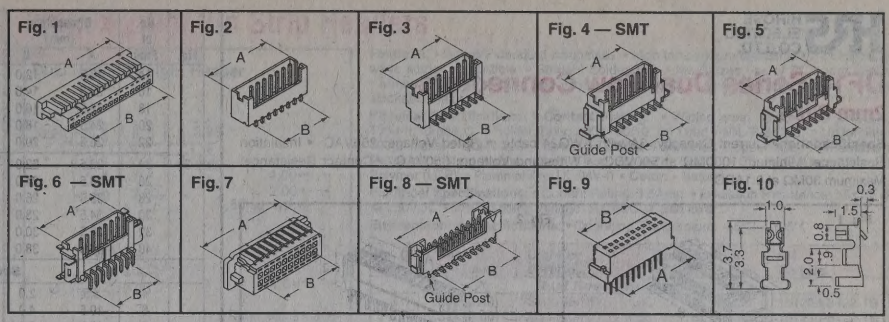
DF13 Series Connectors

1.25mm Pitch

DF13 Series is 1.25mm pitch, compact "PCB-to-Wire" Nylon Connectors best suited for high density applications requiring reduced cost production, and light-weight.

Electrical Specifications: • Current Capacity: 1A • Rated Voltage: AC150V • Insulation Resistance: Condition: DC100, Standard Value: Minimum 500MΩ • Withstanding Voltage: Condition: At specified value, Standard Value: AC500V. • Contact Resistance: Condition: At DC 0.1A, Standard Value: Max. 30mΩ.

Material & Finish: • Pin Header Insulator: Polyimide resin, beige, UL94V-0. • Pin Header Contact: Brass, tin plating and gold plating. • Pin Header Hardware: Brass, tin plating and gold plating. • Crimp Socket Insulator: Polyimide resin, beige, UL94V-0. • Crimp Socket Contact: Phosphor Bronze, tin plating and gold plating.



No. of Pins	Dim. (mm) A	B	Digi-Key Part No.	Pricing 1	25	100	Hirose Part No.
Fig. 1 — Single Row Crimp Socket							
2	4.15	1.25	H2179-ND	.21	2.24	6.33	DF13-2S-1.25C
3	5.40	2.50	H2180-ND	.30	3.13	7.75	DF13-3S-1.25C
4	6.65	3.75	H2181-ND	.34	3.71	10.45	DF13-4S-1.25C
5	7.90	5.00	H2182-ND	.28	3.35	10.00	DF13-5S-1.25C
6	9.15	6.25	H2183-ND	.29	3.52	10.50	DF13-6S-1.25C
7	10.40	7.50	H2184-ND	.30	3.60	10.75	DF13-7S-1.25C
8	11.65	8.75	H2185-ND	.47	5.61	16.75	DF13-8S-1.25C
9	12.90	10.00	H3300-ND	.55	6.53	19.50	DF13-9S-1.25C
10	14.15	11.25	H2186-ND	.50	5.95	17.75	DF13-10S-1.25C
11	15.40	12.50	H2187-ND	.53	6.37	19.00	DF13-11S-1.25C
12	16.65	13.75	H2188-ND	.55	6.53	19.50	DF13-12S-1.25C
14	19.15	16.25	H2189-ND	.47	7.05	22.09	DF13-14S-1.25C
15	20.40	17.50	H2259-ND	.51	6.11	18.25	DF13-15S-1.25C
Fig. 2 — Single Row, Vertical Pin Header — Tin Plating							
2	4.15	1.25	H2191-ND	.48	5.70	17.00	DF13-2P-1.25DSA
3	5.40	2.50	H2192-ND	.41	6.15	19.27	DF13-3P-1.25DSA
4	6.65	3.75	H2193-ND	.54	8.03	25.15	DF13-4P-1.25DSA
5	7.90	5.00	H2194-ND	.61	9.08	28.44	DF13-5P-1.25DSA
6	9.15	6.25	H2195-ND	.68	10.20	31.96	DF13-6P-1.25DSA
7	10.40	7.50	H2196-ND	.57	10.31	33.75	DF13-7P-1.25DSA
8	11.65	8.75	H2197-ND	.71	12.86	42.08	DF13-8P-1.25DSA
9	12.90	10.00	H3302-ND	.99	17.88	58.50	DF13-9P-1.25DSA(20)
10	14.15	11.25	H2198-ND	.82	14.85	48.60	DF13-10P-1.25DSA
11	15.40	12.50	H3303-ND	1.10	19.94	65.25	DF13-11P-1.25DSA(20)
12	16.65	13.75	H2320-ND	.87	15.81	51.75	DF13-12P-1.25DSA
13	17.90	15.00	H3304-ND	1.22	22.00	72.00	DF13-13P-1.25DSA(20)
14	19.15	16.25	H2321-ND	.97	17.53	57.38	DF13-14P-1.25DSA
15	20.40	17.50	H2322-ND	1.02	18.49	60.53	DF13-15P-1.25DSA
Fig. 2 — Single Row, Vertical Pin Header — Gold Plating							
2	4.15	1.25	H3305-ND	.61	11.00	36.00	DF13-2P-1.25DSA(50)
3	5.40	2.50	H3306-ND	.76	13.75	45.00	DF13-3P-1.25DSA(50)
4	6.65	3.75	H3307-ND	.76	13.75	45.00	DF13-4P-1.25DSA(50)
5	7.90	5.00	H3308-ND	.84	15.13	49.50	DF13-5P-1.25DSA(50)
6	9.15	6.25	H3309-ND	1.14	20.63	67.50	DF13-6P-1.25DSA(50)
7	10.40	7.50	H3310-ND	1.06	19.25	63.00	DF13-7P-1.25DSA(50)
8	11.65	8.75	H3311-ND	1.22	22.00	72.00	DF13-8P-1.25DSA(50)
9	12.90	10.00	H3312-ND	1.25	22.69	74.25	DF13-9P-1.25DSA(50)
10	14.15	11.25	H3313-ND	1.37	24.75	81.00	DF13-10P-1.25DSA(50)
11	15.40	12.50	H3314-ND	1.44	26.13	85.50	DF13-11P-1.25DSA(50)
12	16.65	13.75	H3315-ND	1.76	33.75	108.00	DF13-12P-1.25DSA(50)
14	19.15	16.25	H3316-ND	1.67	30.25	99.00	DF13-14P-1.25DSA(50)
15	20.40	17.50	H3317-ND	1.75	31.63	103.50	DF13-15P-1.25DSA(50)
Fig. 3 — Single Row, Right Angle Pin Header — Tin Plating							
2	4.15	1.25	H2199-ND	.50	7.50	23.50	DF13-2P-1.25DS(20)
3	5.40	2.50	H2260-ND	.60	9.00	28.20	DF13-3P-1.25DS(20)
4	6.65	3.75	H2201-ND	.57	10.31	33.75	DF13-4P-1.25DS(20)
5	7.90	5.00	H2202-ND	.65	11.69	38.25	DF13-5P-1.25DS(20)
6	9.15	6.25	H2203-ND	.72	13.06	42.75	DF13-6P-1.25DS(20)
7	10.40	7.50	H2204-ND	.76	13.75	45.00	DF13-7P-1.25DS(20)
8	11.65	8.75	H2205-ND	.95	17.19	56.25	DF13-8P-1.25DS(20)
9	12.90	10.00	H3318-ND	1.22	22.00	72.00	DF13-9P-1.25DS(20)
10	14.15	11.25	H2206-ND	1.06	19.25	63.00	DF13-10P-1.25DS(20)
11	15.40	12.50	H3319-ND	1.44	26.13	85.50	DF13-11P-1.25DS(20)
12	16.65	13.75	H2323-ND	1.56	28.19	92.25	DF13-12P-1.25DS(20)
14	19.15	16.25	H2324-ND	1.86	33.69	110.25	DF13-14P-1.25DS(20)
15	20.40	17.50	H2325-ND	1.85	35.63	114.00	DF13-15P-1.25DS(20)
Fig. 3 — Single Row, Right Angle Pin Header — Gold Plating							
2	4.15	1.25	H3320-ND	.60	9.00	28.20	DF13-2P-1.25DS(50)
3	5.40	2.50	H3321-ND	.57	10.31	33.75	DF13-3P-1.25DS(50)
4	6.65	3.75	H3322-ND	.72	13.06	42.75	DF13-4P-1.25DS(50)
5	7.90	5.00	H3323-ND	.84	15.13	49.50	DF13-5P-1.25DS(50)
6	9.15	6.25	H3324-ND	.95	17.19	56.25	DF13-6P-1.25DS(50)
7	10.40	7.50	H3325-ND	1.06	19.25	63.00	DF13-7P-1.25DS(50)
8	11.65	8.75	H3326-ND	1.25	22.69	74.25	DF13-8P-1.25DS(50)
9	12.90	10.00	H3327-ND	1.37	24.75	81.00	DF13-9P-1.25DS(50)
10	14.15	11.25	H3328-ND	1.44	26.13	85.50	DF13-10P-1.25DS(50)
11	15.40	12.50	H3329-ND	1.56	28.19	92.25	DF13-11P-1.25DS(50)
12	16.65	13.75	H3330-ND	1.67	30.25	99.00	DF13-12P-1.25DS(50)
14	19.15	16.25	H3331-ND	1.86	33.69	110.25	DF13-14P-1.25DS(50)
15	20.40	17.50	H3332-ND	1.69	32.50	104.00	DF13-15P-1.25DS(50)
Fig. 4 — Single Row, SMT Vertical Pin Header with Guide Posts — Tin Plating							
2	4.15	1.25	H2207-ND	.50	7.50	23.50	DF13-2P-1.25V(20)
3	5.40	2.50	H2208-ND	.60	9.00	28.20	DF13-3P-1.25V(20)
4	6.65	3.75	H2209-ND	.57	10.31	33.75	DF13-4P-1.25V(20)
5	7.90	5.00	H2210-ND	.61	11.00	36.00	DF13-5P-1.25V(20)
6	9.15	6.25	H2211-ND	.65	11.69	38.25	DF13-6P-1.25V(20)
7	10.40	7.50	H2212-ND	.72	13.06	42.75	DF13-7P-1.25V(20)
8	11.65	8.75	H2213-ND	.87	15.81	51.75	DF13-8P-1.25V(20)
9	12.90	10.00	H3335-ND	.95	17.19	56.25	DF13-9P-1.25V(20)
10	14.15	11.25	H2214-ND	.99	17.88	58.50	DF13-10P-1.25V(20)
11	15.40	12.50	H2215-ND	1.06	19.25	63.00	DF13-11P-1.25V(20)
12	16.65	13.75	H2216-ND	1.10	19.94	65.25	DF13-12P-1.25V(20)
14	19.15	16.25	H2217-ND	1.22	22.00	72.00	DF13-14P-1.25V(20)
15	20.40	17.50	H2218-ND	1.33	24.06	78.75	DF13-15P-1.25V(20)
Fig. 4 — Single Row, SMT with Guide Posts Vertical Pin Header — Gold Plating							
2	4.15	1.25	H3336-ND	.72	13.06	42.75	DF13-2P-1.25V(50)
3	5.40	2.50	H3337-ND	.87	15.81	51.75	DF13-3P-1.25V(50)
4	6.65	3.75	H3338-ND	1.06	19.25	63.00	DF13-4P-1.25V(50)
5	7.90	5.00	H3339-ND	1.22	22.00	72.00	DF13-5P-1.25V(50)
6	9.15	6.25	H3340-ND	1.33	24.06	78.75	DF13-6P-1.25V(50)
7	10.40	7.50	H3341-ND	1.37	24.75	81.00	DF13-7P-1.25V(50)
8	11.65	8.75	H3342-ND	1.60	28.88	94.50	DF13-8P-1.25V(50)
9	12.90	10.00	H3343-ND	1.75	31.63	103.50	DF13-9P-1.25V(50)
10	14.15	11.25	H3344-ND	1.86	33.69	110.25	DF13-10P-1.25V(50)
11	15.40	12.50	H3345-ND	1.66	31.88	102.00	DF13-11P-1.25V(50)
12	16.65	13.75	H3346-ND	1.66	31.88	102.00	DF13-12P-1.25V(50)
14	19.15	16.25	H3347-ND	1.98	38.13	122.00	DF13-14P-1.25V(50)
15	20.40	17.50	H3348-ND	2.08	40.00	128.00	DF13-15P-1.25V(50)
Fig. 5 — Single Row, SMT Vertical Pin Header with Boss — Tin Plating							
2	4.15	1.25	H3393-ND	.50	7.50	23.50	DF13B-2P-1.25V(20)
3	5.40	2.50	H3394-ND	.60	9.00	28.20	DF13B-3P-1.25V(20)
4	6.65	3.75	H3395-ND	.57	10.31	33.75	DF13B-4P-1.25V(20)
5	7.90	5.00	H3396-ND	.61	11.00	36.00	DF13B-5P-1.25V(20)
6	9.15	6.25	H3397-ND	.65	11.69	38.25	DF13B-6P-1.25V(20)
7	10.40	7.50	H3398-ND	.72	13.06	42.75	DF13B-7P-1.25V(20)
8	11.65	8.75	H3399-ND	.87	15.81	51.75	DF13B-8P-1.25V(20)
9	12.90	10.00	H3400-ND	.95	17.19	56.25	DF13B-9P-1.25V(20)
10	14.15	11.25	H3401-ND	.99	17.88	58.50	DF13B-10P-1.25V(20)
11	15.40	12.50	H3402-ND	1.06	19.25	63.00	DF13B-11P-1.25V(20)
12	16.65	13.75	H3403-ND	1.10	19.94	65.25	DF13B-12P-1.25V(20)
14	19.15	16.25	H3404-ND	1.22	22.00	72.00	DF13B-14P-1.25V(20)
15	20.40	17.50	H3405-ND	1.33	24.06	78.75	DF13B-15P-1.25V(20)
Fig. 5 — Single Row, SMT Vertical Pin Header with Boss — Gold Plating							
2	4.15	1.25	H3406-ND	.72	13.06	42.75	DF13B-2P-1.25V(50)
3	5.40	2.50	H3407-ND	.87	15.81	51.75	DF13B-3P-1.25V(50)
4	6.65	3.75	H3408-ND	1.06	19.25	63.00	DF13B-4P-1.25V(50)
5	7.90	5.00	H3409-ND	1.22	22.00	72.00	DF13B-5P-1.25V(50)
6	9.15	6.25	H3410-ND	1.33	24.06	78.75	DF13B-6P-1.25V(50)
7	10.40	7.50	H3411-ND	1.37	24.75	81.00	DF13B-7P-1.25V(50)
8	11.65	8.75	H3412-ND	1.60	28.88	94.50	DF13B-8P-1.25V(50)
9	12.90	10.00	H3413-ND	1.75	31.63	103.50	DF13B-9P-1.25V(50)
10	14.15	11.25	H3414-ND	1.86	33.69	110.25	DF13B-10P-1.25V(50)
11	15.40	12.50	H3415-ND	1.66	31.88	102.00	DF13B-11P-1.25V(50)
12	16.65	13.75	H3416-ND	1.76	33.75	108.00	DF13B-12P-1.25V(50)
14	19.15	16.25	H3417-ND	1.98	38.13	122.00	DF13B-14P-1.25V(50)
15	20.40	17.50	H3418-ND	2.08	40.00	128.00	DF13B-15P-1.25V(50)
Fig. 5 — Single Row, SMT Vertical Pin Header without Boss — Tin Plating							
2	4.15	1.25	H3419-ND	.50	7.50	23.50	DF13C-2P-1.25V(20)
3	5.40	2.50	H3420-ND	.60	9.00	28.20	DF13C-3P-1.25V(20)
4	6.65	3.75	H3421-ND	.57	10.31	33.75	DF13C-4P-1.25V(20)
5	7.90	5.00	H3422-ND	.61	11.00	36.00	DF13C-5P-1.25V(20)
6	9.15	6.25	H3423-ND	.65	11.69	38.25	DF13C-6P-1.25V(20)
7	10.40	7.50	H3424-ND	.72	13.06	42.75	DF13C-7P-1.25V(20)
8	11.65	8.75	H3425-ND	.87	15.81	51.75	DF13C-8P-1.25V(20)
9	12.90	10.00	H3426-ND	.95	17.19	56.25	DF13C-9P-1.25V(20)
10	14.15	11.25	H3427-ND	.99	17.88	58.50	DF13C-10P-1.25V(20)
11	15.40	12.50	H3428-ND	.95	17.19	56.25	DF13C-11P-1.25V(20)
12	16.65	13.75	H3429-ND	1.10	19.94	65.25	DF13C-12P-1.25V(20)
14	19.15	16.25	H3430-ND	1.22	22.00	72.00	DF13C-14P-1.25V(20)
15	20.40	17.50	H3431-ND	1.33	24.06	78.75	DF13C-15P-1.25V(20)
Fig. 5 — Single Row, SMT Vertical Pin Header without Boss — Gold Plating							
2	4.15	1.25	H3432-ND	.72	13.06	42.75	DF13C-2P-1.25V(50)
3	5.40	2.50	H3433-ND	.87	15.81	51.75	DF13C-3P-1.25V(50)
4	6.65	3.75	H3434-ND	1.06	19.25	63.00	DF13C-4P-1.25V(50)
5	7.90	5.00	H3435-ND	1.22	22.00	72.00	DF13C-5P-1.25V(50)
6	9.15	6.25	H3436-ND	1.33	24.06	78.75	DF13C-6P-1.25V(50)
7	10.40	7.50	H3437-ND	1.37	24.75	81.00	DF13C-7P-1.25V(50)
8	11.65	8.75	H3438-ND	1.60	28.88	94.50	DF13C-8P-1.25V(50)
9	12.90	10.00	H3439-ND	1.75	31.63	103.50	DF13C-9P-1.25V(50)
10	14.15	11.25	H3440-ND	1.86	33.69	110.25	DF13C-10P-1.25V(50)
11	15.40	12.50	H3441-ND	1.66	31.88	102.00	DF13C-11P-1.25V(50)
12	16.65	13.75	H3442-ND	1.76	33.75	108.00	DF13C-12P-1.25V(50)
14	19.15	16.25	H3443-ND	1.98	38.13	122.00	DF13C-14P-1.25V(50)
15	20.40	17.50	H3444-ND	2.08	40.00	128.00	DF13C-15P-1.25V(50)
Fig. 6 — Single Row, SMT Right Angle Pin Header with Boss — Tin Plating							
2	4.15	1.25	H2219-ND	.60	9.00	28.20	DF13-2P-1.25H(20)
3	5.40	2.50	H2220-ND	.65	9.75	30.55	DF13-3P-1.25H(20)
4	6.65	3.75	H2221-ND	.57	10.31	33.75	DF13-4P-1.25H(20)
5	7.90	5.00	H2222-ND	.65	11.69	38.25	DF13-5P-1.25H(20)
6	9.15	6.25	H2223-ND	.72	13.06	42.75	DF13-6P-1.25H(20)
7	10.40	7.50	H2224-ND	.76	13.75	45.00	DF13-7P-1.25H(20)
8	11.65	8.75	H2225-ND	.87	15.81	51.75	DF13-8P-1.25H(20)
9	12.90	10.00	H3349-ND	.95	17.19	56.25	DF13-9P-1.25H(20)
10	14.15	11.25	H2226-ND	1.06	19.25	63.00	DF13-10P-1.25H(20)
11	15.40	12.50	H2227-ND	1.10	19.94	65.25	DF13-11P-1.25H(20)
12	16.65	13.75	H2228-ND	1.14	20.63	67.50	DF13-12P-1.25H(20)
14	19.15	16.25	H2229-ND	1.25	22.69	74.25	DF13-14P-1.25H(20)
15	20.40	17.50	H2230-ND	1.33	24.06	78.75	DF13-15P-1.25H(20)
Fig. 6 — Single Row, SMT Right Angle Pin Header with Boss — Gold Plating							
2	4.15	1.25	H3350-ND	.72	13.06	42.75	DF13-2P-1.25H(50)
3	5.40	2.50	H3351-ND	.87	15.81	51.75	DF13-3P-1.25H(50)
4	6.65	3.75	H3352-ND	1.06	19.25	63.00	DF13-4P-1.25H(50)
5	7.90	5.00	H3353-ND	1.22	22.00	72.00	DF13-5P-1.25H(50)
6	9.15	6.25	H3354-ND	1.33	24.06	78.75	DF13-6P-1.25H(50)
7	10.40	7.50	H3355-ND	1.37	24.75	81.00	DF13-7P-1.25H(50)
8	11.65	8.75	H3356-ND	1.60	28.88	94.50	DF13-8P-1.25H(50)
9	12.90	10.00	H3357-ND	1.75	31.63	103.50	DF13-9P-1.25H(50)
10	14.15	11.25	H3358-ND	1.86	33.69	110.25	DF13-10P-1.25H(50)
11	15.40	12.50	H3359-ND	1.66	31.88	102.00	DF13-11P-1.25H(50)
12	16.65	13.75	H3360-ND	1.76	33.75	108.00	DF13-12P-1.25H(50)
14	19.15	16.25	H3361-ND	1.98	38.13	122.00	DF13-14P-1.25H(50)
15	20.40	17.50	H3362-ND	2.08	40.00	128.00	DF13-15P-1.25H(50)
Fig. 6 — Single Row, SMT Right Angle Pin Header without Boss — Tin Plating							
2	4.15	1.25	H3367-ND	.50	7.50	23.50	DF13A-2P-1.25H(20)
3	5.40	2.50	H3368-ND	.60	9.00	28.20	DF13A-3P-1.25H(20)
4	6.65	3.75	H3369-ND	.57	10.31	33.75	DF13A-4P-1.25H(20)
5	7.90	5.00	H3370-ND	.61	11.00	36.00	DF13A-5P-1.25H(20)
6	9.15	6.25	H3371-ND	.65	11.69	38.25	DF13A-6P-1.25H(20)
7	10.40	7.50	H3372-ND	.72	13.06	42.75	DF13A-7P-1.25H(20)
8	11.65	8.75	H3373-ND	.87	15.81	51.75	DF13A-8P-1.25H(20)
9	12.90	10.00	H3374-ND	.95	17.19	56.25	DF13A-9P-1.25H(20)
10	14.15	11.25	H3375-ND	.99	17.88	58.50	DF13A-10P-1.25H(20)
11	15.40	12.50	H3376-ND	1.06	19.25	63.00	DF13A-11P-1.25H(20)
12	16.65	13.75	H3377-ND	1.10	19.94	65.25	DF13A-12P-1.25H(20)
14	19.15	16.25	H3378-ND	1.22	22.00	72.00	DF13A-14P-1.25H(20)
15	20.40	17.50	H3379-ND	1.25	22.69	74.25	DF13A-15P-1.25H(20)
Fig. 6 — Single Row, SMT Right Angle Pin Header without Boss — Gold Plating							
2	4.15	1.25	H3380-ND	.72	13.06	42.75	DF13A-2P-1.25H(50)
3	5.40	2.50	H3381-ND	.87	15.81	51.75	DF13A-3P-1.25H(50)
4	6.65	3.75	H3382-ND	1.06	19.25	63.00	DF13A-4P-1.25H(50)
5	7.90	5.00	H3383-ND	1.22	22.00	72.00	DF13A-5P-1.25H(50)
6	9.15	6.25	H3384-ND	1.33	24.06	78.75	DF13A-6P-1.25H(50)
7	10.40	7.50	H3385-ND	1.37	24.75	81.00	DF13A-7P-1.25H(50)
8	11.65	8.75	H3386-ND	1.60	28.88	94.50	DF13A-8P-1.25H(50)
9	12.90	10.00	H3387-ND	1.75	31.63	103.50	DF13A-9P-1.25H(50)
10	14.15	11.25	H3388-ND	1.52	27.50	90.00	DF13A-10P-1.25H(50)
11	15.40	12.50	H3389-ND	1.66	31.88	102.00	DF13A-11P-1.25H(50)
12	16.65	13.75	H3390-ND	1.76	33.75	108.00	DF13A-12P-1.25H(50)
14	19.15	16.25	H3391-ND	1.98	38.13	122.00	DF13A-14P-1.25H(50)
15	20.40	17.50	H3392-ND	2.08	40.00	128.00	DF13A-15P-1.25H(50)
Fig. 7 — Dual Row Crimp Sockets							
10	10.40	5.00	H2231-ND	.33	3.94	11.75	DF13-10DS-1.25C
20	16.65	11.25	H2232-ND	.40	4.77	14.25	DF13-20DS-1.25C
30	22.90	17.50	H2233-ND	.48	5.70	17.00	DF13-30DS-1.25C
40	29.15	23.75	H2234-ND	.54	6.45	19.25	DF13-40DS-1.25C
Fig. 8 — Dual Row Sockets, SMT Straight Pin Headers with Guide Posts — Tin Plating							
10	12.1	5.00	H3333-ND*	.95	17.19	56.25	DF13-10DP-1.25V(20)
20	18.35	11.25	H3334-ND*	1.33	24.06	78.75	DF13-20DP-1.25V(20)
10	12.1	5.00	H3365-ND†	.95	17.19	56.25	DF13A-10DP-1.25V(20)
20	18.35	11.25	H3366-ND†	1.33	24.06	78.75	DF13A-20DP-1.25(20)
Fig. 8 — Dual Row Sockets, SMT Straight Pin Headers with Guide Posts — Gold Plating							
10	12.10	5.00	H2235-ND*	.99	17.88	58.50	DF13-10DP-1.25V(50)
20	18.35	11.25	H2236-ND*	1.48	26.81	87.75	DF13-20DP-1.25V(50)
30	24.60	17.50	H2237-ND*	1.69	32.50	104.00	DF13-30DP-1.25V(50)
40	30.85	23.75	H2238-ND*	2.11	40.63	130.00	DF13-40DP-1.25V(50)
Fig. 8 — Dual Row Sockets, SMT Straight Pin Headers without Guide Posts — Gold Plating							
10	12.10	5.00	H2239-ND	.99	17.88	58.50	DF13A-10DP-1.25V(50)
20	18.35	11.25	H2240-ND	1.48	26.81	87.75	DF13A-20DP-1.25V(50)
30	24.60	17.50	H2241-ND	1.69	32.50	104.00	DF13A-30DP-1.25V(50)
40	30.85	23.75	H2242-ND	2.11	40.63	130.00	DF13A-40DP-1.25V(50)
Fig. 9 — Dual Row Receptacles — Gold Plating							
20	15.40	11.25	H3363-ND	2.73	52.50	168.00	DF13-20DS-1.25DSA(50)
40	27.90	23.75	H3364-ND	3.89	75.38	241.20	DF13-40DS-1.25DSA(50)

Fig. 10 — Socket Crimp Contact

Tin Pltg., AWG 26-30	H9992CT-ND‡ H9992TR-ND◊	3.10/100 130.00/10,000	DF13-2630SCF
Gold Pltg., AWG 26-30	H9991CT-ND‡ H9991TR-ND◊	5.49/100 230.00/10,000	DF13-2630SCFA

Hand Crimp Tools and Die Sets

Tool with Non-Removable Die	H9994-ND	1029.41/1	DF13-TB2630HC
Tool w/Die Set	H9925-ND	832.00/1	DF13-TB2630HC/US
Tool w/out Die Set	H9926-ND	332.50/1	HRUS-HT-1
Die Set for H9926-ND	H9929-ND	518.70/1	DF13-TB2630HC/US-DS

* With Boss † Without Boss ‡ Cut Tape ◊ Tape & Reel

HIROSE ELECTRIC CO.,LTD.

DF11 Series Dual Row Connectors

2mm Pitch

A

Specifications: • Current Capacity: 3A with AWG24 cable • Rated Voltage: 250VAC • Insulation Resistance: Minimum 1000MΩ at 500VDC • Withstand Voltage: 650VAC • Contact Resistance: Maximum 30MΩ at 0.1ADC

Fig. 1

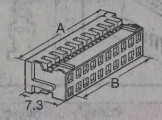


Fig. 2

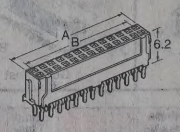


Fig. 3 — Surface Mount

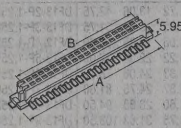


Fig. 4

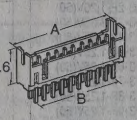


Fig. 5

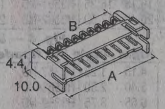


Fig.	No. of Pins	Dimensions (mm) A	B	Digi-Key Part No.	Pricing 1	25	100	Hirose Part No.
				Dual Row Crimp Socket — Tin				
1	4	6.0	2.0	H2019-ND	.28	3.35	10.00	DF11-4DS-2C
	6	8.0	4.0	H2021-ND	.30	3.60	10.75	DF11-6DS-2C
	8	10.0	6.0	H2022-ND	.36	4.27	12.75	DF11-8DS-2C
	10	12.0	8.0	H2023-ND	.36	4.36	13.00	DF11-10DS-2C
	12	14.0	10.0	H2024-ND	.39	4.69	14.00	DF11-12DS-2C
	14	16.0	12.0	H2140-ND	.41	4.94	14.75	DF11-14DS-2C
	16	18.0	14.0	H2025-ND	.44	5.28	15.75	DF11-16DS-2C
	18	20.0	16.0	H2026-ND	.46	5.53	16.50	DF11-18DS-2C
	20	22.0	18.0	H2027-ND	.48	5.78	17.25	DF11-20DS-2C
	22	24.0	20.0	H2028-ND	.51	6.11	18.25	DF11-22DS-2C
	24	26.0	22.0	H2029-ND	.54	6.45	19.25	DF11-24DS-2C
	26	28.0	24.0	H2261-ND	.41	6.15	19.27	DF11-26DS-2C
	28	30.0	26.0	H2262-ND	.44	6.53	20.45	DF11-28DS-2C
	30	32.0	28.0	H2263-ND	.47	7.05	22.09	DF11-30DS-2C
	32	34.0	30.0	H2264-ND	.52	7.80	24.44	DF11-32DS-2C
				Vertical PCB Socket — Tin				
2	6	8.0	4.0	H2274-ND	1.00	18.01	58.95	DF11-6DS-2DSA
	8	10.0	6.0	H2030-ND	1.07	19.39	63.45	DF11-8DS-2DSA
	10	12.0	8.0	H2031-ND	1.17	21.18	69.30	DF11-10DS-2DSA
	12	14.0	10.0	H2141-ND	1.27	22.89	74.93	DF11-12DS-2DSA
	14	16.0	12.0	H2033-ND	1.36	24.68	80.78	DF11-14DS-2DSA
	16	18.0	14.0	H2034-ND	1.50	27.09	88.65	DF11-16DS-2DSA
	18	20.0	16.0	H2035-ND	1.59	28.81	94.28	DF11-18DS-2DSA
	20	22.0	18.0	H2036-ND	1.74	31.42	102.83	DF11-20DS-2DSA
	22	24.0	20.0	H2037-ND	1.83	33.14	108.45	DF11-22DS-2DSA
	24	26.0	22.0	H2038-ND	1.65	31.75	101.60	DF11-24DS-2DSA
	26	28.0	24.0	H2265-ND	1.74	33.38	106.80	DF11-26DS-2DSA
	28	30.0	26.0	H2266-ND	1.82	35.00	112.00	DF11-28DS-2DSA
	30	32.0	28.0	H2267-ND	1.90	36.63	117.20	DF11-30DS-2DSA
	32	34.0	30.0	H2268-ND	1.99	38.25	122.40	DF11-32DS-2DSA
				Vertical PCB Socket — Gold				
2	6	8.0	4.0	H2820-ND	1.58	28.67	93.83	DF11-6DS-2DSA(01)
	8	10.0	6.0	H2821-ND	1.86	33.62	110.03	DF11-8DS-2DSA(01)
	10	12.0	8.0	H2822-ND	1.84	35.44	113.40	DF11-10DS-2DSA(01)
	12	14.0	10.0	H2823-ND	2.09	40.25	128.80	DF11-12DS-2DSA(01)
	14	16.0	12.0	H2824-ND	2.34	45.06	144.20	DF11-14DS-2DSA(01)
	16	18.0	14.0	H2825-ND	2.62	50.44	161.40	DF11-16DS-2DSA(01)
	18	20.0	16.0	H2826-ND	2.88	55.31	177.00	DF11-18DS-2DSA(01)
	20	22.0	18.0	H2827-ND	3.17	60.88	194.80	DF11-20DS-2DSA(01)
	22	24.0	20.0	H2828-ND	3.05	59.06	189.00	DF11-22DS-2DSA(01)
	24	26.0	22.0	H2829-ND	3.28	63.56	203.40	DF11-24DS-2DSA(01)
	26	28.0	24.0	H2830-ND	3.51	68.06	217.80	DF11-26DS-2DSA(01)
	28	30.0	26.0	H2831-ND	3.71	72.00	230.40	DF11-28DS-2DSA(01)
	30	32.0	28.0	H2832-ND	3.94	76.50	244.80	DF11-30DS-2DSA(01)
	32	34.0	30.0	H2833-ND	4.18	81.00	259.20	DF11-32DS-2DSA(01)
				Surface Mount Vertical Socket — Tin				
3	4	8.5	2.0	H2039-ND	1.14	20.63	67.50	DF11-4DS-2V(20)
	6	10.5	4.0	H2040-ND	1.33	24.06	78.75	DF11-6DS-2V(20)
	8	12.5	6.0	H2041-ND	1.48	26.81	87.75	DF11-8DS-2V(20)
	10	14.5	8.0	H2042-ND	1.60	28.88	94.50	DF11-10DS-2V(20)
	12	16.5	10.0	H2043-ND	1.75	31.63	103.50	DF11-12DS-2V(20)
	14	18.5	12.0	H2142-ND	1.86	33.69	110.25	DF11-14DS-2V(20)
	16	20.5	14.0	H2045-ND	1.76	33.75	108.00	DF11-16DS-2V(20)
	18	22.5	16.0	H2046-ND	1.89	36.25	116.00	DF11-18DS-2V(20)
	20	24.5	18.0	H2047-ND	1.98	38.13	122.00	DF11-20DS-2V(20)
	22	26.5	20.0	H2048-ND	2.21	42.50	136.00	DF11-22DS-2V(20)
3	24	28.5	22.0	H2049-ND	2.31	44.38	142.00	DF11-24DS-2V(20)
	26	30.5	24.0	H2270-ND	2.54	48.75	156.00	DF11-26DS-2V(20)
	28	32.5	26.0	H2271-ND	2.70	51.88	166.00	DF11-28DS-2V(20)
	30	34.5	28.0	H2272-ND	2.89	55.63	178.00	DF11-30DS-2V(20)
	32	36.5	30.0	H2273-ND	2.96	56.88	182.00	DF11-32DS-2V(20)
	40	44.5	38.0	H2289-ND	3.28	63.56	203.40	DF11-40DS-2V(20)
				Surface Mount Vertical Socket — Gold				
3	4	8.5	2.0	H2834-ND	1.44	26.13	85.50	DF11-4DS-2V(50)
	6	10.5	4.0	H2835-ND	1.71	30.94	101.25	DF11-6DS-2V(50)
	8	12.5	6.0	H2836-ND	1.76	33.75	108.00	DF11-8DS-2V(50)
	10	14.5	8.0	H2837-ND	1.95	37.50	120.00	DF11-10DS-2V(50)
	12	16.5	10.0	H2838-ND	2.21	42.50	136.00	DF11-12DS-2V(50)
	14	18.5	12.0	H2839-ND	2.47	47.50	152.00	DF11-14DS-2V(50)
	16	20.5	14.0	H2840-ND	2.70	51.88	166.00	DF11-16DS-2V(50)
	18	22.5	16.0	H2841-ND	2.93	56.25	180.00	DF11-18DS-2V(50)
	20	24.5	18.0	H2842-ND	3.15	60.63	194.00	DF11-20DS-2V(50)
	22	26.5	20.0	H2843-ND	3.10	60.19	192.60	DF11-22DS-2V(50)
	24	28.5	22.0	H2844-ND	3.34	64.69	207.00	DF11-24DS-2V(50)
	26	30.5	24.0	H2845-ND	3.63	70.31	225.00	DF11-26DS-2V(50)
	28	32.5	26.0	H2846-ND	3.83	74.25	237.60	DF11-28DS-2V(50)
	30	34.5	28.0	H2847-ND	4.12	79.88	255.60	DF11-30DS-2V(50)
	32	36.5	30.0	H2848-ND	4.29	83.25	266.40	DF11-32DS-2V(50)
	40	44.5	38.0	H2849-ND	5.34	103.50	331.20	DF11-40DS-2V(50)
				Vertical Protected Header — Tin				
4	4	6.0	2.0	H2143-ND	.57	10.31	33.75	DF11-4DP-2DSA(20)
	6	8.0	4.0	H2051-ND	.65	11.69	38.25	DF11-6DP-2DSA(20)
	8	10.0	6.0	H2052-ND	.72	13.06	42.75	DF11-8DP-2DSA(20)
	10	12.0	8.0	H2053-ND	.76	13.75	45.00	DF11-10DP-2DSA(20)
	12	14.0	10.0	H2054-ND	.87	15.81	51.75	DF11-12DP-2DSA(20)
	14	16.0	12.0	H2055-ND	.95	17.19	56.25	DF11-14DP-2DSA(20)
	16	18.0	14.0	H2056-ND	1.06	19.25	63.00	DF11-16DP-2DSA(20)
	18	20.0	16.0	H2057-ND	1.14	20.63	67.50	DF11-18DP-2DSA(20)
	20	22.0	18.0	H2058-ND	1.25	22.69	74.25	DF11-20DP-2DSA(20)
	22	24.0	20.0	H2059-ND	1.37	24.75	81.00	DF11-22DP-2DSA(20)
	24	26.0	22.0	H2060-ND	1.44	26.13	85.50	DF11-24DP-2DSA(20)
	26	28.0	24.0	H2275-ND	1.56	28.19	92.25	DF11-26DP-2DSA(20)
	28	30.0	26.0	H2276-ND	1.60	28.88	94.50	DF11-28DP-2DSA(20)
	30	32.0	28.0	H2277-ND	1.67	30.25	99.00	DF11-30DP-2DSA(20)
	32	34.0	30.0	H2278-ND	1.75	31.63	103.50	DF11-32DP-2DSA(20)
				Vertical Protected Header — Gold				
4	4	6.0	2.0	H2850-ND	.70	12.65	41.40	DF11-4DP-2DSA(01)
	6	8.0	4.0	H2851-ND	.88	15.95	52.20	DF11-6DP-2DSA(01)
	8	10.0	6.0	H2852-ND	1.06	19.25	63.00	DF11-8DP-2DSA(01)
	10	12.0	8.0	H2853-ND	1.26	22.76	74.48	DF11-10DP-2DSA(01)
	12	14.0	10.0	H2854-ND	1.46	26.40	86.40	DF11-12DP-2DSA(01)
	14	16.0	12.0	H2855-ND	1.64	29.70	97.20	DF11-14DP-2DSA(01)
	16	18.0	14.0	H2856-ND	1.85	33.48	109.58	DF11-16DP-2DSA(01)
	18	20.0	16.0	H2857-ND	1.74	33.50	107.20	DF11-18DP-2DSA(01)
	20	22.0	18.0	H2858-ND	1.92	37.00	118.40	DF11-20DP-2DSA(01)
	22	24.0	20.0	H2859-ND	2.12	40.75	130.40	DF11-22DP-2DSA(01)
	24	26.0	22.0	H2860-ND	2.28	43.81	140.20	DF11-24DP-2DSA(01)
	26	28.0	24.0	H2861-ND	2.44	46.88	150.00	DF11-26DP-2DSA(01)
	28	30.0	26.0	H2862-ND	2.59	49.88	159.60	DF11-28DP-2DSA(01)
	30	32.0	28.0	H2863-ND	2.76	53.00	169.60	DF11-30DP-2DSA(01)
	32	34.0	30.0	H2864-ND	2.92	56.06	179.40	DF11-32DP-2DSA(01)
				Right Angle Protected Header — Tin				
5	4	6.0	2.0	H2061-ND	.60	9.00	28.20	DF11-4DP-2DS(22)
	6	8.0	4.0	H2062-ND	.65	9.75	30.55	DF11-6DP-2DS(22)
	8	10.0	6.0	H2063-ND	.57	10.31	33.75	DF11-8DP-2DS(22)
	10	12.0	8.0	H2145-ND	.65	11.69	38.25	DF11-10DP-2DS(22)
	12	14.0	10.0	H2065-ND	.72	13.06	42.75	DF11-12DP-2DS(22)
	14	16.0	12.0	H2066-ND	.76	13.75	45.00	DF11-14DP-2DS(22)
	16	18.0	14.0	H2067-ND	.76	13.75	45.00	DF11-16DP-2DS(22)
	18	20.0	16.0	H2068-ND	1.06	19.25	63.00	DF11-18DP-2DS(22)
	20	22.0	18.0	H2069-ND	1.14	20.63	67.50	DF11-20DP-2DS(22)
	22	24.0	20.0	H2070-ND	1.25	22.69	74.25	DF11-22DP-2DS(22)
	24	26.0	22.0	H2071-ND	1.37	24.75	81.00	DF11-24DP-2DS(22)
	26	28.0	24.0	H2280-ND	1.44	26.13	85.50	DF11-26DP-2DS(22)
	28	30.0	26.0	H2281-ND	1.48	26.81	87.75	DF11-28DP-2DS(22)
	30	32.0	28.0	H2282-ND	1.56	28.19	92.25	DF11-30DP-2DS(22)
	32	34.0	30.0	H2283-ND	1.71	30.94	101.25	DF11-32DP-2DS(22)
				Right Angle Protected Header — Gold				
5	4	6.0	2.0	H2865-ND	.95	17.19	56.25	DF11-4DP-2DS(52)
	6	8.0	4.0	H2866-ND	1.22	22.00	72.00	DF11-6DP-2DS(52)
	8	10.0	6.0	H2867-ND	1.44	26.13	85.50	DF11-8DP-2DS(52)
	10	12.0	8.0	H2868-ND	1.71	30.94	101.25	DF11-10DP-2DS(52)
	12	14.0	10.0	H2869-ND	1.69	32.50	104.00	DF11-12DP-2DS(52)
	14	16.0	12.0	H2870-ND	1.95	37.50	120.00	DF11-14DP-2DS(52)
	16	18.0	14.0	H2871-ND	2.18	41.88	134.00	DF11-16DP-2DS(52)
	18	20.0	16.0	H2872-ND	2.37	45.63	146.00	DF11-18DP-2DS(52)
	20	22.0	18.0	H2873-ND	2.60	50.00	160.00	DF11-20DP-2DS(52)
	22	24.0	20.0	H2874-ND	2.89	55.63	178.00	DF11-22DP-2DS(52)
	24	26.0	22.0	H2875-ND	3.12	60.00	192.00	DF11-24DP-2DS(52)
	26	28.0	24.0	H2876-ND	2.99	57.94	185.40	DF11-26DP-2DS(52)
	28	30.0	26.0	H2877-ND	3.16	61.31	196.20	DF11-28DP-2DS(52)
	30	32.0	28.0	H2878-ND	3.36	65.25	208.80	DF11-30DP-2DS(52)
	32	34.0	30.0	H2879-ND	3.57	69.19	221.40	DF11-32DP-2DS(52)

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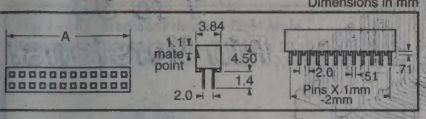
3M 2mm x 2mm Vertical Socket

Dimensions in mm



Features: • High temperature dielectric • IR, vapor and wave solder compatible • Available in thru hole • Industry standard compatible • Minimizes PC board stacking heights • End stackable feature • Side stackable feature

Physical Specifications: • **Insulation Material:** High Temperature Glass Filled-Polyester (PCT) • **Color:** Natural • **Marking:** Molded orientation delta • **Contact Material:** Beryllium copper • **Contact Plating:** • Wiping area: 30µ" gold plate • Solder Tails: 100µ" 90/10 SnPb plate • Underplate: 50µ" nickel

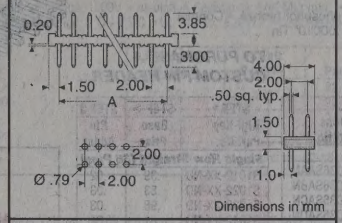
Electrical Specifications: • Current Rating: 1.5Amp • Insulation Resistance: 5000MΩ @ 250Volts min. • Withstanding Voltage: 500VDC @ Sea level

Environmental Specifications: • Operating Temp.: -55°C ~ 105°C

No. of Pos.	Dim. A Inch (mm)	Digi-Key Part No.	Price Each 1	100	500	3M Part No.
Socket Vertical PC Mount						
8	.310 (7.87)	3M1008-ND	1.91	1.46	1.32	150208-6002-TB
10	.389 (9.88)	3M1010-ND	2.00	1.52	1.38	150210-6002-TB
12	.467 (11.86)	3M1012-ND	2.06	1.57	1.42	150212-6002-TB
20	.782 (19.86)	3M1020-ND	2.35	1.79	1.62	150220-6002-TB
24	.940 (23.88)	3M1024-ND	2.50	1.90	1.72	150224-6002-TB
30	1.176 (29.87)	3M1030-ND	2.70	2.06	1.86	150230-6002-TB
40	1.570 (39.88)	3M1040-ND	3.06	2.33	2.11	150240-6002-TB
44	1.727 (43.87)	3M1044-ND	3.20	2.44	2.21	150244-6002-TB
50	1.964 (49.88)	3M1050-ND	3.41	2.60	2.35	150250-6002-TB
60	2.357 (59.87)	3M1060-ND	3.79	2.88	2.61	150260-6002-TB

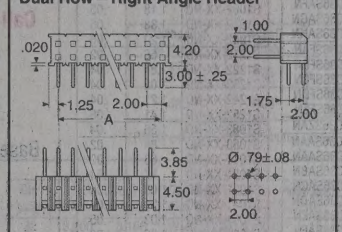
2mm x 2mm Pin Strip Headers

Dual Row – Straight Header



Dimensions in mm

Dual Row – Right Angle Header



Dimensions in mm

Features: • Industry standard compatible • High temperature dielectric • IR, vapor and wave solder compatible • Straight Solder Tail • Maximizes use of PC board space • Mates with boardmount and wiremount products • End stackable feature • Side stackable feature

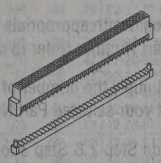
Physical Specifications: • **Contact Plating:** • Wiping area: Gold - MIL-G-45204, Type II, Grade C • Solder Tails: 200µ" 90/10 Tin Lead - MIL-P-81728 • Underplate: 100µ" nickel - QQ-N-290, Class 2 • **Contact Material:** Copper Alloy • **Insulation Material:** • Right Angle: Glass Filled Polyester (PCT) • Straight: Liquid Crystal Polymer (LCP) • Flammability: UL 94V-0 • **Color:** • Natural

Electrical Specifications: • Current Rating: 1.5Amp • Insulation Resistance: >5x10⁸ Ω @ 250VDC • Withstanding Voltage: 500VDC @ Sea level

Environmental Specifications: • Operating Temperature: -55°C ~ 105°C

No. of Pos.	Dim. A Inch (mm)	Digi-Key Part No.	Price Each 1	100	500	3M Part No.
Dual Row Straight Header						
8	.295 (7.49)	3M1108-ND	.96	.73	.66	151208-8422-TB
10	.374 (9.50)	3M1110-ND	1.56	1.19	1.08	151210-8422-TB
12	.453 (11.51)	3M1112-ND	1.16	.89	.81	151212-8422-TB
20	.768 (19.51)	3M1120-ND	1.56	1.19	1.08	151220-8422-TB
24	.925 (23.50)	3M1124-ND	1.79	1.36	1.23	151224-8422-TB
30	1.162 (29.51)	3M1130-ND	2.06	1.57	1.42	151230-8422-TB
40	1.556 (39.52)	3M1140-ND	2.45	1.87	1.69	151240-8422-TB
44	1.714 (43.54)	3M1144-ND	2.64	2.01	1.82	151244-8422-TB
50	1.950 (49.53)	3M1150-ND	2.91	2.22	2.01	151250-8422-TB
60	2.344 (59.54)	3M1160-ND	3.37	2.56	2.32	151260-8422-TB
Dual Row Right Angle Header						
8	.295 (7.49)	3M1208-ND	.62	.48	.43	151208-7422-TB
10	.374 (9.50)	3M1210-ND	.71	.54	.49	151210-7422-TB
12	.453 (11.51)	3M1212-ND	.77	.59	.53	151212-7422-TB
20	.768 (19.51)	3M1220-ND	1.04	.79	.72	151220-7422-TB
24	.925 (23.50)	3M1224-ND	1.21	.92	.83	151224-7422-TB
30	1.162 (29.51)	3M1230-ND	1.39	1.06	.96	151230-7422-TB
40	1.556 (39.52)	3M1240-ND	1.87	1.43	1.29	151240-7422-TB
44	1.714 (43.54)	3M1244-ND	2.00	1.52	1.38	151244-7422-TB
50	1.950 (49.53)	3M1250-ND	2.18	1.66	1.51	151250-7422-TB
60	2.344 (59.54)	3M1260-ND	2.50	1.90	1.72	151260-7422-TB

3M 2mm Wiremount Socket



2mm Wiremount Socket – 1mm Pitch Cable

Features: • Industry standard compatible • Mates with 2mm x 2mm grid pin strips • Low profile • Preassembled covers • Available with and without strain relief **Physical Specifications:** • **Insulation Material:** Glass Filled Polyester (PBT), Flammability: UL94 V-0 • **Color:** Gray • **Contact Material:** Beryllium copper • **Contact Plating:** • Underplate and U-slot: 50-150µ" Nickel, QQ-N-290, Class 2 • Wiping area: Gold Mil-G-45204, Type II, Grade C • **Marking:** Orientation triangle and 3M logo **Electrical Specifications:** • Current Rating: 1Amp • Insulation Resistance: >1x10Ω at 500 VDC • Withstanding Voltage: 1000Vrms at Sea Level **Environmental Specifications:** • Operating Temperature Rating: -55°C ~ 105°C **Rating:** UL File No. E86982, CSA File No. LR#48869

1.0mm Round Conductor Flat Cable – 28AWG Stranded, PVC

Features: • Close spacing permits high signal density • 28AWG wire on 1mm centers permits mass termination to 2mm connectors • Zipcable for branching or discrete termination • Stranded wire provides flexibility and extended product life **Physical Specifications:** • Insulation Material: Polyvinyl Chloride (PVC) • Color: Gray • Marking: Red Edge • Conductors: 28AWG, 7 x 36 Tinned Stranded Copper **Electrical Specifications:** • Voltage Rating: 300V • Insulation Resistance: >1 x 10¹⁰Ω/3m (10 ft) • Characteristic Impedance: 92Ω Unbalanced, 146Ω Balanced • Capacitance: 55.50 pF/m Unbalanced, 42.77 pF/m Balanced • Inductance: 0.47µH/m Unbalanced, 0.70µH/m Balanced • Propagation Delay: 4.95ns/m Unbalanced, 4.78ns/m Balanced **Environmental Specifications:** • Temperature Rating Operating: -20°C ~ 105°C • Flammability Rating: UL: VW-1, CSA: FT1 **Rating:** UL File No. E42769, Style 2651 CSA File No. LL 53649 (optional), • RoHS Compliant

No. of Pos.	Digi-Key Part No.	Price Each 1	100	500	3M Part No.
IDC Socket Gold					
10	MSA10A-ND	3.14	2.39	2.12	152210-0100-GB
12	MSA12A-ND	3.18	2.42	2.19	152212-0100-GB
44	MSA44A-ND	4.49	3.42	3.09	152244-0100-GB
50	MSA50A-ND	4.58	3.48	3.15	152250-0100-GB
IDC Socket Gold with Strain Relief					
10	MSE10A-ND	3.64	2.77	2.51	152210-0103-GB
12	MSE12A-ND	3.83	2.91	2.64	152212-0103-GB
44	MSE44A-ND	5.05	3.84	3.48	152244-0103-GB
50	MSE50A-ND	5.14	3.91	3.54	152250-0103-GB

No. of Pos.	(NOTE: "X" in Part No. Represents No. of Meters) Digi-Key Part No.	Price Per Meters 5	10	25	50	100	3M Part No.
Ribbon Cable Gray							
10	MC10L-X-ND	7.08	13.14	29.32	50.55	80.88	3625/10 100M
12	MC12L-X-ND	8.49	15.77	35.18	60.66	97.06	3625/12 100M
44	MC44L-X-ND	31.14	57.83	129.01	222.43	355.88	3625/44 100M
50	MC50L-X-ND	35.39	65.72	146.60	252.75	404.40	3625/50 100M

100m reel quantity may contain splices. Splice position will be marked on the reel.

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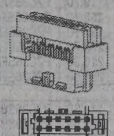
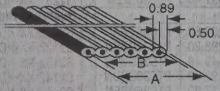
2mm Cable-to-Board Receptacle - "Lead Free"



UL2651, UL2678 **UL File No:** E29179 **CSA File No:** LR19980 **Mates With:** Milli-Grid 2.00mm Headers ***Electrical:*** **Voltage:** 125VDC **Current:** 1.0A **Contact Res.:** 30mΩ max. **Dielectric Withstanding Volt.:** 500VAC **Insulation Res.:** 5000MΩ min. ***Physical:*** **Housing:** High Thermoplastic, UL 94V-0 **Contact:** Copper Alloy **Plating Contact Area:** (15µ") Gold **Operating Temp.:** -20°C ~ 85°C **Cable:** 1.00mm Flat Cable, 7 Strands, 28 AWG

No. of Pos.	Dim. (mm) A	B	Digi-Key Part No.	Price Each 1	10	25	Molex Part No.
Dual Row, IDT w/out Polarization and Locking Ramp							
10	16.65	8.00	WM14210-ND	2.95	2.37	1.97	87568-1063
12	18.65	10.00	WM14212-ND	3.20	2.57	2.14	87568-1263
14	20.65	12.00	WM14214-ND	3.69	2.96	2.47	87568-1463
16	22.65	14.00	WM14216-ND	3.96	3.17	2.64	87568-1663
20	26.65	18.00	WM14220-ND	4.12	3.30	2.75	87568-2063
22	28.65	20.00	WM14222-ND	4.53	3.63	3.03	87568-2263
24	30.65	22.00	WM14224-ND	4.94	3.96	3.30	87568-2463
26	32.65	24.00	WM14226-ND	5.04	4.03	3.36	87568-2663
30	36.65	28.00	WM14230-ND	5.45	4.36	3.64	87568-3063
34	40.65	32.00	WM14234-ND	5.61	4.49	3.74	87568-3463
40	46.65	38.00	WM14240-ND	6.19	4.96	4.13	87568-4063
44	50.65	42.00	WM14244-ND	6.35	5.08	4.24	87568-4463
50	56.65	48.00	WM14250-ND	7.00	5.61	4.67	87568-5063
Dual Row, IDT with Single Locking Ramp							
10	16.65	8.00	WM14310-ND	2.72	2.18	1.82	87568-1073
12	18.65	10.00	WM14312-ND	3.20	2.57	2.14	87568-1273
Dual Row, IDT with Polarization and Locking Ramp							
14	20.65	12.00	WM14314-ND	3.69	2.96	2.47	87568-1493
16	22.65	14.00	WM14316-ND	3.96	3.17	2.64	87568-1693
20	26.65	18.00	WM14320-ND	4.12	3.30	2.75	87568-2093
22	28.65	20.00	WM14322-ND	4.53	3.63	3.03	87568-2293
24	30.65	22.00	WM14324-ND	4.94	3.96	3.30	87568-2493
26	32.65	24.00	WM14326-ND	5.04	4.03	3.36	87568-2693
30	36.65	28.00	WM14330-ND	5.32	4.26	3.55	87568-3093
34	40.65	32.00	WM14334-ND	5.61	4.49	3.74	87568-3493
40	46.65	38.00	WM14340-ND	6.19	4.96	4.13	87568-4093
44	50.65	42.00	WM14344-ND	6.00	4.80	4.00	87568-4493
50	56.65	48.00	WM14350-ND	7.12	5.70	4.75	87568-5093

1mm Round Conductor Flat Cable



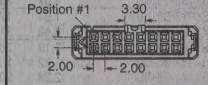
UL File No: E61522, UL Style No. 2678 **CSA File No:** LL61126 **Electrical: Voltage:** 150V **Physical: Flammability:** VW-1 **Operating Temperature:** -20°C ~ 105°C **Insulation:** Gray PVC **Edge Mark:** Black, 28AWG Stranded, Tinned

Circuits	Dim. (mm) A	B	Digi-Key Part No.	(NOTE: "X" in Part No. Represents No. of Feet) Price Per Feet 5	10	25	50	100
10	10.00	9.00	WM11-X-ND	4.38	8.24	18.02	30.89	51.48
20	20.00	19.00	WM12-X-ND	7.42	13.96	30.55	52.36	87.27
24	24.00	23.00	WM13-X-ND	8.90	16.75	36.64	62.82	104.69
40	40.00	39.00	WM14-X-ND	16.39	30.85	67.49	115.70	192.83
44	44.00	43.00	WM15-X-ND	18.03	33.94	74.25	127.28	212.14
50	50.00	49.00	WM16-X-ND	18.63	35.06	76.70	131.48	219.14

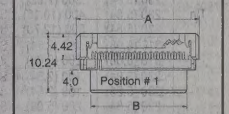
tyco Electronics AMP

2mm Ribbon Connectors

Polarized



Non-polarized



Dimensions in mm

The new 2.0 (.079) AMP-LATCH® receptacle connector family features contacts on a true 2.0 x 2.0 (.079 x .079) mating grid for 1.0 (.039) pitch ribbon. These receptacles feature insulation displacement contacts (IDC) with a top/bottom single beam contact orientation. Contacts are beryllium copper, duplex plated 30µ" gold in the mating area and 100µ" min. tin-lead on termination end all over 50µ" nickel underplating. Contact mating area is 1.54 (.061) from the face of the housing and they accept 0.50mm (.0197) round or square posts.

Product Facts:

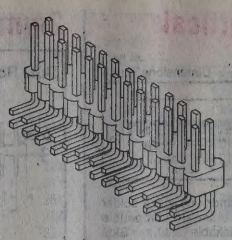
- True hard metric 2.0 x 2.0 mating grid for 1.0 pitch ribbon cable
- Insulation displacement (IDC), beryllium copper contacts, duplex plated gold-over-nickel
- U.L. 94V-0 rated thermoplastic components

Performance Data:

- Durability: 150 cycles
- Termination Resistance: 25mΩ max.
- Mating Force: 1.67N max.
- Unmating Force: 0.14N min.
- Operating Temperature: -65°C ~ 105°C

No. of Pos.	Dimensions A	B	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Receptacle — Feed Thru Cover Polarized						
10	15.16	10.41	AKA10K-ND	2.36	1.48	111623-1
14	19.18	14.40	AKA14K-ND	2.41	1.52	111623-2
16	21.18	16.41	AKA16K-ND	2.79	1.75	111623-3
20	25.17	20.40	AKA20K-ND	2.57	1.61	111623-4
24	29.18	24.41	AKA24K-ND	3.36	2.11	111623-5
26	31.17	26.42	AKA26K-ND	2.99	1.88	111623-6
30	35.18	30.40	AKA30K-ND	3.04	1.91	111623-7
40	45.19	40.41	AKA40K-ND	3.73	2.34	111623-9
44	49.17	44.40	AKA44K-ND	3.63	2.28	1-111623-0
50	55.17	50.39	AKA50K-ND	3.85	2.41	1-111623-1
Receptacle — Feed Thru Cover Non-Polarized						
8	13.18	8.41	ASA08K-ND	2.72	1.71	1-111626-6
10	15.16	10.41	ASA10K-ND	2.66	1.67	111626-1
14	19.18	14.40	ASA14K-ND	2.75	1.73	111626-2
16	21.18	16.41	ASA16K-ND	5.99	3.76	111626-3
20	25.17	20.40	ASA20K-ND	2.54	1.60	111626-4
24	29.18	24.41	ASA24K-ND	3.26	2.05	111626-5
26	31.17	26.42	ASA26K-ND	3.44	2.16	111626-6
30	35.19	30.40	ASA40K-ND	3.69	2.32	1-111626-9
44	49.17	44.40	ASA44K-ND	3.63	2.28	1-111626-0
50	55.17	50.39	ASA50K-ND	3.96	2.49	1-111626-1

Sullins .025" (.64mm) Square Headers



Available in 1 to 36 Pin Versions!

Features • Available in 36-pin version or 1 to 35 size to meet your application • Temperature: -65°C ~ 125°C • UL Flammability Rating: 94V-0 • Current Rating: 3 amperes
Materials • Insulator Material: Black thermoplastic polyester • Contact Material: CA510, phosphor bronze • Contact Plating: **Head:** PTC — .00010" Tin, PZC — .000010" Gold; PXC — .000030" Gold; **Tail:** .00010" Tin

A

TO PURCHASE A 36 PIN HEADER...

Contact Finish	Dimensions inch (mm) A	B	Digi-Key Part No.	Pricing 1	10	100	Sullins Part No.
Single Row Straight (36 Pins)							
	.230 (5.84)	.120 (3.05)	S1012-36-ND	1.03	9.18	75.60	PTC36SAAN
	.230 (5.84)	.230 (5.84)	S1022-36-ND	1.77	15.81	130.20	PTC36SABN
	.230 (5.84)	.320 (8.13)	S1032-36-ND	1.91	17.09	140.70	PTC36SACN
	.230 (5.84)	.420 (10.67)	S1042-36-ND	2.08	18.62	153.30	PTC36SADN
	.230 (5.84)	.520 (13.21)	S1052-36-ND	2.22	19.89	163.80	PTC36SAEN
	.230 (5.84)	.620 (15.75)	S1062-36-ND	2.76	24.74	203.70	PTC36SAFN
Tin	.230 (5.84)	.720 (18.29)	S1072-36-ND	2.94	26.27	216.30	PTC36SAGN
	.230 (5.84)	.820 (20.83)	S1082-36-ND	3.11	27.80	228.90	PTC36SAHN
	.318 (8.08)	.120 (3.05)	S1212-36-ND	1.28	11.48	94.50	PTC36SFAN
	.318 (8.08)	.220 (5.59)	S1222-36-ND	2.11	18.87	155.40	PTC36SFBN
	.318 (8.08)	.320 (8.13)	S1232-36-ND	2.28	20.40	168.00	PTC36SFCN
	.318 (8.08)	.420 (10.67)	S1242-36-ND	2.45	21.93	180.60	PTC36SFDN
	.318 (8.08)	.520 (13.21)	S1252-36-ND	3.31	29.58	243.60	PTC36SFEN
	.120 (3.05)	.120 (3.05)	S1083-36-ND ***NEW!***	4.45	39.78	327.60	PXC36SZAN
	.230 (5.84)	.120 (3.05)	S1053-36-ND ***NEW!***	2.39	21.42	176.40	PXC36SAAN
	.230 (5.84)	.120 (3.05)	S1011-36-ND	1.28	11.48	94.50	PZC36SAAN
	.230 (5.84)	.230 (5.84)	S1021-36-ND	2.14	19.13	157.50	PZC36SABN
	.230 (5.84)	.320 (8.13)	S1031-36-ND	2.59	23.49	198.45	PZC36SACN
	.230 (5.84)	.420 (10.67)	S1041-36-ND	2.45	21.93	180.60	PZC36SADN
	.230 (5.84)	.520 (13.21)	S1051-36-ND	2.62	23.46	193.20	PZC36SAEN
	.230 (5.84)	.620 (15.75)	S1061-36-ND	3.19	28.56	235.20	PZC36SAFN
Gold	.230 (5.84)	.720 (18.29)	S1071-36-ND	3.36	30.09	247.80	PZC36SAGN
	.230 (5.84)	.820 (20.83)	S1081-36-ND	3.53	31.62	260.40	PZC36SAHN
	.318 (8.08)	.120 (3.05)	S1063-36-ND ***NEW!***	2.51	22.44	184.80	PXC36SFAN
	.318 (8.08)	.120 (3.05)	S1211-36-ND	1.62	14.54	119.70	PZC36SFAN
	.318 (8.08)	.220 (5.59)	S1073-36-ND ***NEW!***	3.62	32.39	266.70	PXC36SFBN
	.318 (8.08)	.220 (5.59)	S1221-36-ND	2.59	23.21	191.10	PZC36SFBN
	.318 (8.08)	.320 (8.13)	S1231-36-ND	2.76	24.74	203.70	PZC36SFCN
	.318 (8.08)	.420 (10.67)	S1241-36-ND	2.94	26.27	216.30	PZC36SFDN
	.318 (8.08)	.520 (13.21)	S1251-36-ND	3.85	34.43	283.50	PZC36SFEN
Single Row Right-Angle (36 Pins)							
	.230 (5.84)	.100 (2.54)	S1112-36-ND	1.51	13.52	111.30	PTC36SBAN
	.230 (5.84)	.200 (5.08)	S1122-36-ND	1.94	17.34	142.80	PTC36SBBN
	.230 (5.84)	.300 (7.62)	S1132-36-ND	2.79	24.99	205.80	PTC36SBCN
Tin	.230 (5.84)	.400 (10.16)	S1142-36-ND	3.76	33.66	277.20	PTC36SBDN
	.230 (5.84)	.500 (12.70)	S1152-36-ND	4.02	35.96	296.10	PTC36SBEN
	.318 (8.08)	.100 (2.54)	S1312-36-ND	1.94	17.34	142.80	PTC36SGAN
	.318 (8.08)	.200 (5.08)	S1322-36-ND	3.48	31.11	256.20	PTC36SGBN
	.230 (5.84)	.100 (2.54)	S1153-36-ND ***NEW!***	3.19	28.56	235.20	PXC36SBAN
	.230 (5.84)	.100 (2.54)	S1111-36-ND	1.82	16.32	134.40	PZC36SBAN
	.230 (5.84)	.200 (5.08)	S1121-36-ND	2.28	20.40	168.00	PZC36SBBN
	.230 (5.84)	.300 (7.62)	S1131-36-ND	3.22	28.82	237.30	PZC36SBCN
Gold	.230 (5.84)	.400 (10.16)	S1141-36-ND	4.25	38.00	312.90	PZC36SBDN
	.230 (5.84)	.500 (12.70)	S1151-36-ND	4.50	40.29	331.80	PZC36SBEN
	.318 (8.08)	.100 (2.54)	S1311-36-ND	2.34	20.91	172.20	PZC36SGAN
	.318 (8.08)	.200 (5.08)	S1321-36-ND	4.02	35.96	296.10	PZC36SGBN
Dual Row Straight (72 Pins)							
	.230 (5.84)	.120 (3.05)	S2012-36-ND	1.85	16.58	136.50	PTC36DAAN
	.230 (5.84)	.230 (5.84)	S2022-36-ND	2.76	24.74	203.70	PTC36DABN
	.230 (5.84)	.320 (8.13)	S2032-36-ND	3.96	35.45	291.90	PTC36DACN
	.230 (5.84)	.420 (10.67)	S2042-36-ND	4.30	38.51	317.10	PTC36DADN
	.230 (5.84)	.520 (13.21)	S2052-36-ND	4.65	41.57	342.30	PTC36DAEN
	.230 (5.84)	.620 (15.75)	S2062-36-ND	5.96	53.30	438.90	PTC36DAFN
Tin	.230 (5.84)	.720 (18.29)	S2072-36-ND	6.33	56.61	466.20	PTC36DAGN
	.230 (5.84)	.820 (20.83)	S2082-36-ND	6.70	59.93	493.50	PTC36DAHN
	.318 (8.08)	.120 (3.05)	S2212-36-ND	2.34	20.91	172.20	PTC36DFAN
	.318 (8.08)	.220 (5.59)	S2222-36-ND	3.65	32.64	268.80	PTC36DFBN
	.318 (8.08)	.320 (8.13)	S2232-36-ND	3.99	35.70	294.00	PTC36DFCN
	.318 (8.08)	.420 (10.67)	S2242-36-ND	4.33	38.76	319.20	PTC36DFDN
	.318 (8.08)	.520 (13.21)	S2252-36-ND	5.59	49.98	411.60	PTC36DFEN
	.120 (3.05)	.120 (3.05)	S2411-36-ND ***NEW!***	6.41	57.38	472.50	PZC36DZAN
	.230 (5.84)	.120 (3.05)	S2371-36-ND ***NEW!***	4.19	37.49	308.70	PXC36DAAN
	.230 (5.84)	.120 (3.05)	S2011-36-ND	2.37	21.17	174.30	PZC36DAAN
	.230 (5.84)	.230 (5.84)	S2021-36-ND	3.48	31.11	256.20	PZC36DABN
	.230 (5.84)	.320 (8.13)	S2031-36-ND	4.82	43.10	354.90	PZC36DACN
	.230 (5.84)	.420 (10.67)	S2041-36-ND	5.16	46.16	380.10	PZC36DADN
	.230 (5.84)	.520 (13.21)	S2051-36-ND	5.50	49.22	405.30	PZC36DAEN
	.230 (5.84)	.620 (15.75)	S2061-36-ND	6.90	61.71	508.20	PZC36DAFN
Gold	.230 (5.84)	.720 (18.29)	S2071-36-ND	7.27	65.03	535.50	PZC36DAGN
	.230 (5.84)	.820 (20.83)	S2081-36-ND	7.67	68.60	564.90	PZC36DAHN
	.318 (8.08)	.120 (3.05)	S2381-36-ND ***NEW!***	4.36	39.02	321.30	PXC36DFAN
	.318 (8.08)	.120 (3.05)	S2211-36-ND	3.02	27.03	222.60	PZC36DFAN
	.318 (8.08)	.220 (5.59)	S2391-36-ND ***NEW!***	7.52	67.32	554.40	PXC36DFBN
	.318 (8.08)	.220 (5.59)	S2221-36-ND	4.62	41.31	340.20	PZC36DFBN
	.318 (8.08)	.320 (8.13)	S2231-36-ND	4.96	44.37	365.40	PZC36DFCN
	.318 (8.08)	.420 (10.67)	S2241-36-ND	5.30	47.43	390.60	PZC36DFDN
	.318 (8.08)	.520 (13.21)	S2251-36-ND	6.67	59.67	491.40	PZC36DFEN
Dual Row Right-Angle (72 Pins)							
	.230 (5.84)	.100 (2.54)	S2112-36-ND	2.79	24.99	205.80	PTC36DBAN
	.230 (5.84)	.200 (5.08)	S2122-36-ND	4.05	36.21	298.20	PTC36DBBN
	.230 (5.84)	.300 (7.62)	S2132-36-ND	6.10	54.57	449.40	PTC36DBCN
Tin	.230 (5.84)	.400 (10.16)	S2142-36-ND	6.70	59.93	493.50	PTC36DBDN
	.230 (5.84)	.500 (12.70)	S2152-36-ND	7.30	65.28	537.60	PTC36DBEN
	.318 (8.08)	.100 (2.54)	S2312-36-ND	5.33	47.69	392.70	PTC36DGAN
	.318 (8.08)	.200 (5.08)	S2322-36-ND	6.58	58.91	485.10	PTC36DGBN
	.230 (5.84)	.100 (2.54)	S2421-36-ND ***NEW!***	5.64	50.45	415.80	PXC36DBAN
	.230 (5.84)	.100 (2.54)	S2111-36-ND	3.42	30.60	252.00	PZC36DBAN
	.230 (5.84)	.200 (5.08)	S2121-36-ND	4.79	42.84	352.80	PZC36DBBN
	.230 (5.84)	.300 (7.62)	S2131-36-ND	7.07	63.24	520.80	PZC36DBCN
Gold	.230 (5.84)	.400 (10.16)	S2141-36-ND	7.64	68.34	562.80	PZC36DBDN
	.230 (5.84)	.500 (12.70)	S2151-36-ND	8.24	73.70	606.90	PZC36DBEN
	.318 (8.08)	.100 (2.54)	S2311-36-ND	6.30	56.36	464.10	PZC36DGAN
	.318 (8.08)	.200 (5.08)	S2321-36-ND	7.67	68.60	564.90	PZC36DGBN
Shorting Jumpers							
Tin	.100 .256 Open End		S9000-ND	—	.93	—	STC02SYAN
Au Flash			S9001-ND	—	1.16	—	SPC02SYAN
Gold			S9002-ND	—	1.31	—	SSC02SYAN

TO PURCHASE A CUSTOM PIN HEADER...

STEP 1 Digi-Key Part No.	STEP 2 Base Price	STEP 3 Pin Adder
Single Row Straight (36 Pins)		
S1012-XX-ND	.39	.02
S1022-XX-ND	.83	.03
S1032-XX-ND	.98	.03
S1042-XX-ND	.81	.04
S1052-XX-ND	.96	.04
S1062-XX-ND	1.18	.05
S1072-XX-ND	1.38	.05
S1082-XX-ND	1.20	.06
S1212-XX-ND	.66	.02
S1222-XX-ND	.84	.04
S1232-XX-ND	1.02	.04
S1242-XX-ND	1.21	.04
S1252-XX-ND	1.41	.06
S1083-XX-ND	1.56	.04
S1053-XX-ND	.84	.02
S1011-XX-ND	.66	.02
S1021-XX-ND	.87	.04
S1031-XX-ND	1.05	.04
S1041-XX-ND	1.21	.04
S1051-XX-ND	1.03	.05
S1061-XX-ND	1.29	.06
S1071-XX-ND	1.47	.06
S1081-XX-ND	1.65	.06
S1063-XX-ND	.88	.03
S1211-XX-ND	.67	.03
S1073-XX-ND	1.27	.05
S1221-XX-ND	1.00	.05
S1231-XX-ND	1.18	.05
S1241-XX-ND	1.38	.05
S1251-XX-ND	1.64	.07
Single Row Right-Angle (36 Pins)		
S1112-XX-ND	.55	.03
S1122-XX-ND	.66	.04
S1132-XX-ND	1.21	.05
S1142-XX-ND	1.54	.07
S1152-XX-ND	1.82	.07
S1312-XX-ND	.66	.04
S1322-XX-ND	1.60	.06
S1153-XX-ND	1.12	.03
S1111-XX-ND	.89	.03
S1121-XX-ND	1.02	.04
S1131-XX-ND	1.32	.06
S1141-XX-ND	1.71	.08
S1151-XX-ND	1.98	.08
S1311-XX-ND	1.09	.04
S1321-XX-ND	1.82	.07
Dual Row Straight (72 Pins)		
S2012-XX-ND	.92	.03
S2022-XX-ND	1.18	.05
S2032-XX-ND	1.76	.07
S2042-XX-ND	1.76	.08
S2052-XX-ND	2.14	.08
S2062-XX-ND	2.48	.11
S2072-XX-ND	2.52	.12
S2082-XX-ND	2.92	.12
S2212-XX-ND	1.09	.04
S2222-XX-ND	1.42	.07
S2232-XX-ND	1.79	.07
S2242-XX-ND	1.80	.08
S2252-XX-ND	2.44	.10
S2411-XX-ND	2.25	.08
S2371-XX-ND	1.47	.04
S2011-XX-ND	1.12	.04
S2021-XX-ND	1.60	.06
S2031-XX-ND	1.97	.09
S2041-XX-ND	2.33	.09
S2051-XX-ND	2.34	.10
S2061-XX-ND	2.77	.13
S2071-XX-ND	3.17	.13
S2081-XX-ND	3.24	.14
S2381-XX-ND	1.53	.06
S2211-XX-ND	1.46	.05
S2391-XX-ND	2.64	.08
S2221-XX-ND	2.11	.08
S2231-XX-ND	2.12	.09
S2241-XX-ND	2.12	.10
S2251-XX-ND	2.88	.12
Dual Row Right-Angle (72 Pins)		
S2112-XX-ND	1.21	.05
S2122-XX-ND	1.85	.07
S2132-XX-ND	2.63	.11
S2142-XX-ND	2.92	.12
S2152-XX-ND	3.20	.13
S2312-XX-ND	2.16	.10
S2322-XX-ND	2.79	.12
S2421-XX-ND	1.98	.06
S2111-XX-ND	1.53	.06
S2121-XX-ND	1.93	.09
S2131-XX-ND	2.96	.13
S2141-XX-ND	3.21	.14
S2151-XX-ND	3.50	.15
S2311-XX-ND	2.84	.11
S2321-XX-ND	3.24	.14

HOW TO ORDER - 4 EASY STEPS

How do I order an S1012 header with 16 pins?

Call Digi-Key where you'll happily receive the price.

or

Determine the cost yourself

S□□□□-□□-ND

Base Part Number — Number of Desired Pins per row

Step 1. Select needed "Digi-Key Part Number" and number of pins desired.

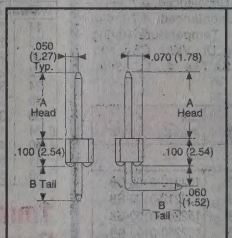
Step 2. Begin with appropriate "Base Price" of your selected Part Number (refer to chart).

Step 3. Multiply the number of pins you desire by "Pin Adder" of your selected Part Number (refer to chart).

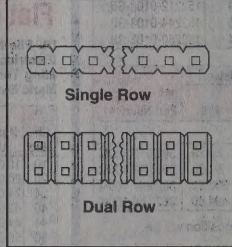
Step 4. Add Step 2 & Step 3 together for Final Cost!

	Our Example	Your Digi-Key Part Number
Step 1.	S1012-16-ND	S____-__-ND
Step 2.	.39	_____
Step 3.	16 x .02 = .32	____ x ____ = _____
Step 4.	Your Cost = $.71	Your Cost = $_____

NOTE: For quantities of 10 or more, call DIGI-KEY.



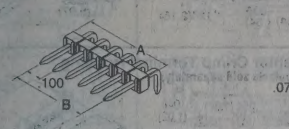
Single Straight | Single Right Angle | Dual Straight | Dual Right Angle



More Product Available Online: www.digikey.com
Toll-Free: 1-800-344-4539 • Phone: 218-681-6674 • Fax: 218-681-3380

Fig. 1 — KK® Breakaway Header – Right Angle

Features: • 250V • 4.0A • Contact Resistance: 20mΩ max. • Dielectric Withstanding Voltage: 1500V • Insulation Resistance: 50K MΩ min. • Housing: Glass-filled nylon, UL94V-0 • Contact: Phosphor Bronze, 0.64mm (.025") square • Temperature Range: 0°C ~ 75°C • UL File No.: E29179 • CSA File No.: LR19980

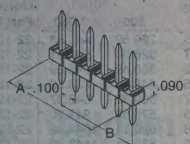


Mating End M (inch)	PC Tail P (inch)	Part No.
.244	.120	22-28-8XX0* 22-28-8XX2*
.324	.120	22-28-8XX1* 22-28-8XX3*

*Replace XX with no. of circuits, 02-36.

Fig. 2 — KK® Breakaway Header – Vertical

Features: • 250V • 4.0A • Contact Resistance: 20mΩ max. • Dielectric Withstanding Voltage: 1500V • Insulation Resistance: 50K MΩ min. • Housing: Glass-filled nylon, UL94V-0 • Contact: Phosphor Bronze, 0.64mm (.025") square • Temperature Range: 0°C ~ 75°C • UL File No.: E29179 • CSA File No.: LR19980

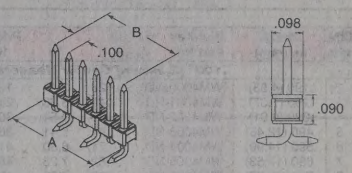


Mating End M (inch)	PC Tail P (inch)	Part No.
.240	.125	22-28-4XX0* 22-28-4XX3*
.320	.130	22-28-4XX1* 22-28-4XX4*

*Replace XX with no. of circuits, 02-36.

Fig. 3 — .100" KK® Breakaway Header – Single Row, Unshrouded, SMT, Vertical

Features:
- 250V
- 3.0A
- Contact Resistance: 30mΩ max.
- Withstanding Voltage: 1500VAC
- Insulation Resistance: 50,000 MΩ min.
- Housing: PA Polyamide (Nylon), High Temperature
- Contact: Phosphor Bronze
- Temperature Range: 0°C ~ 75°C
- UL 94V-0



Circuits	Dim. (inch) A	Dim. (inch) B	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Molex Part No.
.100" KK® Breakaway Header							
Fig. 1 — Single Row, Right Angle - Tin							
2	.200	.100	WM6002-ND	.35	.31	.21	22-28-8020
3	.300	.200	WM6003-ND	.42	.38	.25	22-28-8030
4	.400	.300	WM6004-ND	.49	.44	.29	22-28-8040
5	.500	.400	WM6005-ND	.56	.50	.33	22-28-8050
6	.600	.500	WM6006-ND	.63	.56	.38	22-28-8060
7	.700	.600	WM6007-ND	.70	.62	.42	22-28-8070
8	.800	.700	WM6008-ND	.77	.68	.46	22-28-8080
9	.900	.800	WM6009-ND	.84	.74	.50	22-28-8090
10	1.000	.900	WM6010-ND	.91	.80	.54	22-28-8100
11	1.100	1.000	WM6011-ND	.98	.87	.58	22-28-8110
12	1.200	1.100	WM6012-ND	1.05	.93	.62	22-28-8120
14	1.400	1.300	WM6014-ND	1.18	1.05	.70	22-28-8140
16	1.600	1.500	WM6016-ND	1.32	1.17	.78	22-28-8160
18	1.800	1.700	WM6018-ND	1.46	1.30	.87	22-28-8180
20	2.000	1.900	WM6020-ND	1.60	1.42	.95	22-28-8200
22	2.200	2.100	WM6022-ND	1.74	1.54	1.03	22-28-8220
24	2.400	2.300	WM6024-ND	1.88	1.66	1.11	22-28-8240
26	2.600	2.500	WM6026-ND	2.02	1.79	1.19	22-28-8260
28	2.800	2.700	WM6028-ND	2.16	1.91	1.27	22-28-8280
30	3.000	2.900	WM6030-ND	2.30	2.03	1.36	22-28-8300
32	3.200	3.100	WM6032-ND	2.43	2.15	1.44	22-28-8320
34	3.400	3.300	WM6034-ND	2.57	2.28	1.52	22-28-8340
36	3.600	3.500	WM6036-ND	2.71	2.40	1.60	22-28-8360
Fig. 1 — Single Row, Right Angle - 15µ Select Gold							
2	.200	.100	WM6102-ND	.39	.34	.23	22-28-8022
3	.300	.200	WM6103-ND	.47	.42	.28	22-28-8032
4	.400	.300	WM6104-ND	.56	.50	.33	22-28-8042
5	.500	.400	WM6105-ND	.64	.57	.38	22-28-8052
6	.600	.500	WM6106-ND	.73	.65	.43	22-28-8062
7	.700	.600	WM6107-ND	.82	.73	.49	22-28-8072
8	.800	.700	WM6108-ND	.90	.80	.54	22-28-8082
9	.900	.800	WM6109-ND	.99	.88	.59	22-28-8092
10	1.000	.900	WM6110-ND	1.08	.95	.64	22-28-8102
11	1.100	1.000	WM6111-ND	1.16	1.03	.69	22-28-8112
12	1.200	1.100	WM6112-ND	1.25	1.11	.74	22-28-8122
14	1.400	1.300	WM6114-ND	1.42	1.26	.84	22-28-8142
16	1.600	1.500	WM6116-ND	1.59	1.41	.94	22-28-8162
18	1.800	1.700	WM6118-ND	1.77	1.56	1.04	22-28-8182
20	2.000	1.900	WM6120-ND	1.94	1.72	1.15	22-28-8202
22	2.200	2.100	WM6122-ND	2.11	1.87	1.25	22-28-8222
24	2.400	2.300	WM6124-ND	2.29	2.02	1.35	22-28-8242
26	2.600	2.500	WM6126-ND	2.46	2.17	1.45	22-28-8262
28	2.800	2.700	WM6128-ND	2.63	2.33	1.55	22-28-8282
30	3.000	2.900	WM6130-ND	2.80	2.48	1.65	22-28-8302
32	3.200	3.100	WM6132-ND	2.98	2.63	1.76	22-28-8322
34	3.400	3.300	WM6134-ND	3.15	2.78	1.86	22-28-8342
36	3.600	3.500	WM6136-ND	3.32	2.94	1.96	22-28-8362
Fig. 1 — Single Row, Right Angle - Tin							
2	.200	.100	WM6202-ND	.35	.31	.21	22-28-8021
3	.300	.200	WM6203-ND	.42	.38	.25	22-28-8031
4	.400	.300	WM6204-ND	.49	.44	.29	22-28-8041
5	.500	.400	WM6205-ND	.56	.50	.33	22-28-8051
6	.600	.500	WM6206-ND	.63	.56	.38	22-28-8061
7	.700	.600	WM6207-ND	.70	.62	.42	22-28-8071
8	.800	.700	WM6208-ND	.77	.68	.46	22-28-8081
9	.900	.800	WM6209-ND	.84	.74	.50	22-28-8091
10	1.000	.900	WM6210-ND	.91	.80	.54	22-28-8101
11	1.100	1.000	WM6211-ND	.98	.87	.58	22-28-8111
12	1.200	1.100	WM6212-ND	1.05	.93	.62	22-28-8121
14	1.400	1.300	WM6214-ND	1.18	1.05	.70	22-28-8141
16	1.600	1.500	WM6216-ND	1.32	1.17	.78	22-28-8161
18	1.800	1.700	WM6218-ND	1.46	1.30	.87	22-28-8181
20	2.000	1.900	WM6220-ND	1.60	1.42	.95	22-28-8201
22	2.200	2.100	WM6222-ND	1.74	1.54	1.03	22-28-8221
24	2.400	2.300	WM6224-ND	1.88	1.66	1.11	22-28-8241
26	2.600	2.500	WM6226-ND	2.02	1.79	1.19	22-28-8261
28	2.800	2.700	WM6228-ND	2.16	1.91	1.27	22-28-8281
30	3.000	2.900	WM6230-ND	2.30	2.03	1.36	22-28-8301
32	3.200	3.100	WM6232-ND	2.43	2.15	1.44	22-28-8321
34	3.400	3.300	WM6234-ND	2.57	2.28	1.52	22-28-8341
36	3.600	3.500	WM6236-ND	2.71	2.40	1.60	22-28-8361
Fig. 1 — Single Row, Right Angle - 15µ Select Gold							
2	.200	.100	WM6302-ND	.39	.34	.23	22-28-8023
3	.300	.200	WM6303-ND	.47	.42	.28	22-28-8033
4	.400	.300	WM6304-ND	.56	.50	.33	22-28-8043
5	.500	.400	WM6305-ND	.64	.57	.38	22-28-8053
6	.600	.500	WM6306-ND	.73	.65	.43	22-28-8063
7	.700	.600	WM6307-ND	.82	.73	.49	22-28-8073
8	.800	.700	WM6308-ND	.90	.80	.54	22-28-8083
9	.900	.800	WM6309-ND	.99	.88	.59	22-28-8093
10	1.000	.900	WM6310-ND	1.08	.95	.64	22-28-8103
11	1.100	1.000	WM6311-ND	1.16	1.03	.69	22-28-8113
12	1.200	1.100	WM6312-ND	1.25	1.11	.74	22-28-8123
14	1.400	1.300	WM6314-ND	1.42	1.26	.84	22-28-8143
16	1.600	1.500	WM6316-ND	1.59	1.41	.94	22-28-8163
18	1.800	1.700	WM6318-ND	1.77	1.56	1.04	22-28-8183
20	2.000	1.900	WM6320-ND	1.94	1.72	1.15	22-28-8203
22	2.200	2.100	WM6322-ND	2.11	1.87	1.25	22-28-8223
24	2.400	2.300	WM6324-ND	2.29	2.02	1.35	22-28-8243
26	2.600	2.500	WM6326-ND	2.46	2.17	1.45	22-28-8263
28	2.800	2.700	WM6328-ND	2.63	2.33	1.55	22-28-8283
30	3.000	2.900	WM6330-ND	2.80	2.48	1.65	22-28-8303
32	3.200	3.100	WM6332-ND	2.98	2.63	1.76	22-28-8323
34	3.400	3.300	WM6334-ND	3.15	2.78	1.86	22-28-8343
36	3.600	3.500	WM6336-ND	3.32	2.94	1.96	22-28-8363
Fig. 2 — Single Row, Vertical - Tin							
2	.200	.100	WM6402-ND	.29	.26	.18	22-28-4020
3	.300	.200	WM6403-ND	.33	.30	.20	22-28-4030
4	.400	.300	WM6404-ND	.37	.33	.22	22-28-4040
5	.500	.400	WM6405-ND	.41	.37	.25	22-28-4050
6	.600	.500	WM6406-ND	.45	.40	.27	22-28-4060
7	.700	.600	WM6407-ND	.49	.43	.29	22-28-4070
8	.800	.700	WM6408-ND	.53	.47	.31	22-28-4080
9	.900	.800	WM6409-ND	.57	.50	.34	22-28-4090
10	1.000	.900	WM6410-ND	.61	.54	.36	22-28-4100
11	1.100	1.000	WM6411-ND	.64	.57	.38	22-28-4110
12	1.200	1.100	WM6412-ND	.68	.61	.41	22-28-4120
14	1.400	1.300	WM6414-ND	.76	.68	.45	22-28-4140
16	1.600	1.500	WM6416-ND	.84	.75	.50	22-28-4160
18	1.800	1.700	WM6418-ND	.92	.82	.55	22-28-4180
20	2.000	1.900	WM6420-ND	1.00	.89	.59	22-28-4200
22	2.200	2.100	WM6422-ND	1.08	.95	.64	22-28-4220
24	2.400	2.300	WM6424-ND	1.16	1.02	.68	22-28-4240
26	2.600	2.500	WM6426-ND	1.23	1.09	.73	22-28-4260
28	2.800	2.700	WM6428-ND	1.31	1.16	.78	22-28-4280
30	3.000	2.900	WM6430-ND	1.39	1.23	.82	22-28-4300
32	3.200	3.100	WM6432-ND	1.47	1.30	.87	22-28-4320
34	3.400	3.300	WM6434-ND	1.55	1.37	.92	22-28-4340
36	3.600	3.500	WM6436-ND	1.63	1.44	.96	22-28-4360
Fig. 2 — Single Row, Vertical - 15µ Select Gold							
2	.200	.100	WM6502-ND	.32	.29	.19	22-28-4023
3	.300	.200	WM6503-ND	.38	.34	.23	22-28-4033
4	.400	.300	WM6504-ND	.43	.38	.26	22-28-4043
5	.500	.400	WM6505-ND	.48	.43	.29	22-28-4053
6	.600	.500	WM6506-ND	.54	.48	.32	22-28-4063
7	.700	.600	WM6507-ND	.59	.53	.35	22-28-4073
8	.800	.700	WM6508-ND	.65	.58	.39	22-28-4083
9	.900	.800	WM6509-ND	.70	.62	.42	22-28-4093
10	1.000	.900	WM6510-ND	.76	.67	.45	22-28-4103
11	1.100	1.000	WM6511-ND	.81	.72	.48	22-28-4113
Fig. 2 — Single Row, Vertical - 15µ Select Gold							
12	1.200	1.100	WM6512-ND	.86	.77	.51	22-28-4123
14	1.400	1.300	WM6514-ND	.97	.86	.58	22-28-4143
16	1.600	1.500	WM6516-ND	1.08	.96	.64	22-28-4163
18	1.800	1.700	WM6518-ND	1.19	1.06	.71	22-28-4183
20	2.000	1.900	WM6520-ND	1.30	1.15	.77	22-28-4203
22	2.200	2.100	WM6522-ND	1.41	1.25	.83	22-28-4223
24	2.400	2.300	WM6524-ND	1.52	1.34	.90	22-28-4243
26	2.600	2.500	WM6526-ND	1.63	1.44	.96	22-28-4263
28	2.800	2.700	WM6528-ND	1.73	1.54	1.03	22-28-4283
30	3.000	2.900	WM6530-ND	1.84	1.63	1.09	22-28-4303
32	3.200	3.100	WM6532-ND	1.95	1.73	1.15	22-28-4323
34	3.400	3.300	WM6534-ND	2.06	1.82	1.22	22-28-4343
36	3.600	3.500	WM6536-ND	2.17	1.92	1.28	22-28-4363
Fig. 2 — Single Row, Vertical - Tin							
2	.200	.100	WM6602-ND	.32	.29	.19	22-28-4021
3	.300	.200	WM6603-ND	.38	.34	.23	22-28-4031
4	.400	.300	WM6604-ND	.43	.38	.26	22-28-4041
5	.500	.400	WM6605-ND	.48	.43	.29	22-28-4051
6	.600	.500	WM6606-ND	.54	.48	.32	22-28-4061
7	.700	.600	WM6607-ND	.59	.53	.35	22-28-4071
8	.800	.700	WM6608-ND	.65	.58	.39	22-28-4081
9	.900	.800	WM6609-ND	.70	.62	.42	22-28-4091
10	1.000	.900	WM6610-ND	.76	.67	.45	22-28-4101
11	1.100	1.000	WM6611-ND	.81	.72	.48	22-28-4111
12	1.200	1.100	WM6612-ND	.86	.77	.51	22-28-4121
14	1.400	1.300	WM6614-ND	.97	.86	.58	22-28-4141
16	1.600	1.500	WM6616-ND	1.08	.96	.64	22-28-4161
18	1.800	1.700	WM6618-ND	1.19	1.06	.71	22-28-4181
20	2.000	1.900	WM6620-ND	1.30	1.15	.77	22-28-4201
22	2.200	2.100	WM6622-ND	1.41	1.25	.83	22-28-4221
24	2.400	2.300	WM6624-ND	1.52	1.34	.90	22-28-4241
26	2.600	2.500	WM6626-ND	1.63	1.44	.96	22-28-4261
28	2.800	2.700	WM6628-ND	1.73	1.54	1.03	22-28-4281
30	3.000	2.900	WM6630-ND	1.84	1.63	1.09	22-28-4301
32	3.200	3.100	WM6632-ND	1.95	1.73	1.15	22-28-4321
34	3.400	3.300	WM6634-ND	2.06	1.82	1.22	22-28-4341
36	3.600	3.500	WM6636-ND	2.17	1.92	1.28	22-28-4361
Fig. 2 — Single Row, Vertical - 15µ Select Gold							
2	.200	.100	WM6702-ND	.35	.31	.21	22-28-4024
3	.300	.200	WM6703-ND	.41	.37	.25	22-28-4034
4	.400	.300	WM6704-ND	.48	.43	.29	22-28-4044
5	.500	.400	WM6705-ND	.55	.49	.33	22-28-4054
6	.600	.500	WM6706-ND	.62	.55	.37	22-28-4064
7	.700	.600	WM6707-ND	.68	.61	.41	22-28-4074
8	.800	.700	WM6708-ND	.75	.67	.45	22-28-4084
9	.900	.800	WM6709-ND	.82	.73	.49	22-28-4094
10	1.000	.900	WM6710-ND	.89	.79	.53	22-28-4104
11	1.100	1.000	WM6711-ND	.95	.85	.57	22-28-4114
12	1.200	1.100	WM6712-ND	1.02	.91	.61	22-28-4124
14	1.400	1.300	WM6714-ND	1.16	1.03	.69	22-28-4144
16	1.600	1.500	WM6716-ND	1.29	1.14	.76	22-28-4164
18	1.800	1.700	WM6718-ND	1.43	1.26	.84	22-28-4184
20	2.000	1.900	WM6720-ND	1.56	1.38	.92	22-28-4204
22	2.200	2.100	WM6722-ND	1.70	1.50	1.00	22-28-4224
24	2.400	2.300	WM6724-ND	1.83	1.62	1.08	22-28-4244
26	2.600	2.500	WM6726-ND	1.97	1.74	1.16	22-28-4264
28	2.800	2.700	WM6728-ND	2.10	1.86	1.24	22-28-4284
30	3.000	2.900	WM6730-ND	2.24	1.98	1.32	22-28-4304
32	3.200	3.100	WM6732-ND	2.37	2.10	1.40	22-28-4324
34	3.400	3.300	WM6734-ND	2.51	2.22	1.48	22-28-4344
36	3.600	3.500	WM6736-ND	2.64	2.33	1.56	22-28-4364
Fig. 3 — Single Row, Vertical - Tin							
2	.200	.100	WM17435-ND	.32	.29	.19	68301-1054
3	.300	.200	WM17436-ND	.46	.41	.28	68301-1014
4	.400	.300	WM17437-ND	.56	.50	.33	68301-1015
5	.500	.400	WM17438-ND	.70	.62	.42	68301-1016
6	.600	.500	WM17439-ND	.83	.74	.49	68301-1017
7	.700	.600	WM17440-ND	.98	.87	.58	68301-1018
8	.800	.700	WM17441-ND	1.14	1.01	.67	68301-1019
Fig. 3 — Single Row, Vertical - 15µ Select Gold							
2	.200	.100	WM17442-ND	.38	.34	.23	68301-1055
3	.300	.200	WM17443-ND	.54	.48	.32	68301-1009
4	.400	.300	WM17444-ND	.69	.61	.41	68301-1010
5	.500	.400	WM17445-ND	.84	.74	.50	68301-1006
6	.600	.500	WM17446-ND	.98	.87	.58	68301-1011
7	.700	.600	WM17447-ND	1.13	1.00	.67	68301-1012
8	.800	.700	WM17448-ND	1.29	1.14	.76	68301-1013

molex Waldom ELECTRONICS

.100" (2.54mm) Center Headers

.025" (.64mm) Square Pins The Molex KK® Concept utilizes a double cantilever contact design in mating with P.C. board pins. UL Recognized (File #29179), CSA Recognized (File 19980) **Voltage Rating:** 250 VAC max. **Current Rating:** Up to 2.5 Amps (with 22 AWG wire) **Resistance:** 20mΩ max. **Dielectric Withstanding Voltage:** 1500 VAC for 60 seconds **Storage Temp.:** -40°C to 105°C **Material:** 94V-0

Fig. 1 - Straight Header

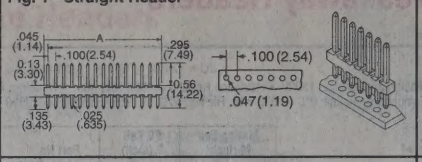


Fig. 2 - Right Angle Header

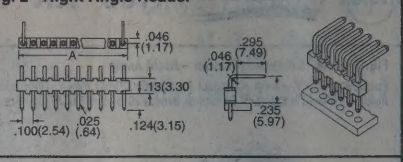


Fig. 3 - Straight-Friction Lock Header

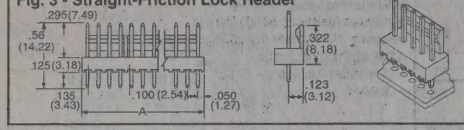


Fig. 4 - Right Angle-Friction Lock Header

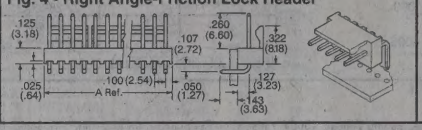


Fig. 5 - Center Crimp Terminal Housing (contacts sold separately)

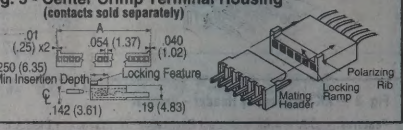


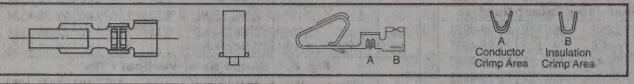
Fig.	Circuits	Dim. A In. (mm)	Digi-Key Part No.	1	10	100	500	1,000	Molex Part No.
			.100" (2.54mm) Center Headers Tin Plating						
	2	.190 (4.83)	WM4000-ND	.28	2.47	16.48	65.93	109.44	22-03-2021
	3	.290 (7.37)	WM4001-ND	.41	3.66	24.38	97.52	161.88	22-03-2031
	4	.390 (9.91)	WM4002-ND	.51	4.54	30.26	121.05	200.94	22-03-2041
	5	.490 (12.45)	WM4003-ND	.61	5.41	36.09	144.37	239.65	22-03-2051
	6	.590 (14.99)	WM4004-ND	.71	6.30	41.98	167.90	278.71	22-03-2061
1	7	.690 (17.53)	WM4005-ND	.82	7.23	48.23	192.92	320.25	22-03-2071
	8	.790 (20.07)	WM4006-ND	.82	7.23	48.23	192.92	320.25	22-03-2081
	9	.890 (22.61)	WM4007-ND	.91	8.03	53.53	214.12	355.44	22-03-2091
	10	.990 (25.15)	WM4008-ND	.91	8.05	53.66	214.65	356.32	22-03-2101
	11	1.090 (27.69)	WM4009-ND	1.00	8.84	58.94	235.74	391.33	22-03-2111
	12	1.190 (30.23)	WM4010-ND	1.08	9.55	63.68	254.72	422.84	22-03-2121
	2	.190 (4.83)	WM4100-ND	.34	2.98	19.85	79.39	131.79	22-05-2021
	3	.290 (7.37)	WM4101-ND	.44	3.91	26.05	104.20	172.97	22-05-2031
	4	.390 (9.91)	WM4102-ND	.56	4.91	32.76	131.02	217.49	22-05-2041
	5	.490 (12.45)	WM4103-ND	.67	5.92	39.46	157.83	262.00	22-05-2051
	6	.590 (14.99)	WM4104-ND	.78	6.92	46.14	184.55	306.35	22-05-2061
2	7	.690 (17.53)	WM4105-ND	.89	7.86	52.42	209.67	348.05	22-05-2071
	8	.790 (20.07)	WM4106-ND	1.01	8.93	59.52	238.08	395.21	22-05-2081
	9	.890 (22.61)	WM4107-ND	1.13	9.97	66.49	265.95	441.48	22-05-2091
	10	.990 (25.15)	WM4108-ND	1.13	10.00	66.65	266.59	442.54	22-05-2101
	11	1.090 (27.69)	WM4109-ND	1.24	10.94	72.90	291.61	484.07	22-05-2111
	12	1.190 (30.23)	WM4110-ND	1.33	11.75	78.31	313.23	519.96	22-05-2121
	2	.200 (5.08)	WM4200-ND	.34	2.98	19.85	79.39	131.79	22-23-2021
	3	.300 (7.62)	WM4201-ND	.43	3.78	25.23	100.91	167.51	22-23-2031
	4	.400 (10.16)	WM4202-ND	.51	4.54	30.26	121.05	200.94	22-23-2041
	5	.500 (12.70)	WM4203-ND	.59	5.24	34.90	139.60	231.74	22-23-2051
	6	.600 (15.24)	WM4204-ND	.66	5.86	39.06	156.24	259.36	22-23-2061
3	7	.700 (17.78)	WM4205-ND	.76	6.73	44.89	179.56	298.07	22-23-2071
	8	.800 (20.32)	WM4206-ND	.86	7.62	50.78	203.10	337.15	22-23-2081
	9	.900 (22.86)	WM4207-ND	.95	8.42	56.15	224.61	372.85	22-23-2091
	10	1.000 (25.40)	WM4208-ND	.96	8.49	56.61	226.42	375.86	22-23-2101
	11	1.100 (27.94)	WM4209-ND	1.05	9.28	61.88	247.51	410.87	22-23-2111
	12	1.200 (30.48)	WM4210-ND	1.13	10.00	66.65	266.59	442.54	22-23-2121
	2	.200 (5.08)	WM4300-ND	.55	4.85	32.36	129.43	214.85	22-05-3021
	3	.300 (7.62)	WM4301-ND	.71	6.30	41.98	167.90	278.71	22-05-3031
	4	.400 (10.16)	WM4302-ND	.88	7.80	51.97	207.87	345.06	22-05-3041
	5	.500 (12.70)	WM4303-ND	.95	8.42	56.15	224.61	372.85	22-05-3051
	6	.600 (15.24)	WM4304-ND	1.05	9.30	62.01	248.04	411.75	22-05-3061
4	7	.700 (17.78)	WM4305-ND	1.22	10.73	71.52	286.09	474.91	22-05-3071
	8	.800 (20.32)	WM4306-ND	1.26	11.12	74.15	296.59	492.34	22-05-3081
	9	.900 (22.86)	WM4307-ND	1.30	11.50	76.64	306.55	508.87	22-05-3091
	10	1.000 (25.40)	WM4308-ND	1.32	11.62	77.46	309.84	514.33	22-05-3101
	11	1.100 (27.94)	WM4309-ND	1.44	12.69	84.59	338.35	561.66	22-05-3111
	12	1.200 (30.48)	WM4310-ND	1.47	13.00	86.68	346.73	575.57	22-05-3121
			.100" (2.54mm) Center Header Gold Plating						
	2	.190 (4.83)	WM2722-ND	.62	5.48	36.52	146.07	242.48	22-10-2021
	3	.290 (7.37)	WM2723-ND	.86	7.55	50.32	201.29	334.14	22-10-2031
	4	.390 (9.91)	WM2724-ND	1.10	9.75	64.98	259.91	431.45	22-10-2041
	5	.490 (12.45)	WM2725-ND	1.35	11.94	79.61	318.42	528.58	22-10-2051
	6	.590 (14.99)	WM2726-ND	1.59	14.07	93.81	375.24	622.90	22-10-2061
1	7	.690 (17.53)	WM2727-ND	1.77	15.57	103.83	415.31	689.41	22-10-2071
	8	.790 (20.07)	WM2728-ND	2.01	17.70	118.03	472.12	783.72	22-10-2081
	9	.890 (22.61)	WM2729-ND	2.25	19.81	132.08	528.30	876.98	22-10-2091
	10	.990 (25.15)	WM2730-ND	2.48	21.85	145.65	582.58	967.08	22-10-2101
	11	1.090 (27.69)	WM2731-ND	2.73	24.06	160.43	641.72	1065.26	22-10-2111
	12	1.190 (30.23)	WM2732-ND	2.96	26.08	173.87	695.47	1154.48	22-10-2121
2	2	.190 (4.83)	WM2733-ND	.66	5.80	38.64	154.55	256.55	22-12-2021
	3	.290 (7.37)	WM2734-ND	.91	7.99	53.24	212.95	353.50	22-12-2031

Fig.	Circuits	Dim. A In. (mm)	Digi-Key Part No.	1	10	100	500	1,000	Molex Part No.
	4	.390 (9.91)	WM2735-ND	1.13	10.00	66.65	266.59	442.54	22-12-2041
	5	.490 (12.45)	WM2736-ND	1.39	12.25	81.67	326.69	542.31	22-12-2051
	6	.590 (14.99)	WM2737-ND	1.65	14.57	97.12	388.49	644.89	22-12-2061
2	7	.690 (17.53)	WM2738-ND	1.91	16.82	112.15	448.59	744.66	22-12-2071
	8	.790 (20.07)	WM2739-ND	2.17	19.12	127.47	509.86	846.37	22-12-2081
	9	.890 (22.61)	WM2740-ND	2.43	21.40	142.65	570.60	947.20	22-12-2091
	10	.990 (25.15)	WM2741-ND	2.67	23.59	157.28	629.11	1044.32	22-12-2101
	11	1.090 (27.69)	WM2742-ND	2.93	25.84	172.28	689.11	1143.92	22-12-2111
	12	1.190 (30.23)	WM2743-ND	3.13	27.63	184.20	736.81	1223.10	22-12-2121
	2	.200 (5.08)	WM2700-ND	.68	6.04	40.28	161.12	267.46	22-11-2022
	3	.300 (7.62)	WM2701-ND	1.05	9.24	61.59	246.34	408.92	22-11-2032
	4	.400 (10.16)	WM2702-ND	1.08	9.49	63.28	253.13	420.20	22-11-2042
	5	.500 (12.70)	WM2703-ND	1.48	13.06	87.08	348.32	578.21	22-11-2052
	6	.600 (15.24)	WM2704-ND	1.62	14.32	95.45	381.81	633.80	22-11-2062
3	7	.700 (17.78)	WM2705-ND	1.87	16.51	110.06	440.22	730.77	22-11-2072
	8	.800 (20.32)	WM2706-ND	1.95	17.20	114.69	458.77	761.56	22-11-2082
	9	.900 (22.86)	WM2707-ND	2.18	19.27	128.47	513.89	853.06	22-11-2092
	10	1.000 (25.40)	WM2708-ND	2.41	21.27	141.83	567.31	941.73	22-11-2102
	11	1.100 (27.94)	WM2709-ND	2.65	23.34	155.61	622.43	1033.23	22-11-2112
	12	1.200 (30.48)	WM2710-ND	2.87	25.35	168.99	675.96	1122.09	22-11-2122
	2	.200 (5.08)	WM2711-ND	1.16	10.24	68.29	273.16	453.45	22-12-2024
	3	.300 (7.62)	WM2712-ND	1.46	12.87	85.81	343.23	569.76	22-12-2034
	4	.400 (10.16)	WM2713-ND	1.71	15.07	100.49	401.95	667.24	22-12-2044
	5	.500 (12.70)	WM2714-ND	1.87	16.51	110.06	440.22	730.77	22-12-2054
	6	.600 (15.24)	WM2715-ND	2.03	17.89	119.28	477.11	792.00	22-12-2064
4	7	.700 (17.78)	WM2716-ND	2.20	19.43	129.53	518.13	860.10	22-12-2074
	8	.800 (20.32)	WM2717-ND	2.29	20.22	134.78	539.12	894.94	22-12-2084
	9	.900 (22.86)	WM2718-ND	2.56	22.63	150.87	603.46	1001.74	22-12-2094
	10	1.000 (25.40)	WM2719-ND	2.84	25.03	166.90	667.59	1108.20	22-12-2104
	11	1.100 (27.94)	WM2720-ND	3.11	27.46	183.09	732.35	1215.70	22-12-2114
	12	1.200 (30.48)	WM2721-ND	3.39	29.90	199.33	797.33	1323.57	22-12-2124
			.100" (2.54mm) Center Crimp Terminal Housing (Contacts Sold Separately Below) With Locking Ramp and Polarizing Ribs						
	2	.220 (5.59)	WM2000-ND	.25	2.22	14.81	59.25	98.36	22-01-3027
	3	.320 (8.13)	WM2001-ND	.32	2.78	18.55	74.20	123.17	22-01-3037
	4	.420 (10.67)	WM2002-ND	.39	3.41	22.74	90.95	150.98	22-01-3047
	5	.520 (13.21)	WM2003-ND	.46	4.04	26.93	107.70	178.78	22-01-3057
	6	.620 (15.75)	WM2004-ND	.53	4.66	31.09	124.34	206.40	22-01-3067
5	7	.720 (18.29)	WM2005-ND	.60	5.29	35.27	141.09	234.21	22-01-3077
	8	.820 (20.83)	WM2006-ND	.68	6.02	40.12	160.48	266.40	22-01-3087
	9	.920 (23.37)	WM2007-ND	.73	6.48	43.22	172.89	287.00	22-01-3097
	10	1.020 (25.91)	WM2008-ND	.81	7.17	47.83	191.33	317.61	22-01-3107
	11	1.120 (28.45)	WM2009-ND	.88	7.74	51.60	206.38	342.59	22-01-3117
	12	1.220 (30.99)	WM2010-ND	.94	8.30	55.31	221.22	367.23	22-01-3127
			With Locking Ramp						
	2	.220 (5.59)	WM2011-ND	.23	2.03	13.54	54.17	89.92	22-01-2027
	3	.320 (8.13)	WM2012-ND	.29	2.60	17.31	69.22	114.91	22-01-2037
	4	.420 (10.67)	WM2013-ND	.35	3.10	20.67	82.68	137.25	22-01-2047
	5	.520 (13.21)	WM2014-ND	.41	3.66	24.38	97.52	161.88	22-01-2057
	6	.620 (15.75)	WM2015-ND	.47	4.16	27.75	110.98	184.23	22-01-2067
5	7	.720 (18.29)	WM2016-ND	.54	4.77	31.83	127.31	211.33	22-01-2077
	8	.820 (20.83)	WM2017-ND	.60	5.29	35.27	141.09	234.21	22-01-2087
	9	.920 (23.37)	WM2018-ND	.66	5.80	38.64	154.55	256.55	22-01-2097
	10	1.020 (25.91)	WM2019-ND	.73	6.40	42.69	170.77	283.48	22-01-2107
	11	1.120 (28.45)	WM2020-ND	.78	6.90	46.01	184.02	305.47	22-01-2117
	12	1.220 (30.99)	WM2021-ND	.85	7.46	49.74	198.96	330.27	22-01-2127
		Polarizing Key for .100" Housings	WM2400-ND	1.91/10		12.72/100		50.88/500	15-04-9209
		Polarizing Peg for .100" Housings	WM2401-ND	1.91/10		12.72/100		50.88/500	15-04-9210

molex Waldom ELECTRONICS

Crimp Terminals For .100" (2.54mm) Center Housings

Material: Brass, Plating: 200-300µ inch Hot-Tin Dip tin plating.



Description	Wire Size	Insulation Dia. (Inch)	Finish	Digi-Key Part No.	10	100	500	Molex Part No.
Crimp Terminals For .100 Housing	22-30	.062 Max.	Selective Gold	WM2312-ND	2.80	22.39	93.28	08-55-0102
				WM2312CT-ND*	—	22.39	93.28	08-55-0101
				WM2312TR-ND†		690.00/10,000		08-55-0101
	22-30	.062 Max.	Gold	WM1129-ND	5.73	45.86	191.06	08-56-0110
				WM1129CT-ND*	—	45.86	191.06	08-56-0109
				WM1129TR-ND†		2550.00/10,000		08-56-0109
	22-30	.062 Max.	Tin	WM1114-ND	.74	5.88	24.51	08-50-0114
				WM1114CT-ND*	—	5.88	24.51	08-50-0113
				WM1114TR-ND†		250.00/10,000		
Universal Crimp Tool (Molex)				WM9999-ND		50.75/1		63811-1000
Production Tool (Molex)				WM9915-ND		214.65/1		11-01-0185
Extraction Tool (Molex)				WM9927-ND		10.15/1		11-03-0022
Manual Wire Stripper (Molex)				WM9969-ND		95.16/1		63817-0000

*CT = Cut Tape. †TR = Tape and Reel.

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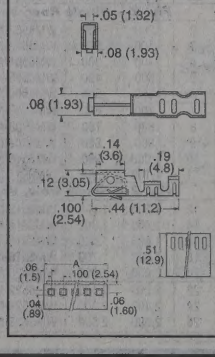
.100" (2.54mm) High Pressure Terminal Housings



- Standard with locking ramp
- 94V-0 material
- Mates with .025" (0.64mm) Pins
- Up to 425 grams normal force
- Multiple contacting points
- Patented double cantilever with box shroud
- Accepts #22 to 30 AWG wire, .062" insulation dia.

Circuits	Dim. A Inch (mm)	Digi-Key Part No.	1	10	100	Molex Part No.
1	.120 (3.05)	WM2600-ND	.29	2.42	17.31	10-11-2013
2	.220 (5.59)	WM2601-ND	.24	2.09	13.97	10-11-2023
3	.320 (8.13)	WM2602-ND	.30	2.48	17.73	10-11-2033
4	.420 (10.67)	WM2603-ND	.37	3.29	21.92	10-11-2043
5	.520 (13.21)	WM2604-ND	.44	3.85	25.68	10-11-2053
6	.620 (15.75)	WM2605-ND	.50	4.41	29.42	10-11-2063
7	.720 (18.29)	WM2606-ND	.56	4.98	33.23	10-11-2073
8	.820 (20.83)	WM2607-ND	.63	5.55	36.97	10-11-2083
9	.920 (23.37)	WM2608-ND	.69	6.11	40.73	10-11-2093
10	1.020 (25.91)	WM2609-ND	.76	6.73	44.89	10-11-2103
11	1.120 (28.45)	WM2610-ND	.83	7.30	48.66	10-11-2113
12	1.220 (30.99)	WM2611-ND	.89	7.86	52.42	10-11-2123
Crimp Terminal, 22-30, Tin/Copper Plating		WM2612-ND	—	1.96	15.71	08-50-0005

More Product Available Online: www.digikey.com
Toll-Free: 1-800-344-4539 • Phone: 218-681-6674 • Fax: 218-681-3380

Waldom "Toy Car" Battery Connector

Fig. 1 – Plug

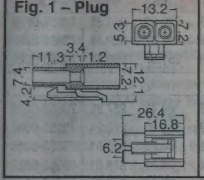


Fig. 2 – Socket

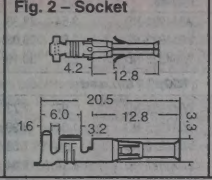


Fig. 3 – Receptacle

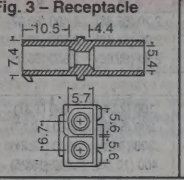
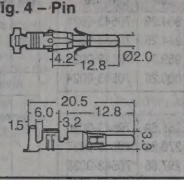


Fig. 4 – Pin

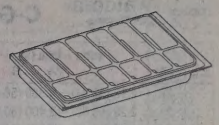


- 15 Amp current rating per circuit
- 300V voltage rating
- 14-20 AWG wire range
- Nylon 6/6 housing 94V-2
- Industry standard product for radio controlled toy cars

Fig.	Digi-Key Part No.	Pricing 1	10	50	100	Molex Part No.
1	WM2308-ND	.48	4.23	19.74	28.20	351-43-0201
2	WM2311-ND	.11	.97	4.51	6.44	357-28-0201
3	WM2309-ND	.46	4.10	19.13	27.32	351-41-0201
4	WM2310-ND	.12	1.10	5.14	7.34	357-27-0201

WM9999-ND Universal Crimp Tool (Waldom) **$50.75/1**
WM9969-ND Manual Wire Stripper (Waldom) **$95.16/1**

Waldom Crimp Terminal Connector Kits



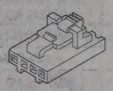
WM9803 Kit Qty.	Item	WM9804 Kit Qty.
36	Crimp Terminal Housings	48
18	Straight Headers	24
18	Right Angle Headers	24
10	Shunts	—
100	Crimp Term (22-30 AWG)	—
—	Crimp Term (18-24 AWG)	100
—	Crimping Tool HT-1919	1
1	Crimping Tool HT-1921	—
1	Extractor Tool HT-1884	1

Description	Digi-Key Part No.	Price Each	Molex Part No.
.100" Connector Kit	WM9803-ND	42.26	KK-100
.156" Connector Kit	WM9804-ND	42.55	KK-156

Waldom C-Grid® SL™ .100

• **Plating:** 15µ" min. gold or 150µ" min. tin/lead. **MATERIAL:** • **Pins:** .025"square, phosphor bronze. • **Insulator:** UL 94V-0 glass filled PCT, black; Vapor phase and infrared process compatible. **ELECTRICAL:** • **Current Rating:** 3 amps. • **Insulation Resistance:** 1,000 megaohms. • **Dielectric Strength:** 600 VAC r.m.s for 1 minute. **ENVIRONMENTAL:** • **Operating Temperature:** -40°C to 105°C. • UL Listed & CSA Certified.

Fig. 1 – "G" Version, End-to-End Stackable (Use C-Grid Crimp Terminals sold separately)



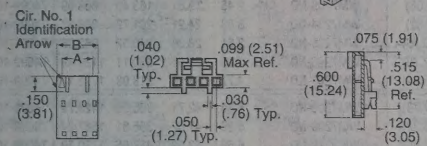
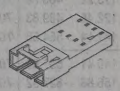


Fig. 2 – "A" Version (Use C-Grid Crimp Terminals sold separately)



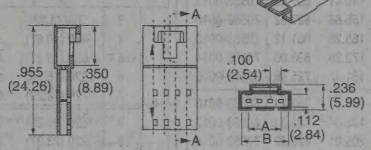


Fig. 3 – Straight Header

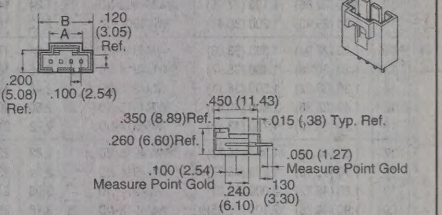
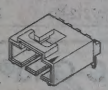


Fig. 4 – Right Angle Header



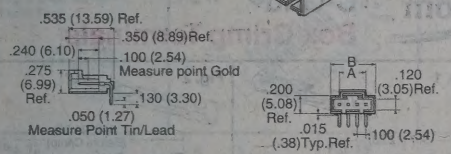


Fig. 5 – Right Angle Header SMT

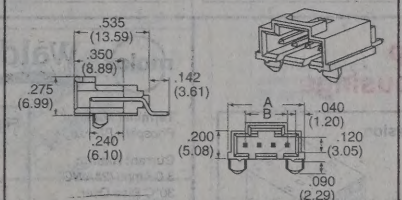
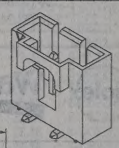


Fig. 6 – Straight Header SMT



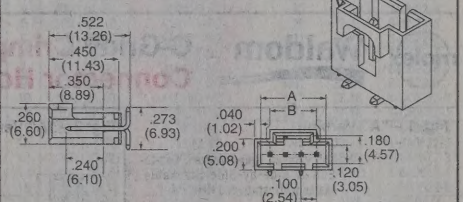


Fig.	Cir-cuits	Dim. – Inch (mm) A	B	Digi-Key Part No.	Pricing 1	10	100	500	Molex Part. No.
				Receptacle Housing (Contact Sold Separately)					
1	2	.100 (2.54)	.199 (5.05)	WM2900-ND	.52	4.19	34.90	139.60	50-57-9402
	3	.200 (5.08)	.299 (7.59)	WM2901-ND	.70	5.59	46.56	186.24	50-57-9403
	4	.300 (7.62)	.399 (10.13)	WM2902-ND	.51	4.09	34.05	136.21	50-57-9404
	5	.400 (10.16)	.499 (12.67)	WM2903-ND	.63	5.04	41.98	167.90	50-57-9405
	6	.500 (12.70)	.599 (15.21)	WM2904-ND	.72	5.79	48.23	192.92	50-57-9406
	7	.600 (15.24)	.699 (17.75)	WM2905-ND	.82	6.54	54.51	218.04	50-57-9407
	8	.700 (17.78)	.799 (20.29)	WM2906-ND	.88	7.04	58.67	234.68	50-57-9408
	9	.800 (20.32)	.899 (22.83)	WM2907-ND	.89	7.14	59.52	238.08	50-57-9409
	10	.900 (22.86)	.999 (25.37)	WM2908-ND	.90	7.20	59.97	239.88	50-57-9410
	11	1.00 (25.40)	1.099 (27.91)	WM2909-ND	.95	7.64	63.63	254.51	50-57-9411
	12	1.10 (27.94)	1.199 (30.45)	WM2910-ND	.83	6.63	55.23	220.90	50-57-9412
	13	1.20 (30.48)	1.299 (32.99)	WM2911-ND	1.17	9.34	77.81	311.22	50-57-9413
	14	1.30 (33.02)	1.399 (35.53)	WM2912-ND	1.27	10.14	84.54	338.14	50-57-9414
	15	1.40 (35.56)	1.499 (38.07)	WM2913-ND	1.32	10.60	88.30	353.19	50-57-9415
	16	1.50 (38.10)	1.599 (40.61)	WM2914-ND	1.39	11.14	92.86	371.42	50-57-9416
	17	1.60 (40.64)	1.699 (43.15)	WM2915-ND	1.44	11.55	96.25	384.99	50-57-9417
	18	1.70 (43.18)	1.799 (45.69)	WM2916-ND	1.52	12.15	101.28	405.13	50-57-9418
	19	1.80 (45.72)	1.899 (48.23)	WM2917-ND	1.86	14.87	123.89	495.55	50-57-9419
	20	1.90 (48.26)	1.999 (50.77)	WM2918-ND	1.93	15.42	128.47	513.89	50-57-9420
	21	2.00 (50.80)	2.099 (53.31)	WM2919-ND	1.98	15.87	132.24	528.94	50-57-9421
	*22	2.10 (53.34)	2.199 (55.85)	WM2920-ND	2.04	16.32	136.03	544.10	50-57-9422
	23	2.20 (55.88)	2.299 (58.39)	WM2921-ND	2.10	16.77	139.79	559.15	50-57-9423
	24	2.30 (58.42)	2.399 (60.93)	WM2922-ND	2.17	17.33	144.40	577.59	50-57-9424
	25	2.40 (60.96)	2.499 (63.47)	WM2923-ND	2.23	17.83	148.56	594.24	50-57-9425
				Pin Housing (Contact Sold Separately)					
2	2	.100 (2.54)	.220 (5.59)	WM2533-ND	.98	7.84	65.35	261.40	70107-0001
	3	.200 (5.08)	.320 (8.13)	WM2534-ND	.99	7.94	66.20	264.79	70107-0002

Fig.	Cir-cuits	Dim. – Inch (mm) A	B	Digi-Key Part No.	Pricing 1	10	100	500	Molex Part. No.
2	4	.300 (7.62)	.420 (10.67)	WM2535-ND	1.02	8.15	67.89	271.57	70107-0003
	5	.400 (10.16)	.520 (13.21)	WM2536-ND	1.16	9.30	77.46	309.84	70107-0004
	6	.500 (12.70)	.620 (15.75)	WM2537-ND	1.51	12.06	100.49	401.95	70107-0005
	7	.600 (15.24)	.720 (18.29)	WM2538-ND	1.53	12.20	101.68	406.72	70107-0006
	8	.700 (17.78)	.820 (20.83)	WM2539-ND	1.57	12.52	104.36	417.43	70107-0007
	9	.800 (20.32)	.920 (23.37)	WM2540-ND	1.59	12.76	106.32	425.27	70107-0008
	10	.900 (22.86)	1.020 (25.91)	WM2541-ND	1.66	13.26	110.53	442.13	70107-0009
				15µ" Min. Gold					
3	2	.100 (2.54)	.290 (7.37)	WM4800-ND	.98	7.83	65.27	261.08	70543-0001
	3	.200 (5.08)	.400 (10.17)	WM4801-ND	.97	7.80	64.98	259.91	70543-0002
	4	.300 (7.62)	.500 (12.71)	WM4802-ND	1.05	8.42	70.17	280.69	70543-0003
	5	.400 (10.16)	.600 (15.25)	WM4803-ND	1.21	9.71	80.91	323.62	70543-0004
	6	.500 (12.70)	.700 (17.79)	WM4804-ND	1.23	9.82	81.81	327.22	70543-0005
	7	.600 (15.24)	.800 (20.33)	WM4805-ND	1.51	12.10	100.81	403.22	70543-0006
	8	.700 (17.78)	.900 (22.87)	WM4806-ND	1.62	12.96	108.02	432.06	70543-0007
	9	.800 (20.32)	1.000 (25.41)	WM4807-ND	1.73	13.83	115.22	460.89	70543-0008
	10	.900 (22.86)	1.100 (27.95)	WM4808-ND	1.84	14.69	122.46	489.83	70543-0009
	11	1.00 (25.40)	1.200 (30.49)	WM4809-ND	2.12	16.94	141.14	564.56	70543-0010
	12	1.10 (27.94)	1.300 (33.03)	WM4810-ND	2.24	17.93	149.41	597.63	70543-0011
	13	1.20 (30.48)	1.400 (35.57)	WM4811-ND	2.35	18.83	156.88	627.52	70543-0012
	14	1.30 (33.02)	1.500 (38.11)	WM4812-ND	2.48	19.83	165.26	661.02	70543-0013
	15	1.40 (35.56)	1.600 (40.65)	WM4813-ND	2.60	20.79	173.26	693.03	70543-0014
	16	1.50 (38.10)	1.700 (43.19)	WM4814-ND	2.72	21.76	181.37	725.46	70543-0015
	17	1.60 (40.64)	1.800 (45.73)	WM4815-ND	2.82	22.59	188.28	753.13	70543-0016
	18	1.70 (43.18)	1.900 (48.27)	WM4816-ND	2.94	23.50	195.84	783.34	70543-0017
	19	1.80 (45.72)	2.000 (50.81)	WM4817-ND	2.99	23.95	199.57	798.29	70543-0018
	20	1.90 (48.26)	2.100 (53.35)	WM4818-ND	3.16	25.31	210.89	843.55	70543-0019
	21	2.00 (50.80)	2.200 (55.89)	WM4819-ND	3.31	26.47	220.61	882.45	70543-0020

(Continued)

Fig.	Cir-cuits	Dim. – Inch (mm) A	B	Digi-Key Part No.	Pricing 1	10	100	500	Molex Part. No.
3	22	2.10 (53.34)	2.300 (58.43)	WM4820-ND	3.39	27.13	226.07	904.29	70543-0021
	23	2.20 (55.88)	2.400 (60.97)	WM4821-ND	3.54	28.33	236.06	944.25	70543-0022
	24	2.30 (58.42)	2.500 (63.51)	WM4822-ND	3.64	29.08	242.34	969.37	70543-0023
	25	2.40 (60.96)	2.600 (66.05)	WM4823-ND	3.77	30.19	251.57	1006.26	70543-0024
				150µ" Tin/Lead					
3	2	.100 (2.54)	.290 (7.37)	WM4824-ND	.97	7.73	64.42	257.69	70543-0036
	3	.200 (5.08)	.400 (10.17)	WM4825-ND	1.04	8.29	69.06	276.24	70543-0037
	4	.300 (7.62)	.500 (12.71)	WM4826-ND	1.12	8.94	74.47	297.86	70543-0038
	5	.400 (10.16)	.600 (15.25)	WM4827-ND	1.18	9.44	78.65	314.61	70543-0039
	6	.500 (12.70)	.700 (17.79)	WM4828-ND	1.02	8.15	67.95	271.78	70543-0040
	7	.600 (15.24)	.800 (20.33)	WM4829-ND	1.32	10.60	88.33	353.30	70543-0041
	8	.700 (17.78)	.900 (22.87)	WM4830-ND	1.38	11.05	92.09	368.35	70543-0042
	9	.800 (20.32)	1.000 (25.41)	WM4831-ND	1.45	11.60	96.65	386.58	70543-0043
	10	.900 (22.86)	1.100 (27.95)	WM4832-ND	1.53	12.25	102.08	408.31	70543-0044
	11	1.00 (25.40)	1.200 (30.49)	WM4833-ND	1.60	12.77	106.40	425.59	70543-0045
	12	1.10 (27.94)	1.300 (33.03)	WM4834-ND	1.66	13.25	110.43	441.70	70543-0046
				15µ" Min. Gold					
4	2	.100 (2.54)	.290 (7.37)	WM4900-ND	.83	6.61	55.09	220.37	70553-0001
	3	.200 (5.08)	.400 (10.17)	WM4901-ND	1.08	8.64	72.03	288.11	70553-0002
	4	.300 (7.62)	.500 (12.71)	WM4902-ND	1.12	8.98	74.86	299.45	70553-0003
	5	.400 (10.16)	.600 (15.25)	WM4903-ND	1.30	10.41	86.74	346.94	70553-0004
	6	.500 (12.70)	.700 (17.79)	WM4904-ND	1.30	10.43	86.89	347.57	70553-0005
	7	.600 (15.24)	.800 (20.33)	WM4905-ND	1.51	12.10	100.81	403.22	70553-0006
	8	.700 (17.78)	.900 (22.87)	WM4906-ND	1.62	12.96	108.02	432.06	70553-0007
	9	.800 (20.32)	1.000 (25.41)	WM4907-ND	1.73	13.83	115.22	460.89	70553-0008
	10	.900 (22.86)	1.100 (27.95)	WM4908-ND	1.84	14.69	122.46	489.83	70553-0009
	11	1.00 (25.40)	1.200 (30.49)	WM4909-ND	2.12	16.94	141.14	564.56	70553-0010
	12	1.10 (27.94)	1.300 (33.03)	WM4910-ND	2.24	17.93	149.41	597.63	70553-0011
	13	1.20 (30.48)	1.400 (35.57)	WM4911-ND	2.35	18.83	156.88	627.52	70553-0012
	14	1.30 (33.02)	1.500 (38.11)	WM4912-ND	2.48	19.83	165.28	661.12	70553-0013
	15	1.40 (35.56)	1.600 (40.65)	WM4913-ND	2.60	20.79	173.26	693.03	70553-0014
	16	1.50 (38.10)	1.700 (43.19)	WM4914-ND	2.72	21.76	181.37	725.46	70553-0015
	17	1.60 (40.64)	1.800 (45.73)	WM4915-ND	2.82	22.60	188.31	753.24	70553-0016
	18	1.70 (43.18)	1.900 (48.27)	WM4916-ND	2.94	23.50	195.84	783.34	70553-0017
	19	1.80 (45.72)	2.000 (50.81)	WM4917-ND	3.08	24.60	205.01	820.02	70553-0018
	20	1.90 (48.26)	2.100 (53.35)	WM4918-ND	3.16	25.31	210.89	843.55	70553-0019
	21	2.00 (50.80)	2.200 (55.89)	WM4919-ND	3.30	26.44	220.32	881.28	70553-0020
	22	2.10 (53.34)	2.300 (58.43)	WM4920-ND	3.39	27.13	226.07	904.29	70553-0021

Fig.	Cir-cuits	Dim. – Inch (mm) A	B	Digi-Key Part No.	Pricing 1	10	100	500	Molex Part. No.
4	23	2.20 (55.88)	2.400 (60.97)	WM4921-ND	3.54	28.33	236.09	944.35	70553-0022
	24	2.30 (58.42)	2.500 (63.51)	WM4922-ND	3.64	29.08	242.37	969.48	70553-0023
	25	2.40 (60.96)	2.600 (66.05)	WM4923-ND	3.77	30.19	251.57	1006.26	70553-0024
				150µ" Tin/Lead					
4	2	.100 (2.54)	.290 (7.37)	WM4924-ND	.97	7.73	64.42	257.69	70553-0036
	3	.200 (5.08)	.400 (10.17)	WM4925-ND	1.04	8.29	69.06	276.24	70553-0037
	4	.300 (7.62)	.500 (12.71)	WM4926-ND	.94	7.53	62.75	251.01	70553-0038
	5	.400 (10.16)	.600 (15.25)	WM4927-ND	1.18	9.44	78.65	314.61	70553-0039
	6	.500 (12.70)	.700 (17.79)	WM4928-ND	1.25	10.03	83.61	334.43	70553-0040
	7	.600 (15.24)	.800 (20.33)	WM4929-ND	1.32	10.60	88.33	353.30	70553-0041
	8	.700 (17.78)	.900 (22.87)	WM4930-ND	1.38	11.05	92.09	368.35	70553-0042
	9	.800 (20.32)	1.00 (25.41)	WM4931-ND	1.45	11.57	96.43	385.73	70553-0043
	10	.900 (22.86)	1.10 (27.95)	WM4932-ND	1.53	12.25	102.08	408.31	70553-0044
	11	1.00 (25.40)	1.20 (30.49)	WM4933-ND	1.60	12.77	106.40	425.59	70553-0045
	12	1.10 (27.94)	1.30 (33.03)	WM4934-ND	1.66	13.25	110.43	441.70	70553-0046
				15µ" Gold					
5	2	.340 (8.63)	.100 (2.54)	WM1340-ND	2.96	23.65	197.11	788.43	15-91-2025
	3	.450 (11.43)	.200 (5.08)	WM1341-ND	3.01	24.06	200.47	801.89	15-91-2035
	4	.550 (13.97)	.300 (7.62)	WM1342-ND	3.09	24.71	205.93	823.73	15-91-2045
	5	.650 (16.51)	.400 (10.16)	WM1343-ND	3.16	25.26	210.52	842.06	15-91-2055
	6	.750 (19.05)	.500 (12.70)	WM1344-ND	3.21	25.71	214.28	857.12	15-91-2065
	7	.850 (21.59)	.600 (15.24)	WM1345-ND	3.28	26.21	218.44	873.76	15-91-2075
	8	.950 (24.13)	.700 (17.78)	WM1346-ND	3.33	26.66	222.20	888.81	15-91-2085
	9	1.050 (26.67)	.800 (20.32)	WM1347-ND	3.39	27.12	225.99	903.97	15-91-2095
	10	1.150 (29.21)	.900 (22.86)	WM1348-ND	3.47	27.77	231.45	925.80	15-91-2105
	11	1.250 (31.75)	1.00 (25.40)	WM1349-ND	4.07	32.55	271.26	1085.02	15-91-2115
	12	1.350 (34.29)	1.10 (27.94)	WM1350-ND	4.71	37.67	313.92	1255.68	15-91-2125
				15µ" Gold					
6	3	.320 (8.13)	.200 (5.08)	WM7203-ND	2.45	19.61	163.40	653.60	74099-1003
	4	.420 (10.67)	.300 (7.62)	WM7204-ND	3.03	24.21	201.72	806.87	74099-1004
	5	.520 (13.21)	.400 (10.16)	WM7205-ND	3.61	28.86	240.52	962.06	74099-1005
	6	.620 (15.75)	.500 (12.70)	WM7206-ND	4.20	33.61	280.11	1120.42	74099-1006
	7	.720 (18.29)	.600 (15.24)	WM7207-ND	4.77	38.16	318.03	1272.11	74099-1007
	8	.820 (20.83)	.700 (17.78)	WM7208-ND	5.34	42.71	355.95	1423.79	74099-1008
	9	.920 (23.37)	.800 (20.32)	WM7209-ND	5.95	47.62	396.81	1587.24	74099-1009
	10	1.020 (25.91)	.900 (22.86)	WM7210-ND	6.56	52.52	437.65	1750.59	74099-1010
	11	1.120 (28.45)	1.000 (25.40)	WM7211-ND	7.09	56.72	472.66	1890.62	74099-1011
	12	1.220 (30.99)	1.100 (27.94)	WM7212-ND	7.68	61.47	512.25	2048.98	74099-1012

molex Waldom ELECTRONICS C-Grid® Crimp Connector Housings

Fig. 1 – "A" Version

"A" Version, Non-Polarized, End-to-End & Side-by-Side Stackable. Mates w/ Unshrouded Headers.

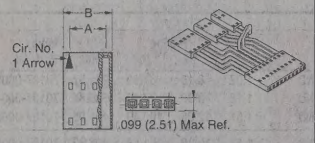


Fig. 2 – "A" Version

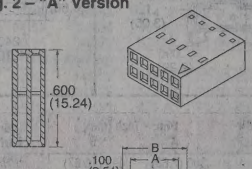


Fig.	Cir-cuits	Dim. – Inch (mm) A	B	Digi-Key Part No.	Pricing 1	10	100	500	Molex Part. No.
1	2	.100 (2.54)	.199 (5.05)	WM2800-ND	.64	5.60	37.37	149.46	50-57-9002
	3	.200 (5.08)	.299 (7.59)	WM2801-ND	.79	6.98	46.56	186.24	50-57-9003
	4	.300 (7.62)	.399 (10.13)	WM2802-ND	.82	7.23	48.23	192.92	50-57-9004
	5	.400 (10.16)	.499 (12.67)	WM2803-ND	.86	7.57	50.48	201.93	50-57-9005
	6	.500 (12.70)	.599 (15.21)	WM2804-ND	.90	7.93	52.84	211.36	50-57-9006
	7	.600 (15.24)	.699 (17.75)	WM2805-ND	.95	8.37	55.78	223.13	50-57-9007
	8	.700 (17.78)	.799 (20.29)	WM2806-ND	1.00	8.80	58.67	234.68	50-57-9008
	9	.800 (20.32)	.899 (22.83)	WM2807-ND	1.06	9.37	62.46	249.84	50-57-9009
	10	.900 (22.86)	.999 (25.37)	WM2808-ND	1.11	9.80	65.35	261.40	50-57-9010
2	4	.100 (2.54)	.199 (5.05)	WM2519-ND	2.18	19.21	128.05	512.19	22-55-2041
	6	.200 (5.08)	.299 (7.59)	WM2520-ND	1.89	16.64	110.90	443.61	22-55-2061
	8	.300 (7.62)	.399 (10.13)	WM2521-ND	2.38	21.02	140.16	560.63	22-55-2081
	10	.400 (10.16)	.499 (12.67)	WM2522-ND	2.49	21.96	146.39	585.54	22-55-2101
	12	.500 (12.70)	.599 (15.21)	WM2523-ND	2.59	22.84	152.27	609.08	22-55-2121
	14	.600 (15.24)	.699 (17.75)	WM2524-ND	2.69	23.78	158.52	634.09	22-55-2141
	16	.700 (17.78)	.799 (20.29)	WM2525-ND	2.79	24.60	163.98	655.93	22-55-2161
	18	.800 (20.32)	.899 (22.83)	WM2526-ND	2.89	25.47	169.81	679.25	22-55-2181
	20	.900 (22.86)	.999 (25.37)	WM2527-ND	2.99	26.42	176.12	704.48	22-55-2201
	22	1.000 (25.40)	1.099 (27.91)	WM2528-ND	3.09	27.29	181.95	727.80	22-55-2221
	24	1.100 (27.95)	1.199 (30.45)	WM2529-ND	3.20	28.23	188.23	752.92	22-55-2241
	30	1.400 (35.56)	1.499 (38.07)	WM2530-ND	3.47	30.61	204.08	816.31	22-55-2301
	40	1.900 (48.26)	1.999 (50.77)	WM2531-ND	4.01	35.37	235.82	943.29	22-55-2401
	50	2.400 (60.96)	2.499 (63.47)	WM2532-ND	4.51	39.83	265.50	1062.01	22-55-2501

molex Waldom ELECTRONICS C-Grid® Box Crimp Terminals

Terminal Material:
Phosphor Bronze.

Current Rating:
3.0 Amps (24AWG)
30°C Rise Over Ambient.

UL Listed and CSA Certified.

Fig. 1

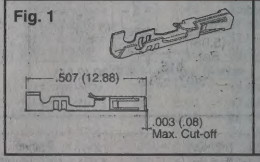


Fig. 2

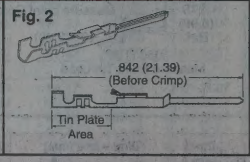


Fig.	Wire Range	Insul. Dia. Inch (mm)	Plating	Digi-Key Part No.	Pricing 10	100	500	1,000	Molex Part No.
1	22-24	.064 (1.63)	Tin‡	WM2510-ND	.99	8.22	32.86	54.55	16-02-0102
				WM2510CT-ND∞	—	8.22	32.86	54.55	16-02-0086
				WM2510TR-ND◊			820.00/20,000		16-02-0086
	24-30	.060 (1.52)	Tin‡	WM2511-ND	.99	8.22	32.86	54.55	16-02-0096
	22-24	.064 (1.63)	Gold†	WM2512-ND	1.48	12.30	49.18	81.64	16-02-0103
				WM2512CT-ND∞	—	12.30	49.18	81.64	16-02-0087
				WM2512TR-ND◊			1320.00/20,000		16-02-0087
	24-30	.060 (1.52)	Gold†	WM2513-ND	1.48	12.30	49.18	81.64	16-02-0097
	22-24	.064 (1.63)	Tin‡	WM2556-ND*	1.31	10.95	43.78	72.67	16-02-1114
	24-30	.060 (1.52)	Tin‡	WM2557-ND*	1.31	10.95	43.78	72.67	16-02-1116
	22-24	.064 (1.63)	Gold†	WM2554-ND*	2.08	17.33	69.32	115.07	16-02-1125
	24-30	.060 (1.52)	Gold†	WM2555-ND*	2.08	17.33	69.32	115.07	16-02-1109
2	22-24	.064 (1.63)	Tin‡	WM2517-ND	.99	8.22	32.86	54.55	16-02-0114
				WM2517CT-ND∞	—	8.22	32.86	54.55	16-02-0107
				WM2517TR-ND◊			820.00/20,000		16-02-0107
	24-30	.060 (1.52)	Tin‡	WM2518-ND	.99	8.22	32.86	54.55	16-02-0108
	22-24	.064 (1.63)	Gold†	WM2515-ND	1.59	13.22	52.89	87.80	16-02-0115
				WM2515CT-ND∞	—	13.22	52.89	87.80	16-02-0081
				WM2515TR-ND◊			1260.00/20,000		16-02-0081
	24-30	.060 (1.52)	Gold†	WM2516-ND	1.57	13.12	52.47	87.10	16-02-0109
Universal Crimp Tool (Molex)				WM9999-ND			50.75/1		63811-1000
C-Grid Hand Crimper 22-24 & 32-36 AWG				WM9917-ND			214.65/1		11-01-0208
C-Grid Hand Crimper 24 - 30 AWG				WM9919-ND			214.65/1		11-01-0209
Insertion Tool				WM9911-ND			10.23/1		11-02-0022
Manual Wire Stripper (Molex)				WM9969-ND			95.16/1		63817-0000

* High pressure type for low pin count. ‡150µ" tin/lead over 50µ" nickel overall.
‡ 15µ" min. gold in select area over 50µ" min. nickel overall with 75µ" min. tin/lead in select area.
∞ CT = Cut Tape. ◊ TR = Tape and Reel.

tyco Electronics AMP

MTA .100" (2.54mm) Receptacles and Post Headers

IDC RECEPTACLES: • Wire-to-post connectors preloaded with dual beam contacts • Connectors and headers are end-to-end stackable • Connectors preloaded with IDC contact • All contacts are slotted for insulation displacement (IDC) terminal technique • Contacts are lubricated to prevent fretting corrosion • Meets the material requirements of Table 23.1 of UL1410 Standards for Television Receiver and Video Products (wire-to-post connectors only) • Recognized under the Component Program of Underwriters Laboratories Inc., File No. E28476 • Certified by Canadian Standards Association

PERFORMANCE DATA: Voltage Rating: 250 vac. **Current Rating:** 4 amp max. **Low-Level Resistance:** 5 mΩ max. initial **Dielectric Withstanding Voltage:** 750 vac./1 min. **Insulation Resistance:** 5000 MΩ min. initial. **Operating Temperature:** -55°C ~ 105°C. **MATERIAL AND FINISH: Receptacles:** UL94V-2 rated (unless otherwise noted), type 6/6 nylon (28 AWG - Green; 26 AWG - Blue; 24 AWG - White; 22 AWG - Red). **Contacts:** Phosphor bronze, post tin plated, 30µ.

REPLACEMENT IDC CONTACTS: MATERIAL AND FINISH: Phosphor bronze, post tin plated, 30µ.

CST-100 CRIMP CONTACTS AND HOUSINGS: • High current rating • Mates with MTA and similar competitive notched headers • Recognized under the Component Program of Underwriters Laboratories Inc., File No. E28476 • Certified by Canadian Standards Association, File No. LR7189. **PERFORMANCE DATA: Voltage Rating:** 250 vac. **Current Rating:** 4 amp max. **Low-Level Resistance:** 6 mΩ max. initial, 10 mΩ max. final. **Insulation Resistance:** 1000 MΩ min. initial, 100 MΩ min. final. **Operating Temperature:** -55°C ~ 105°C. **MATERIAL AND FINISH:** Selective gold, 30µ gold over 127µ nickel or bright tin-lead on entire contact. **Wire Range:** 22-26 AWG. **Max. Ins. Diameter:** .065

KEYING PLUG WITH CARRIER STRIP (10 plugs per strip): Material: UL94V-2 rated, type 6/6 nylon, natural color

LED CONNECTORS: Designed to mate with .36mm-.51mm diameter posts or square leads. **MATERIAL AND FINISH: Receptacles:** UL94V-2 rated, type 6/6 nylon (28 AWG - Green; 26 AWG - Blue; 24 AWG - White; 22 AWG - Red). **Contacts:** Phosphor bronze, post tin plated, 30µ.

REPLACEMENT LED CONTACTS: MATERIAL AND FINISH: Phosphor bronze, post tin plated, 30µ.

POST HEADERS: Material For Housing: Polyester UL94V-0 rated, natural. **Posts:** Tin plated copper alloy.

Fig. 1 Receptacle

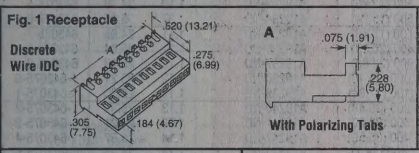


Fig. 2 IDC & LED Contacts

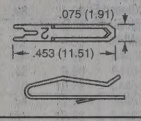


Fig. 3 CST-100 Housing

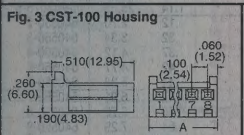


Fig. 4 CST-100 Crimp Contact

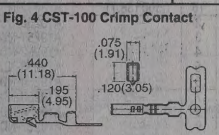


Fig. 5 Keying Plug

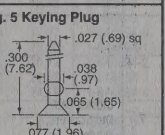


Fig. 6 Strain Relief Cover - Closed End

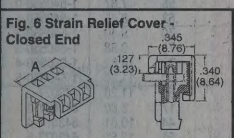


Fig. 7 Dust Cover - Closed End

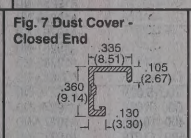


Fig. 8 Strain Relief Cover - Feed-Thru

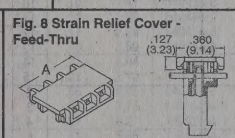


Fig. 9 Dust Cover - Feed-Thru

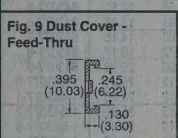


Fig. 10

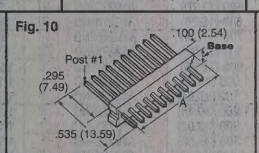


Fig. 11

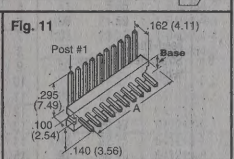


Fig. 12

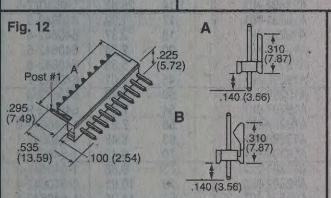


Fig. 13

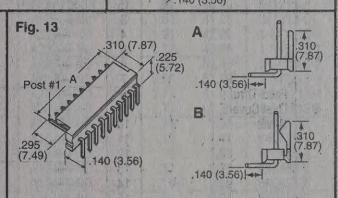


Fig. 14

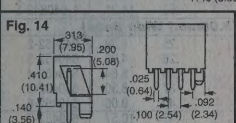


Fig. 15

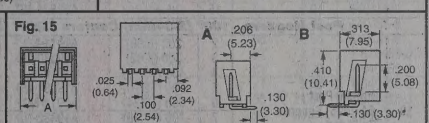


Fig.	Description	Cir-cuits	Dim. "A" Inch (mm)	Digi-Key Part No.	Pricing 1	Pricing 25	AMP Part No.
	Receptacles, .100" (2.54mm) Centers						
1	Closed End with Lock, w/out Polarizing Tabs, 28 AWG Green, Tin Plated	2	.200 (5.08)	A19050-ND	.13	1.54	640443-2
		3	.300 (7.62)	A19051-ND	.14	1.87	640443-3
		4	.400 (10.16)	A19052-ND	.22	3.10	640443-4
		5	.500 (12.70)	A19053-ND	.29	3.95	640443-5
		6	.600 (15.24)	A19054-ND	.31	4.22	640443-6
		7	.700 (17.78)	A19055-ND	.36	4.93	640443-7
		8	.800 (20.32)	A19056-ND	.41	5.61	640443-8
		9	.900 (22.86)	A19057-ND	1.01	22.64	640443-9
		10	1.000 (25.40)	A19058-ND	.51	7.05	1-640443-0
		11	1.100 (27.94)	A19059-ND	1.23	27.68	1-640443-1
		12	1.200 (30.48)	A19060-ND	.65	9.04	1-640443-2
		13	1.300 (33.02)	A19061-ND	1.45	32.71	1-640443-3
		14	1.400 (35.56)	A19062-ND	1.57	35.22	1-640443-4
		15	1.500 (38.1)	A26193-ND	1.07	24.13	1-640443-5
1A	Closed End with Lock, with Polarizing Tabs, 28 AWG, Green,Tin Plated	2	.200 (5.08)	A23773-ND	.13	2.50	643816-2
		3	.300 (7.62)	A23774-ND	.16	3.04	643816-3
		4	.400 (10.16)	A23775-ND	.22	5.04	643816-4
		5	.500 (12.7)	A23776-ND	.29	6.42	643816-5
		6	.600 (15.24)	A23777-ND	.31	6.86	643816-6
		7	.700 (17.78)	A23778-ND	.36	8.02	643816-7
1	Closed End with Lock, w/out Polarizing Tabs, 28 AWG Green, Tin Plated	2	.200 (5.08)	A19132-ND	.21	2.55	640623-2
		3	.300 (7.62)	A19133-ND	.20	2.82	640623-3
		4	.400 (10.16)	A19134-ND	.22	3.10	640623-4
		5	.500 (12.70)	A19135-ND	.29	3.95	640623-5
		6	.600 (15.24)	A19136-ND	.31	4.22	640623-6
		7	.700 (17.78)	A19137-ND	.36	4.93	640623-7
		8	.800 (20.32)	A19138-ND	.41	5.61	640623-8
		9	.900 (22.86)	A19139-ND	1.01	22.64	640623-9
		10	1.000 (25.40)	A19140-ND	.51	7.05	1-640623-0
		11	1.100 (27.94)	A19141-ND	1.23	27.68	1-640623-1
		12	1.200 (30.48)	A19142-ND	.65	9.04	1-640623-2
		13	1.300 (33.02)	A19143-ND	1.45	32.71	1-640623-3
		14	1.400 (35.56)	A19144-ND	1.57	35.22	1-640623-4
		15	1.500 (38.1)	A26194-ND	1.07	24.13	1-640623-5
1A	Feed-Thru with Lock, with Polarizing Tabs, 28 AWG Green, Tin Plated	2	.200 (5.08)	A23783-ND	.18	4.15	644565-2
		3	.300 (7.62)	A23784-ND	.20	4.59	644565-3
		4	.400 (10.16)	A23785-ND	.22	5.04	644565-4
		5	.500 (12.7)	A23786-ND	.29	6.42	644565-5
		6	.600 (15.24)	A23787-ND	.31	6.86	644565-6
		7	.700 (17.78)	A23788-ND	.36	8.02	644565-7
		8	.800 (20.32)	A23789-ND	.41	9.13	644565-8
		10	1.00 (25.4)	A23790-ND	.51	11.47	1-644565-0
		12	1.200 (30.48)	A23791-ND	.65	14.71	1-644565-2
		15	1.500 (38.1)	A23792-ND	1.07	24.13	1-644565-5
1	Closed End with Lock, w/out Polarizing Tabs, 26 AWG Blue, Tin Plated	2	.200 (5.08)	A19030-ND	.13	1.54	640442-2
		3	.300 (7.62)	A19031-ND	.14	1.87	640442-3
		4	.400 (10.16)	A19032-ND	.22	3.10	640442-4
		5	.500 (12.70)	A19033-ND	.29	3.95	640442-5
		6	.600 (15.24)	A19034-ND	.31	4.22	640442-6
		7	.700 (17.78)	A19035-ND	.36	4.93	640442-7
		8	.800 (20.32)	A19036-ND	.41	5.61	640442-8
		9	.900 (22.86)	A19037-ND	1.01	22.64	640442-9
		10	1.000 (25.40)	A19038-ND	.51	7.05	1-640442-0
		11	1.100 (27.94)	A19039-ND	1.23	27.68	1-640442-1
		12	1.200 (30.48)	A19040-ND	.65	9.04	1-640442-2
		13	1.300 (33.02)	A19041-ND	1.45	32.71	1-640442-3
		13	1.300 (33.02)	A26195-ND†	.82	18.41	1-643828-3
		14	1.400 (35.56)	A19042-ND	1.57	35.22	1-640442-4
		15	1.500 (38.1)	A26196-ND	1.07	24.13	1-640442-5
1A	Closed End with Lock, with Polarizing Tabs, 26 AWG Blue, Tin Plated	2	.200 (5.08)	A23793-ND	.13	2.50	643815-2
		3	.300 (7.62)	A23794-ND	.16	3.04	643815-3
		4	.400 (10.16)	A23795-ND	.22	5.04	643815-4
		5	.500 (12.7)	A23796-ND	.29	6.42	643815-5
		6	.600 (15.24)	A23797-ND	.31	6.86	643815-6
		7	.700 (17.78)	A23798-ND	.36	8.02	643815-7
		8	.800 (20.32)	A23799-ND	.41	9.13	643815-8
		10	1.00 (25.4)	A23800-ND	.51	11.47	1-643815-0
		12	1.200 (30.48)	A23801-ND	.65	14.71	1-643815-2
		13	1.300 (33.02)	A23802-ND†	.82	18.41	1-644313-3
		15	1.500 (38.1)	A23803-ND	1.07	24.13	1-643815-5
1	Feed-Thru with Lock, w/out Polarizing Tabs, 26 AWG Blue, Tin Plated	2	.200 (5.08)	A19112-ND	.22	2.65	640622-2
		3	.300 (7.62)	A19113-ND	.21	2.92	640622-3
		4	.400 (10.16)	A19114-ND	.22	3.10	640622-4
		5	.500 (12.70)	A19115-ND	.29	3.95	640622-5
		6	.600 (15.24)	A19116-ND	.31	4.22	640622-6
		7	.700 (17.78)	A19117-ND	.36	4.93	640622-7
		8	.800 (20.32)	A19118-ND	.41	5.61	640622-8
		9	.900 (22.86)	A19119-ND	1.01	22.64	640622-9
		10	1.000 (25.40)	A19120-ND	1.12	25.16	1-640622-0
		11	1.100 (27.94)	A19121-ND	1.23	27.68	1-640622-1
		12	1.200 (30.48)	A19122-ND	.65	9.04	1-640622-2
		13	1.300 (33.02)	A19130-ND	1.45	32.71	1-640622-3
		13	1.300 (33.02)	A26197-ND†	.82	18.41	1-644577-3
		14	1.400 (35.56)	A19131-ND	1.57	35.22	1-640622-4
		15	1.500 (38.1)	A26198-ND	1.07	24.13	1-640622-5
1A	Feed-Thru with Lock, with Polarizing Tabs, 26 AWG Blue, Tin Plated	2	.200 (5.08)	A23804-ND	.19	4.25	644564-2
		3	.300 (7.62)	A23805-ND	.21	4.75	644564-3
		4	.400 (10.16)	A23806-ND	.22	5.04	644564-4
		5	.500 (12.7)	A23807-ND	.29	6.42	644564-5
		6	.600 (15.24)	A23808-ND	.31	6.86	644564-6
		7	.700 (17.78)	A23809-ND	.36	8.02	644564-7
		8	.800 (20.32)	A23810-ND	.41	9.13	644564-8
		12	1.200 (30.48)	A23811-ND	.65	14.71	1-644564-2
		13	1.300 (33.02)	A23812-ND†	.82	18.41	1-644497-3
		15	1.500 (38.1)	A23813-ND	1.07	24.13	1-644564-5
1	Closed End with Lock, w/out Polarizing Tabs, 24 AWG White, Tin Plated	2	.200 (5.08)	A1901-ND	.13	1.54	640441-2
		3	.300 (7.62)	A19020-ND	.14	1.87	640441-3
		4	.400 (10.16)	A1902-ND	.14	1.89	640441-4
		5	.500 (12.70)	A19021-ND	.29	3.95	640441-5
		6	.600 (15.24)	A1903-ND	.31	4.22	640441-6
		7	.700 (17.78)	A19022-ND	.36	4.93	640441-7
		8	.800 (20.32)	A1904-ND	.41	5.61	640441-8
		9	.900 (22.86)	A19023-ND	1.01	22.64	640441-9
		10	1.000 (25.40)	A1905-ND	.51	7.05	1-640441-0
		11	1.100 (27.94)	A19024-ND	1.23	27.68	1-640441-1
		12	1.200 (30.48)	A19025-ND	.65	9.04	1-640441-2
		13	1.300 (33.02)	A19026-ND	1.45	32.71	1-640441-3
		13	1.300 (33.02)	A26199-ND†	.82	18.41	1-644574-3
		14	1.400 (35.56)	A19027-ND	1.57	35.22	1-640441-4
		15	1.500 (38.1)	A23767-ND	1.07	24.13	1-640441-5
1A	Closed End with Lock, with Polarizing Tabs, 24 AWG White, Tin Plated	2	.200 (5.08)	A23814-ND	.13	2.50	643814-2
		3	.300 (7.62)	A23815-ND	.16	3.04	643814-3
		4	.400 (10.16)	A23816-ND	.22	5.04	643814-4
		5	.500 (12.7)	A23817-ND	.29	6.42	643814-5
		6	.600 (15.24)	A23818-ND	.31	6.86	643814-6
		7	.700 (17.78)	A23819-ND	.36	8.02	643814-7
		8	.800 (20.32)	A23820-ND	.41	9.13	643814-8
		10	1.00 (25.4)	A23821-ND	.51	11.47	1-643814-0
		12	1.200 (30.48)	A23822-ND	.65	14.71	1-643814-2
		13	1.300 (33.02)	A23823-ND†	.82	18.41	1-644312-3
		15	1.500 (38.1)	A23824-ND	1.07	24.13	1-643814-5
		16	1.600 (40.64)	A29108-ND	2.12	44.26	1-643814-6
1	Feed-Thru with Lock, w/out Polarizing Tabs, 24 AWG White, Tin Plated	2	.200 (5.08)	A19091-ND	.21	2.52	640621-2
		3	.300 (7.62)	A19092-ND	.20	2.81	640621-3
		4	.400 (10.16)	A19093-ND	.22	3.10	640621-4
		5	.500 (12.70)	A19094-ND	.29	3.95	640621-5
		6	.600 (15.24)	A19095-ND	.31	4.22	640621-6
		7	.700 (17.78)	A19096-ND	.36	4.93	640621-7
		8	.800 (20.32)	A19097-ND	.41	5.61	640621-8

† UL94V-0 – Black Housing

(Continued)

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MTA .100" (2.54mm) Receptacles and Post Headers *(Cont.)*

Fig.	Description	Cir-cuits	Dim. "A" Inch (mm)	Digi-Key Part No.	Pricing 1	Pricing 25	AMP Part No.
1	Feed-Thru with Lock, w/o Polarizing Tabs, 24 AWG White, Tin Plated	9	.900 (22.86)	A19098-ND	1.94	43.56	640621-9
		10	1.000 (25.40)	A19099-ND	.51	7.05	1-640621-0
		11	1.100 (27.94)	A19100-ND	1.23	27.68	1-640621-1
		12	1.200 (30.48)	A19101-ND	.65	9.04	1-640621-2
		13	1.300 (33.02)	A19110-ND	1.45	32.71	1-640621-3
		13	1.300 (33.02)	A23768-ND†	.82	18.41	1-644576-3
		14	1.400 (35.56)	A19111-ND	1.57	35.22	1-640621-4
		15	1.500 (38.1)	A23769-ND	1.07	24.13	1-640621-5
1A	Feed-Thru with Lock, w/ Polarizing Tabs, 24 AWG White, Tin Plated	2	.200 (5.08)	A23826-ND	.18	4.14	644563-2
		3	.300 (7.62)	A23827-ND	.20	4.50	644563-3
		4	.400 (10.16)	A23828-ND	.22	5.04	644563-4
		5	.500 (12.7)	A23829-ND	.29	6.42	644563-5
		6	.600 (15.24)	A23830-ND	.31	6.86	644563-6
		7	.700 (17.78)	A23831-ND	.36	8.02	644563-7
		8	.800 (20.32)	A23832-ND	.41	9.13	644563-8
		10	1.00 (25.4)	A23833-ND	.51	11.47	1-644563-0
		12	1.200 (30.48)	A23834-ND	.65	14.71	1-644563-2
		13	1.300 (33.02)	A23835-ND†	.82	18.41	1-644579-3
		15	1.500 (38.1)	A23836-ND	1.07	24.13	1-644563-5
1	Closed End with Lock, w/out Polarizing Tabs, 22 AWG Red, Tin Plated	2	.200 (5.08)	A1906-ND	.13	1.54	640440-2
		3	.300 (7.62)	A19010-ND	.14	1.87	640440-3
		4	.400 (10.16)	A1907-ND	.22	3.10	640440-4
		5	.500 (12.70)	A19011-ND	.29	3.95	640440-5
		6	.600 (15.24)	A1908-ND	.31	4.22	640440-6
		7	.700 (17.78)	A19012-ND	.36	4.93	640440-7
		8	.800 (20.32)	A1909-ND	.41	5.61	640440-8
		9	.900 (22.86)	A19013-ND	1.01	22.64	640440-9
		10	1.000 (25.40)	A1910-ND	.51	7.05	1-640440-0
		11	1.100 (27.94)	A19014-ND	1.23	27.68	1-640440-1
		12	1.200 (30.48)	A19015-ND	.65	9.04	1-640440-2
		13	1.300 (33.02)	A19016-ND	1.45	32.71	1-640440-3
		14	1.400 (35.56)	A19017-ND	1.57	35.22	1-640440-4
		15	1.500 (38.1)	A23770-ND	1.07	24.13	1-640440-5
1A	Closed End with Lock, with Polarizing Tabs, 22 AWG Red, Tin Plated	2	.200 (5.08)	A23837-ND	.13	2.50	643813-2
		2	.200 (5.08)	A29084-ND†	.35	7.96	644083-2
		3	.300 (7.62)	A29085-ND†	.89	19.97	644083-3
		4	.400 (10.16)	A23838-ND	.22	5.04	643813-4
		5	.500 (12.7)	A23839-ND	.29	6.42	643813-5
		7	.700 (17.78)	A23840-ND	.36	8.02	643813-7
		8	.800 (20.32)	A23841-ND	.41	9.13	643813-8
		10	1.00 (25.4)	A23842-ND	.51	11.47	1-643813-0
		11	1.100 (27.94)	A23843-ND	2.37	53.24	1-643813-1
		12	1.200 (30.48)	A23844-ND	.65	14.71	1-643813-2
		13	1.300 (33.02)	A23845-ND†	.82	18.41	1-644083-3
		15	1.500 (38.1)	A23846-ND	1.07	24.13	1-643813-5
1	Feed-Thru with Lock, w/out Polarizing Tabs, 22 AWG Red, Tin Plated	2	.200 (5.08)	A19070-ND	.22	2.64	640620-2
		3	.300 (7.62)	A19071-ND	.21	2.88	640620-3
		4	.400 (10.16)	A19072-ND	.22	3.10	640620-4
		5	.500 (12.70)	A19073-ND	.29	3.95	640620-5
		6	.600 (15.24)	A19074-ND	.31	4.22	640620-6
		7	.700 (17.78)	A19075-ND	.36	4.93	640620-7
		8	.800 (20.32)	A19076-ND	.41	5.61	640620-8
		9	.900 (22.86)	A19077-ND	1.01	22.64	640620-9
		10	1.000 (25.40)	A19078-ND	.51	7.05	1-640620-0
		11	1.100 (27.94)	A19079-ND	1.23	27.68	1-640620-1
		12	1.200 (30.48)	A19080-ND	.65	9.04	1-640620-2
		13	1.300 (33.02)	A19081-ND	1.45	32.71	1-640620-3
		13	1.300 (33.02)	A23771-ND†	.82	18.41	1-644575-3
		14	1.400 (35.56)	A19090-ND	1.57	35.22	1-640620-4
		15	1.500 (38.1)	A23772-ND	1.07	24.13	1-640620-5
1A	Feed-Thru with Lock, with Polarizing Tabs, 22 AWG Red, Tin Plated	2	.200 (5.08)	A23847-ND	.19	4.27	644540-2
		3	.300 (7.62)	A23848-ND	.21	4.73	644540-3
		4	.400 (10.16)	A23849-ND	.22	5.04	644540-4
		5	.500 (12.7)	A23850-ND	.29	6.42	644540-5
		6	.600 (15.24)	A23851-ND	.31	6.86	644540-6
		7	.700 (17.78)	A23852-ND	.36	8.02	644540-7
		8	.800 (20.32)	A23853-ND	.41	9.13	644540-8
		10	1.00 (25.4)	A23854-ND	.51	11.47	1-644540-0
		12	1.200 (30.48)	A23855-ND	.65	14.71	1-644540-2
		13	1.300 (33.02)	A23856-ND†	.82	18.41	1-644578-3
		15	1.500 (38.1)	A23857-ND	1.07	24.13	1-644540-5
Replacement IDC Contacts							
2	Std. 28 AWG, Tin Plated	—	—	A19313-ND	1.57/25	2.79/50	640639-1
	Std. 26 AWG, Tin Plated	—	—	A19290-ND	1.77/25	3.14/50	640638-2
	Std. 24 AWG, Tin Plated	—	—	A19312-ND	1.77/25	3.14/50	640637-1
	Std. 22 AWG, Tin Plated	—	—	A19311-ND	1.77/25	3.14/50	640636-1
CST-100 Crimp Housings (Contacts Sold Separately)							
3	22-26 AWG White	2	.220 (5.59)	A19490-ND	.30	3.09	770602-2
		3	.320 (8.13)	A19491-ND	.31	4.64	770602-3
		4	.420 (10.67)	A19492-ND	.32	6.19	770602-4
		5	.520 (13.21)	A19493-ND	.34	7.73	770602-5
		6	.620 (15.75)	A19494-ND	.41	9.28	770602-6
		7	.720 (18.29)	A19495-ND	.48	10.82	770602-7
		8	.820 (20.83)	A19496-ND	.55	12.37	770602-8
		9	.920 (23.37)	A19497-ND	.62	13.92	770602-9
		10	1.020 (25.91)	A19498-ND	.69	15.46	1-770602-0
		11	1.120 (28.45)	A19499-ND	.76	17.01	1-770602-1
		12	1.220 (30.99)	A19500-ND	.82	18.56	1-770602-2
		13	1.320 (33.53)	A19510-ND	.89	20.10	1-770602-3
		14	1.420 (36.07)	A19511-ND	.96	21.65	1-770602-4
		15	1.520 (38.61)	A23961-ND	1.03	23.20	1-770602-5
CST-100 Crimp Contact (26-22 AWG)							
4	Tin Plated, Loose	—	—	A19520-ND	1.85/25	3.30/50	770666-1
	Gold Plated, Loose	—	—	A23962-ND	11.05/25	19.64/50	770666-2
	Gold Plated, Strip	—	—	A23962CT-ND	25.57/100	117.19/500	770601-2
				A23962TR-ND	703.15/5,500		
LED Receptacles (mate with .36 - .51mm diameter posts), .100" (2.54mm) centers							
1	Closed End with Lock, w/out Polarizing Tabs, 28 AWG Green, Tin Plated	2	.200 (5.08)	A19180-ND	.13	1.54	641537-2
		3	.300 (7.62)	A19181-ND	.14	1.87	641537-3
	Feed-Thru with Lock, w/out Polarizing Tabs, 28 AWG Green, Tin Plated	2	.200 (5.08)	A19220-ND	.18	4.14	641656-2
		3	.300 (7.62)	A19221-ND	.20	4.58	641656-3
	Closed End with Lock, w/out Polarizing Tabs, 26 AWG Blue, Tin Plated	2	.200 (5.08)	A19170-ND	.13	1.54	641536-2
		3	.300 (7.62)	A19171-ND	.14	1.87	641536-3
	Closed End with Lock, w/out Polarizing Tabs, 24 AWG White, Tin Plated	2	.200 (5.08)	A19160-ND	.11	2.50	641535-2
		3	.300 (7.62)	A19161-ND	.14	1.87	641535-3
		5	.500 (12.7)	A23920-ND	.29	6.42	641535-5
		6	.600 (15.24)	A23921-ND	.31	6.86	641535-6

Fig.	Description	Cir-cuits	Dim. "A" Inch (mm)	Digi-Key Part No.	Pricing 1	Pricing 25	AMP Part No.
1	Feed-Thru with Lock, w/out Polarizing Tabs, 26 AWG Blue, Tin Plated	2	.200 (5.08)	A19210-ND	.22	2.63	641655-2
		3	.300 (7.62)	A19211-ND	.21	4.76	641655-3
1A	Closed End w/Lock, w/Polarizing Tabs, 24 AWG White, Tin Plated	2	.200 (5.08)	A23922-ND	.13	2.50	644795-2
1	Feed-Thru w/ Lock, w/out Polarizing Tabs, 24 AWG White, Tin Plated	2	.200 (5.08)	A19200-ND	.18	4.10	641654-2
		3	.300 (7.62)	A19201-ND	.20	4.58	641654-3
	Closed End w/ Lock, w/out Polarizing Tabs, 22 AWG Red, Tin Plated	2	.200 (5.08)	A19150-ND	.11	2.50	641534-2
		3	.300 (7.62)	A19151-ND	.14	3.04	641534-3
		8	.800 (20.32)	A23923-ND	.41	9.13	641534-8
	Feed-Thru w/ Lock, w/out Polarizing Tabs, 22 AWG Red, Tin Plated	2	.200 (5.08)	A19190-ND	.22	2.64	641653-2
		3	.300 (7.62)	A19191-ND	.21	4.73	641653-3
		8	.800 (20.32)	A23924-ND	.41	9.13	641653-8
Replacement LED Contacts							
2	28 AWG, Tin Plated	—	—	A19317-ND	1.77/25	3.14/50	641646-1
	26 AWG, Tin Plated	—	—	A19316-ND	1.77/25	3.14/50	641645-1
	24 AWG, Tin Plated	—	—	A19315-ND	1.77/25	3.14/50	641644-1
	22 AWG, Tin Plated	—	—	A19314-ND	1.77/25	3.14/50	641643-1
Keying Plugs with Carrier Strip							
5	10 Plugs per Strip	—	—	A19310-ND	.57	.32	641994-1
Accessories, .100" (2.54mm) Centers							
6	Closed End Strain Relief Covers, White	2	.200 (5.08)	A19230-ND	.33	4.57	643075-2
		3	.300 (7.62)	A19231-ND	1.09	24.60	643075-3
		4	.400 (10.16)	A19232-ND	.36	4.97	643075-4
		5	.500 (12.70)	A19233-ND	1.10	24.78	643075-5
		6	.600 (15.24)	A19234-ND	.37	5.15	643075-6
		7	.700 (17.78)	A19235-ND	1.11	24.95	643075-7
		8	.800 (20.32)	A19236-ND	1.11	25.04	643075-8
		9	.900 (22.86)	A19237-ND	1.12	25.13	643075-9
		10	1.000 (25.40)	A19238-ND	1.12	25.21	1-643075-0
		11	1.100 (27.94)	A19239-ND	1.12	25.30	1-643075-1
		12	1.200 (30.48)	A19240-ND	1.13	25.39	1-643075-2
		13	1.300 (33.02)	A19241-ND	1.08	24.21	1-643075-3
		14	1.400 (35.56)	A19242-ND	1.14	25.57	1-643075-4
		15	1.500 (38.1)	A23892-ND	1.14	25.65	1-643075-5
7	Closed End Dust Covers, White	2	—	A19250-ND	.12	2.70	640550-2
		3	—	A19251-ND	.32	3.34	640550-3
		4	—	A19252-ND	.37	4.12	640550-4
		5	—	A19253-ND	.42	4.77	640550-5
		6	—	A19254-ND	.44	5.38	640550-6
		7	—	A19255-ND	.47	6.01	640550-7
		8	—	A19256-ND	.50	6.72	640550-8
		9	—	A19257-ND	.54	7.29	640550-9
		10	—	A19258-ND	.58	7.87	1-640550-0
		11	—	A19259-ND	.63	8.45	1-640550-1
		12	—	A19260-ND	.70	9.40	1-640550-2
		13	—	A19261-ND	.73	9.88	1-640550-3
		14	—	A19262-ND	.79	10.61	1-640550-4
		15	—	A23893-ND	.50	11.21	1-640550-5
8	Feed-Thru Strain Relief Covers, White	2	.200 (5.08)	A19270-ND	.50	11.20	643077-2
		3	.300 (7.62)	A19271-ND	.17	3.80	643077-3
		4	.400 (10.16)	A19272-ND	.44	10.01	643077-4
		5	.500 (12.70)	A19273-ND	.56	12.51	643077-5
		6	.600 (15.24)	A19274-ND	.61	13.65	643077-6
		7	.700 (17.78)	A19275-ND	.63	14.15	643077-7
		8	.800 (20.32)	A19276-ND	.72	16.17	643077-8
		9	.900 (22.86)	A19277-ND	1.20	26.98	643077-9
		10	1.000 (25.40)	A19278-ND	1.12	25.21	1-643077-0
		11	1.100 (27.94)	A19279-ND	1.12	25.30	1-643077-1
		12	1.200 (30.48)	A19280-ND	1.13	25.39	1-643077-2
		13	1.300 (33.02)	A19281-ND	1.13	25.48	1-643077-3
		14	1.400 (35.56)	A19282-ND	1.14	25.57	1-643077-4
		15	1.500 (38.1)	A23894-ND	1.14	25.65	1-643077-5
9	Feed-Thru Dust Covers, White	3	—	A19291-ND	.17	1.92	640642-3
		4	—	A19292-ND	.18	2.37	640642-4
		5	—	A19293-ND	.20	2.74	640642-5
		6	—	A19294-ND	.40	5.38	640642-6
		7	—	A19295-ND	.45	6.01	640642-7
		8	—	A19296-ND	.50	6.72	640642-8
		9	—	A19297-ND	.54	7.29	640642-9
		10	—	A19298-ND	.58	7.87	1-640642-0
		11	—	A19299-ND	.63	8.45	1-640642-1
		12	—	A19300-ND	.70	9.40	1-640642-2
		13	—	A19301-ND	.73	9.88	1-640642-3
		14	—	A19302-ND	.79	10.61	1-640642-4
		15	—	A23895-ND	.50	11.21	1-640642-5
Post Headers, .100" (2.54mm) Centers (.200" (5.08mm) Wide Base)							
10	Straight Post .64 (.025) Square, Tin Plated	2	.200 (5.08)	A1911-ND	.25	4.88	640452-2
		3	.300 (7.62)	A19330-ND	.26	4.98	640452-3
		4	.400 (10.16)	A1912-ND	.30	6.64	640452-4
		5	.500 (12.70)	A19331-ND	.37	8.30	640452-5
		6	.600 (15.24)	A1913-ND	.40	9.06	640452-6
		7	.700 (17.78)	A19332-ND	.47	10.57	640452-7
		8	.800 (20.32)	A1914-ND	.54	12.08	640452-8
		9	.900 (22.86)	A19333-ND	.60	13.59	640452-9
		10	1.000 (25.40)	A1915-ND	.67	15.10	1-640452-0
		15	1.500 (38.1)	A24931-ND	1.26	28.30	1-640452-5
11	Right Angle Post .64 (.025) Square, Tin Plated	2	.200 (5.08)	A1916-ND	.23	3.45	640453-2
		3	.300 (7.62)	A19340-ND	.27	5.18	640453-3
		4	.400 (10.16)	A1917-ND	.31	6.91	640453-4
		5	.500 (12.70)	A19341-ND	.38	8.64	640453-5
		6	.600 (15.24)	A1918-ND	.42	9.42	640453-6
		7	.700 (17.78)	A19342-ND	.49	10.99	640453-7
		8	.800 (20.32)	A1919-ND	.56	12.56	640453-8
		9	.900 (22.86)	A19343-ND	.63	14.13	640453-9
		10	1.000 (25.40)	A1920-ND	.70	15.70	1-640453-0
		12	1.200 (30.48)	A23927-ND	.84	18.84	1-640453-2
		15	1.500 (38.1)	A23896-ND	3.62	81.40	1-640453-5
Narrow Base Post Headers, .100" (2.54mm) Centers (2.34mm Wide Base)							
10	Straight Post .64 (.025) Square w/o Retentive Legs, Tin Plated	2	.188 (4.78)	A19350-ND	.24	4.04	644456-2
		3	.288 (7.32)	A19351-ND	.26	4.98	644456-3
		4	.388 (9.86)	A19352-ND	.30	6.64	644456-4
		5	.488 (12.40)	A19353-ND	.37	8.30	644456-5
		6	.588 (14.94)	A19354-ND	.40	9.06	644456-6
		7	.688 (17.48)	A19355-ND	.47	10.57	644456-7
		8	.788 (20.02)	A19356-ND	.54	12.08	644456-8
		9	.888 (22.56)	A19357-ND	.60	13.59	644456-9
		10	.988 (25.10)	A19358-ND	.67	15.10	1-644456-0

† UL94V-0 – Black Housing

(Continued)

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MTA .100" (2.54mm) Receptacles and Post Headers *(Cont.)*

Fig.	Description	Cir-cuits	Dim. "A" Inch (mm)	Digi-Key Part No.	Pricing 1	Pricing 25	AMP Part No.
10	Straight Post .64 (.025) Square w/o Retentive Legs, Tin Plated	11	1.088 (27.64)	A19359-ND	.74	16.61	1-644456-1
		12	1.188 (30.18)	A19360-ND	.81	18.11	1-644456-2
		13	1.288 (32.72)	A19361-ND	.87	19.63	1-644456-3
		14	1.388 (35.26)	A19362-ND	.94	21.13	1-644456-4
	Straight Post .64 (.025) Square with Retentive Legs, Tin Plated	2	.200 (5.08)	A19370-ND	.23	4.44	644695-2
		3	.300 (7.62)	A19371-ND	.21	4.76	644695-3
		4	.400 (10.16)	A19372-ND	.32	7.31	644695-4
		5	.500 (12.70)	A19373-ND	.41	9.13	644695-5
		6	.600 (15.24)	A19374-ND	.44	9.96	644695-6
		7	.700 (17.78)	A19375-ND	.52	11.62	644695-7
		8	.800 (20.32)	A19376-ND	.59	13.29	644695-8
		9	.900 (22.86)	A19377-ND	.66	14.95	644695-9
		10	1.000 (25.40)	A19378-ND	.74	16.61	1-644695-0
		11	1.100 (27.94)	A19379-ND	.81	18.27	1-644695-1
		12	1.200 (30.48)	A19380-ND	2.45	55.10	1-644695-2
		13	1.300 (33.02)	A19381-ND	.96	21.59	1-644695-3
		14	1.400 (35.56)	A19382-ND	1.03	23.25	1-644695-4
11	Right Angle Post .64 (.025) Square w/o Retentive Legs, Tin Plated	2	.200 (5.08)	A19390-ND	.23	3.45	644457-2
		3	.300 (7.62)	A19391-ND	.23	4.50	644457-3
		4	.400 (10.16)	A19392-ND	.31	6.91	644457-4
		5	.500 (12.70)	A19393-ND	.38	8.64	644457-5
		6	.600 (15.24)	A19394-ND	.42	9.42	644457-6
		7	.700 (17.78)	A19395-ND	1.35	30.39	644457-7
		8	.800 (20.32)	A19396-ND	.56	12.56	644457-8
		9	.900 (22.86)	A19397-ND	.63	14.13	644457-9
		10	1.000 (25.40)	A19398-ND	.70	15.70	1-644457-0
		11	1.100 (27.94)	A19399-ND	.77	17.27	1-644457-1
		12	1.200 (30.48)	A19400-ND	.84	18.84	1-644457-2
		13	1.300 (33.02)	A19401-ND	.91	20.41	1-644457-3
		14	1.400 (35.56)	A19402-ND	.98	21.98	1-644457-4
	Right Angle Post .64 (.025) Square with Retentive Legs, Tin Plated	2	.200 (5.08)	A19410-ND	.20	3.30	644694-2
		3	.300 (7.62)	A19411-ND	.22	4.96	644694-3
		4	.400 (10.16)	A19412-ND	.34	7.60	644694-4
		5	.500 (12.70)	A19413-ND	.42	9.50	644694-5
		6	.600 (15.24)	A19414-ND	.46	10.36	644694-6
		7	.700 (17.78)	A19415-ND	.54	12.09	644694-7
		8	.800 (20.32)	A19416-ND	.61	13.82	644694-8
		9	.900 (22.86)	A19417-ND	.69	15.54	644694-9
		10	1.000 (25.40)	A19418-ND	.77	17.27	1-644694-0
		11	1.100 (27.94)	A19419-ND	.84	19.00	1-644694-1
		12	1.200 (30.48)	A19420-ND	.92	20.72	1-644694-2
		13	1.300 (33.02)	A19421-ND	1.00	22.45	1-644694-3
		14	1.400 (35.56)	A19422-ND	1.07	24.18	1-644694-4
	Polarized Headers, .100" (2.54mm) Centers						
12A	Straight Post .64 (.025) Square, Tin Plated	2	.200 (5.08)	A19423-ND	.11	1.03	640454-2
		3	.300 (7.62)	A19430-ND	.10	1.41	640454-3
		4	.400 (10.16)	A19431-ND	.14	1.88	640454-4
		5	.500 (12.70)	A19432-ND	.17	2.29	640454-5
		6	.600 (15.24)	A19433-ND	.19	2.59	640454-6
		7	.700 (17.78)	A19434-ND	.21	2.94	640454-7
		8	.800 (20.32)	A19435-ND	.22	3.10	640454-8
		9	.900 (22.86)	A19436-ND	.66	14.95	640454-9
		10	1.000 (25.40)	A19437-ND	.27	3.73	1-640454-0
		11	1.100 (27.94)	A19438-ND	.81	18.27	1-640454-1
		12	1.200 (30.48)	A19439-ND	.41	5.65	1-640454-2
		13	1.300 (33.02)	A19440-ND	.96	21.59	1-640454-3
		14	1.400 (35.56)	A19441-ND	1.03	23.25	1-640454-4
		15	1.500 (38.1)	A23929-ND	1.38	1.25	1-640454-5
	Straight Post .64 (.025) Square, 30µ Gold Plated	2	.200 (5.08)	A23897-ND	.50	11.17	641213-2
		3	.300 (7.62)	A23898-ND	.77	17.27	641213-3
		4	.400 (10.16)	A23899-ND	.96	21.49	641213-4
		5	.500 (12.7)	A23900-ND	.91	20.47	641213-5
		6	.600 (15.24)	A23901-ND	1.31	29.47	641213-6
		7	.700 (17.78)	A23902-ND	1.46	32.75	641213-7
		8	.800 (20.32)	A23931-ND	.91	20.40	641213-8
		9	.900 (22.86)	A23903-ND	1.83	41.26	641213-9
		10	1.00 (25.4)	A23904-ND	1.91	42.98	1-641213-0
		11	1.100 (27.94)	A23905-ND	2.22	49.86	1-641213-1
		12	1.200 (30.48)	A23906-ND	2.33	52.43	1-641213-2
		13	1.300 (33.02)	A23907-ND	2.56	57.59	1-641213-3
		14	1.400 (35.56)	A23908-ND	2.71	61.03	1-641213-4
		15	1.500 (38.1)	A23909-ND	2.79	62.76	1-641213-5
13A	Right Angle Post .64 (.025) Square, Tin Plated	2	.200 (5.08)	A19450-ND	.11	1.03	640455-2
		3	.300 (7.62)	A19451-ND	.10	1.41	640455-3
		4	.400 (10.16)	A19452-ND	.14	1.88	640455-4
		5	.500 (12.70)	A19453-ND	.17	2.29	640455-5
		6	.600 (15.24)	A19454-ND	.19	2.59	640455-6
		7	.700 (17.78)	A19455-ND	.21	2.94	640455-7
		8	.800 (20.32)	A19456-ND	.22	3.10	640455-8
		9	.900 (22.86)	A19457-ND	.66	14.95	640455-9
		10	1.000 (25.40)	A19458-ND	.27	3.73	1-640455-0
		11	1.100 (27.94)	A19459-ND	.81	18.27	1-640455-1
		12	1.200 (30.48)	A19460-ND	.41	5.65	1-640455-2
		13	1.300 (33.02)	A19461-ND	.96	21.59	1-640455-3
		14	1.400 (35.56)	A19462-ND	1.03	23.25	1-640455-4
		15	1.500 (38.1)	A23932-ND	1.38	31.14	1-640455-5
	Right Angle Post .64 (.025) Square, 30µ Gold Plated	2	.200 (5.08)	A23910-ND	.84	18.91	641214-2
		3	.300 (7.62)	A23911-ND	1.15	25.79	641214-3
		4	.400 (10.16)	A23912-ND	1.41	31.80	641214-4
		5	.500 (12.7)	A23913-ND	1.64	36.96	641214-5
		6	.600 (15.24)	A23914-ND	1.87	42.12	641214-6
		7	.700 (17.78)	A23915-ND	2.02	45.56	641214-7
		8	.800 (20.32)	A23933-ND	.91	20.40	641214-8
		9	.900 (22.86)	A23916-ND	2.22	49.86	641214-9
		10	1.00 (25.4)	A23917-ND	2.31	52.00	1-641214-0
		11	1.100 (27.94)	A23918-ND	2.41	54.15	1-641214-1
		12	1.200 (30.48)	A23919-ND	2.60	58.45	1-641214-2
		13	1.300 (33.02)	A24927-ND	2.87	64.47	1-641214-3
		14	1.400 (35.56)	A24928-ND	2.98	67.05	1-641214-4
		15	1.500 (38.1)	A24929-ND	3.01	67.83	1-641214-5
	Post Headers, .100" (2.54mm) Centers, Friction Lock Header						
12B	Straight Post .64 (.025) Square, Tin Plated	2	.200 (5.08)	A1921-ND	.11	1.03	640456-2
		3	.300 (7.62)	A19470-ND	.10	1.41	640456-3
		4	.400 (10.16)	A1922-ND	.14	1.88	640456-4
		5	.500 (12.70)	A19471-ND	.17	2.29	640456-5
		6	.600 (15.24)	A1923-ND	.19	2.59	640456-6
		7	.700 (17.78)	A19472-ND	.21	2.94	640456-7
		8	.800 (20.32)	A1924-ND	.22	3.10	640456-8
		9	.900 (22.86)	A19473-ND	.66	14.95	640456-9
		10	1.000 (25.40)	A1925-ND	.27	3.73	1-640456-0
		11	1.100 (27.94)	A19474-ND	.81	18.27	1-640456-1
		12	1.200 (30.48)	A19475-ND	.41	5.65	1-640456-2
		13	1.300 (33.02)	A19476-ND	.96	21.59	1-640456-3
		14	1.400 (35.56)	A19477-ND	1.03	23.25	1-640456-4
		15	1.500 (38.1)	A24930-ND	1.38	31.14	1-640456-5
		16	1.600 (40.64)	A29106-ND	1.48	30.75	1-640456-6
		20	2.000 (50.80)	A29104-ND	1.85	38.44	2-640456-0
		24	2.4000 (60.96)	A29105-ND	2.21	46.13	2-640456-4
12B	Straight Post .64 (.025) Square, 30µ Gold Plated	2	.200 (5.08)	A24932-ND	.51	11.44	641215-2
		3	.300 (7.62)	A24933-ND	.77	17.23	641215-3
		4	.400 (10.16)	A24934-ND	.95	21.28	641215-4
		5	.500 (12.7)	A24935-ND	1.24	27.83	641215-5
		6	.600 (15.24)	A24936-ND	1.38	31.11	641215-6
		7	.700 (17.78)	A24937-ND	1.53	34.38	641215-7
		8	.800 (20.32)	A23941-ND	.91	20.40	641215-8
		9	.900 (22.86)	A24938-ND	1.82	40.93	641215-9
		10	1.00 (25.4)	A24939-ND	1.93	43.39	1-641215-0
		11	1.100 (27.94)	A24940-ND	2.22	49.94	1-641215-1
		12	1.200 (30.48)	A24941-ND	2.33	52.39	1-641215-2
		14	1.400 (35.56)	A24942-ND	2.73	61.40	1-641215-4
		15	1.500 (38.1)	A24943-ND	2.98	67.13	1-641215-5
13B	Right Angle Post .64 (.025) Square, Tin Plated	2	.200 (5.08)	A1926-ND	.11	1.03	640457-2
		3	.300 (7.62)	A19480-ND	.10	1.41	640457-3
		4	.400 (10.16)	A1927-ND	.14	1.88	640457-4
		5	.500 (12.70)	A19481-ND	.17	2.29	640457-5
		6	.600 (15.24)	A1928-ND	.19	2.59	640457-6
		7	.700 (17.78)	A19482-ND	.21	2.94	640457-7
		8	.800 (20.32)	A1929-ND	.22	3.10	640457-8
		9	.900 (22.86)	A19483-ND	.66	14.95	640457-9
		10	1.000 (25.40)	A1930-ND	.27	3.73	1-640457-0
		11	1.100 (27.94)	A19484-ND	.81	18.27	1-640457-1
		12	1.200 (30.48)	A19485-ND	.41	5.65	1-640457-2
		13	1.300 (33.02)	A19486-ND	.96	21.59	1-640457-3
		14	1.400 (35.56)	A19487-ND	1.03	23.25	1-640457-4
	Right Angle Post .64 (.025) Square, 30µ Gold Plated	2	.200 (5.08)	A24944-ND	.77	17.23	641216-2
		3	.300 (7.62)	A24945-ND	1.06	23.74	641216-3
		4	.400 (10.16)	A23943-ND	1.28	28.78	641216-4
		5	.500 (12.7)	A24946-ND	1.53	34.38	641216-5
		6	.600 (15.24)	A24947-ND	1.67	37.66	641216-6
		7	.700 (17.78)	A24948-ND	1.75	39.30	641216-7
		8	.800 (20.32)	A23944-ND	.91	20.40	641216-8
		9	.900 (22.86)	A24949-ND	1.93	43.39	641216-9
		10	1.00 (25.4)	A24950-ND	2.15	48.30	1-641216-0
		11	1.100 (27.94)	A24951-ND	2.33	52.39	1-641216-1
		12	1.200 (30.48)	A24952-ND	2.86	64.40	1-641216-2
		13	1.300 (33.02)	A24953-ND	2.77	62.22	1-641216-3
		14	1.400 (35.56)	A24954-ND	2.95	66.31	1-641216-4
		15	1.500 (38.1)	A24955-ND	3.01	67.83	1-641216-5
	Shrouded Headers, .100" (2.54mm)						
14	Straight Post .64 (.025) Square w/ Pegs, Tin Plated	2	—	A23945-ND	.42	9.45	644486-2
		3	—	A23946-ND	.48	10.72	644486-3
		4	—	A23925-ND	.82	18.34	644486-4
		5	—	A23926-ND	1.02	22.92	644486-5
		6	—	A23928-ND	1.11	25.00	644486-6
		7	—	A23930-ND	1.30	29.17	644486-7
		8	—	A23957-ND	.66	14.84	644486-8
		9	—	A23934-ND	3.21	72.15	644486-9
		10	—	A23935-ND	2.64	59.33	1-644486-0
		11	—	A23936-ND	2.04	45.84	1-644486-1
		12	—	A23937-ND	2.22	50.01	1-644486-2
		13	—	A23938-ND	2.41	54.17	1-644486-3
		14	—	A23939-ND	2.59	58.34	1-644486-4
	Straight Post .64 (.025) Square w/out Pegs, Tin Plated	2	—	A23958-ND	.50	11.17	644861-2
		3	—	A23959-ND	.71	15.95	644861-3
		4	—	A23940-ND	.82	18.34	644861-4
		5	—	A23825-ND	1.02	22.92	644861-5
		6	—	A23858-ND	1.11	25.00	644861-6
		7	—	A23859-ND	1.23	27.71	644861-7
		8	—	A23960-ND	.66	14.84	644861-8
		9	—	A23860-ND	3.21	72.15	644861-9
		10	—	A23861-ND	2.64	59.33	1-644861-0
		11	—	A23862-ND	2.04	45.84	1-644861-1
		12	—	A23863-ND	2.22	50.01	1-644861-2
		13	—	A23864-ND	2.41	54.17	1-644861-3
		14	—	A23865-ND	2.59	58.34	1-644861-4
15A	Right-Angle Posts .64 (.025) Square, Front Bend w/out Pegs, Tin Plated	2	.284 (7.21)	A23866-ND	.85	19.22	644488-2
		3	.384 (9.75)	A23867-ND	.85	19.22	644488-3
		4	.484 (12.29)	A23868-ND	.84	18.98	644488-4
		5	.584 (14.83)	A23869-ND	1.12	25.22	644488-5
		6	.684 (17.37)	A23870-ND	1.15	25.88	644488-6
		7	.784 (19.91)	A23871-ND	1.34	30.19	644488-7
		8	.884 (22.45)	A23872-ND	1.53	34.51	644488-8
		9	.984 (24.99)	A23873-ND	2.33	52.41	644488-9
		10	1.084 (27.53)	A23874-ND	2.73	61.41	1-644488-0
		11	1.184 (30.07)	A23875-ND	2.11	47.45	1-644488-1
		12	1.284 (32.61)	A23876-ND	2.30	51.76	1-644488-2
		13	1.384 (35.15)	A23877-ND	2.49	56.07	1-644488-3
		14	1.484 (37.69)	A23878-ND	2.70	60.68	1-644488-4
15B	Right-Angle Posts .64 (.025) Square, Rear Bend w/out Pegs, Tin Plated	2	.284 (7.21)	A23879-ND	.85	19.22	644803-2
		3	.384 (9.75)	A23880-ND	.85	19.22	644803-3
		4	.484 (12.29)	A23881-ND	.84	18.98	644803-4
		5	.584 (14.83)	A23882-ND	.67	15.18	644803-5
		6	.684 (17.37)	A23883-ND	1.15	25.88	644803-6
		7	.784 (19.91)	A23884-ND	1.76	39.61	644803-7
		8	.884 (22.45)	A23885-ND	1.38	30.97	644803-8
		9	.984 (24.99)	A23886-ND	2.33	52.41	644803-9
		10	1.084 (27.53)	A23887-ND	2.73	61.41	1-644803-0
		11	1.184 (30.07)	A23888-ND	2.11	47.45	1-644803-1
		12	1.284 (32.61)	A23889-ND	2.30	51.76	1-644803-2
		13	1.384 (35.15)	A23890-ND	2.49	56.07	1-644803-3
		14	1.484 (37.69)	A23891-ND	2.70	60.68	1-644803-4

A9982-ND	T-Handle Tool for MTA .100" (2.54mm)	$17.93 /1	59803-1
A9973-ND	Crimp Die for MTA .100" (2.54mm) Feed Thru Receptacles	$435.00 /1	58442-1
A1998-ND	Crimp Die for MTA .100" (2.54mm) IDC Closed End Receptacles (Must be used with handle A2031-ND) use with Fig. 1	$103.74 /1	58246-1
A2031-ND	Manual Pistol Grip Handle for Metal and All-Plastic Shell Connectors. (Must order crimp die separately) use with Fig. 1	$55.50 /1	58074-1
A19530-ND	Crimp Tool for CST-100 with Die	$208.50 /1	58517-1
A19531-ND	Die Set for CST-100 (use with A9996)	$166.50 /1	58517-2
A9996-ND	Crimp Tool Handle for CST-100	$66.00 /1	354940-1

† UL94V-0 – Black Housing

3M Board Mount Interconnect Products

Finish Options: • 10µ" selective gold over 50µ" nickel on contact post; 100µ" 90/10 solder plate on tail portion • 100µ" 90/0 solder plate on posts and tails

2400 Series: • Material: Glass filled polyester • Flammability: UL94V-O • Color: Gray • Phosphor bronze plating • 100µ" nickel underplating • Gold wiping area • 200µ" 60/40 tin on solder tails • Current Rating: 3 Amps • Withstanding Voltage: 100VAC • Temperature Rating: -55°C to 105°C • UL File No. E88080, CSA File No. LR 40971

Fig. 1 – Straight, Single Row Male

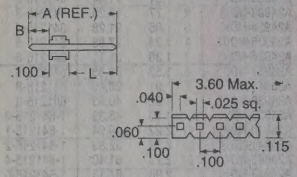


Fig. 2 – Straight, Dual Row Male (.1" x .1" Matrix)

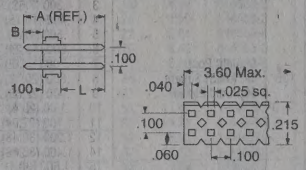


Fig. 3 – Right Angle, Single Row Male

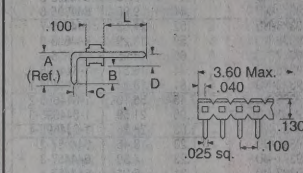


Fig. 4 – Right Angle, Dual Row Male (.1" x .1" Matrix)

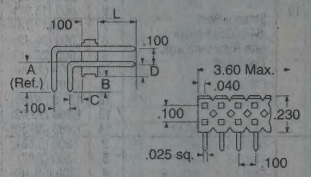


Fig. 5 – Right Angle, Single Row Polarized Male (36 Positions)

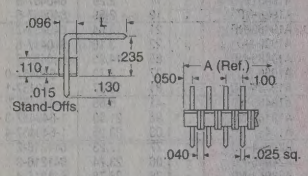


Fig. 6 – Straight, Single Row Female

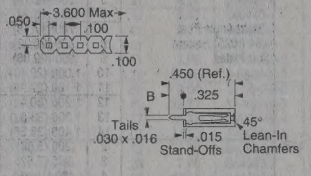


Fig. 7 – Straight, Dual Row Female (.1" x .1" Matrix)

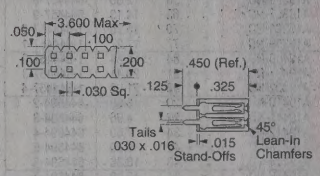
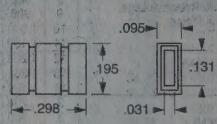


Fig. 8 – Shorting Jumpers



36 Pin Headers

Fig.	Plating	No. of Pins	Dimensions (Inch) L	A(ref)	B	C	D	Digi-Key Part No.	Price Each 1	10	100
			Straight, Single Row Male								
1	Solder	36	.235	.545	.210	—	—	929834-02-36-ND	1.80	1.61	1.33
			.235	.745	.410	—	—	929834-03-36-ND	2.17	1.94	1.60
			.235	.845	.510	—	—	929834-04-36-ND	2.39	2.15	1.77
			.235	.945	.610	—	—	929834-05-36-ND	2.42	2.17	1.79
			.235	1.245	.910	—	—	929834-07-36-ND	2.76	2.48	2.04
	Gold	36	.235	.480	.145	—	—	929647-09-36-ND	3.05	2.73	2.25
			.235	.545	.210	—	—	929647-02-36-ND	3.31	2.96	2.44
			.235	.745	.410	—	—	929647-03-36-ND	4.10	3.68	3.03
			.235	.845	.510	—	—	929647-04-36-ND	5.27	4.72	3.89
			.235	.945	.610	—	—	929647-05-36-ND	4.87	4.37	3.60
			.235	1.245	.910	—	—	929647-07-36-ND	5.67	5.08	4.18
	Solder	36	.295	.535	.130	—	—	929400-01-36-ND	1.80	1.61	1.33
	Gold	36	.295	.535	.130	—	—	929450-01-36-ND	3.19	2.86	2.36
			Straight, Dual Row Male								
2	Solder	72	.235	.480	.145	—	—	929836-09-36-ND	3.39	3.04	2.50
			.235	.545	.210	—	—	929836-02-36-ND	2.94	2.63	2.17
			.235	.645	.310	—	—	929836-08-36-ND	3.79	3.40	2.80
			.235	.845	.510	—	—	929836-04-36-ND	3.88	3.47	2.86
			.235	.945	.610	—	—	929836-05-36-ND	3.68	3.29	2.71
	Gold	72	.235	.480	.145	—	—	929665-09-36-ND	4.93	4.42	3.64
			.235	.545	.210	—	—	929665-02-36-ND	5.36	4.80	3.95
			.235	.645	.310	—	—	929665-08-36-ND	5.79	5.18	4.27
			.235	.745	.410	—	—	929665-03-36-ND	6.61	5.92	4.88
			.235	.845	.510	—	—	929665-04-36-ND	8.49	7.60	6.26
			.235	.945	.610	—	—	929665-05-36-ND	9.15	8.19	6.75
	Solder	72	.318	.593	.175	—	—	929710-10-36-ND	3.08	2.76	2.27
			.318	.828	.410	—	—	929710-03-36-ND	4.39	3.93	3.24
	Gold	72	.318	.593	.175	—	—	929715-10-36-ND	5.64	5.05	4.16
			.318	.828	.410	—	—	929715-03-36-ND	7.35	6.58	5.42
			Right Angle, Single Row Male								
3	Solder	36	.235	.185	.110	.070	.075	929835-01-36-ND	1.82	1.64	1.35
			Right Angle, Dual Row Male								
4	Solder	72	.235	.220	.145	.070	.075	929838-04-36-ND	3.76	3.37	2.78
			.235	.480	.405	.070	.075	929838-02-36-ND	3.79	3.40	2.80
	Gold	72	.235	.220	.145	.070	.075	929667-04-36-ND	7.07	6.33	5.21
			.235	.480	.405	.070	.075	929667-02-36-ND	8.49	7.60	6.26
			Right Angle, Single Row Polarized Male								
5	Solder	36	.295	3.600	—	—	—	929500-01-36-ND	2.00	1.79	1.47
	Gold	36	.295	3.600	—	—	—	929550-01-36-ND	3.96	3.55	2.92
			Straight, Single Row Female								
6	Solder	36	—	—	.125	—	—	929974-01-36-ND	2.57	2.30	1.89
	Gold	36	—	—	.125	—	—	929850-01-36-ND	3.31	2.96	2.44
			Straight, Dual Row Female								
7	Solder	72	—	—	—	—	—	929975-01-36-ND	4.45	3.98	3.28
	Gold	72	—	—	—	—	—	929852-01-36-ND	6.33	5.67	4.67
			Shorting Jumpers								
8	Solder Plated							929950-00-ND		2.29 per 10	
	10µ Gold Plated							929955-06-ND		2.70 per 10	
	30µ Gold Plated							929957-08-ND		3.12 per 10	

1-35 Pin Headers

Step 1 Digi-Key Part No.*	Step 2 Base Price	Step 3 Pin Adder
Straight, Single Row Male		
929834-02-XX-ND	.86	.03
929834-03-XX-ND	1.25	.03
929834-04-XX-ND	1.13	.04
929834-05-XX-ND	1.17	.04
929834-07-XX-ND	1.53	.04
929647-09-XX-ND	1.48	.05
929647-02-XX-ND	1.41	.06
929647-03-XX-ND	1.90	.07
929647-04-XX-ND	2.44	.09
929647-05-XX-ND	2.36	.08
929647-07-XX-ND	2.86	.09
929400-01-XX-ND	.86	.03
929450-01-XX-ND	1.63	.05
Straight, Dual Row Male		
929836-09-XX-ND	1.49	.06
929836-02-XX-ND	1.37	.05
929836-08-XX-ND	1.92	.06
929836-04-XX-ND	1.66	.07
929836-05-XX-ND	1.80	.06
929665-09-XX-ND	2.43	.08
929665-02-XX-ND	2.53	.09
929665-08-XX-ND	2.64	.10
929665-03-XX-ND	3.16	.11
929665-04-XX-ND	4.10	.14
929665-05-XX-ND	4.10	.16
929710-10-XX-ND	1.51	.05
929710-03-XX-ND	2.20	.07
929715-10-XX-ND	2.83	.09
929715-03-XX-ND	3.24	.13
Right Angle, Single Row Male		
929835-01-XX-ND	.88	.03
Right Angle, Dual Row Male		
929838-04-XX-ND	1.89	.06
929838-02-XX-ND	1.92	.06
929667-04-XX-ND	3.29	.12
929667-02-XX-ND	4.10	.14
Right Angle, Single Row Polarized Male		
929500-01-XX-ND	1.07	.03
929550-01-XX-ND	1.75	.07
Straight, Single Row Female		
929974-01-XX-ND	1.32	.04
929850-01-XX-ND	1.41	.06
Straight, Dual Row Female		
929975-01-XX-ND	2.27	.07
929852-01-XX-ND	2.86	.11

* Replace XX in the Digi-Key part number with your desired number of pins per row.

HOW TO ORDER: 4 EASY STEPS

How do I order a 929834-02 header with 16 pins?

Call Digi-Key where you'll happily receive the price, or Determine the cost yourself.

929☐☐☐-☐☐-☐☐-ND

Base Part Number — Number of Desired Pins per Row

Step 1. Select needed Digi-Key Part Number and number of pins desired.

Step 2. Begin with the appropriate "Base Price" of your selected part number (refer to chart).

Step 3. Multiply the number of pins you desire by the "Pin Adder" of your selected part number (refer to chart).

Step 4. Add Step 2 and Step 3 together for final cost!

Our Example:

Step 1. 929834-02-16-ND
Step 2. .86
Step 3. 16 x .03 = .48
Step 4. Your Cost = $1.34

Your Digi-Key Part Number:

Step 1. 929☐☐☐-☐☐-☐☐-ND
Step 2. _____
Step 3. ____ x ____ = _____
Step 4. Your Cost = $ _____

***NOTE:* For quantities of 10 or more, call DIGI-KEY.**

Micro-Fit 3.0™ Connectors

Features: • Fully isolated contacts • Fully polarized to mating receptacle • Integral pull tabs for ease in unmating **Electrical:** 250V *Current:* 5.0A max. *Contact Res:* 10mΩ max. *Dielectric Withstanding Volt:* 1500VAC *Insulation Res.:* 1,000MΩ min. **Physical:** *Housing:* UL 94V-0 *Contact:* Phosphor Bronze *Plating:* Tin or Gold **BMI Features and Benefits:** Connectors float in panel cutout up to 1.27mm (.050") in any direction. Use standard Micro-Fit terminals. Innovative panel mounting design holds connectors firmly in place. Fully isolated contacts prevent terminal damage. Fully polarized to completely prevent mismatching.

Fig. 1

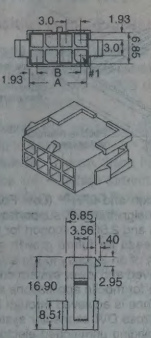


Fig. 2

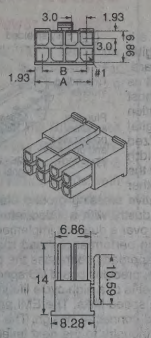


Fig. 3

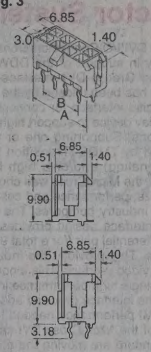


Fig. 4

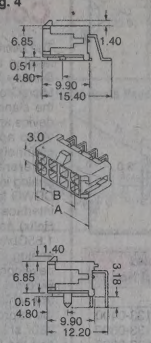


Fig. 5 – Blind Mate

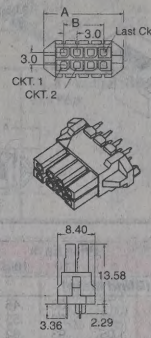


Fig. 6 – Blind Mate

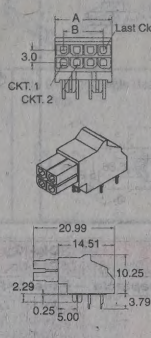


Fig. 7 – Blind Mate

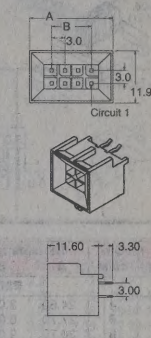


Fig.	Cir-cuits	Dim. (mm) A	Dim. (mm) B	Plating	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Molex Part No.
Plug Housing — Panel Mount (uses male terminal)									
1	2	3.85	—	—	WM1777-ND	.57	.51	.34	43020-0200
	4	6.85	3.00	—	WM1778-ND	.65	.58	.39	43020-0400
	6	9.85	6.00	—	WM1779-ND	.76	.67	.45	43020-0600
	8	12.85	9.00	—	WM1780-ND	.84	.75	.50	43020-0800
	10	15.85	12.00	—	WM1781-ND	.97	.86	.57	43020-1000
	12	18.85	15.00	—	WM1782-ND	1.12	.99	.66	43020-1200
	14	21.85	18.00	—	WM2483-ND	1.26	1.11	.74	43020-1400
	16	24.85	21.00	—	WM2484-ND	1.44	1.28	.85	43020-1600
	18	27.85	24.00	—	WM2485-ND	1.61	1.42	.95	43020-1800
	20	30.85	27.00	—	WM2486-ND	1.78	1.58	1.05	43020-2000
	22	33.85	30.00	—	WM2487-ND	1.95	1.72	1.15	43020-2200
	24	36.85	33.00	—	WM2488-ND	2.13	1.88	1.26	43020-2400
Receptacle Housing (uses female terminal)									
2	2	3.85	—	—	WM1783-ND	.57	.51	.34	43025-0200
	4	6.85	3.00	—	WM1784-ND	.65	.58	.39	43025-0400
	6	9.85	6.00	—	WM1785-ND	.76	.67	.45	43025-0600
	8	12.85	9.00	—	WM1786-ND	.84	.75	.50	43025-0800
	10	15.85	12.00	—	WM1787-ND	.97	.86	.57	43025-1000
	12	18.85	15.00	—	WM1788-ND	1.12	.99	.66	43025-1200
	14	21.85	18.00	—	WM2489-ND	1.26	1.11	.74	43025-1400
	16	24.85	21.00	—	WM2490-ND	1.44	1.28	.85	43025-1600
	18	27.85	24.00	—	WM2491-ND	1.61	1.42	.95	43025-1800
	20	30.85	27.00	—	WM2492-ND	1.78	1.57	1.05	43025-2000
	22	33.85	30.00	—	WM2493-ND	1.94	1.72	1.15	43025-2200
	24	36.85	33.00	—	WM2494-ND	2.13	1.88	1.26	43025-2400
Vertical Header — Through-Hole with Offset Terminal Retention									
3	2	6.65	—	Tin	WM1789-ND	1.02	.90	.60	43045-0212
	4	9.65	3.00	Tin	WM1790-ND	1.40	1.24	.83	43045-0412
	6	12.65	6.00	Tin	WM1791-ND	1.77	1.57	1.05	43045-0612
	8	15.65	9.00	Tin	WM1792-ND	2.15	1.90	1.27	43045-0812
	10	18.65	12.00	Tin	WM1793-ND	2.52	2.23	1.49	43045-1012
	12	21.65	15.00	Tin	WM1794-ND	2.92	2.58	1.72	43045-1212
	14	24.65	18.00	Tin	WM4711-ND	3.32	2.93	1.96	43045-1412
	16	27.65	21.00	Tin	WM4712-ND	3.70	3.27	2.18	43045-1612
	18	30.65	24.00	Tin	WM4713-ND	4.16	3.67	2.45	43045-1812
	20	33.65	27.00	Tin	WM4714-ND	4.62	4.08	2.72	43045-2012
	22	36.65	30.00	Tin	WM4715-ND	5.08	4.49	2.99	43045-2212
	24	39.65	33.00	Tin	WM4716-ND	5.54	4.89	3.26	43045-2412
	2	6.65	—	Gold, 30µ"	WM1795-ND	1.59	1.41	.94	43045-0214
	4	9.65	3.00	Gold, 30µ"	WM1796-ND	2.20	1.95	1.30	43045-0414
	6	12.65	6.00	Gold, 30µ"	WM1797-ND	2.80	2.47	1.65	43045-0614
	8	15.65	9.00	Gold, 30µ"	WM1798-ND	3.38	2.99	1.99	43045-0814
	10	18.65	12.00	Gold, 30µ"	WM1799-ND	4.03	3.56	2.38	43045-1014
	12	21.65	15.00	Gold, 30µ"	WM1800-ND	4.55	4.02	2.68	43045-1214
	14	24.65	18.00	Gold	WM4717-ND	5.19	4.59	3.06	43045-1414
	16	27.65	21.00	Gold	WM4718-ND	5.78	5.10	3.40	43045-1614
	18	30.65	24.00	Gold	WM4719-ND	6.50	5.74	3.83	43045-1814
	20	33.65	27.00	Gold	WM4720-ND	8.01	7.07	4.72	43045-2014
	22	36.65	30.00	Gold	WM4721-ND	7.94	7.01	4.68	43045-2214
	24	39.65	33.00	Gold	WM4722-ND	8.65	7.64	5.09	43045-2414
Vertical Header — SMT with Fitting Nail									
3	2	6.65	—	Tin	WM1801-ND	3.09	2.73	1.82	43045-0218
	4	9.65	3.00	Tin	WM1802-ND	3.57	3.15	2.10	43045-0418
	6	12.65	6.00	Tin	WM1803-ND	4.47	3.95	2.64	43045-0618-P
	8	15.65	9.00	Tin	WM1804-ND	4.61	4.07	2.71	43045-0818
	10	18.65	12.00	Tin	WM1805-ND	5.06	4.47	2.98	43045-1018
	12	21.65	15.00	Tin	WM1806-ND	5.52	4.87	3.25	43045-1218
	2	6.65	—	Gold, 30µ"	WM1807-ND	3.81	3.36	2.24	43045-0220
	4	9.65	3.00	Gold, 30µ"	WM1808-ND	4.56	4.03	2.69	43045-0420
	6	12.65	6.00	Gold, 30µ"	WM1809-ND	5.29	4.67	3.12	43045-0620
	8	15.65	9.00	Gold, 30µ"	WM1810-ND	6.13	5.42	3.61	43045-0820
	10	18.65	12.00	Gold, 30µ"	WM1811-ND	6.86	6.05	4.04	43045-1020
	12	21.65	15.00	Gold, 30µ"	WM1812-ND	7.57	6.69	4.46	43045-1220
Right Angle Header — Through-Hole									
4	2	6.65	—	Tin	WM1813-ND	1.32	1.17	.78	43045-0200
	4	9.65	3.00	Tin	WM1814-ND	1.69	1.49	1.00	43045-0400
	6	12.65	6.00	Tin	WM1815-ND	2.13	1.88	1.26	43045-0600
	8	15.65	9.00	Tin	WM1816-ND	2.60	2.30	1.54	43045-0800
	10	18.65	12.00	Tin	WM1817-ND	3.05	2.69	1.80	43045-1000
	12	21.65	15.00	Tin	WM1818-ND	3.50	3.09	2.06	43045-1200
	14	24.65	18.00	Tin	WM4723-ND	3.99	3.53	2.35	43045-1400
	16	27.65	21.00	Tin	WM4724-ND	4.46	3.94	2.63	43045-1600
	18	30.65	24.00	Tin	WM4725-ND	5.02	4.43	2.96	43045-1800
	20	33.65	27.00	Tin	WM4726-ND	5.58	4.93	3.29	43045-2000
	22	36.65	30.00	Tin	WM4727-ND	6.13	5.42	3.61	43045-2200
	24	39.65	33.00	Tin	WM4728-ND	6.69	5.90	3.94	43045-2400
4	2	6.65	—	Gold, 30µ"	WM1819-ND	1.93	1.71	1.14	43045-0202
	4	9.65	3.00	Gold, 30µ"	WM1820-ND	2.65	2.34	1.56	43045-0402
	6	12.65	6.00	Gold, 30µ"	WM1821-ND	3.37	2.98	1.99	43045-0602
	8	15.65	9.00	Gold, 30µ"	WM1822-ND	4.10	3.62	2.42	43045-0802
	10	18.65	12.00	Gold, 30µ"	WM1823-ND	4.82	4.26	2.84	43045-1002
	12	21.65	15.00	Gold, 30µ"	WM1824-ND	5.57	4.92	3.28	43045-1202
	14	24.65	18.00	Gold, 30µ"	WM4729-ND	6.25	5.52	3.68	43045-1402
	16	27.65	21.00	Gold, 30µ"	WM4730-ND	6.98	6.16	4.11	43045-1602
	18	30.65	24.00	Gold, 30µ"	WM4731-ND	7.85	6.93	4.62	43045-1802
	20	33.65	27.00	Gold, 30µ"	WM4732-ND	8.72	7.70	5.14	43045-2002
	22	36.65	30.00	Gold, 30µ"	WM4733-ND	9.60	8.47	5.65	43045-2202
	24	39.65	33.00	Gold, 30µ"	WM4734-ND	10.46	9.24	6.16	43045-2402
Right Angle Header — SMT with Fitting Nail									
4	2	6.65	—	Tin	WM1825-ND	3.00	2.65	1.77	43045-0209
	4	9.65	3.00	Tin	WM1826-ND	3.61	3.19	2.13	43045-0409
	6	12.65	6.00	Tin	WM1827-ND	4.17	3.68	2.46	43045-0609
	8	15.65	9.00	Tin	WM1828-ND	4.87	4.30	2.87	43045-0809
	10	18.65	12.00	Tin	WM1829-ND	5.42	4.78	3.19	43045-1009
	12	21.65	15.00	Tin	WM1830-ND	5.96	5.27	3.51	43045-1209
	2	6.65	—	Gold, 30µ"	WM1831-ND	3.87	3.42	2.28	43045-0211
	4	9.65	3.00	Gold, 30µ"	WM1832-ND	4.80	4.24	2.83	43045-0411
	6	12.65	6.00	Gold, 30µ"	WM1833-ND	5.66	5.00	3.34	43045-0611
	8	15.65	9.00	Gold, 30µ"	WM1834-ND	6.70	5.92	3.95	43045-0811
	10	18.65	12.00	Gold, 30µ"	WM1835-ND	7.56	6.68	4.45	43045-1011
	12	21.65	15.00	Gold, 30µ"	WM1836-ND	8.46	7.47	4.98	43045-1211
BMI Vertical Receptacle Header with Friction Pegs (Blind Mate)									
5	4	12.00	3.00	Tin	WM1953-ND	2.62	2.32	1.55	44769-0401
	6	15.00	6.00	Tin	WM1954-ND	3.33	2.94	1.96	44769-0601
	8	18.00	9.00	Tin	WM1955-ND	4.04	3.57	2.38	44769-0801
	10	21.00	12.00	Tin	WM1956-ND	4.74	4.18	2.79	44769-1001
	12	24.00	15.00	Tin	WM1957-ND	5.43	4.79	3.20	44769-1201
	14	27.00	18.00	Tin	WM1958-ND	6.15	5.43	3.62	44769-1401
	16	30.00	21.00	Tin	WM1959-ND	6.84	6.04	4.03	44769-1601
	4	12.00	3.00	Gold	WM1960-ND	3.27	2.89	1.93	44769-0402
	6	15.00	6.00	Gold	WM1961-ND	4.15	3.67	2.45	44769-0602
	8	18.00	9.00	Gold	WM1962-ND	5.03	4.45	2.97	44769-0802
	10	21.00	12.00	Gold	WM1963-ND	5.92	5.23	3.49	44769-1002
	12	24.00	15.00	Gold	WM1964-ND	6.78	5.99	3.99	44769-1202
	14	27.00	18.00	Gold	WM1965-ND	7.67	6.77	4.52	44769-1402
	16	30.00	21.00	Gold	WM1966-ND	8.53	7.53	5.02	44769-1602
BMI Right Angle Receptacle Header with Friction Pegs (Blind Mate)									
6	4	6.70	3.00	Tin	WM1981-ND	3.14	2.78	1.85	44764-0401
	6	9.70	6.00	Tin	WM1982-ND	3.98	3.51	2.34	44764-0601
	8	12.70	9.00	Tin	WM1983-ND	4.86	4.29	2.86	44764-0801
	10	15.70	12.00	Tin	WM1984-ND	5.70	5.03	3.36	44764-1001
	12	18.70	15.00	Tin	WM1985-ND	6.54	5.78	3.85	44764-1201
	14	21.70	18.00	Tin	WM1986-ND	7.39	6.53	4.35	44764-1401
	16	24.70	21.00	Tin	WM1987-ND	8.25	7.28	4.86	44764-1601
	4	6.70	3.00	Gold	WM1988-ND	3.92	3.46	2.31	44764-0402
	6	9.70	6.00	Gold	WM1989-ND	4.97	4.39	2.93	44764-0602
	8	12.70	9.00	Gold	WM1990-ND	6.07	5.36	3.57	44764-0802
	10	15.70	12.00	Gold	WM1991-ND	7.11	6.27	4.19	44764-1002
	12	18.70	15.00	Gold	WM1992-ND	8.18	7.22	4.82	44764-1202
	14	21.70	18.00	Gold	WM1993-ND	9.22	8.14	5.43	44764-1402
	16	24.70	21.00	Gold	WM1994-ND	10.29	9.09	6.06	44764-1602
BMI Vertical Header with Polarizing Pegs (Blind Mate)									
7	4	13.00	3.00	Tin	WM1967-ND	1.88	1.66	1.11	44432-0401
	6	16.00	6.00	Tin	WM1968-ND	2.39	2.11	1.41	44432-0601
	8	19.00	9.00	Tin	WM1969-ND	2.90	2.56	1.71	44432-0801
	10	22.00	12.00	Tin	WM1970-ND	3.40	3.00	2.00	44432-1001
	12	25.00	15.00	Tin	WM1971-ND	3.89	3.43	2.29	44432-1201
	14	28.00	18.00	Tin	WM1972-ND	4.41	3.90	2.60	44432-1401
	16	31.00	21.00	Tin	WM1973-ND	4.91	4.33	2.89	44432-1601
	4	13.00	3.00	Gold	WM1974-ND	2.34	2.07	1.38	44432-0402
	6	16.00	6.00	Gold	WM1975-ND	2.97	2.63	1.75	44432-0602
	8	19.00	9.00	Gold	WM1976-ND	3.61	3.19	2.13	44432-0802
	10	22.00	12.00	Gold	WM1977-ND	4.24	3.75	2.50	44432-1002
	12	25.00	15.00	Gold	WM1978-ND	4.85	4.29	2.86	44432-1202
	14	28.00	18.00	Gold	WM1979-ND	5.50	4.85	3.24	44432-1402
	16	31.00	21.00	Gold	WM1980-ND	6.11	5.40	3.60	44432-1602

(Continued)

Waldom Micro-Fit 3.0™ Connectors (Cont.)

Fig. 8 – Blind Mate

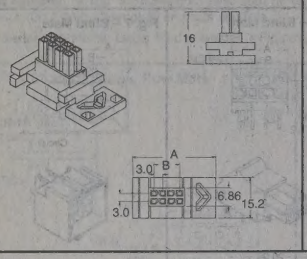


Fig. 9 – Blind Mate

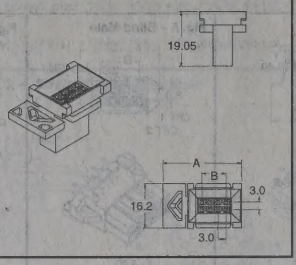
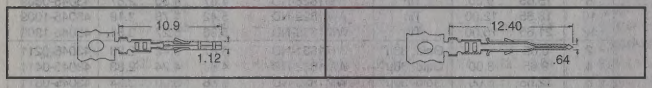


Fig.	Circuits	Dim. (mm) A	Dim. (mm) B	Plating	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Molex Part No.
BMI Receptacle — Panel-to-Panel (Blind Mate)									
	4	24.60	3.00	—	WM3712-ND	.77	.68	.46	44133-0400
	6	27.70	6.00	—	WM3713-ND	.92	.82	.55	44133-0600
	8	30.70	9.00	—	WM3714-ND	1.05	.93	.62	44133-0800
	10	33.80	12.00	—	WM3715-ND	1.22	1.09	.73	44133-1000
	12	36.80	15.00	—	WM3716-ND	1.45	1.28	.86	44133-1200
8	14	39.90	18.00	—	WM3717-ND	1.70	1.50	1.00	44133-1400
	16	42.90	21.00	—	WM3718-ND	1.96	1.74	1.16	44133-1600
	18	46.00	24.00	—	WM3719-ND	2.20	1.94	1.30	44133-1800
	20	49.00	27.00	—	WM3720-ND	2.45	2.17	1.45	44133-2000
	22	51.80	30.00	—	WM3721-ND	2.69	2.38	1.59	44133-2200
	24	54.90	33.00	—	WM3722-ND	2.95	2.60	1.74	44133-2400
BMI Plug — Panel-to-Panel (Blind Mate)									
	4	22.84	3.00	—	WM3608-ND	.77	.68	.46	44300-0400
	6	25.84	6.00	—	WM3609-ND	.92	.82	.55	44300-0600
	8	28.84	9.00	—	WM3610-ND	1.05	.93	.62	44300-0800
	10	31.84	12.00	—	WM3611-ND	1.22	1.09	.73	44300-1000
	12	34.84	15.00	—	WM3612-ND	1.45	1.28	.86	44300-1200
9	14	37.84	18.00	—	WM3613-ND	1.70	1.50	1.00	44300-1400
	16	40.84	21.00	—	WM3614-ND	1.96	1.74	1.16	44300-1600
	18	43.84	24.00	—	WM3615-ND	2.21	1.95	1.30	44300-1800
	20	46.84	27.00	—	WM3616-ND	2.45	2.17	1.45	44300-2000
	22	49.84	30.00	—	WM3617-ND	2.69	2.38	1.59	44300-2200
	24	52.84	33.00	—	WM3618-ND	2.95	2.60	1.74	44300-2400

Micro-Fit 3.0™ Terminals



Description	Wire Size AWG	Insul. Dia. (mm)	Digi-Key Part No.	Price Each 10	Price Each 100	Price Each 500	Molex Part No.
Female-Tin	20-24	1.85	WM1837-ND	.18	.12	.09	43030-0007
			WM1837CT-ND*	—	.12	.09	43030-0001
			WM1837TR-ND†	504.00/12,000			43030-0001
Female-Tin	26-30	1.27	WM1838-ND	.18	.12	.09	43030-0010
Female-30µ" Gold	20-24	1.85	WM1839-ND	.20	.13	.10	43030-0009
Female-30µ" Gold	26-30	1.27	WM1840-ND	.26	.17	.13	43030-0012
Male-Tin	20-24	1.85	WM1841-ND	.18	.12	.09	43031-0007
			WM1841CT-ND*	—	.12	.09	43031-0001
			WM1841TR-ND†	504.00/12,000			43031-0001
Male-Tin	26-30	1.27	WM1842-ND	.18	.12	.09	43031-0010
Male-30µ" Gold	20-24	1.85	WM1843-ND	.29	.19	.15	43031-0009
Male-30µ" Gold	26-30	1.27	WM1844-ND	.29	.19	.15	43031-0012
Female-15µ" Gold	20-24	1.27	WM1125CT-ND*	.12	.10	.08	43030-0002
			WM1125TR-ND†	552.00/12,000			
Male-15µ" Gold	20-24	1.85	WM1127CT-ND*	.13	.11	.09	43031-0002
			WM1127TR-ND†	600.00/12,000			
Universal Crimp Tool (Molex)			WM9999-ND		50.75/1		63811-1000
Crimp Tool			WM9935-ND		214.65/1		63811-2800
Extraction Tool			WM9937-ND		19.08/1		11-03-0043
Manual Wire Stripper (Molex)			WM9969-ND		95.16/1		63817-0000

* Cut Tape † Tape and Reel

Mezzanine IEEE 1386 Connectors

Fig. 1

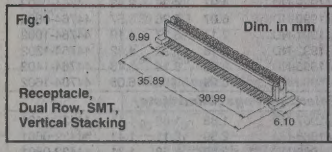
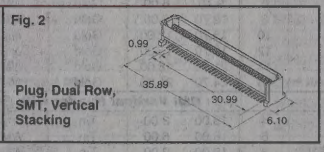


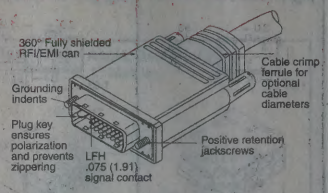
Fig. 2



Electrical: Voltage: 250V **Current:** 0.5A **Contact Resistance:** 30mΩ max. **Dielectric Withstanding Voltage:** 250V **Insulation Resistance:** 1000 MΩ min.
Mechanical: Contact Retention to Housing: 0.4kgf min. **Mating Force:** 60g max. per contact **Unmating Force:** 35g min. per contact **Durability:** 100 cycles
Physical: Housing: Glass-filled LCP, UL 94V-O **Contact:** Phosphor bronze **Plating:** 0.76µm (30µ") Gold min. **Temperature:** -15°C to +85°C
Feature: Mated height on these parts are only 10 millimeters.

Fig.	Circuits	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Molex Part No.
1	64	WM17201-ND	7.34	6.48	4.32	71439-0164
2	64	WM17200-ND	8.01	7.07	4.72	71436-2164

Waldom MicroCross™ DVI (Digital Visual Interface) Connector System


360° Fully shielded RFI/EMI can
Cable crimp ferrule for optional cable diameters
Grounding indents
Plug key ensures polarization and prevents zippering
LFH .075 (1.91) signal contact
Positive retention jackscrews

The MicroCross DVI I/O Connectors from Molex are leading the way in support of the DDWG (Digital Display Working Group) DVI interface standard. MicroCross DVI has been chosen by the DDWG as the standard digital interface for connecting a host device and display device to support high-resolution video applications. Supporting one or two digital channels driven by TMDS (Transition Minimized Differential Signaling) and/or a high bandwidth analog interface, the MicroCross was chosen by the DDWG for its size, performance and cost. No other interface in the industry compares. The innovative crossing ground blade design and LFH™ (Low Force Helix) contact interface design provides the industry with a video interface design that will support over 1.65Gb/s per differential pair (for a total 9.9Gb/s over a dual link implementation) and 2.5GHz support for the analog interface. This provides the industry the performance head room it needs for future growth and development of video products.This innovative approach addresses the problem of an industry in transition. By providing a single high performance interface, precious board I/O space is saved and lower system costs are achieved. The interface provides added benefits of a high cycle life interface for mobile applications and the improved EMI performance needed for high speed links. The EMI performance is achieved through the 360° shielding of the MicroCross DVI cable and connector design. The MicroCross DVI connector system and the DVI standard are moving the graphics industry to the next level by providing unmatched electrical and mechanical performance while allowing for low cost implementation.

Fig. 1

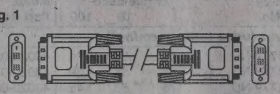


Fig. 2

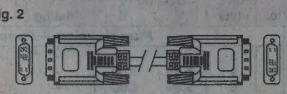


Fig. 3

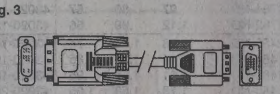


Fig. 4

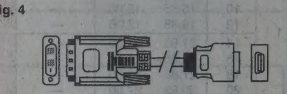


Fig. 5

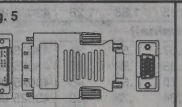


Fig. 6

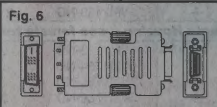


Fig. 7

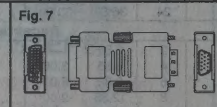


Fig. 8

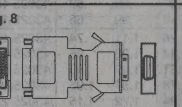


Fig. 9

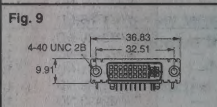


Fig. 10

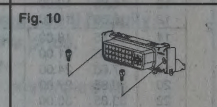


Fig.	Description	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 50	Molex Part No.
1	DVI-Digital to DVI-Digital, Single Link	WM18509-ND	37.44	34.32	31.20	88741-8000
2	DVI-Analog to DVI-Analog	WM18510-ND	37.26	34.16	31.06	88741-8200
3	DVI-Analog to VGA	WM18511-ND	30.50	27.96	25.42	88741-8300
4	DVI-Digital to DFP	WM18512-ND	40.52	37.15	33.77	88741-8600
5	DVI-Analog Plug to VGA Receptacle	WM18513-ND	10.62	9.74	8.85	88741-8700
6	DVI-Digital Plug to DFP Receptacle	WM18514-ND	17.10	15.68	14.26	88741-8800
7	DVI-I Analog/Digital Receptacle to VGA Plug	WM18515-ND	19.69	18.05	16.41	88741-9100
8	DVI-Digital Receptacle to DFP Plug	WM18516-ND	22.95	21.04	19.13	88741-9300
9	DVI-I R/Angle Receptacle, Gold Flash	WM5600-ND	5.21	4.78	4.35	74320-1004
10	DVI-D R/Angle Receptacle, Gold Flash	WM5601-ND	4.91	4.50	4.10	74320-4004

Waldom NEW! Serial ATA Connectors

Fig. 1

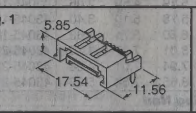


Fig. 2

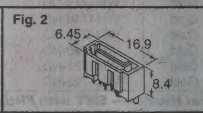


Fig. 3

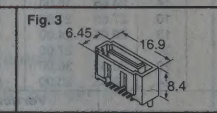


Fig. 4

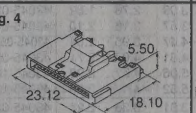


Fig. 5

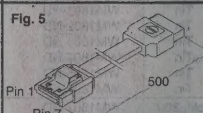


Fig. 6

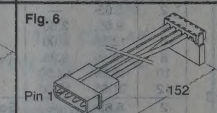


Fig.	No. of Pos.	Description	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	Molex Part No.
1	7	Header Right Angle SMT	WM19021CT-ND*	1.60	14.15	94.31	47080-1005
			WM19021TR-ND†		316.80/480		47080-1005
2	7	Header Vertical Through Hole	WM19022-ND	1.51	13.35	88.99	67800-4005
3	7	Header Vertical SMT	WM19023-ND	2.12	18.69	124.58	67800-1005
4	15	Plug Latching IDT	WM19024-ND	1.42	12.55	83.64	67926-0001
—	5	IDT Feed Through Cover	WM19025-ND	.25	2.24	14.95	67926-0041
		IDT Feed To Cover	WM19026-ND	.25	2.24	14.95	67926-0040
5	7	Cable Assembly	WM19027-ND	3.40	29.98	199.86	68561-0014
6	15	Cable Assembly	WM19028-ND	1.63	14.43	96.17	68561-0019

* Cut Tape † Tape and Reel

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Mini-Fit Jr.™ Connectors

Positive Locking Hi-Density Power Connector

Current Carrying Capabilities: The Mini-Fit, Jr. can handle standard equipment I/O currents despite its small size. For example, the 2 circuit PCB connector can handle up to 9 amps at 250 volts.

Features: • UL recognized, CSA certified, and TUV licensed • Up to 9 amperes/circuit • 250 volt rating **Specifications:** • **Material:** Terminal: Brass; Plating: Tin; Housing: UL 94V-2 nylon 6/6 • **Voltage Current:** 250V (Vertical Header with Pegs: 600V) • **Contact Resistance:** 10mΩ max. • **Insulation Resistance:** 1,000MΩ min. • **Dielectric Strength:** 1,500V AC

Fig. 1 – Dual Row Receptacle (Female Contacts Sold Separately)

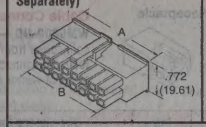


Fig. 2 – Dual Row Plug (Male Contacts Sold Separately)

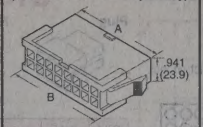


Fig. 3 – Single Row Receptacle (Female Contacts Sold Separately)

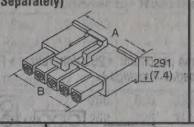


Fig. 4 – Single Row Plug (Male Contacts Sold Separately)

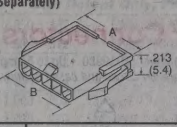


Fig. 5 – Vertical Header Assembly

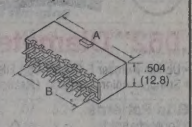


Fig. 6 – Right Angle Dual Row

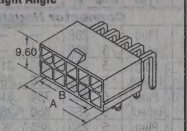


Fig. 7 – Right Angle Header

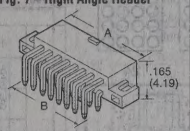


Fig. 8 – Vertical Header with Pegs

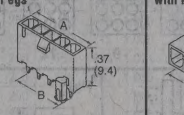


Fig. 9 – Right Angle Header with Pegs

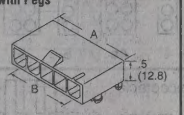


Fig. 10 – Strain Relief use with Fig. 1

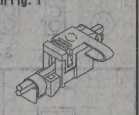


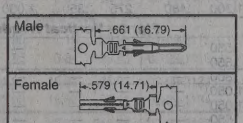
Fig.	Circuits	Amps	Dim. – Inch (mm) A	Dim. – Inch (mm) B	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Molex Part No.
1	2	9	.213 (5.40)	—	WM3700-ND	.46	.41	.28	39-01-2020
	4	8	.378 (9.60)	.165 (4.20)	WM3701-ND	.51	.46	.31	39-01-2040
	6	8	.543 (13.80)	.331 (8.40)	WM3702-ND	.61	.55	.37	39-01-2060
	8	7	.709 (18.00)	.496 (12.60)	WM3703-ND	.68	.60	.40	39-01-2080
	10	7	.874 (22.20)	.661 (16.80)	WM3704-ND	.79	.70	.47	39-01-2100
	12	6	1.039 (26.40)	.827 (21.00)	WM3705-ND	.88	.78	.52	39-01-2120
	14	6	1.205 (30.60)	.992 (25.20)	WM3706-ND	1.05	.93	.62	39-01-2140
	16	6	1.370 (34.80)	1.158 (29.40)	WM3707-ND	1.06	.94	.63	39-01-2160
	18	6	1.535 (39.00)	1.323 (33.60)	WM3708-ND	1.22	1.08	.72	39-01-2180
	20	6	1.701 (43.20)	1.488 (37.80)	WM3709-ND	1.32	1.10	.78	39-01-2200
	22	6	1.866 (47.40)	1.654 (42.00)	WM3710-ND	2.18	1.93	1.29	39-01-2220
	24	6	2.031 (51.60)	1.819 (46.20)	WM3711-ND	1.45	1.29	.86	39-01-2240
2	2	9	.213 (5.40)	—	WM3600-ND	.55	.49	.33	39-01-2021
	4	8	.378 (9.60)	.165 (4.20)	WM3601-ND	.60	.53	.36	39-01-2041
	6	8	.543 (13.80)	.331 (8.40)	WM3602-ND	.64	.56	.38	39-01-2061
	8	7	.709 (18.00)	.496 (12.60)	WM3603-ND	.68	.60	.40	39-01-2081
	10	7	.874 (22.20)	.661 (16.80)	WM3604-ND	.79	.70	.47	39-01-2101
	12	6	1.039 (26.40)	.827 (21.00)	WM3605-ND	.81	.72	.48	39-01-2121
	14	6	1.205 (30.60)	.992 (25.20)	WM3606-ND	1.08	.96	.64	39-01-2141
	16	6	1.370 (34.80)	1.158 (29.40)	WM3607-ND	1.40	1.24	.83	39-01-2161
3	3	9	.543 (13.80)	.331 (8.40)	WM18434-ND*§	.54	.48	.32	39-01-4030
	4	8	.709 (18.01)	.496 (12.60)	WM18435-ND§	.63	.56	.37	39-01-4040
	5	8	.874 (22.20)	.661 (16.80)	WM18436-ND§	.67	.60	.40	39-01-4050
4	3	9	.543 (13.80)	.331 (8.40)	WM18437-ND*†	.59	.52	.35	39-01-4032
	3	9	.543 (13.80)	.331 (8.40)	WM18439-ND*§	.58	.52	.35	39-01-4036
	4	8	.709 (18.01)	.496 (12.60)	WM18440-ND§	.62	.55	.37	39-01-4046
	5	8	.874 (22.20)	.661 (16.80)	WM18438-ND†	.65	.58	.39	39-01-4052
	5	8	.874 (22.20)	.661 (16.80)	WM18441-ND§	.65	.58	.39	39-01-4056
					Tin Plated				
5	2	9	.210 (5.40)	—	WM3800-ND	.93	.82	.55	39-28-1023
	4	8	.380 (9.60)	.170 (4.20)	WM3801-ND	1.17	1.04	.70	39-28-1043
	6	8	.540 (13.80)	.330 (8.40)	WM3802-ND	1.53	1.35	.91	39-28-1063
	8	7	.710 (18.00)	.500 (12.60)	WM3803-ND	1.74	1.54	1.03	39-28-1083
	10	7	.870 (22.20)	.660 (16.80)	WM3804-ND	2.24	1.98	1.32	39-28-1103
	12	6	1.040 (26.40)	.825 (20.96)	WM3805-ND	2.17	1.92	1.28	39-28-1123
	14	6	1.200 (31.60)	.990 (25.20)	WM3806-ND	2.88	2.55	1.70	39-28-1143
	16	6	1.370 (34.80)	1.160 (29.40)	WM3807-ND	3.19	2.82	1.88	39-28-1163
	18	6	1.540 (39.00)	1.320 (33.60)	WM3808-ND	4.02	3.55	2.37	39-28-1183
	20	6	1.700 (43.20)	1.490 (37.80)	WM3809-ND	4.40	3.89	2.59	39-28-1203
	22	6	1.870 (47.40)	1.650 (42.00)	WM3810-ND	4.78	4.23	2.82	39-28-1223
	24	6	2.030 (51.60)	1.820 (46.20)	WM3811-ND	4.73	4.18	2.79	39-28-1243
					30 Gold Plated				
5	2	9	.210 (5.40)	—	WM3820-ND	2.11	1.87	1.25	39-29-0023
	4	8	.380 (9.60)	.170 (4.20)	WM3821-ND	3.29	2.90	1.94	39-29-0043
	6	8	.540 (13.80)	.330 (8.40)	WM3822-ND	4.49	3.96	2.64	39-29-0063
	8	7	.710 (18.00)	.500 (12.60)	WM3823-ND	5.66	5.00	3.33	39-29-0083
	10	7	.870 (22.20)	.660 (16.80)	WM3824-ND	6.77	5.97	3.98	39-29-0103
	12	6	1.040 (26.40)	.830 (21.00)	WM3825-ND	7.89	6.96	4.64	39-29-0123
	14	6	1.200 (30.60)	.990 (25.20)	WM3826-ND	9.20	8.12	5.41	39-29-0143
	16	6	1.370 (34.80)	1.160 (29.40)	WM3827-ND	10.38	9.16	6.11	39-29-0163
	18	6	1.540 (39.00)	1.320 (33.60)	WM3828-ND	11.61	10.25	6.83	39-29-0183
	20	6	1.700 (43.20)	1.490 (37.80)	WM3829-ND	12.84	11.33	7.56	39-29-0203
	22	6	1.870 (47.40)	1.650 (42.00)	WM3830-ND	14.07	12.42	8.28	39-29-0223
	24	6	2.030 (51.60)	1.820 (46.20)	WM3831-ND	15.30	13.50	9.00	39-29-0243
					Tin Plated				
6	2	9	.213 (5.40)	—	WM1351-ND	.91	.81	.54	39-30-1020
	4	8	.378 (9.60)	.165 (4.20)	WM1352-ND	1.33	1.18	.79	39-30-1040
	6	8	.543 (13.80)	.331 (8.40)	WM1353-ND	1.63	1.44	.96	39-30-1060
	8	7	.709 (18.00)	.496 (12.60)	WM1354-ND	1.96	1.74	1.16	39-30-1080
	10	7	.874 (22.20)	.661 (16.80)	WM1355-ND	2.33	2.06	1.38	39-30-1100
	12	6	1.039 (26.40)	.827 (21.00)	WM1356-ND	2.91	2.57	1.72	39-30-1120
	14	6	1.205 (30.60)	.992 (25.20)	WM1357-ND	3.20	2.83	1.89	39-30-1140
	16	6	1.370 (34.80)	1.158 (29.40)	WM1358-ND	3.71	3.27	2.18	39-30-1160
	18	6	1.535 (39.00)	1.323 (33.60)	WM1359-ND	3.99	3.53	2.35	39-30-1180
	20	6	1.701 (43.20)	1.488 (37.80)	WM1360-ND	4.59	4.05	2.70	39-30-1200
	22	6	1.866 (47.40)	1.654 (42.00)	WM1361-ND	5.16	4.56	3.04	39-30-1220
	24	6	2.031 (51.60)	1.819 (46.20)	WM1362-ND	5.76	5.09	3.39	39-30-1240
					30 Gold Plated				
6	2	9	.213 (5.40)	—	WM1363-ND	1.97	1.74	1.16	39-30-1021
	4	8	.378 (9.60)	.165 (4.20)	WM1364-ND	2.51	2.22	1.48	39-30-1041
	6	8	.543 (13.80)	.331 (8.400	WM1365-ND	3.10	2.74	1.83	39-30-1061
	8	7	.709 (18.00)	.496 (12.60)	WM1366-ND	3.75	3.31	2.21	39-30-1081
	10	7	.874 (22.20)	.661 (16.80)	WM1367-ND	4.46	3.94	2.63	39-30-1101
	12	6	1.039 (26.40)	.827 (21.00)	WM1368-ND	5.23	4.62	3.08	39-30-1121
	14	6	1.205 (30.60)	.992 (25.20)	WM1369-ND	6.15	5.43	3.62	39-30-1141
	16	6	1.370 (34.80)	1.158 (29.40)	WM1370-ND	7.10	6.27	4.18	39-30-1161
	18	6	1.535 (39.00)	1.323 (33.60)	WM1371-ND	8.21	7.25	4.84	39-30-1181
	20	6	1.701 (43.20)	1.488 (37.800	WM1372-ND	9.44	8.33	5.56	39-30-1201
	22	6	1.866 (47.40)	1.654 (42.00)	WM1373-ND	10.64	9.40	6.27	39-30-1221
	24	6	2.031 (51.60)	1.819 (46.20)	WM1374-ND	11.90	10.51	7.01	39-30-1241
					Tin Plated				
7	2	9	.606 (15.40)	—	WM3900-ND	1.05	.93	.63	39-29-1028
	4	8	.772 (19.60)	.165 (4.20)	WM3901-ND	1.34	1.19	.79	39-29-1048
	6	8	.937 (23.80)	.331 (23.80)	WM3902-ND	1.64	1.45	.97	39-29-1068
	8	7	1.102 (28.00)	12.60 (.496)	WM3903-ND	1.98	1.75	1.17	39-29-1088
	10	7	1.268 (32.20)	.661 (16.80)	WM3904-ND	2.35	2.08	1.39	39-29-1108
	12	6	1.433 (36.40)	.827 (21.00	WM3905-ND	2.76	2.44	1.63	39-29-1128
	14	6	1.598 (40.60)	.992 (25.20)	WM3906-ND	3.24	2.86	1.91	39-29-1148
	16	6	1.764 (44.80)	1.158 (29.40)	WM3907-ND	3.74	3.30	2.20	39-29-1168
	18	6	1.929 (49.00)	1.323 (33.60)	WM3908-ND	4.33	3.83	2.55	39-29-1188
	20	6	2.094 (53.20)	1.488 (37.80)	WM3909-ND	4.96	4.38	2.92	39-29-1208
	22	6	2.260 (57.40)	1.654 (42.00)	WM3910-ND	5.65	4.99	3.33	39-29-1228
	24	6	2.425 (61.60)	1.819 (46.20)	WM3911-ND	6.24	5.51	3.68	39-29-1248
					Gold Plated				
7	2	9	.606 (15.40)	—	WM3920-ND	2.15	1.90	1.27	39-29-5023
	4	8	.772 (19.60)	.165 (4.20)	WM3921-ND	2.62	2.31	1.54	39-29-5043
	6	8	.937 (23.80)	.331 (8.40)	WM3922-ND	3.62	3.20	2.13	39-29-5063
	8	7	1.102 (28.00)	.496 (12.60)	WM3923-ND	4.29	3.79	2.53	39-29-5083
	10	7	1.268 (32.20)	.661 (16.80)	WM3924-ND	5.05	4.46	2.97	39-29-5103
	12	6	1.433 (36.40)	.827 (21.00)	WM3925-ND	5.86	5.17	3.45	39-29-5123
	14	6	1.598 (40.60)	.992 (25.20)	WM3926-ND	6.81	6.01	4.01	39-29-5143
	16	6	1.764 (44.80)	1.158 (29.40)	WM3927-ND	7.81	6.90	4.60	39-29-5163
	18	6	1.929 (49.00)	1.323 (33.60)	WM3928-ND	8.97	7.92	5.28	39-29-5183
	20	6	2.094 (53.20)	1.488 (37.80)	WM3929-ND	10.24	9.04	6.03	39-29-5203
	22	6	2.260 (57.40)	1.654 (42.00)	WM3930-ND	11.50	10.15	6.77	39-29-5223
	24	6	2.425 (61.60)	1.819 (46.20)	WM3931-ND	12.81	11.31	7.54	39-29-5243
					Tin Plated				
8	3	9	.543 (13.80)	.331 (8.40)	WM18442-ND	1.17	1.04	.70	39-30-1039
	3	9	.543 (13.80)	.331 (8.40)	WM18443-ND	1.17	1.04	.70	39-30-2035
	4	8	.709 (18.01)	.496 (12.60)	WM18444-ND	1.86	1.64	1.10	39-30-2045
	5	8	.874 (22.20)	.661 (16.80)	WM18445-ND	2.05	1.81	1.21	39-30-2056
9	3	9	.543 (13.80)	.331 (8.40)	WM18446-ND	1.40	1.24	.83	39-30-3035
	4	8	.709 (18.01)	.496 (12.60)	WM18447-ND	1.64	1.45	.97	39-30-3045
	5	8	.874 (22.20)	.661 (16.80)	WM18448-ND	1.89	1.67	1.11	39-30-3055
					Strain Relief (use with Fig. 1)				
10	6	—	—	—	WM13702-ND	2.78	—	—	15-04-0296
	8	—	—	—	WM13703-ND	2.36	—	—	15-04-0343
	12	—	—	—	WM13705-ND	3.00	—	—	15-04-0345

* 3-circuit receptacle designed for first-mate/last-break applications † Panel Mount § Free-Hanging

Mini-Fit Jr.™ Terminals

Contact Material/Plating

A: Tin-plated copper alloy over nickel
B: Gold-plated phosphor bronze over nickel
C: Gold-plated brass over nickel
D: Tin-plated brass over copper
E: Tin-plated phosphor bronze.



Description	Wire Size	Material/ Plating	Insulation Dia. Inch (mm)	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Molex Part No.
Male	16	A	.071 - .122 (1.80 - 3.10)	WM1911-ND	.37	.31	.22	44478-3112
Female				WM1913-ND	.37	.31	.22	44476-3112
Male	16	B	.071 - .122 (1.80 - 3.10)	WM18520-ND	1.00	.83	.59	39-00-0224
Female				WM18517-ND	1.00	.83	.59	39-00-0186
Male	16	C	.071 - .122 (1.80 - 3.10)	WM5963-ND	.74	.62	.44	39-00-0096
Female				WM5961-ND	.68	.57	.41	39-00-0168
Male	18-24	D	.051 - .122 (1.30 - 3.10)	WM2500-ND	—	.08	.06	39-00-0041
				WM2500CT-ND◊	—	—	.06	39-00-0040
				WM2500TR-ND	124.00/4,000			39-00-0040
Female	18-24	D	.051 - .122 (1.30 - 3.10)	WM2501-ND	—	.10	.07	39-00-0039
				WM2501CT-ND◊	—	—	.07	39-00-0038
				WM2501TR-ND	160.00/4,000			39-00-0038
Male	18-24	B	.051 - .122 (1.30 - 3.10)	WM18521-ND	1.00	.83	.59	39-00-0220
Female	18-24	B	.051 - .122 (1.30 - 3.10)	WM18518-ND	.87	.72	.52	39-00-0182
				WM18518CT-ND◊	—	—	.52	39-00-0181
				WM18518TR-ND◊	1372.00/4,000			39-00-0181
Male	18-20	A	.051 - .122 (1.30 - 3.10)	WM1912-ND	.37	.31	.22	44478-1112
Female				WM1914-ND	.37	.31	.22	44476-1112
Female	18-24	B	.060 - .120 (1.52 - 3.05)	WM18523-ND	1.08	.89	.64	44485-1212
Male	18-24	D	.051 - .122 (1.30 - 3.10)	WM3940-ND*	.32	.26	.19	30490-2012
		C		WM6049-ND	.67	.56	.40	39-00-0054
Female	18-24	C	.051 - .122 (1.30 - 3.10)	WM5959-ND	.68	.56	.40	39-00-0164
Male		B		WM3941-ND*	1.04	.86	.61	30490-1012
Female	18-24	C	.051 - .122 (1.30 - 3.10)	WM1137CT-ND◊	—	.44	.36	39-00-0055
				WM1137TR-ND◊	776.00/4,000			
Female	18-24	E	.051 - .122 (1.30 - 3.10)	WM1138CT-ND◊	—	.12	.10	39-00-0059
				WM1138TR-ND◊	208.00/4,000			
Female	18-24	B	.051 - .122 (1.30 - 3.10)	WM1139CT-ND◊	—	.39	.31	39-00-0153
				WM1139TR-ND◊	684.00/4,000			
Male	22-28	D	.035 - .071 (.90 - 1.80)	WM2502-ND	—	.08	.06	39-00-0049
Female				WM2503-ND	—	.08	.06	39-00-0047
Male	22-28	B	.035 - .071 (.90 - 1.80)	WM18522-ND	.96	.80	.57	39-00-0222
Female				WM18519-ND	.87	.72	.52	39-00-0184
Male	22-28	C	.035 - .071 (.90 - 1.80)	WM5962-ND	.74	.62	.44	39-00-0088
Female				WM5960-ND	.68	.56	.40	39-00-0166
Universal Crimp Tool (Molex)				WM9999-ND	50.75	—	—	63811-1000
Mini-Fit Jr. Crimp Tool, 16 AWG				WM9964-ND	214.65	—	—	11-01-0199
Mini-Fit Jr. Crimp Tool, 18-24 AWG				WM9912-ND	214.65	—	—	11-01-0197
Mini-Fit Jr. Crimp Tool, 22-28 AWG				WM9913-ND	214.65	—	—	11-01-0198
Extraction Tool				WM9918-ND	20.23	—	—	11-03-0044

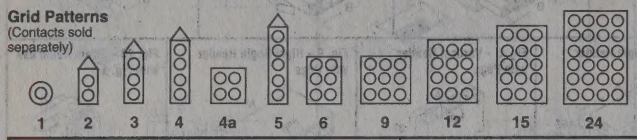
* Grounding pin ◊CT = Cut Tape; TR = Tape and Reel

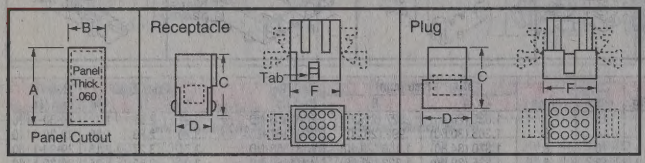
molex Waldom ELECTRONICS Power Connectors

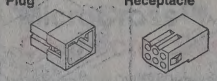
.062" Diameter Connectors

• UL File Number E-29179; CSA File Number LR-19980 • Up to 5 amperes per circuit • 250 Volt. rating • Friction lock
• Standard color is natural *(Ratings are per circuit and based on fully loaded housings.)*

Grid Patterns
(Contacts sold separately)







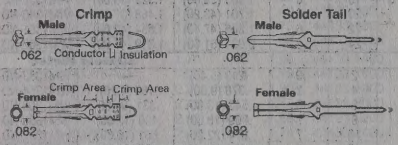
Cable Connector Designer Kit
WM9800-ND — Contains all parts needed to assemble male and female connectors from single-circuit to 36-circuit designs (250V and up to 5A/circuit); totals 56 connectors. All have pin terminal size .062" dia. with crimping tool, pin terminal ejector and case **$40.17**

Grid Space	Grid No.	Type	Max. Amp	Max. V.	A	B	C	D	F	Digi-Key Part No.	Pricing 1	10	100	Molex Part No.
Connector Housings — with Detent Only, Free Hanging														
.145"	1	Plug	5	250	—	—	.750	—	—	WM1201-ND	.29	2.36	16.88	03-06-2011
		Recept.	5	250	—	—	.780	—	.183	WM1200-ND	.30	2.51	17.94	03-06-1011
	2	Plug	5	250	.609	.318	.780	.300	.440	WM1220-ND	.31	2.55	18.23	03-06-2023
		Recept.	5	250	.505	.265	.810	.192	.340	WM1230-ND	.39	3.24	23.11	03-06-1023
	3	Plug	5	250	.754	.318	.750	.300	.590	WM1221-ND	.46	3.77	26.93	03-06-2032
		Recept.	5	250	.650	.265	.780	.192	.484	WM1231-ND	.48	3.92	27.99	03-06-1032
	4	Plug	5	250	.865	.312	.750	.295	.730	WM1222-ND	.60	4.94	35.27	03-06-2042
		Recept.	5	250	.785	.260	.780	.192	.630	WM1232-ND	.60	4.94	35.27	03-06-1042
	4a	Plug	5	250	.615	.465	.750	.442	.442	WM1223-ND	.60	4.94	35.27	03-06-2044
		Recept.	5	250	.506	.400	.750	.339	.339	WM1233-ND	.60	4.94	35.27	03-06-1044
	5	Plug	5	250	1.044	.318	.750	.310	.890	WM1224-ND	.60	4.97	35.51	03-06-2055
		Recept.	5	250	.940	.265	.780	.192	.775	WM1234-ND	.74	6.06	43.28	03-06-1056
	6	Plug	5	250	.615	.607	.750	.600	.450	WM1225-ND	.75	6.17	44.10	03-06-2061
		Recept.	5	250	.552	.505	.780	.494	.344	WM1235-ND	.75	6.17	44.10	03-06-1062
	9	Plug	5	250	.752	.615	.750	.590	.590	WM1226-ND	.76	6.30	44.97	03-06-2092
		Recept.	5	250	.650	.552	.780	.494	.489	WM1236-ND	.76	6.30	44.97	03-06-1092
	12	Plug	5	250	.903	.614	.750	.590	.740	WM1227-ND	.78	6.41	45.77	03-06-2122
		Recept.	5	250	.795	.563	.780	.494	.634	WM1237-ND	.78	6.41	45.77	03-06-1122
	15	Plug	5	250	1.042	.614	.750	.590	.880	WM1228-ND	.92	7.58	54.11	03-06-2152
		Recept.	5	250	.934	.563	.780	.487	.776	WM1238-ND	.92	7.58	54.11	03-06-1152
	24	Plug	5	250	1.182	.765	.750	.740	1.040	WM1229-ND	2.17	17.88	127.70	03-06-2242
Connector Housings – with Mounting Ears & Detent, Panel Mount														
.145"	2	Plug	5	250	.609	.318	.780	.300	.440	WM1203-ND	.39	3.18	22.74	03-06-2024
		Recept.	5	250	.505	.265	.810	.192	.340	WM1202-ND	.39	3.18	22.74	03-06-1022
	3	Plug	5	250	.754	.318	.750	.300	.590	WM1205-ND	.46	3.77	26.93	03-06-2033
		Recept.	5	250	.650	.265	.780	.192	.484	WM1204-ND	.48	3.92	27.99	03-06-1038
	4	Plug	5	250	.865	.312	.750	.295	.730	WM1207-ND	.60	4.94	35.27	03-06-2041
		Recept.	5	250	.785	.260	.780	.192	.630	WM1206-ND	.62	5.09	36.33	03-06-1041
	4a	Plug	5	250	.615	.465	.750	.442	.442	WM1209-ND	.60	4.94	35.27	03-06-2043
		Recept.	5	250	.506	.400	.750	.339	.339	WM1208-ND	.60	4.94	35.27	03-06-1043
	5	Plug	5	250	1.044	.318	.750	.310	.890	WM1240-ND	.74	6.06	43.28	03-06-2054
		Recept.	5	250	.940	.265	.780	.192	.775	WM1241-ND	.74	6.06	43.28	03-06-1055
	6	Plug	5	250	.615	.607	.750	.600	.450	WM1211-ND	.75	6.17	44.10	03-06-2062
		Recept.	5	250	.552	.505	.780	.494	.344	WM1210-ND	.75	6.17	44.10	03-06-1061
	9	Plug	5	250	.752	.615	.750	.590	.590	WM1213-ND	.76	6.30	44.97	03-06-2091
		Recept.	5	250	.650	.552	.780	.494	.489	WM1212-ND	.76	6.30	44.97	03-06-1091
	12	Plug	5	250	.903	.614	.750	.590	.740	WM1215-ND	.78	6.41	45.77	03-06-2121
		Recept.	5	250	.795	.563	.780	.494	.634	WM1214-ND	.78	6.41	45.77	03-06-1121
	15	Plug	5	250	1.042	.614	.750	.590	.880	WM1217-ND	.92	7.58	54.11	03-06-2151
	24	Plug	5	250	1.182	.765	.750	.740	1.040	WM1219-ND	2.17	17.88	127.70	03-06-2241
		Recept.	5	250	1.079	.715	.750	.634	.918	WM1218-ND	2.10	17.29	123.52	03-06-1241

*15µ Select Gold Finish

.062" Terminals

• Use with .062" housings • .008" stock 70/30 brass **Temp. Range:** -40°C ~ 105°C **High Volt. Test:** Withstands 1500V RMS for 60 seconds **Current Rating:** Amperage rating 5A **Storage Temp. Range:** -40°C ~ 125°C **Plating:** 200-300µ Hot-Tin Dip tin plating



Description	Wire Size	Insulation Dia. (Inch)	Digi-Key Part No.	Pricing 10	100	500	Molex Part No.
Male, Crimp Type	18-24	.060/.120	WM1000-ND	.99	7.92	32.99	02-06-2103
Female, Crimp Type	18-24	.060/.120	WM1001-ND	.85	6.80	28.35	02-06-1103
Male, Crimp Type	24-30	.040/.090	WM1002-ND	.81	6.46	26.90	02-06-2132
Female, Crimp Type	24-30	.040/.090	WM1003-ND	.81	6.46	26.90	02-06-1132
Male, PCB Solder-Tail	—	—	WM1004-ND	1.61	12.88	53.66	02-06-8103
Female, PCB Solder-Tail	—	—	WM1005-ND	1.61	12.88	53.66	02-06-7103
Male, Crimp Type	18-24	.060/.120	WM1006-ND*	5.94	47.54	198.09	02-06-6103
Male, Crimp Type	24-30	.040/.090	WM1007-ND*	5.94	47.54	198.09	02-06-6135
Female, Crimp Type	18-24	.060/.120	WM1008-ND*	5.94	47.54	198.09	02-06-5103
Female, Crimp Type	24-30	.040/.090	WM1009-ND*	5.94	47.54	198.09	02-06-5135
Male, PCB	—	—	WM1010-ND*	7.33	58.61	244.20	02-06-6122
Female, PCB	—	—	WM1011-ND*	7.33	58.61	244.20	02-06-7104
Hand Tool (Waldom)	—	—	WM9900-ND		14.55/1		W-HT-1921
Universal Crimp Tool (Molex)	—	—	WM9999-ND		50.75/1		63811-1000
Production Tool (Molex)	24-30	—	WM9915-ND		214.65/1		11-01-0185
Production Tool (Molex)	18-24	—	WM18585-ND		243.27/1		63811-3300
Extraction Tool (Molex)	—	—	WM9929-ND		19.08/1		11-03-0002

.084" Power Connectors

Features: • Intermateable, intermountable and interchangeable with industry standard versions • Cross tested to assure industry compatibility • UL recognized, CSA certified • Up to 13.5 amperes per circuit (30°C rise)* • 600 Volt rating* • Positive locks • Fully isolated contacts • Circuit I.D. grooves to reduce assembly errors • Anti-stress positioning tabs to reduce breakage

Grid Pattern

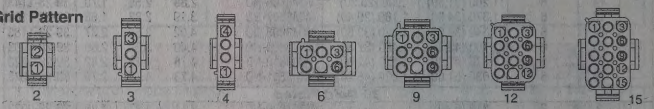


Fig. 1 - Plug

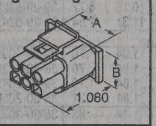


Fig. 2 - Cap

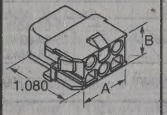
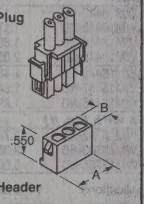
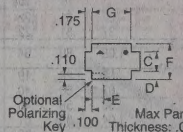


Fig. 3 - Vertical Header

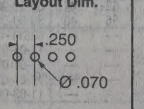


Cap Panel Cutout

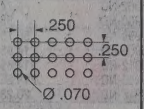


▲ - Circuit #1 location when using polarizing key option with 2, 3 and 4 circuit housing.
● - Circuit #1 location when using polarizing key option with 6, 9, 12 and 15 circuit housing.

2, 3 and 4 Position Vertical Header P.C. Board Layout Dim.



6, 9, 12 and 15 Position Header Assemblies

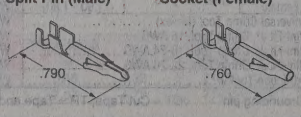


Pos.	Description	Amperes/ Circuit (Max.)*	Voltage Rating (Max.)*	A	B	C††	D	E	F	G	Digi-Key Part No.	Pricing 1	10	100	500	Molex Part No.
Fig. 1 – Plug																
2	Plug	13.5	600	.300	.550	—	—	—	—	—	WM1242-ND	.59	5.24	34.90	139.60	50-84-1020
3	Plug	13.5	600	.300	.800	—	—	—	—	—	WM1244-ND	.61	5.36	35.72	142.89	50-84-1030
4	Plug	13.5	600	.300	1.050	—	—	—	—	—	WM1246-ND	.64	5.67	37.79	151.16	50-84-1040
6	Plug	11.0	600	.800	.550	—	—	—	—	—	WM1248-ND	.75	6.61	44.10	176.38	50-84-1060
9	Plug	11.0	600	.800	.800	—	—	—	—	—	WM1250-ND	.88	7.74	51.60	206.38	50-84-1090
12	Plug	—	600	.800	1.050	—	—	—	—	—	WM1252-ND	1.45	12.82	85.44	341.74	50-84-1120
15	Plug	—	600	.800	1.300	—	—	—	—	—	WM1254-ND	1.52	13.38	89.20	356.80	50-84-1150
Fig. 2 – Cap																
2	Cap	13.5	600	.300	.550	.340	.095	.250	.530	.565	WM1243-ND	.67	5.92	39.46	157.83	50-84-2020
3	Cap	13.5	600	.300	.800	.340	.095	.250	.530	.815	WM1245-ND	.66	5.80	38.64	154.55	50-84-2030
4	Cap	13.5	600	.300	1.050	.340	.095	.250	.530	1.065	WM1247-ND	1.09	9.59	63.92	255.67	50-84-2040
6	Cap	11.0	600	.800	.550	.340	.275	.250	1.030	.565	WM1249-ND	1.09	9.62	64.16	256.63	50-84-2060
9	Cap	11.0	600	.800	.800	.480	.275	.250	1.030	.815	WM1251-ND	.98	8.61	57.43	229.70	50-84-2090
12	Cap	—	600	.800	1.050	.480	.275	.350	1.030	1.065	WM1253-ND	1.67	14.69	97.95	391.78	50-84-2120
15	Cap	—	600	.800	1.300	.480	.275	.350	1.030	1.315	WM1255-ND	1.77	15.64	104.25	417.00	50-84-2150
Fig. 3 – Vertical Header																
2	Male	—	—	.300	.550	—	—	—	—	—	WM1256-ND	1.03	9.12	60.79	243.16	10-84-4020
2	Female	—	—	.300	.550	—	—	—	—	—	WM1263-ND	.89	7.84	52.29	209.14	10-84-4022
3	Male	—	—	.300	.800	—	—	—	—	—	WM1257-ND	1.17	10.37	69.11	276.45	10-84-4030
4	Male	—	—	.300	1.050	—	—	—	—	—	WM1258-ND	1.39	12.25	81.67	326.69	10-84-4040
4	Female	—	—	.300	1.050	—	—	—	—	—	WM1265-ND	1.35	11.87	79.13	316.52	10-84-4042
6	Male	—	—	.800	.550	—	—	—	—	—	WM1259-ND	1.82	16.05	106.98	427.92	10-84-4060
6	Female	—	—	.800	.550	—	—	—	—	—	WM1266-ND	1.89	16.64	110.90	443.61	10-84-4062
9	Male	—	—	.800	.800	—	—	—	—	—	WM1260-ND	2.31	20.40	135.97	543.89	10-84-4090
9	Female	—	—	.800	.800	—	—	—	—	—	WM1267-ND	2.67	23.53	156.86	627.41	10-84-4092
12	Male	—	—	.800	1.050	—	—	—	—	—	WM1261-ND	2.74	24.16	161.07	644.27	10-84-4120
12	Female	—	—	.800	1.050	—	—	—	—	—	WM1268-ND	3.38	29.80	198.67	794.68	10-84-4122
15	Male	—	—	.800	1.300	—	—	—	—	—	WM1262-ND	3.39	29.90	199.36	797.44	10-84-4150
15	Female	—	—	.800	1.300	—	—	—	—	—	WM1269-ND	2.79	24.64	164.27	657.09	10-84-4152

* Ratings are per circuit, based on fully loaded housings
†† Cap housing should be installed into panel in the same direction as the panel cutout is punched.

.084" Terminals

Split Pin (Male) **Socket (Female)**



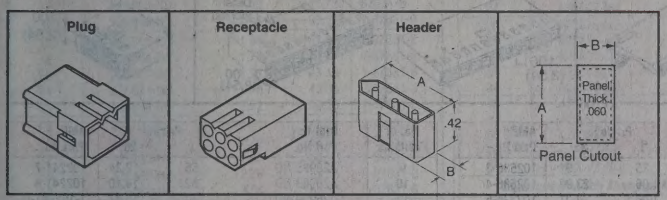
Description	Wire Size AWG Tin Plated	Insulation Dia. (Inch) Min.	Max.	Digi-Key Part No.	Pricing 10	100	500	1,000	Molex Part No.
Male Crimp	14-20	.060	.139	WM1270-ND	1.07	8.59	35.78	57.24	02-08-2004
Female Crimp	14-20	.060	.130	WM1271-ND	1.09	8.75	36.44	58.30	02-08-1002
Hand Tool	14-20	—	—	WM9925-ND			311.09/1		63811-3500
Extraction Tool	14-20	—	—	WM9921-ND			59.21/1		11-01-0168
Manual Wire Stripper (Molex)				WM9969-ND			95.16/1		63817-0000

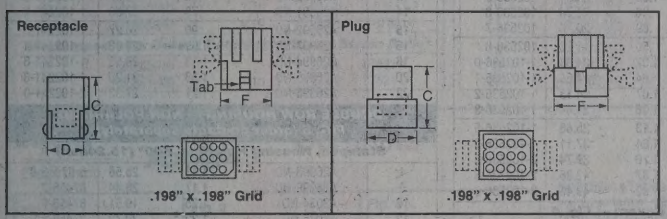
More Product Available Online: www.digikey.com
Toll-Free: 1-800-344-4539 • Phone: 218-681-6674 • Fax: 218-681-3380

Power Connectors

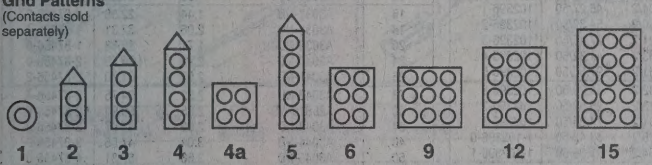
.093" Diameter Connectors

- UL File Number E-29179; CSA File Number LR-19980
- Up to 12 amperes per circuit, (ratings are per circuit and based on fully loaded housings)
- 250 Volt. rating for 03-09 series; 600 Volt. rating for 19-09 series
- Friction lock for 03-09 series; Positive lock for 19-09 series



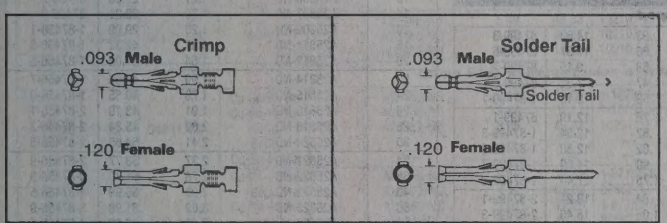


Grid Patterns
(Contacts sold separately)



.093" Terminals

• Use with .093" housing • **Temperature Range:** 40°C to 105°C • .010" stock 70/30 brass • **High Voltage Test:** Withstands 1500 volts RMS for 60 seconds min. applied between adjacent terminals • **Current Rating:** Amperage rating up to 12 amps on some sizes • **Storage Temperature Range:** -40°C to 125°C • **Plating:** 200-300µ Inch Hot-Tin Dip tin plating



Description	Wire Size	Insulation Dia. (Inch)	Digi-Key Part No.	Pricing 10	100	500	Molex Part No.
Male, Crimp Type	14-20	.065/.160	WM1100-ND	.87	6.93	28.89	02-09-2103
			WM1100CT-ND†	—	6.93	28.89	02-09-2101
			WM1100TR-ND‡	231.00/7,000			02-09-2101
Female, Crimp Type	14-20	.065/.160	WM1101-ND	.85	6.84	28.49	02-09-1104
			WM1101CT-ND†	—	6.84	28.49	02-09-1102
			WM1101TR-ND‡	224.90/7,000			02-09-1102
Male, Crimp Type	18-22	.060/.120	WM1102-ND	.90	7.19	29.95	02-09-2118
Female, Crimp Type	18-22	.060/.120	WM1103-ND	.85	6.84	28.49	02-09-1119
Male, Solder-Tail	—	—	WM1104-ND	1.98	15.84	65.99	02-09-2133
Female, Solder-Tail	—	—	WM1105-ND	1.98	15.87	66.11	02-09-1134
Male, Crimp Type	18-22	.060/.120	WM1106-ND*	10.37	82.94	345.56	02-09-6123
Female, Crimp Type	18-22	.060/.120	WM1107-ND*	10.37	82.94	345.56	02-09-5142
Male, Crimp Type	24-30	.030/.060	WM1108-ND*	11.72	93.75	390.61	02-09-6145
Female, Crimp Type	24-30	.030/.060	WM1109-ND*	11.72	93.75	390.61	02-09-5147
Male, Solder-Tail	—	—	WM1110-ND*	14.45	115.56	481.50	02-09-6132
Female, Solder-Tail	—	—	WM1111-ND*	15.47	123.80	515.83	02-09-5132
Hand Tool (Waldom)	—	—	WM9903-ND		14.55/1		W-HT-1919
Hand Tool (Molex) (14-22 AWG)	—	—	WM17465-ND		243.27/1		63811-3200
Universal Crimp Tool (Molex)	—	—	WM9999-ND		50.75/1		63811-1000
Production Tool (24-30 AWG) (Molex)	—	—	WM9967-ND		214.65/1		63811-3400
Extraction Tool (Molex)	—	—	WM9930-ND		19.08/1		11-03-0006
Manual Wire Stripper (Molex)	—	—	WM9969-ND		95.16/1		63817-0000

* 15µ Select Gold Finish † CT = Cut Tape ‡ TR = Tape and Reel

Grid Space	Grid No.	Type	Max. Amps	Max. Volts	Dimensions (Inch) A	B	C	D	F	Digi-Key Part No.	Pricing 1	10	100	Molex Part No.
Connector Housings — With Detent Only, Free Hanging														
.198"	1	Plug	12	5000	—	—	2.250	.437	—	WM1301-ND	.46	4.10	27.32	03-09-2014
		Recept.	12	5000	—	—	1.859	.312	—	WM1300-ND	.47	4.11	27.43	03-09-1014
	1	Plug	12	250	—	—	1.000	.358	—	WM1303-ND	.25	2.22	14.81	03-09-2011
		Recept.	12	250	—	—	1.000	.234	—	WM1302-ND	.25	2.22	14.81	03-09-1011
	2	Plug	12	250	.800	.375	1.000	.352	.639	WM1324-ND	.37	3.24	21.60	03-09-2022
		Recept.	12	250	.725	.312	1.030	.250	.536	WM1331-ND	.39	3.48	23.19	03-09-1022
	3	Plug	12	250	.933	.375	.970	.340	.770	WM1325-ND	.47	4.16	27.75	03-09-2032
		Recept.	12	250	.840	.312	1.015	.236	.670	WM1332-ND	.49	4.35	29.02	03-09-1032
	4	Plug	12	250	1.131	.375	1.000	.338	.971	WM1326-ND	.52	4.60	30.69	03-09-2042
		Recept.	12	250	1.038	.312	1.000	.236	.868	WM1333-ND	.53	4.66	31.09	03-09-1042
	4a	Plug	12	250	.555	.695	1.024	.538	.538	WM1327-ND	.77	6.77	45.16	03-09-2049
		Recept.	12	250	.500	.600	1.000	.434	.434	WM1334-ND	.74	6.55	43.65	03-09-1049
	5Δ	Plug	12	250	—	—	.969	.350	1.170	WM1315-ND	.83	7.37	49.11	03-09-2057
		Recept.	12	250	—	—	1.000	.240	1.070	WM1314-ND	.80	7.08	47.17	03-09-1057
	6	Plug	9	250	.750	.695	1.000	.733	.536	WM1328-ND	.69	6.11	40.76	03-09-2062
		Recept.	9	250	.718	.600	1.015	.632	.434	WM1335-ND	.69	6.11	40.76	03-09-1064
	9	Plug	9	250	.937	.660	.970	.730	.770	WM1329-ND	.82	7.24	48.28	03-09-2092
		Recept.	9	250	.828	.725	1.015	.625	.666	WM1336-ND	.88	7.76	51.65	03-09-1094
	12	Plug	7.5	250	1.155	.760	1.000	.737	.770	WM1330-ND	.97	8.57	57.11	03-09-2121
		Recept.	7.5	250	1.050	.655	1.015	.633	.871	WM1337-ND	.91	8.00	53.32	03-09-1126
Connector Housings — With Positive Lock, Free Hanging														
.248"	2	Plug	12	600	—	—	1.031	.359	.656	WM1401-ND	.63	5.55	36.97	03-09-2028
		Recept.	12	600	—	—	1.063	.265	.531	WM1400-ND	.60	5.29	35.27	03-09-1028
	4§	Plug	9	600	—	—	1.031	.359	1.156	WM1405-ND	.76	6.73	44.89	03-09-2048
		Recept.	9	600	—	—	1.063	.265	1.032	WM1404-ND	.74	6.55	43.65	03-09-1047
Connector Housings — With Mounting Ears & Detent, Panel Mount														
.198"	3	Plug	12	250	.933	.375	.970	.340	.770	WM1307-ND	.54	4.73	31.54	03-09-2031
		Recept.	12	250	.840	.312	1.015	.236	.670	WM1338-ND	.51	4.54	30.26	03-09-1081
	4	Plug	12	250	1.131	.375	.969	.338	.971	WM1309-ND	.55	4.85	32.36	03-09-2041
		Recept.	12	250	1.038	.312	1.000	.236	.868	WM1308-ND	.53	4.66	31.09	03-09-1041
	4a	Plug	12	250	.555	.695	.969	.538	.538	WM1311-ND	.76	6.73	44.89	03-09-2040
		Recept.	12	250	.500	.600	1.000	.434	.434	WM1310-ND	.74	6.55	43.65	03-09-1040
	6	Plug	9	250	.750	.695	.969	.733	.536	WM1317-ND	.72	6.36	42.43	03-09-2061
		Recept.	9	250	.718	.600	1.015	.632	.434	WM1316-ND	.72	6.36	42.43	03-09-1061
	9◊	Plug	9	250	.937	.660	.970	.730	.770	WM1319-ND	.84	7.43	49.53	03-09-2091
		Recept.	9	250	.828	.725	1.015	.625	.666	WM1318-ND	.84	7.43	49.53	03-09-1091
	12	Plug	7.5	250	1.155	.760	.969	.737	.975	WM1321-ND	.89	7.87	52.47	03-09-2122
		Recept.	7.5	250	1.050	.665	1.015	.633	.871	WM1320-ND	.91	8.00	53.32	03-09-1125
	15	Recept.	7.5	250	1.240	.655	1.015	.632	1.066	WM1322-ND	1.21	10.69	71.29	03-09-1154
.248"	2§	Plug	12	250	.800	.375	.968	.352	.639	WM1305-ND	.41	3.66	24.38	03-09-2021
		Recept.	12	250	.725	.312	1.000	.250	.536	WM1304-ND	.39	3.48	23.19	03-09-1027
.250"	3	Plug	11	600	1.022	.365	1.100	.350	.862	WM1501-ND	.83	7.37	49.11	19-09-2031
		Recept.	11	600	.920	.310	1.140	.250	.760	WM1776-ND	.76	6.24	44.60	19-09-1030
	4	Recept.	9	600	1.168	.311	1.140	.250	.760	WM1502-ND	.88	7.80	51.97	19-09-1043
	6	Plug	9	600	1.048	.658	1.100	.640	.886	WM1505-ND	.95	8.42	56.15	19-09-2061
		Recept.	9	600	.946	.608	1.140	.540	.790	WM1504-ND	.95	8.42	56.15	19-09-1061
	9	Plug	8	600	1.048	.910	1.100	.890	.890	WM1507-ND	1.28	11.28	75.21	19-09-2091
		Recept.	8	600	.948	.850	1.140	.790	.790	WM1506-ND	1.27	11.24	74.94	19-09-1091
	12	Plug	6	600	1.300	.910	1.100	.890	1.140	WM1509-ND	1.35	11.94	79.61	19-09-2122
		Recept.	6	600	1.094	.850	1.140	.790	1.034	WM1508-ND	1.91	16.87	112.49	19-09-1121
	15	Plug	6	600	1.552	.910	1.100	.890	1.388	WM1511-ND	2.43	21.46	143.07	19-09-2153
		Recept.	6	600	1.422	.850	1.140	.790	1.282	WM1510-ND	2.43	21.40	142.65	19-09-1151
Housing Positive Lock Panel Mount														
.264"	1	Plug	12	600	.485	.343	.320	.320	.320	WM1601-ND	.42	3.73	24.86	19-09-2018
		Recept.	12	600	—	—	—	.300	.400	WM1600-ND•	.42	3.73	24.86	19-09-1019
	2	Plug	12	600	.800	.365	.635	.320	.580	WM1603-ND	.61	5.41	36.09	19-09-2028
		Recept.	12	600	—	—	—	.300	.560	WM1602-ND•	.61	5.41	36.09	19-09-1029
	3	Plug	11	600	1.022	.365	.862	.320	.848	WM1605-ND	.58	5.11	34.05	19-09-2038
		Recept.	11	600	—	—	—	.300	.830	WM1604-ND•	.60	5.29	35.27	19-09-1039
	4	Plug	9	600	1.270	.365	1.109	.321	1.110	WM1607-ND	.69	6.11	40.73	19-09-2048
		Recept.	9	600	—	—	—	.300	1.090	WM1606-ND•	.70	6.18	41.18	19-09-1049
	6	Plug	9	600	1.048	.658	.888	.604	.850	WM1609-ND	.77	6.84	45.58	19-09-2068
		Recept.	9	600	—	—	—	.560	.830	WM1608-ND•	.75	6.65	44.36	19-09-1069
	9	Plug	8	600	1.048	.909	.883	.868	.850	WM1611-ND	.86	7.62	50.78	19-09-2098
		Recept.	8	600	—	—	—	.560	.830	WM1610-ND•	.87	7.66	51.04	19-09-1099
	12	Plug	7	600	1.100	.910	1.140	.668	1.112	WM1613-ND	1.15	10.12	67.47	19-09-2128
		Recept.	7	600	—	—	—	.830	.900	WM1612-ND•	.97	8.55	57.03	19-09-1129
	15	Plug	6	600	1.552	.910	1.392	.868	1.380	WM1615-ND	1.36	11.99	79.95	19-09-2158
		Recept.	6	600	—	—	—	.868	1.380	WM1614-ND•	1.35	11.91	79.40	19-09-1159
Shrouded Male Pin Header														
.198"	3	Header	5	250	.770	.330	—	—	—	WM1625-ND	2.31	20.40	135.97	10-18-1032
	4	Header	5	250	.970	.330	—	—	—	WM1626-ND	2.64	23.25	155.03	10-18-1041
	6	Header	5	250	.740	.540	—	—	—	WM1627-ND	2.79	24.66	164.41	10-18-1061
	9	Header	5	250	.770	.730	—	—	—	WM1628-ND	3.59	31.68	211.21	10-18-1090
	12	Header	5	250	.980	.740	—	—	—	WM1629-ND	5.24	46.20	307.98	10-18-1120

• **These Receptacles do not have mounting ears.**

§ Center spacing .248" (6.30mm) will accommodate: 14, 16 and 18 AWG with 1/32" (.79mm) insulation – 16-18 AWG (double crimp), each with 1/32" (.79mm) insulation .WM1400-WM1405 housing have positive locking rather than detent lock.

Δ Has positive lock rather than detent lock.

◊ Mounting ears are molded flush with back edge of wire end, not centered on side.

Cable Connector Designer Kits

Contains same as WM9800-ND but covers from single to 15-circuit designs (250V and up to 12A/circuit. 45 complete connectors with .093" (2.36mm) dia. pin size. Crimping tool, pin terminal ejector and case included.
WM9801-ND **$35.14**

AMPMODU MT Connectors

IDC CRIMP TYPE CONNECTOR/COVER FEATURES: • Receptacle connectors .100" (2.54mm) centers • Housings preloaded with standard and high pressure contacts • Insulation Diameter: .050" (1.27mm) • Mating Post Length: .222" to .273" (5.64mm to 6.94mm) max. • Housing and Cover: Black thermoplastic, flame retardant • Contacts: Copper alloy

RECEPTACLE HOUSING FEATURES: • Choice of three contact mating pressures • Receptacles mate with .025" (.64mm) square or round posts • Capable of connecting up to 100 wires simultaneously • Black thermoplastic or glass-filled nylon • Available in single and double row configurations in .100" (2.54mm) centerline spacing • Stamped: Cavity ID, AMP part number and date code stamped on housing where size permits. Unstamped: No marking on housing

Fig. 1

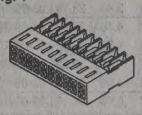


Fig. 2

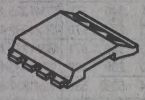


Fig. 3

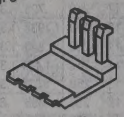


Fig. 4

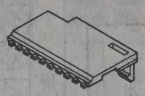


Fig. 5

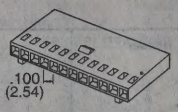


Fig. 6

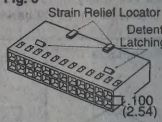
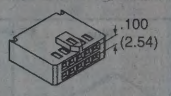


Fig. 7



No. of Positions	Digi-Key Part No.	Pricing 1	Pricing 25	AMP Part No.
IDC CRIMP TYPE — HOUSING AND COVERS				
26-30 AWG Housing				
With Standard Contacts — Fig. 1				
6	A25789-ND	2.04	46.20	102393-1
8	A25790-ND	2.60	58.80	102393-2
10	A25791-ND	2.99	67.80	102393-3
12	A25793-ND	3.60	81.60	102393-4
14	A25795-ND	4.16	94.20	102393-5
16	A25797-ND	5.72	129.60	102393-6
18	A25799-ND	7.58	171.60	102393-7
20	A25801-ND	5.91	133.80	102393-8
24	A28321-ND	7.16	162.00	1-102393-0
26	A28697-ND	6.15	139.20	1-102393-1
28	A28700-ND	11.77	266.40	1-102393-2
30	A28702-ND	8.93	202.20	1-102393-3
34	A28705-ND	10.07	228.00	1-102393-5
40	A28706-ND	8.85	200.40	1-102393-8
50	A28708-ND	10.76	243.60	2-102393-3
60	A28710-ND	12.67	286.80	2-102393-8
22-26 AWG Housing With Standard Contacts — Fig. 1				
6	A3047-ND	2.20	49.80	102398-1
8	A3048-ND	3.10	70.20	102398-2
10	A3049-ND	2.99	67.80	102398-3
12	A3050-ND	3.60	81.60	102398-4
14	A3051-ND	4.16	94.20	102398-5
16	A3052-ND	4.20	93.61	102398-6
18	A3053-ND	4.80	99.52	102398-7
20	A3054-ND	5.91	133.80	102398-8
24	A3055-ND	7.16	162.00	1-102398-0
26	A28698-ND	4.23	95.82	1-102398-1
28	A28701-ND	8.32	188.40	1-102398-2
30	A28703-ND	8.93	202.20	1-102398-3
34	A3057-ND	10.07	228.00	1-102398-5
40	A3058-ND	8.85	200.40	1-102398-8
50	A3059-ND	10.76	243.60	2-102398-3
60	A3060-ND	12.67	286.80	2-102398-8
64	A3061-ND	19.03	430.80	3-102398-0
22-26 AWG Housing With High Pressure Contacts				
6	A28711-ND	2.20	49.80	102694-1
8	A28712-ND	2.60	58.80	102694-2
10	A28713-ND	2.84	64.20	102694-3
12	A28714-ND	3.60	81.60	102694-4
14	A28715-ND	5.86	132.60	102694-5
16	A28716-ND	4.77	108.00	102694-6
20	A28717-ND	5.91	133.80	102694-8
20-22 AWG Housing With Standard Contacts — Fig. 1				
10	A25792-ND	2.99	67.80	102448-3
12	A25794-ND	3.60	81.60	102448-4
14	A25796-ND	4.16	94.20	102448-5
16	A25798-ND	4.77	108.00	102448-6
18	A25800-ND	5.35	121.20	102448-7
20	A25762-ND	5.91	133.80	102448-8
24	A28696-ND	7.16	162.00	1-102448-0
26	A28699-ND	6.15	139.20	1-102448-1
30	A28704-ND	8.93	202.20	1-102448-3
40	A28707-ND	10.65	241.20	1-102448-8
50	A28709-ND	10.76	243.60	2-102448-3
A2031-ND	Man. Pistol Grip Tool - use w/ Head Assy.			$55.50 each
A2040-ND	Head Assembly Tool for AMP MT Con.			$218.12 each
A28718-ND	Head Assembly Tool			$972.00 each
Low Profile Non-Polarizing — Front Cover Fig. 2 (designed for shielded connectors)				
6	A28719-ND	.31	7.12	102541-1
8	A28720-ND	.55	12.37	102541-2
10	A28721-ND	.31	7.12	102541-3
12	A28722-ND	.52	11.81	102541-4
14	A28723-ND	.53	12.02	102541-5
16	A28724-ND	.40	8.98	102541-6
18	A28725-ND	1.45	32.85	102541-7
20	A28726-ND	1.45	32.89	102541-8
24	A28727-ND	.59	13.47	1-102541-0
26	A28728-ND	.91	20.57	1-102541-1
28	A28729-ND	1.07	24.14	1-102541-2
30	A28730-ND	.74	16.83	1-102541-3
34	A28731-ND	.93	21.07	1-102541-5
40	A28732-ND	1.77	40.18	1-102541-8
50	A29145-ND	1.53	34.59	2-102541-3
60	A28733-ND	1.98	44.75	2-102541-8
64	A28734-ND	2.24	50.65	3-102541-0
Shielding & Non-Shielding - Back Cover — Fig. 3				
6	A28735-ND	.31	7.12	102536-1
8	A28736-ND	1.05	23.69	102536-2
10	A28737-ND	.35	7.91	102536-3
12	A28738-ND	1.06	23.90	102536-4
14	A28739-ND	1.06	24.01	102536-5
16	A28740-ND	.96	21.74	102536-6
18	A28741-ND	.89	20.20	102536-7
20	A28742-ND	.50	11.22	102536-8
24	A28743-ND	1.07	24.33	1-102536-0
26	A28744-ND	.64	14.59	1-102536-1
28	A28745-ND	1.07	24.13	1-102536-2
30	A28746-ND	1.08	24.44	1-102536-3
34	A28747-ND	1.13	25.68	1-102536-5
40	A28748-ND	1.64	37.11	1-102536-8
50	A28749-ND	1.76	39.74	2-102536-3
60	A28750-ND	1.87	42.36	2-102536-8
64	A28751-ND	1.92	43.41	3-102536-0
Standard Profile Covers — Fig. 4 (2 required per connector)				
6	A3062-ND	2.04/2	46.27/50	102396-1
8	A3063-ND	2.40/2	54.39/50	102396-2
10	A3064-ND	1.21/2	27.45/50	102396-3
12	A3065-ND	1.83/2	41.32/50	102396-4
14	A3066-ND	4.31/2	97.58/50	102396-5
16	A3067-ND	1.82/2	41.29/50	102396-6
18	A3068-ND	1.13/2	25.62/50	102396-7
20	A3069-ND	3.31/2	74.85/50	102396-8
24	A3070-ND	3.68/2	83.42/50	1-102396-0
26	A28752-ND	2.84/2	64.35/50	1-102396-1
30	A28753-ND	2.10/2	47.48/50	1-102396-3
34	A3072-ND	2.38/2	53.87/50	1-102396-5
40	A3073-ND	2.80/2	63.31/50	1-102396-8
50	A3074-ND	4.96/2	112.23/50	2-102396-3
64	A3076-ND	3.17/2	71.83/50	3-102396-0
Keying Plug	A3077-ND	1.55/10	4.84/50	86286-1
SINGLE ROW HOUSING — NON-POLARIZED FIG. 5 (order contacts separately)				
Stamped				
2	A3011-ND	.93	14.63	87499-3
3	A3012-ND	.66	10.37	87499-5
4	A3013-ND	.58	9.15	87499-7
5	A3014-ND	.47	7.32	87499-9
6	A3015-ND	.58	9.15	1-87499-1
7	A3016-ND	.78	12.19	87499-1
8	A3017-ND	.82	12.84	1-87499-3
9	A3018-ND	.82	12.80	1-87499-5
10	A3019-ND	.90	14.09	1-87499-7
11	A3020-ND	1.75	27.44	1-87499-9
12	A3021-ND	.84	13.21	2-87499-1
13	A3022-ND	1.05	16.46	2-87499-3
14	A3023-ND	.93	14.63	2-87499-5
15	A3024-ND	.97	15.24	2-87499-7
16	A3025-ND	1.01	15.85	2-87499-9
20	A3029-ND	1.21	18.90	3-87499-7
Unstamped				
1	A26962-ND	.31	7.05	7-87499-2
2	A26963-ND	.35	7.93	87499-4
3	A26964-ND	.39	8.81	87499-6
4	A26965-ND	.43	9.70	87499-8
5	A26966-ND	.47	10.58	1-87499-0
6	A26967-ND	.51	11.46	1-87499-2
7	A26968-ND	.62	14.10	87499-2
8	A26969-ND	.62	14.10	1-87499-4
9	A26970-ND	.70	15.87	1-87499-6
10	A26971-ND	.70	15.87	1-87499-8
11	A26972-ND	1.56	35.26	2-87499-0
12	A26973-ND	.78	17.63	2-87499-2
13	A26974-ND	.90	20.27	2-87499-4
14	A26975-ND	.86	19.39	2-87499-6
15	A26976-ND	.93	21.16	2-87499-8
16	A26977-ND	2.06	46.72	3-87499-0
18	A3027-ND	1.05	16.46	3-87499-4
20	A26978-ND	1.13	25.56	3-87499-8
22	A26979-ND	1.25	28.21	4-87499-2
26	A26980-ND	1.52	34.38	5-87499-0
30	A26981-ND	1.75	39.67	5-87499-8
SINGLE ROW HOUSING — POLARIZED FIG. 5 (order contacts separately)				
Stamped with Detent Latching				
3	A26982-ND	.31	7.05	102241-1
4	A26983-ND	.35	7.93	102241-2
5	A26984-ND	.39	8.81	102241-3
6	A26985-ND	.43	9.70	102241-4
7	A26986-ND	.47	10.58	102241-5
8	A26987-ND	.51	11.46	102241-6
9	A26988-ND	.55	12.34	102241-7
10	A26989-ND	.62	14.10	102241-8
12	A26990-ND	.70	15.87	1-102241-0
14	A26991-ND	.78	17.63	1-102241-2
15	A26992-ND	.90	20.27	1-102241-3
16	A26993-ND	1.09	24.68	1-102241-4
18	A26994-ND	1.13	25.56	1-102241-6
20	A26995-ND	1.38	31.20	1-102241-8
22	A26996-ND	1.21	27.33	2-102241-0
DOUBLE ROW HOUSING — NON-POLARIZED FIG. 6 (order contacts separately)				
Stamped, Housing Height is .600" (15.24mm)				
4	A26998-ND	1.13	25.56	5-87456-0
6	A26999-ND	1.17	26.44	87456-2
10	A3034-ND	1.25	19.51	87456-6
12	A3035-ND	1.32	20.73	87456-8
14	A3036-ND	1.36	21.34	1-87456-0
16	A3037-ND	1.44	22.56	1-87456-2
18	A3038-ND	2.06	32.31	1-87456-4
20	A3039-ND	1.71	26.83	1-87456-6
24	A3040-ND	2.22	34.75	2-87456-0
26	A3041-ND	2.02	31.70	2-87456-2
28	A3042-ND	2.22	34.75	2-87456-4
30	A25819-ND	2.65	59.94	2-87456-6
34	A3043-ND	2.69	42.07	3-87456-0
40	A3044-ND	3.04	47.56	3-87456-6
50	A3045-ND	3.66	57.31	4-87456-0
60	A3046-ND	4.03	63.08	5-87456-2
Unstamped, Housing Height is .600" (15.24mm)				
2	A26997-ND	.70	15.87	5-87456-3
4	A3031-ND	.97	15.24	4-87456-9
6	A3032-ND	1.05	16.46	87456-1
8	A3033-ND	1.13	17.68	87456-3
10	A25804-ND	1.17	26.44	87456-5
12	A25806-ND	1.21	27.33	87456-7
14	A25807-ND	1.25	28.21	87456-9
16	A25809-ND	1.28	29.09	1-87456-1
18	A25811-ND	1.87	42.31	1-87456-3
20	A25812-ND	1.64	37.02	1-87456-5
22	A25814-ND	1.99	44.96	1-87456-7
24	A25815-ND	1.79	40.55	1-87456-9
26	A25816-ND	1.91	43.19	2-87456-1
28	A25818-ND	2.02	45.84	2-87456-3
30	A25820-ND	2.41	54.65	2-87456-5
34	A25821-ND	2.37	53.77	2-87456-9
38	A25822-ND	2.73	61.70	3-87456-3
40	A25823-ND	2.96	66.99	3-87456-5
50	A25825-ND	3.62	81.98	3-87456-9
54	A25826-ND	3.82	86.39	4-87456-5
60	A25827-ND	4.00	90.60	5-87456-1
Keying Plug	A25829-ND	.11	2.58	87077-2
Stamped, Housing Height is .645" (16.38mm)				
26	A25817-ND	4.93	111.60	86177-4
Unstamped, Housing Height is .645" (16.38mm)				
6	A25802-ND	4.19	94.80	1-86177-8
10	A25805-ND	4.29	97.20	1-86177-2
14	A25808-ND	4.37	99.00	1-86177-4
16	A25810-ND	4.51	102.00	1-86177-5
20	A25813-ND	4.61	104.40	86177-1
40	A25824-ND	6.70	151.80	1-86177-1
Keying Plug	A25828-ND	.16	3.63	87077-1
DOUBLE ROW HOUSING — POLARIZED FIG. 6 (order contacts separately)				
Stamped				
6	A25830-ND	1.05	23.80	87977-1
8	A25832-ND	1.21	27.33	87977-2
10	A25834-ND	1.28	29.09	87977-3
12	A25836-ND	1.32	29.97	87977-4
20	A25841-ND	2.86	64.80	87977-8
24	A25843-ND	2.02	45.84	1-87977-0
26	A25845-ND	2.49	56.41	1-87977-1
Unstamped				
6	A25831-ND	.97	22.04	2-87977-8
8	A25833-ND	1.64	37.02	2-87977-9
10	A25835-ND	1.71	38.79	3-87977-0
12	A25837-ND	1.79	40.55	3-87977-1
14	A25838-ND	1.87	42.31	3-87977-2
16	A25839-ND	1.91	43.19	3-87977-3
18	A25840-ND	1.95	44.07	3-87977-4
20	A25842-ND	1.95	44.07	3-87977-5
24	A25844-ND	1.99	44.96	3-87977-7

(Continued)

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No. of Positions	Digi-Key Part No.	Pricing 1	Pricing 25	AMP Part No.
26	A25846-ND	2.30	52.01	3-87977-8
40	A25847-ND	2.80	63.47	4-87977-5
Stamped with Detent Latching, without Strain Relief				
6	A25848-ND	1.13	25.56	87631-2
8	A25850-ND	1.21	27.33	87631-4
10	A25852-ND	1.28	29.09	87631-6
12	A25855-ND	1.40	31.73	87631-8
14	A25858-ND	1.48	33.50	1-87631-0
16	A25861-ND	1.64	37.02	1-87631-2
18	A25864-ND	1.75	39.67	1-87631-4
20	A25867-ND	1.91	43.19	1-87631-6
24	A25871-ND	2.18	49.36	2-87631-0
26	A25874-ND	2.22	50.25	2-87631-2
28	A25877-ND	2.37	53.77	2-87631-4
30	A25879-ND	2.49	56.41	2-87631-6
32	A25882-ND	2.57	58.18	2-87631-8
34	A25885-ND	2.76	62.58	3-87631-0
40	A25888-ND	3.04	68.76	3-87631-6
50	A25892-ND	3.74	84.62	4-87631-2
60	A25895-ND	4.19	94.80	5-87631-2
Unstamped with Detent Latching, without Strain Relief				
6	A25849-ND	.97	22.04	87631-1
8	A25851-ND	1.13	25.56	87631-3
10	A25853-ND	1.17	26.44	87631-5
12	A25856-ND	1.25	28.21	87631-7
14	A25859-ND	1.28	29.09	87631-9
16	A25862-ND	1.48	33.50	1-87631-1
18	A25865-ND	1.44	32.70	1-87631-3
20	A25868-ND	1.83	41.43	1-87631-5
22	A25870-ND	1.99	44.96	1-87631-7
24	A25872-ND	2.02	45.84	1-87631-9
26	A25875-ND	2.06	46.72	2-87631-1
28	A25878-ND	2.30	52.01	2-87631-3
30	A25880-ND	2.34	52.89	2-87631-5
32	A25883-ND	2.45	55.53	2-87631-7
34	A25886-ND	2.53	57.30	2-87631-9
40	A25889-ND	2.80	63.47	3-87631-5
44	A25891-ND	3.04	68.76	3-87631-9
50	A25893-ND	3.98	90.00	4-87631-1
60	A25896-ND	4.16	94.20	5-87631-1
66	A25898-ND	4.43	100.20	5-87631-3
Stamped with Detent Latching and Strain Relief				
10	A25854-ND	2.49	56.41	87922-1
12	A25857-ND	2.53	57.30	87922-2
14	A25860-ND	3.55	80.40	87922-3
16	A25863-ND	2.84	64.35	87922-4
18	A25866-ND	4.51	102.00	87922-5
20	A25869-ND	3.27	74.04	87733-1
24	A25873-ND	3.50	79.33	87733-3
26	A25876-ND	3.54	80.21	87733-4
30	A25881-ND	4.11	93.00	87733-6
32	A25884-ND	4.16	94.20	87733-7
34	A25887-ND	4.19	94.80	87733-8
40	A25890-ND	4.45	100.80	1-87733-1
50	A25894-ND	4.98	112.80	1-87733-4
60	A25897-ND	5.49	124.20	1-87733-7
A25899-ND	Strain Relief, 10 thru 18 pos.		$.59/1	87921-1
A25900-ND	Strain Relief, ≥20 positions		$1.30/1	87710-1
Unstamped, Center Polarized — Fig. 7				
10	A25901-ND	1.32	29.97	102387-1
14	A25902-ND	1.40	31.73	102387-2
16	A25903-ND	1.64	37.02	102387-3
20	A25904-ND	1.87	42.31	102387-4
24	A25905-ND	2.02	45.84	102387-5
26	A25906-ND	2.06	46.72	102387-6
30	A25907-ND	2.37	53.77	102387-7
34	A25908-ND	2.61	59.06	102387-8
40	A25909-ND	2.88	65.23	102387-9
44	A25910-ND	3.15	71.40	1-102387-3
50	A25911-ND	3.54	80.21	1-102387-0
60	A25912-ND	3.90	88.20	1-102387-1
64	A25913-ND	4.29	97.20	1-102387-2

tyco Electronics AMP Contacts

Fig. 1

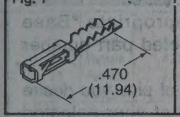


Fig. 2

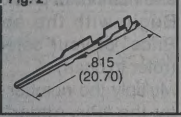
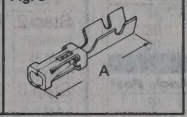


Fig. 3



SPECIFICATIONS: • Contact Current Rating: 3 amperes • Terminal Resistance: 12 milliohms max. (beryllium copper) and 20 milliohms max. (copper-tin-phosphor bronze)

FEATURES: Available in a variety of platings and contact pressures; Dual cantilever contact beam with built-in overstress assures reliable connection.

Contact Plating:
A: 30µ gold on contact area, 100µ to 200µ tin-lead on crimp area, with entire contact underplated 50µ nickel
B: 15µ gold on contact area, 100µ to 200µ tin-lead in crimp end, with entire contact underplated 50µ nickel
C: 30µ gold on contact area, with gold flash over 50µ nickel on entire contact
D: 15µ gold on contact area, with gold flash over 50µ nickel on entire contact
E: 100µ to 200µ bright tin over 30µ nickel on entire contact
F: Gold flash over nickel, 15µ gold on contact area
G: Gold flash over nickel, 30µ gold on contact area

Fig.	Insulation Dia. - Max. Inch (mm)	Material	Plating	Digi-Key Part No.	Loose Piece Pricing 10	Loose Piece Pricing 100	AMP Part No.	Digi-Key Part No.	Cut Strip Pricing 1,000	Digi-Key Part No.	Strip Tape & Reel 10,000	AMP Part No.
Crimp Snap-In (No-strip) Receptacles												
1	.055 (1.40)	BeCu	C	A25943-ND	3.60	30.63	102348-2	—	—	—	—	—
			E	A25944-ND	4.73	41.65	102348-3	A25944CT-ND	211.48	A25944TR-ND	114.20/M	87107-6

A25946-ND (90381-1) Crimp Hand Tool for Receptacles $756.29

Fig.	Dim. A	Wire Size (AWG)	Max. Ins. Dia. Inch (mm)	Material	Plating	Digi-Key Part No.	Loose Piece Pricing 10	Loose Piece Pricing 100	AMP Part No.	Digi-Key Part No.	Cut Strip Pricing 100	Cut Strip Pricing 500	Cut Strip Pricing 1,000	Digi-Key Part No.	Strip Tape & Reel 12,500	AMP Part No.
Crimp Snap-In Pins with Insulation Support																
2	—	22-26	.061 (1.55)	Ph Bz	C	A25948-ND	5.49	48.33	102107-2	A25948CT-ND	—	130.60	237.45	A25948TR-ND	128.23/M	102095-3
					D	A25950-ND	4.66	40.97	102107-1	A25950CT-ND	—	104.50	190.00	A25950TR-ND	102.60/M	102095-2
					E	A25952-ND	2.14	18.87	102107-3	A25952CT-ND	—	53.86	97.93	A25952TR-ND	52.88/M	102095-4
Crimp Snap-In Receptacles with Insulation Support – Standard Pressure																
3	.445	27-32	.040 (1.02)	Cu-Sn-Ph Bz	A	A25953-ND	2.12	18.02	1-102316-4	—	—	—	—	—	—	—
				Cu-Sn-Ph Bz	B	A25955-ND	3.54	31.17	1-102316-3	A25955CT-ND	—	87.73	159.50	A25955TR-ND	86.14/M	102316-6
				BeCu	C	A25957-ND	5.65	49.71	102917-2	A25957CT-ND	—	139.26	253.20	A25957TR-ND	136.73/M	102917-1
				BeCu	D	—	—	—	—	A25958CT-ND	27.16	115.53	171.97	A25958TR-ND	119.06/M	102917-5
				Cu-Sn-Ph Bz	E	—	—	—	—	A25959CT-ND	18.69	79.50	118.35	A25959TR-ND	81.94/M	102316-5
	.445	22-26	.061 (1.55)	Cu-Sn-Ph Bz	A	A25966-ND	2.12	18.02	1-87756-8	—	—	—	—	—	—	—
				BeCu	A	A25973-ND	4.12	35.03	87667-1	—	—	—	—	—	—	—
				Cu-Sn-Ph Bz	B	A25968-ND	2.02	17.20	1-87756-6	—	—	—	—	—	—	—
				BeCu	C	A3001-ND	5.14	45.19	87667-2	—	—	—	—	—	—	—
				BeCu	D	A25972-ND	2.62	22.25	87667-5	—	—	—	—	—	—	—
				Cu-Sn-Ph Bz	E	A25970-ND	1.27	10.77	87756-7	—	—	—	—	—	—	—
				BeCu	E	A3000-ND	3.61	31.79	87667-3	A3000CT-ND	—	98.20	178.55	A3000TR-ND	96.42/M	87666-3
				Cu-Sn-Ph Bz	F	A25969-ND	3.71	32.64	87756-5	A25969CT-ND	—	91.23	165.88	A25969TR-ND	89.58/M	87756-4
				Cu-Sn-Ph Bz	G	—	—	—	—	A25967CT-ND	23.61	100.42	149.49	A25967TR-ND	103.50/M	87756-2
	.470	20-24	.069 (1.75)	Cu-Sn-Ph Bz	A	A25984-ND	3.71	32.65	1-87523-9	A25984CT-ND	—	85.64	155.70	A25984TR-ND	84.08/M	1-87523-8
				Cu-Sn-Ph Bz	B	A25986-ND	3.54	31.17	1-87523-6	A25986CT-ND	—	84.60	153.83	A25986TR-ND	83.07/M	1-87523-5
				BeCu	C	A25988-ND	4.07	34.60	86016-1	—	—	—	—	—	—	—
				BeCu	D	A25991-ND	5.10	44.91	86016-5	A25991CT-ND	—	131.45	239.00	A25991TR-ND	129.06/M	85969-6
				Cu-Sn-Ph Bz	D	—	—	—	—	A25996CT-ND	20.44	86.92	129.38	A25996TR-ND	89.58/M	87523-4
				Cu-Sn-Ph Bz	E	A25993-ND	2.17	19.13	87523-6	A25993CT-ND	—	52.13	94.78	A25993TR-ND	51.18/M	87523-5
				BeCu	E	A25995-ND	3.61	31.79	86016-3	A25995CT-ND	—	98.20	178.55	A25995TR-ND	96.42/M	85969-9
				BeCu	G	A25989-ND	2.93	24.94	86016-2	—	—	—	—	—	—	—
Crimp Snap-In Receptacles with Insulation Support – Intermediate Pressure																
3	.445	27-32	.040 (1.02)	Cu-Sn-Ph Bz	A	A25961-ND	3.71	32.65	102920-2	A25961CT-ND	—	167.06	303.75	A25961TR-ND	164.03/M	102920-1
				BeCu	C	A25963-ND	8.53	75.03	102918-2	A25963CT-ND	—	135.56	246.48	A25963TR-ND	133.10/M	102918-1
	.445	22-26	.061 (1.55)	Cu-Sn-Ph Bz	A	A25976-ND	3.71	32.65	103171-5	A25976CT-ND	—	90.79	165.08	A25976TR-ND	89.15/M	103171-4
				Cu-Sn-Ph Bz	B	—	—	—	—	A25977CT-ND	19.65	83.58	124.41	A25977TR-ND	86.14/M	103171-1
				BeCu	C	A25979-ND	5.68	49.95	102548-6	A25979CT-ND	—	139.26	253.20	A25979TR-ND	136.73/M	102548-5
				BeCu	D	A25981-ND	4.58	40.32	102548-3	A25981CT-ND	—	131.45	239.00	A25981TR-ND	129.06/M	102548-1
	.470	20-24	.069 (1.75)	Cu-Sn-Ph Bz	A	A25998-ND	3.71	32.65	2-87195-1	A25998CT-ND	—	85.66	155.75	A25998TR-ND	84.11/M	2-87195-0
				Cu-Sn-Ph Bz	B	A28315-ND	3.54	31.17	1-87195-8	A28315CT-ND	—	87.73	159.50	A28315TR-ND	86.14/M	1-87195-7
				BeCu	C	A28319-ND	7.18	63.17	87046-2	A28319CT-ND	—	176.54	320.98	A28319TR-ND	173.33/M	86492-4
				BeCu	D	A28317-ND	5.20	45.77	87046-1	A28317CT-ND	—	131.45	239.00	A28317TR-ND	129.06/M	86492-2
				BeCu	E	A3005-ND	4.32	37.99	87046-4	A3005CT-ND	—	104.93	190.78	A3005TR-ND	103.02/M	86492-9
				BeCu	G	A3006-ND	3.31	28.13	87046-3	—	—	—	—	—	—	—
Crimp Snap-In Receptacles with Insulation Support – High Pressure																
3	.445	27-32	.040 (1.02)	Ph Bz	C	A25965-ND	6.18	54.37	103455-2	A25965CT-ND	—	124.75	226.83	A25965TR-ND	122.49/M	103455-1
	.445	22-26	.061 (1.55)	Ph Bz	C	A3004-ND	2.53	20.97	102128-1	—	—	—	—	—	—	—
					E	A3003-ND	2.78	24.46	102128-2	A3003CT-ND	—	51.37	93.40	A3003TR-ND	50.44/M	87809-2
	.470	20-24	.069 (1.75)	Ph Bz	C	A3008-ND	2.58	21.42	1-87309-4	—	—	—	—	—	—	—
					E	A3007-ND	1.59	13.50	1-87309-3	—	—	—	—	—	—	—

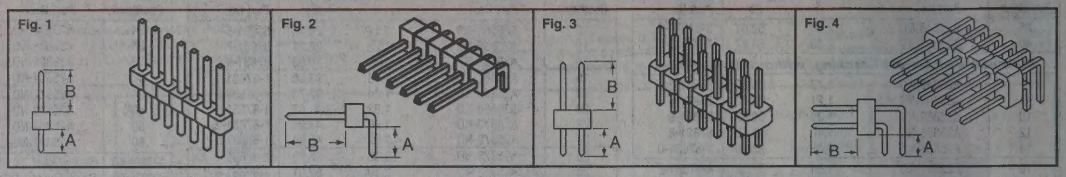
A99114-ND (91541-1) Crimp Tool MT Connectors 27-32AWG $535.50
A9840-ND (91516-1) Crimp Tool MT Connectors 20-24AWG $477.00
A9903-ND (91517-1) Crimp Tool MT Connectors 22-26AWG $535.50
A3077-ND (86286-1) Keying Plug for Standard or Intermediate Contacts $1.55/10

tyco Electronics AMP

AMPMODU Unshrouded Breakaway Headers - .100" Centers

MATERIAL: • Housing: Black thermoplastic, 94V-0 rated • Posts: Phosphor bronze

Contact Plating: A: 30µ gold on contact area, 100µ to 200µ tin-lead on solder area, with entire post underplated 50µ nickel **B:** 15µ gold on contact area, 100µ to 200µ tin-lead on solder area, with entire post underplated 50µ nickel **C:** 100µ to 200µ tin-lead over 50µ nickel on entire post



40 Pin Headers

No. of Pos.	Plating	Dimensions Inch (mm) A	B	Digi-Key Part No.	Price Each 1	10	AMP Part No.
Single Row							
Fig. 1 — .025" (.64mm) Square Straight Post							
40	A	.090 (2.29)	.230 (5.84)	A26508-40-ND	1.80	1.61	4-103747-0
	C			A26509-40-ND	1.15	1.03	4-103741-0
	A	.120 (3.05)	.230 (5.84)	A26512-40-ND	1.88	1.69	4-103239-0
	B			A26513-40-ND	1.72	1.54	4-103185-0
	C			A26514-40-ND	1.23	1.10	4-103327-0
	A	.125 (3.18)	.318 (8.08)	A26518-40-ND	2.04	1.83	4-102976-0
	B			A26519-40-ND	1.80	1.61	4-102972-0
	C			A26520-40-ND	1.31	1.18	4-103321-0
Fig. 2 — .025" (.64mm) Square Right Angle Post							
40	A	.090 (2.29)	.230 (5.84)	A26510-40-ND	1.59	1.43	4-103765-0
	C			A26511-40-ND	1.15	1.04	4-103759-0
	A	.120 (3.05)	.230 (5.84)	A26515-40-ND	1.81	1.63	4-103148-0
	B			A26516-40-ND	1.42	1.27	4-103325-0
	C			A26517-40-ND	1.15	1.04	4-103329-0
	A	.110 (2.79)	.318 (8.08)	A26521-40-ND	1.81	1.63	4-102978-0
	B			A26522-40-ND	1.51	1.36	4-102974-0
	C			A26523-40-ND	1.15	1.04	4-103323-0
Double Row							
Fig. 3 — .025" (.64mm) Square Straight Angle Post							
80	A	.090 (2.29)	.230 (5.84)	A26524-40-ND	2.68	2.40	4-103783-0
	C			A26525-40-ND	1.90	1.70	4-103777-0
	A	.120 (3.05)	.230 (5.84)	A26528-40-ND	2.78	2.49	4-103240-0
	B			A26529-40-ND	2.45	2.20	4-103186-0
	C			A26530-40-ND	1.96	1.76	4-103328-0
	A	.125 (3.18)	.318 (8.08)	A26534-40-ND	2.94	2.64	4-102977-0
	B			A26535-40-ND	2.62	2.35	4-102973-0
	C			A26536-40-ND	2.13	1.91	4-103322-0
Fig. 4 — .025" (.64mm) Square Right Angle Post							
80	A	.090 (2.29)	.230 (5.84)	A26526-40-ND	4.22	3.78	4-103801-0
	C			A26527-40-ND	2.64	2.37	4-103795-0
	A	.120 (3.05)	.230 (5.84)	A26531-40-ND	2.91	2.61	4-103149-0
	B			A26532-40-ND	2.77	2.48	4-103326-0
	C			A26533-40-ND	2.64	2.37	4-103330-0
	A	.110 (2.79)	.318 (8.08)	A26537-40-ND	2.91	2.61	4-102979-0
	B			A26538-40-ND	2.77	2.48	4-102975-0
	C			A26539-40-ND	2.64	2.37	4-103324-0

1-39 Pin Headers

Step 1 Digi-Key Part No.	Step 2 Base Price	Step 3 Pin Adder
Single Row		
.025" (.64mm) Square Straight Post		
A26508-XX-ND	.56	.02
A26509-XX-ND	.28	.02
A26512-XX-ND	.56	.02
A26513-XX-ND	.33	.02
A26514-XX-ND	.28	.02
A26518-XX-ND	.65	.02
A26519-XX-ND	.53	.02
A26520-XX-ND	.28	.02
.025" (.64mm) Square Right Angle Post		
A26510-XX-ND	.80	.02
A26511-XX-ND	.37	.02
A26515-XX-ND	1.03	.02
A26516-XX-ND	.63	.02
A26517-XX-ND	.37	.02
A26521-XX-ND	1.03	.02
A26522-XX-ND	.73	.02
A26523-XX-ND	.37	.02
Double Row		
.025" (.64mm) Square Straight Angle Post		
A26524-XX-ND	1.03	.02
A26525-XX-ND	.40	.02
A26528-XX-ND	.65	.02
A26529-XX-ND	.48	.02
A26530-XX-ND	.40	.02
A26534-XX-ND	1.03	.02
A26535-XX-ND	.48	.02
A26536-XX-ND	.40	.02
.025" (.64mm) Square Right Angle Post		
A26526-XX-ND	1.86	.03
A26527-XX-ND	1.06	.02
A26531-XX-ND	1.34	.02
A26532-XX-ND	1.20	.02
A26533-XX-ND	1.06	.02
A26537-XX-ND	1.34	.02
A26538-XX-ND	1.20	.02
A26539-XX-ND	1.06	.02

HOW TO ORDER: 4 EASY STEPS

How do I order an A26508 header with 16 pins?

Call Digi-Key where you'll happily receive the price,
or
Determine the cost yourself.

A □□-□□□-□□-ND

Base Part Number — Number of Desired Pins per Row

Step 1. Select needed Digi-Key Part Number and number of pins desired.

Step 2. Begin with the appropriate "Base Price" of your selected part number (refer to chart).

Step 3. Multiply the number of pins you desire by the "Pin Adder" of your selected part number (refer to chart).

Step 4. Add Step 2 and Step 3 together for final cost!

Our Example:

Step 1. A26508-16-ND
Step 2. .56
Step 3. 16 x .02 = .32
Step 4. Your Cost = $.88

NOTE: **For quantities of 10 or more, call 1-800-DIGI-KEY.**

AMPMODU PCB Connectors - .100" (2.54mm) Centers

PERFORMANCE SPECIFICATIONS: • Current Rating: 3 amp max. for single contact: 2 amp max. per contact for fully energized connector • Voltage Rating: 250 VAC • Dielectric Rating: 750 VAC rms between contacts for one min. • Insulation Resistance: 1000 megohms after temp./humidity cycling • Temperature Rating: Headers; -65°C ~ 105°C Receptacle Assemblies; -65°C ~ 125°C • Durability: 200 cycles for 30µ gold plating (75 cycles for 15µ gold plating)

MATERIAL: Headers: • Housing: Black thermoplastic, 94V-0 rated • Posts: Phosphor bronze **Receptacles:** • Housing: Brown thermoplastic, 94V-0 rated, high temperature compatible • Contacts: Phosphor bronze

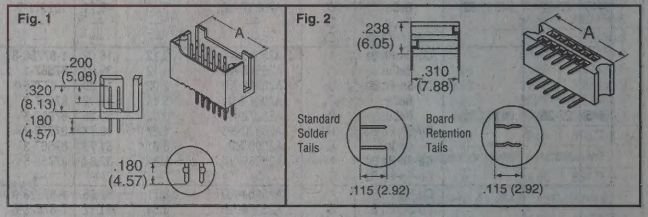
Contact/Post Plating:

A: 30µ gold on contact area, 100µ to 200µ bright tin-lead on termination end, with entire post underplated 50µ nickel

B: 15µ gold on contact area, 100µ to 200µ bright tin-lead on termination end, with entire post underplated 50µ nickel

C: 30µ gold on contact area, 50µ to 100µ bright tin-lead on solder area, with entire contact underplated 50µ nickel

D: 15µ gold on contact area, 50µ to 100µ bright tin-lead on solder area, with entire contact underplated 50µ nickel



No. of Pos.	Plating	Dimension A Inch (mm)	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Fig. 1 — Headers						
Straight Post with Standard Solder Tails						
12	A	.980 (24.89)	A26375-ND	2.33	2.16	102692-1
	B	.980 (24.89)	A26376-ND	2.09	1.94	102567-1
16	A	1.180 (29.97)	A26379-ND	2.89	2.68	1-102692-5
20	B	1.380 (35.05)	A26380-ND	2.76	2.55	1-102567-1
24	A	1.580 (40.13)	A26382-ND	3.55	3.29	102692-2
	B	1.580 (40.13)	A26383-ND	3.07	2.85	102567-2
30	A	1.880 (47.75)	A26385-ND	3.23	2.99	1-102692-7
	B	1.880 (47.75)	A26386-ND	2.76	2.55	1-102567-3
36	A	2.180 (55.37)	A26388-ND	4.77	4.41	102692-3
	B	2.180 (55.37)	A26389-ND	8.11	7.50	102567-3
40	A	2.380 (60.45)	A26391-ND	5.19	4.81	1-102692-3
	B	2.380 (60.45)	A26392-ND	3.36	3.11	1-102567-2
50	B	2.880 (73.15)	A26394-ND	5.27	4.88	102567-6
60	A	3.380 (85.85)	A26396-ND	7.26	6.72	102692-5
	B	3.380 (85.85)	A26397-ND	5.99	5.54	102567-4
70	B	3.880 (98.55)	A26399-ND	5.30	4.90	1-102567-0
80	B	4.380 (111.25)	A26401-ND	7.92	7.33	102567-8
100	A	5.380 (136.65)	A26402-ND	11.79	10.91	102692-8
	B	5.380 (136.65)	A26403-ND	9.83	9.09	102567-9
120	A	6.380 (162.05)	A26404-ND	13.99	12.94	102692-9

No. of Pos.	Plating	Dimension A Inch (mm)	Digi-Key Part No.	Price Each 1	25	AMP Part No.
With Board Retention Tails						
12	A	.980 (24.89)	A26377-ND	3.47	3.21	1-534978-6
20		1.380 (35.05)	A26381-ND	3.42	3.17	534978-3
24		1.580 (40.13)	A26384-ND	3.58	3.31	534978-4
30		1.880 (47.75)	A26387-ND	3.23	2.99	534978-5
36		2.180 (55.37)	A26390-ND	4.77	4.41	534978-6
40		2.380 (60.45)	A26393-ND	5.17	4.78	534978-7
50	A	2.880 (73.15)	A26395-ND	6.25	5.79	534978-8
60		3.380 (85.85)	A26398-ND	5.25	4.86	534978-9
70		3.880 (98.55)	A26400-ND	6.41	5.93	1-534978-5
110		5.880 (149.35)	A26378-ND	12.83	11.86	1-534978-2
Fig. 2 — Receptacles Horizontal Mount, Closed Entry						
Standard Solder Tails						
12	C	.858 (21.79)	A26340-ND	2.84	2.63	532956-1
	D	.858 (21.79)	A26341-ND	2.68	2.48	532955-1
16	C	1.058 (26.87)	A26343-ND	3.74	3.46	532956-2
20	C	1.258 (31.95)	A26344-ND	4.53	4.19	532956-3
	D	1.258 (31.95)	A26345-ND	3.25	3.01	532955-3
24	C	1.458 (37.03)	A26347-ND	4.05	3.75	532956-4
	D	1.458 (37.03)	A26348-ND	4.96	4.59	532955-4
30	C	1.758 (44.65)	A26350-ND	4.96	4.59	532956-5
	D	1.758 (44.65)	A26351-ND	5.96	5.52	532955-5
36	C	2.058 (52.27)	A26353-ND	7.39	6.84	532956-6
	D	2.058 (52.27)	A26354-ND	6.94	6.42	532955-6

No. of Pos.	Plating	Dimension A Inch (mm)	Digi-Key Part No.	Price Each 1	25	AMP Part No.
40	C	2.258 (57.35)	A26356-ND	3.43	3.17	532956-7
	D	2.258 (57.35)	A26357-ND	3.03	2.81	532955-7
50	C	2.758 (70.05)	A26359-ND	9.70	8.97	532956-8
	D	2.758 (70.05)	A26360-ND	6.92	6.40	532955-8
60	C	3.258 (82.75)	A26362-ND	11.34	10.49	532956-9
	D	3.258 (82.75)	A26363-ND	10.41	9.63	532955-9
70	D	3.758 (95.45)	A26365-ND	9.28	8.58	1-532955-0
72	C	3.858 (97.99)	A26693-ND	10.39	9.61	1-532956-1
80	C	4.258 (108.15)	A26367-ND	11.53	10.66	1-532956-2
100	C	5.258 (133.55)	A26369-ND	13.99	12.94	1-532956-6
	D	5.258 (133.55)	A26370-ND	16.88	15.61	1-532955-6
120	C	6.258 (158.95)	A26373-ND	21.81	20.17	1-532956-8
	D	6.258 (158.95)	A26374-ND	20.06	18.55	1-532955-8
Board Retention Tails						
12	A	.858 (21.79)	A26342-ND	3.87	3.58	534204-2
20		1.258 (31.95)	A26346-ND	4.53	4.19	534204-9
24	C	1.458 (37.03)	A26349-ND	5.25	4.86	1-534204-1
30		1.758 (44.65)	A26352-ND	4.96	4.59	534204-4
36		2.058 (52.27)	A26355-ND	8.45	7.82	534204-3
40		2.258 (57.35)	A26358-ND	6.12	5.66	1-534204-2
50		2.758 (70.05)	A26361-ND	7.21	6.67	534204-1
60		3.258 (82.75)	A26364-ND	8.72	8.07	534204-5
70	C	3.758 (95.45)	A26366-ND	10.12	9.36	1-534204-3
80		4.258 (108.15)	A26368-ND	11.53	10.66	534204-8
100		5.258 (133.55)	A26371-ND	18.39	17.01	534204-6
110		5.758 (146.25)	A26372-ND	20.11	18.60	1-534204-6

tyco Electronics AMP

AMPLIMITE® D-Sub Connectors

All connectors are preloaded with size 20 DF posted contacts; plugs with pin contacts and receptacles with socket contacts.

Steel Tin Plated Shell HD-20 Series (Fig. 1): • Contact Mating Area Plating: 30µ gold • Eyelets: Brass, Tin Plated • Threaded Inserts: Zinc • Female Screwlock: Zinc • Boardlocks: Copper Alloy, Tin-Lead Plated • Pin Contacts: Brass

Zinc Plated Shell HDP-20 Series Crimp Snap (Fig. 2): • Contact Mating Area Plating: Gold Flash • Grounding Indents: Without • Recommended PCB Thickness: .062 (1.57mm)

Steel Tin Plated Shell HD-20 Series Solder Cup (Fig. 2): • Contact Mating Area Plating: 30µ gold • Grounding Indents: On Male Plug • Recommended PCB Thickness: .093 (2.36mm)

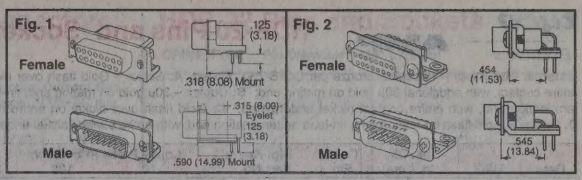


Fig.	No. of Pos.	Sex	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
Steel, Tin Plated Shell, .318" (8.08mm) Mount, without Boardlocks, with Threaded Inserts						
1	9	Male	A2096-ND*	2.86	2.57	747250-4
	9	Female	A2100-ND*	2.53	2.27	745781-4
	9	Male	A23272-ND‡	5.58	4.65	747250-3
	9	Female	A23292-ND‡	2.80	2.34	745781-3
	15	Male	A2097-ND*	6.15	4.92	747236-4
	15	Female	A2101-ND*	3.03	2.72	745782-4
	25	Male	A2098-ND*	5.09	4.56	747238-4
	25	Female	A2102-ND*	3.59	3.22	745783-4
	25	Female	A23297-ND‡	6.60	5.50	745783-3
	37	Male	A2099-ND*	12.23	9.78	747252-4
	37	Female	A2103-ND*	5.18	4.14	745784-4
Steel, Tin Plated Shell, .318" (8.08mm) Mount, without Boardlocks, with Standard Mounting Holes						
1	9	Female	A23291-ND*	6.66	5.55	745781-2
	15	Female	A23294-ND*	8.10	6.75	745782-2
	25	Male	A23271-ND*	5.58	4.65	747238-2
	25	Female	A23296-ND*	9.66	8.05	745783-2
Steel, Tin Plated Shell, .318" (8.08mm) Mount, without Boardlocks, with Fixed Female Screwlocks						
1	9	Male	A23273-ND*	6.36	5.30	747250-6
	9	Female	A23293-ND‡	6.27	5.23	745781-6
	15	Female	A23295-ND*	7.29	6.08	745782-6
	25	Female	A23299-ND*	8.58	7.15	745783-6
	25	Female	A23298-ND‡	2.69	2.25	745783-5
	37	Female	A23300-ND*	9.93	8.28	745784-6
Steel, Tin Plated Shell, .318" (8.08mm) Mount with Boardlocks, with Standard Mounting Holes						
1	9	Male	A23275-ND*	6.36	5.30	747840-2
	9	Female	A23301-ND*	2.08	1.74	747844-2
	25	Male	A23283-ND*	8.91	7.43	747842-2
	25	Female	A23310-ND*	3.90	3.25	747846-2
	37	Male	A23288-ND*	8.97	7.48	747843-2
Steel, Tin Plated Shell, .318" (8.08mm) Mount, with Boardlocks, with Threaded Inserts						
1	9	Male	A23277-ND*	1.72	1.44	747840-4
	9	Female	A23303-ND*	2.03	1.70	747844-4
	9	Male	A23276-ND‡	2.14	1.79	747840-3
	9	Female	A23302-ND‡	2.13	1.78	747844-3
	15	Male	A23281-ND*	2.24	1.87	747841-4
	15	Female	A23307-ND*	1.76	1.47	747845-4
	15	Male	A23280-ND‡	6.48	5.40	747841-3
	15	Female	A23306-ND‡	1.68	1.40	747845-3
	25	Male	A23285-ND*	3.91	3.26	747842-4
	25	Female	A23312-ND*	3.13	2.61	747846-4
	25	Male	A23284-ND‡	7.14	5.95	747842-3
	25	Female	A23311-ND‡	2.80	2.33	747846-3
	37	Male	A23289-ND*	4.38	3.65	747843-4
	37	Female	A23315-ND*	6.21	5.18	747847-4

Fig.	No. of Pos.	Sex	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
Steel, Tin Plated Shell, .318" (8.08mm) Mount, With Boardlocks, with Fixed Female Screwlocks						
1	9	Male	A23279-ND*	2.45	2.04	747840-6
	9	Female	A23305-ND*	2.07	1.73	747844-6
	9	Male	A23278-ND‡	5.97	4.98	747840-5
	9	Female	A23304-ND‡	2.13	1.78	747844-5
	15	Male	A23282-ND*	2.24	1.87	747841-6
	15	Female	A23309-ND*	7.83	6.53	747845-6
	15	Female	A23308-ND‡	6.36	5.30	747845-5
	25	Male	A23287-ND*	9.12	7.60	747842-6
	25	Female	A23314-ND*	3.70	3.09	747846-6
	25	Male	A23286-ND‡	7.14	5.95	747842-5
	25	Female	A23313-ND‡	2.59	2.16	747846-5
	37	Male	A23290-ND*	13.20	11.00	747843-6
	37	Female	A23316-ND*	6.21	5.18	747847-6
All-Plastic .318" (8.08mm) Mount, with Boardlocks, with Threaded Inserts						
1	25	Female	A23342-ND*	8.55	7.13	748901-1
All-Plastic .318" (8.08mm) Mount, with Boardlocks, with Fixed Female Screwlocks						
1	9	Female	A23343-ND*	8.64	7.20	748979-1
All-Plastic .318" (8.08mm) Mount, without Boardlocks, with Threaded Inserts						
1	9	Female	A23338-ND*	5.73	4.78	745394-2
All-Plastic .318" (8.08mm) Mount, without Boardlocks, with Fixed Female Screwlocks						
1	9	Female	A23339-ND*	6.42	5.35	745395-2
	15		A23340-ND*	7.26	6.05	745396-2
	25		A23341-ND*	9.33	7.78	745397-2
All-Plastic .318" (8.08mm) Mount, without Boardlocks, with Standard Mounting Holes						
1	9	Female	A23334-ND‡	5.28	4.40	745131-1
	25		A23335-ND*	11.82	9.85	745132-2
Steel, Tin Plated .590" (14.99mm) Mount, without Boardlocks, with Threaded Inserts						
1	9	Male	A2104-ND*	9.23	7.38	745990-4
	9	Female	A2108-ND*	13.33	10.66	745988-4
	15	Female	A2109-ND*	15.60	12.48	745984-4
	25	Male	A2106-ND*	16.53	13.22	745994-4
	25	Female	A23349-ND‡	17.70	14.75	745992-3
Steel, Tin Plated .590" (14.99mm) Mount, with Boardlocks, with Threaded Inserts						
1	9	Male	A23346-ND*	8.58	7.15	747832-4
	9	Female	A23351-ND*	7.35	6.13	747836-4
	9	Male	A23345-ND‡	14.37	11.98	747832-3
	15	Male	A2105-ND*	7.13	5.70	747833-4
	25	Male	A23348-ND*	5.16	4.30	747834-4
	25	Female	A23354-ND*	4.41	3.68	747838-4
	25	Female	A23353-ND‡	18.03	15.03	747838-3
	37	Male	A2107-ND*	8.23	6.58	747835-4
Steel, Tin Plated .590" (14.99mm) Mount, with Boardlocks, with Fixed Female Screwlocks						
1	9	Male	A23347-ND*	17.31	14.43	747832-6
	9	Female	A23352-ND*	7.23	6.03	747836-6
	25	Female	A23355-ND*	20.49	17.08	747838-6

Fig.	No. of Pos.	Sex	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
All-Plastic .590" (14.99mm) Mount, without Boardlocks, with Threaded Inserts						
1	9	Male	A23375-ND*	5.73	4.78	747467-4
	9	Female	A23359-ND*	6.60	5.50	747459-4
	9	Female	A23358-ND‡	6.45	5.38	747459-3
	15	Female	A23371-ND‡	5.85	4.88	747460-3
	25	Male	A23381-ND*	9.69	8.08	748873-1
	25	Female	A23366-ND‡	6.36	5.30	747461-3
All-Plastic .590" (14.99mm) Mount, without Boardlocks, with Fixed Female Screwlocks						
1	9	Female	A23370-ND*	12.81	10.68	747459-6
	9	Female	A23360-ND‡	6.12	5.10	747459-5
	15	Male	A23382-ND*	8.85	7.38	748952-1
	25	Female	A23368-ND*	7.89	6.58	747461-6
	25	Female	A23367-ND‡	7.38	6.15	747461-5
All-Plastic .590" (14.99mm) Mount, without Boardlocks, with Standard Mounting Holes						
1	9	Female	A23357-ND*	4.92	4.10	747459-2
	9	Male	A23373-ND‡	5.13	4.28	747467-1
	15	Male	A23376-ND*	5.58	4.65	747468-2
	25	Male	A23379-ND*	7.17	5.98	748826-1
	25	Female	A23365-ND*	5.91	4.93	747461-2
	25	Female	A23364-ND‡	5.55	4.63	747461-1
	37	Male	A23378-ND*	8.79	7.33	747470-2
	37	Female	A23369-ND*	8.52	7.10	747462-2
Steel, Tin Plated Shell, .454" (11.53mm) Mount						
2	9	Male	A23386-ND	18.60	15.50	745434-8
	25	Female	A23391-ND	26.82	22.35	745440-4
	37	Female	A23392-ND	31.44	26.20	745441-4
	37	Male	A23388-ND‡	29.19	24.33	745437-3
Zinc Plated Shell, .545" (13.84mm) Mount						
2	9	Female	A1021-ND	13.00	10.40	205866-1
	25	Male	A1024-ND*	19.20	15.36	205857-1
	25	Female	A1025-ND†	18.05	14.44	205858-1
	25	Female	A29094-ND‡	25.50	21.25	205858-2
	37	Male	A1026-ND†	19.88	15.90	205859-1
	37	Female	A1027-ND	24.90	19.92	205860-1
Steel, Tin Plated Shell, .545" (13.84mm) Mount, with Standard Mounting Screws						
2	15	Female	A23399-ND	18.96	15.80	745113-2
	37	Male	A23394-ND	30.90	25.75	745354-4
	50	Male	A23395-ND	32.82	27.35	745355-4
	50	Female	A23404-ND	35.25	29.38	745116-2
Steel, Tin Plated Shell, .545" (13.84mm) Mount, with Female Screwlocks						
2	9	Male	A23397-ND	29.31	24.43	747197-4
	9	Female	A23406-ND	23.13	19.28	747020-2
	25	Male	A23396-ND	25.38	21.15	747022-2
	25	Female	A23405-ND	24.54	20.45	745536-2
	50	Male	A23398-ND	35.52	29.60	747497-4
	50	Female	A23409-ND	36.69	30.58	747193-2
	50	Female	A23408-ND‡	34.38	28.65	747193-1

* 30µ Gold † Tin shell ‡ Gold flash on mating end

SCSI Terminators

SCSI TYPES:

Single-Ended: Allows up to 5 megabytes per second **A. Passive:** 220/330Ω; for lower data transmission rates • Termination of each signal consists of 220Ω to Term Power Line and 330Ω to ground • 36 resistors • Ideal impedance match, 132Ω **B. Active:** Also referred to as "Regulated" or "Boulay." These terminators include a voltage regulator along with resistors and capacitors. They support applications requiring longer cable lengths and faster data transmission rates. • Eighteen 110Ω resistors • Three or more capacitors • Two voltage reference resistors • One voltage regulator

Differential: Allows up to 10 megabytes per second, cable lengths up to 25 meters • Requires more powerful drivers than single-ended • Ideal impedance match, 122Ω

Force Perfect: Use with near non-SCSI applications wherein the larger bandwidth and faster risetimes create special problems; compensates for variances by averaging the impedance mismatches through diode switching and biasing techniques. Circuitry: Thick film resistors and/or discreet components on aluminum substrate or plastic laminate

Active Negation: Used by SCSI-2 and SCSI-3 Drivers and Receivers in single ended active applications to help ensure clean, noise-free transitions of the signals. These terminators can source as well as sink current, thereby maintaining voltage control.

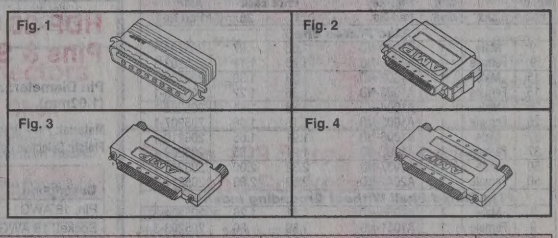


Fig.	No. of Pos.	Description	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
Single Ended Passive						
1	50	CHAMP® Style Plug, Mate with .085" (2.16mm) Center-Line SCSI-1	A15032-ND	36.61	29.61	556578-1
2	50	AMPLIMITE® .050" (1.27mm) Series Plug; "A" Cable SCSI-2, Low Profile, ABS	A15036-ND	32.60	29.19	750881-1
2	50	AMPLIMITE® .050" (1.27mm) Series Plug; "A" Cable SCSI-2, Zinc	A23538-ND	45.80	37.04	749535-2
Single Ended Active						
2	50	AMPLIMITE® .050" (1.27mm) Series Plug; "A" Cable SCSI-2, Low Profile, ABS	A15037-ND	52.03	46.59	869546-1
4	68	Plug Feed-Thru to 68 Position Receptacle	A15043-ND	87.40	70.67	869684-1

Fig.	No. of Pos.	Description	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
Differential						
2	50	AMPLIMITE® .050" (1.27mm) Series Plug; "A" Cable SCSI-2	A15038-ND	57.58	46.55	869545-1
3	68	AMPLIMITE® .050" (1.27mm) Series Plug; "P&Q" Cable SCSI-3	A15040-ND	39.98	35.80	869515-1
2	50	AMPLIMITE® .050" (1.27mm) Series Plug; "A" Cable SCSI-2	A23539-ND	57.72	46.67	749541-1
3	68	AMPLIMITE® .050" (1.27mm) Series Plug; "P&Q" Cable SCSI-2	A23542-ND	45.94	37.15	750897-1
Force Perfect						
3	68	.050" (1.27mm) Series Plug	A23541-ND	46.77	37.81	869867-1
Active Negation Compatible						
3	68	.050" (1.27mm) Center-Line Ribbon Cable SCSI-3	A24211-ND	44.11	35.67	869725-1

tyco Electronics AMP

HDP-20 Pins and Sockets

Crimp Type Pin Dia.: .040" (1.02mm)

Material: Pin: Brass – Phosphor bronze per QQ-B-750 **Plated: A:** Select – Gold flash over nickel on entire contact, with additional 30µ gold on mating end; **B:** Duplex – 30µ gold on mating end, tin-lead on termination end, with entire contact nickel underplated; **C:** Gold flash over nickel on entire contact; **D:** Duplex – Gold flash on mating end, tin-lead on termination end, with entire contact nickel underplated

Without Insulation Support: Pin, Socket

With Insulation Support: Pin, Socket

Desc.	AWG	Ins. Dia. in. (mm)	Cont. Fin.	Digi-Key Part No.	Loose Piece Price Each 10	100	AMP Part No.	Digi-Key Part No.	Cut Strip Pricing 100	500	Digi-Key Part No.	Strip Tape & Reel Size	Pricing	AMP Part No.
With Insulation Support														
Pin	28-24	.040 (1.02)	A	A1630-ND	.21	.15	66507-9	A1630CT-ND	12.45	51.86	A1630TR-ND	10,000	56.02/M	66507-3
Socket	28-24	.040 (1.02)	A	A1632-ND	.23	.17	66505-9	A1632CT-ND	11.32	47.16	A1632TR-ND	10,000	50.94/M	66505-3
Pin	28-24	.040 (1.02)	B	A23039-ND	.19	.14	5-66507-7	A23039CT-ND	7.75	32.28	A23039TR-ND	10,000	34.86/M	3-66507-0
Socket	28-24	.040 (1.02)	B	—	—	—	—	A23024CT-ND	10.14	42.24	A23024TR-ND	10,000	45.62/M	6-66505-0
Pin	28-24	.040 (1.02)	C	A23004-ND	.19	.14	1-66507-0	A23004CT-ND	10.34	43.09	A23004TR-ND	10,000	46.54/M	66507-4
Socket	28-24	.040 (1.02)	C	A23003-ND	.22	.15	1-66505-0	A23003CT-ND	14.15	58.95	A23003TR-ND	10,000	63.67/M	66505-4
Pin	28-24	.040 (1.02)	D	—	—	—	—	A25000CT-ND	6.49	27.03	A25000TR-ND	10,000	29.19/M	3-66507-1
Socket	28-24	.040 (1.02)	D	—	—	—	—	A23040CT-ND	10.34	43.09	A23040TR-ND	10,000	46.54/M	5-66505-7
Pin	28-24	.060 (1.52)	A	—	—	—	—	A23027CT-ND	8.49	35.36	A23027TR-ND	10,000	38.20/M	66682-2
Socket	28-24	.060 (1.52)	A	A23031-ND	.24	.17	66683-4	A23031CT-ND	16.03	66.80	A23031TR-ND	10,000	72.15/M	66683-2
Pin	28-24	.060 (1.52)	B	—	—	—	—	A23029CT-ND	12.95	53.95	A23029TR-ND	10,000	58.27/M	66682-9
Socket	28-24	.060 (1.52)	B	—	—	—	—	A23005CT-ND	18.85	78.54	A23005TR-ND	10,000	84.83/M	1-66683-0
Pin	28-24	.060 (1.52)	D	—	—	—	—	A23028CT-ND	11.15	46.44	A23028TR-ND	10,000	50.16/M	66682-6
Socket	28-24	.060 (1.52)	D	—	—	—	—	A23053CT-ND	13.57	56.53	A23053TR-ND	10,000	61.05/M	66683-7
Pin	26-22	.050 (1.27)	A	A24209-ND	.22	.15	745254-6	A24209CT-ND	13.24	55.18	A24209TR-ND	10,000	59.59/M	745254-2
Socket	26-22	.050 (1.27)	A	A23722-ND	.23	.17	745253-6	A23722CT-ND	18.82	78.43	A23722TR-ND	10,000	84.70/M	745253-2
Pin	26-22	.050 (1.27)	B	—	—	—	—	A23015CT-ND	22.52	93.85	A23015TR-ND	10,000	101.36/M	1-745254-4
Socket	26-22	.050 (1.27)	B	—	—	—	—	A23011CT-ND	17.64	73.49	A23011TR-ND	10,000	79.37/M	1-745253-4
Socket	26-22	.050 (1.27)	C	—	—	—	—	A23036CT-ND	19.25	80.19	A23036TR-ND	10,000	86.61/M	745253-3
Pin	26-22	.050 (1.27)	D	A23013-ND	.18	.12	1-745254-3	A23013CT-ND	11.15	46.44	A23013TR-ND	10,000	50.16/M	1-745254-1
Socket	26-22	.050 (1.27)	D	—	—	—	—	A23008CT-ND	18.79	78.28	A23008TR-ND	10,000	84.54/M	1-745253-1
Pin	24-20	.060 (1.52)	A	A1679-ND	.19	.17	66506-9	A1679CT-ND	8.42	35.06	A1679TR-ND	10,000	37.87/M	66506-3
Socket	24-20	.060 (1.52)	A	A1680-ND	.20	.18	66504-9	A1680CT-ND	13.02	54.24	A1680TR-ND	10,000	58.58/M	66504-3
Pin	24-20	.060 (1.52)	B	A23042-ND	.19	.14	5-66506-7	A23042CT-ND	7.46	31.09	A23042TR-ND	10,000	33.58/M	2-66506-4
Socket	24-20	.060 (1.52)	B	A23023-ND	.21	.15	6-66504-0	A23023CT-ND	8.52	35.49	A23023TR-ND	10,000	38.33/M	5-66504-9
Pin	24-20	.060 (1.52)	C	A1008-ND	.19	.17	1-66506-0	A1008CT-ND	12.41	51.70	A1008TR-ND	10,000	55.84/M	66506-4
Socket	24-20	.060 (1.52)	C	A1009-ND	.21	.18	1-66504-0	A1009CT-ND	8.00	33.33	A1009TR-ND	10,000	36.00/M	66504-4
Pin	24-20	.060 (1.52)	D	—	—	—	—	A23043CT-ND	7.03	29.30	A23043TR-ND	10,000	31.65/M	2-66506-5
Socket	24-20	.060 (1.52)	D	—	—	—	—	A23606CT-ND	7.71	32.11	A23606TR-ND	10,000	34.69/M	5-66504-6

Desc.	AWG	Ins. Dia. in. (mm)	Cont. Fin.	Digi-Key Part No.	Cut Strip Pricing 100	500	Digi-Key Part No.	Strip Tape & Reel Size	Pricing	AMP Part No.
Without Insulation Support										
Socket	28-24	.068 (1.73)	A	A23055CT-ND	33.12	138.00	A23055TR-ND	10,000	149.04/M	205311-3
Pin	24-20	.068 (1.73)	A	A23017CT-ND	15.82	65.93	A23017TR-ND	10,000	71.20/M	205202-2
Socket	24-20	.068 (1.73)	C	A5805CT-ND	18.94	78.90	A5805TR-ND	10,000	85.22/M	205201-6
Pin	22-18	.068 (1.73)	A	A5802CT-ND	15.82	65.93	A5802TR-ND	10,000	71.20/M	745229-2
Socket	22-18	.068 (1.73)	A	A5804CT-ND	14.19	59.14	A5804TR-ND	10,000	63.87/M	745230-2
Pin	22-18	.068 (1.73)	B	A5801CT-ND	12.16	50.65	A5801TR-ND	10,000	54.71/M	1-745229-1
Socket	22-18	.068 (1.73)	B	A23007CT-ND	19.02	79.25	A23007TR-ND	10,000	85.59/M	1-745230-1

Description	Digi-Key Part No.	Price Each	AMP Part No.
Crimp Tool for D-Sub Contacts w/Die	A9990-ND	145.50	58448-2
Die Set for D-Sub Contacts, use w/A9996	A9814-ND	111.00	58448-3
Pro-Crimper II Hand Tool w/o Die	A9996-ND	66.00	354940-1
Pin Insertion/Extraction Tool for Snap-In Contacts	A1010-ND	6.82	91067-2

AMPLIMITE® D-Sub Connectors

HDP-20 Zinc and Tin Plated Metal Shell

Crimp Type Pins and Sockets Sold Separately

Female

Male

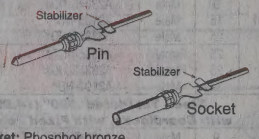
Material and Finish: Shell: Steel, zinc or tin plated **Insert:** 94V-0 rated thermoplastic, black **Mounting Holes: Standard:** .120" (3.05mm) Dia. **Clinch Nut:** 4-40 threads with self-locking feature

Mounting Method: 1: Standard; **2:** Clinch Nut

No. of Pos.	Sex	Mtg. Meth.	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Zinc Plated Shell						
9	Male	1	A1000-ND	1.08	.97	205204-1
9	Female	1	A1001-ND	1.23	1.11	205203-1
15	Male	1	A1002-ND	1.53	1.38	205206-1
15	Female	1	A1003-ND	1.36	1.22	205205-1
25	Male	1	A1004-ND	1.38	1.24	205208-1
25	Female	1	A1005-ND	1.18	1.06	205207-1
37	Male	1	A1006-ND	1.91	1.65	205210-1
37	Female	1	A1007-ND	1.91	1.65	205209-1
50	Male	1	A2037-ND	2.32	2.00	205212-1
50	Female	1	A2041-ND	2.32	2.00	205211-1
Tin Plated Shell Without Grounding Indents						
9	Male	1	A1030-ND	1.41	1.26	205204-3
9	Female	1	A1031-ND	.89	.80	205203-3
9	Female	2	A23416-ND	4.26	3.55	745907-1
15	Male	1	A1032-ND	1.65	1.43	205206-2
15	Female	1	A1033-ND	.97	.87	205205-2
15	Female	2	A23417-ND	4.11	3.43	745909-1
25	Male	1	A1034-ND	1.03	.89	207464-1
25	Female	1	A1035-ND	1.12	1.00	207463-1
25	Female	2	A23411-ND	4.06	3.38	207516-3
37	Male	1	A1036-ND	1.91	1.65	205210-2
37	Female	1	A1037-ND	1.34	1.20	205209-2
37	Female	2	A23412-ND	5.85	4.88	207661-3
50	Male	1	A2038-ND	5.19	4.48	205212-2
50	Female	1	A2042-ND	2.32	2.00	205211-2
Tin Plated Shell With Grounding Indents						
9	Male	1	A1038-ND	.94	.84	205204-4
9	Male	2	A23415-ND	3.97	3.32	745906-2
15	Male	1	A1039-ND	1.12	1.00	205206-3
25	Male	1	A1040-ND	.98	.88	207464-2
25	Male	2	A23413-ND	5.31	4.43	745036-2
37	Male	2	A23414-ND	5.37	4.48	745135-2
37	Male	1	A1041-ND	1.88	1.69	205210-3
50	Male	1	A2039-ND	1.97	1.77	205212-3

HDP-20 Solder Post Pins & Sockets

.025" (0.64mm) Square Posted, Snap-In, Precision Formed Pin Dia.: .040" (1.02mm)



Material: Pin: Brass **Socket:** Phosphor bronze

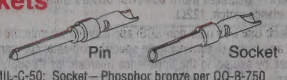
Plated: A: Duplex plated 30µ gold on mating end with entire contact 50µ min. nickel underplated; **B:** Duplex plated gold flash on mating end with entire contact 50µ min. nickel underplated

Desc.	Cont. Fin.	Post Length*	Digi-Key Part No.	Price Each 10	100	AMP Part No.
Socket	A	.125" (3.18mm)	A23048-ND	.53	.37	745288-4
Pin	A	.427" (10.85mm)	A23058-ND	.34	.24	745287-8
Socket	A	.427" (10.85mm)	A23050-ND	.39	.27	745288-8
Socket	B	.427" (10.85mm)	A23049-ND	.61	.43	745288-6
Pin	A	.651" (16.54mm)	A23059-ND	.37	.26	1-745287-2
Socket	A	.651" (16.54mm)	A23046-ND	.68	.48	1-745288-2

* Length of post extending from rear of HDP-20 metal-shell Connector.

HDP-20 Solder Cup Type Pins & Sockets

Pin Diameter: .040" (1.02mm)

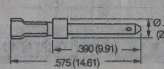


Material: Pin – Brass per MIL-C-50; Socket – Phosphor bronze per QQ-B-750

Finish: Selective gold, 30µ gold over 30µ nickel

Description	Digi-Key Part No.	Price Each 10	100	AMP Part No.
Pin, 18 AWG	A1028-ND	.26	.16	66570-3
Socket, 18 AWG	A1029-ND	.31	.28	66569-3
Pin Insertion/Extraction Tool for Snap-In Contacts	A1010-ND	6.82/1		91067-2

HDP-20 Front Connector Pins



Precision Formed

AWG	Ins. Dia. in. (mm)	Amp Part No.
24-20	.060 (1.52)	6-66506-2

Material: Brass **Finish:** Duplex plated 10µ min. gold in the mating area, 30µ min. tin in the termination area, all over 30µ min. nickel underplating

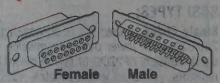
Digi-Key Part No.	Cut Strip Pricing 100	500	Strip Tape & Reel* Size	Pricing	AMP Part No.
A23051CT-ND	5.44	22.65	10,000	24.47/M	6-66506-2

*For Tape and Reel part number, change "CT" to "TR".

HD-20 Solder Cup

Connector comes complete with pins and sockets.

Accepts 20 AWG or smaller solid or stranded wire.

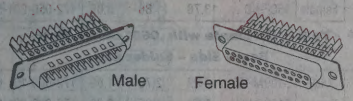

Female Male

Material and Finish: Shell: Steel, tin or zinc plated **Insert:** 94V-0 rated thermoplastic, black **Contacts:** Phosphor bronze; duplex plated with gold flash on mating end, tin-lead on solder cup, with entire contact nickel underplated

No. of Pos.	Sex	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Tin Plated Shell					
9	Male	A2043-ND	1.85	1.66	747904-2
9	Female	A2047-ND	2.54	2.27	747905-2
15	Male	A2044-ND	3.02	2.71	747908-2
15	Female	A2048-ND	3.25	2.80	747909-2
25	Male	A2045-ND	3.54	3.18	747912-2
25	Female	A2049-ND	4.45	3.99	747913-2
37	Male	A2046-ND	5.10	4.40	747916-2
37	Female	A2050-ND	6.24	5.38	747917-2
Zinc Plated Shell					
9	Male	A23108-ND	1.86	1.55	747904-4
9	Female	A23109-ND	2.49	2.08	747905-4
15	Male	A23110-ND	2.49	2.08	747908-4
25	Male	A23111-ND	3.48	2.90	747912-4
25	Female	A23112-ND	4.56	3.80	747913-4
37	Male	A23113-ND	5.28	4.40	747916-4

tyco Electronics AMP

AMPLIMITE®
D-Sub Connectors
HDE-20 IDC Discrete Wire Type, Metal/Plastic Shell



Material and Finish: Metal Shell: Steel, tin plated **Insert:** 94V-0 rated thermoplastic, black **Contacts:** Phosphor bronze
Plastic Housing: 94V-0 rated thermoplastic, black **Contacts:** Phosphor bronze
Contact Finish: Duplex plated; **A:** 30µ gold on mating end, tin-lead on termination end, with entire contact nickel underplated; **B:** Gold flash on mating end, tin-lead on termination end, with entire contact nickel underplated; **C:** 50µ gold on mating end

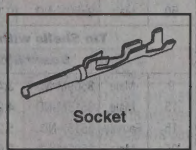
No. of Pos.	Sex	Cont. Fin.	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
			Metal Shell for 30-26 AWG Wire			
9	Male	A	A23081-ND	3.00	2.50	745492-1
9	Female	A	A23095-ND	3.78	3.15	745491-1
15	Male	A	A23085-ND	5.19	4.33	745494-1
15	Female	A	A23099-ND	8.58	7.15	745493-1
25	Male	A	A23088-ND	5.19	4.33	745496-1
25	Female	A	A23101-ND	6.96	5.80	745495-1
37	Male	A	A23093-ND	9.63	8.03	745498-1
37	Female	A	A23105-ND	8.91	7.43	745497-1
			Metal Shell for 26-22 AWG Wire			
9	Male	A	A1042-ND	3.32	2.98	745492-2
9	Female	A	A1043-ND	3.28	2.94	745491-2
9	Male	B	A23083-ND	2.76	2.30	745492-5
9	Female	B	A23097-ND	3.57	2.98	745491-5
15	Male	A	A1044-ND	4.52	4.04	745494-2
15	Female	A	A1045-ND	4.52	4.04	745493-2
15	Male	B	A23086-ND	4.17	3.48	745494-5
15	Female	B	A23100-ND	4.59	3.83	745493-5
25	Female	A	A1047-ND	7.22	6.47	745495-2
25	Male	B	A23091-ND	4.92	4.10	745496-5
25	Female	B	A23103-ND*	6.66	5.55	745495-5
37	Male	A	A1048-ND	7.25	6.49	745498-2
37	Female	A	A1049-ND	7.92	6.83	745497-2
			Metal Shell for 22-20 AWG Wire			
9	Male	A	A23082-ND	3.69	3.08	745492-3
9	Female	A	A23096-ND	4.14	3.45	745491-3
			Plastic Shell for 26-22 AWG Wire			
9	Male	A	A2000-ND	3.07	2.75	745203-2
9	Female	A	A2001-ND	3.10	2.68	745201-2
15	Male	A	A2002-ND	6.09	5.25	745207-2
15	Female	A	A2003-ND	4.06	3.50	745205-2
25	Female	A	A2005-ND	5.77	4.98	745209-2
37	Male	A	A2006-ND	7.19	6.20	745215-2

* 20µ gold on mating end

Description	Digi-Key Part No.	Price Each	AMP Part No.
Manual Pistol Grip Tool for Metal and All-Plastic Shell Connectors	A2031-ND	55.50	58074-1
Head Assembly Tool for D-Sub IDC Connectors	A2032-ND	175.56	58063-2

HDE-20 Socket
Interchangeable Contacts, Crimp Snap-In Precision Formed

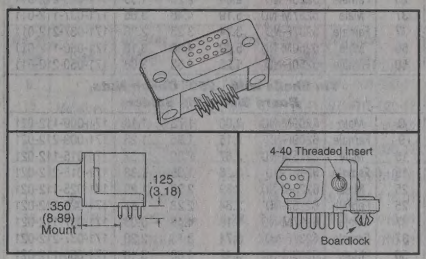
Material: Phosphor bronze
Finish: Duplex plated 30µ gold on mating end, tin-lead on termination end, with entire contact nickel underplated
Wire Size: 22-18 AWG
Insulation Diameter: Single Wire: .075" (1.91mm), Two Wire: .054" (1.37mm)



Desc.	Digi-Key Part No.	Cut Strip Pricing 100	Cut Strip Pricing 500	AMP Part No.
Socket	A23002CT-ND	86.64	360.99	745270-2
	A23002TR-ND	3898.67/10,000		745270-2

High Density D-Sub Connectors
HD-22 Right Angle

ELECTRICAL CHARACTERISTICS: • Single Contact Current Rating: 2.0 amperes **• Dielectric Withstanding Voltage:** 1000VAC min.
MATERIAL AND FINISH: • Front Shell: Steel, tin plated **• Housing:** 94 V-0 rated **• Socket Contacts:** Phosphor bronze **• Contact Finish:** Duplex Plated: 30µ gold mating end, tin-lead on termination end, with entire contact nickel underplated

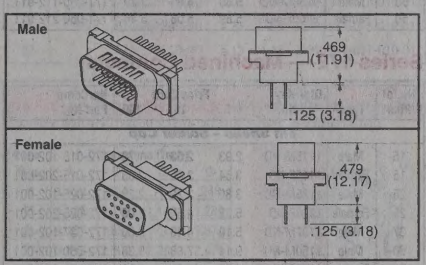


No. of Pos.	Sex	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
		Threaded Inserts With Boardlocks			
26	Female	A2092-ND	3.86	3.33	748481-5
44	Female	A2093-ND	4.81	4.15	748482-5
62	Female	A2094-ND	19.37	16.70	748394-5
78	Female	A23067-ND	19.56	16.30	748483-5
15	Male	A23070-ND	3.78	3.15	749767-1
62	Male	A23069-ND	15.03	12.53	749639-1
		Screwlocks With Boardlocks			
26	Female	A23066-ND	11.04	9.20	748481-6
62	Female	A23065-ND	17.43	14.53	748394-6
		Threaded Inserts Without Boardlocks			
26	Female	A23063-ND*	13.29	11.08	1-748481-9

* .125" (3.18mm) diameter holes

HD-22 Front Metal-Shell Straight Posted

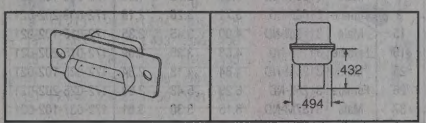
• Shell: steel, tin plated **• Housing:** 94V-O rated thermoplastic, black **• Pin Contacts (Posted) Brass:** .30µ gold on mating end, tin-lead, with entire contact 50µ min. nickel underplated



No. of Pos.	Sex	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
		4-40 Threaded Inserts			
15	Male	A23071-ND	13.71	11.43	749798-1
26	Female	A23073-ND	17.52	14.60	749030-1
62	Female	A23072-ND	26.73	22.28	747786-6

High Density D-Sub Connectors
HDP-22 Crimp Type Tin Plated Shell

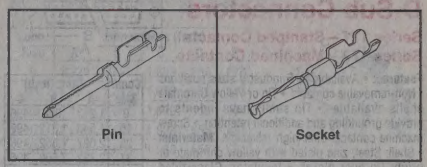
ELECTRICAL CHARACTERISTICS: • Contact Rating: 5.0 amperes **• Dielectric Strength:** 1000 VAC min. **• Insulation Resistance:** 5000 megohms min.
MECHANICAL CHARACTERISTICS: • Contact Insertion Force: 3 lbs. max. **• Durability:** 30µ gold – 500 cycles; Gold Flash - 100 cycles



No. of Pos.	Sex	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
15	Male	A2076-ND	2.64	2.36	748364-1
15	Female	A2081-ND	2.85	2.56	748565-1
26	Male	A2077-ND	5.30	4.75	748365-1
26	Female	A2082-ND	5.92	5.30	748566-1
44	Male	A2078-ND	5.92	5.30	748366-1
44	Female	A2083-ND	6.67	5.75	748567-1
62	Male	A2079-ND	5.69	5.10	748367-1
62	Female	A2084-ND	7.98	6.88	748568-1
78	Male	A2080-ND	6.60	5.91	748368-1
78	Female	A2085-ND	8.15	7.03	748569-1

HDP-22 Pins and Sockets

CRIMP TYPE Pin Diameter: .030" (.76mm)



Material: Pin – Brass **Socket** – Phosphor bronze **Finish: 30µ Gold** – Duplex plated 30µ gold on mating end, tin-lead on crimp barrel, with entire contact nickel underplated **Gold Flash** – Duplex plated gold flash on mating end, tin-lead on crimp barrel, with entire contact nickel underplated

Description	Digi-Key Part No.	Price Each 10	Price Each 100	AMP Part No.
Pin (22-28 AWG), 30µ Gold	A2088-ND	.15	.10	748333-4
Socket (22-28 AWG), 30µ Gold	A2089-ND	.18	.11	748610-4
Pin (22-28 AWG), Gold Flash	A2086-ND	.13	.08	748333-7
Socket (22-28 AWG), Gold Flash	A2090-ND	.20	.13	748610-7

Description	Digi-Key Part No.	Cut Strip Pricing 100	Cut Strip Pricing 500	AMP Part No.
Socket (22-28 AWG), Gold Flash	A2090CT-ND	13.93	58.05	748610-5
Socket (22-28 AWG), Gold Flash	A2090TR-ND	1253.88/20,000		748610-5

Description	Digi-Key Part No.	Price Each	AMP Part No.
Insertion/Extraction Tool for High Density D-Sub Crimp Contacts	A9979-ND	14.63	91285-1
Crimp Tool for High Density D-Sub w/Die	A9815-ND	174.75	90800-1
Pro-Crimper II Hand Tool w/o Die Crimp Tool for High Density	A9996-ND	66.00	354940-1

Series 109 Connectors for Crimp, Snap-In Contacts

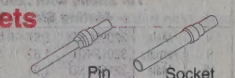
(Per MIL-C-24308 Qualified Connectors)

Class G steel shell has cadmium plating per ASTM-B633.
Pins and Sockets Sold Separately
Only use sockets for Series 109 Connectors

No. of Pos.	Sex	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
		Crimp Type			
9	Male	A2150-ND	3.83	3.30	205162-1
9	Female	A2155-ND	3.83	3.30	205161-1
15	Male	A2151-ND	4.47	3.85	205164-1
15	Female	A2156-ND	4.47	3.85	205163-1
25	Male	A2152-ND	4.81	4.15	205166-1
25	Female	A2157-ND	4.81	4.15	205165-1
37	Male	A2153-ND	6.26	5.40	205168-1
37	Female	A2158-ND	6.26	5.40	205167-1
50	Male	A2154-ND	7.71	6.65	205170-1
50	Female	A2159-ND	7.71	6.65	205169-1

Series 109 Screw-Machined Pins and Sockets

CRIMP TYPE
Pin Diameter: .040" (1.02mm)



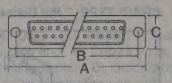
MATERIAL: • Pin Body – Copper Alloy **• Socket Body** – Beryllium Copper **• Finish:** 50µ Gold **• Contact Size:** 20 DM **• Pin Diameter:** .040" (1.02mm) **• Test Current:** 7.5 amperes

Description	Digi-Key Part No.	Price Each 10	Price Each 100	AMP Part No.
	50µ Gold			
Pin (24-20 AWG)	A2160-ND	1.06	.65	205089-1
Socket (24-20 AWG)	A2161-ND	1.58	.97	205090-1

Description	Digi-Key Part No.	Price Each	AMP Part No.
Insertion/Extraction Tool for Series 109 D-Sub Crimp Contacts	A9979-ND	14.63	91285-1
Hand Crimping Tool for Screw-Machined Contacts (20DM)	A9977-ND	551.95	601966-1
Positioner (Use with A9977-ND)	A9797-ND	156.00	601966-5

NORCOMP

D-Sub Connectors

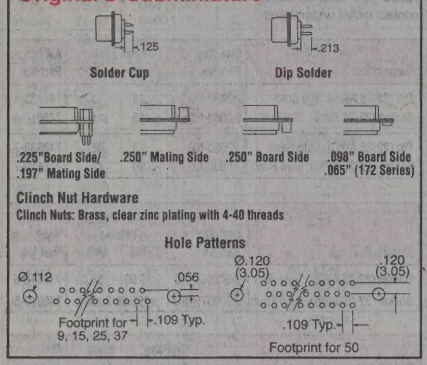


Series 171 – Stamped Contacts
Series 172 – Machined Contacts

Features: • Available in 5 industry sizes/positions • Non-removable contacts • Tin or Yellow Chromate shells available • Tin shells have indents to provide grounding and additional retention • Screw machine contacts offer high reliability. **Materials:** • Shell: Steel, zinc plated with yellow chromate or bright tin over nickel • Insulator: Glass-filled thermoplastic, UL rated 94V-0 • Contacts: Brass male pins; Phosphor bronze female pins • Plating: Gold flash on entire contact

Conn. Size	Dim. (Inch) A	B	C
9	1.213	.984	.496
15	1.543	1.312	.496
25	2.087	1.852	.496
37	2.732	2.500	.496
50	2.638	2.406	.606

Original D-Subminiature



Clinch Nut Hardware
Clinch Nuts: Brass, clear zinc plating with 4-40 threads

Hole Patterns

Series 171 — Stamped Contacts

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
Tin Shells – Solder Cup						
9	Male	209M-ND	.63	.55	.38	171-009-102-001
9	Female	209F-ND	.67	.58	.40	171-009-202-001
15	Male	215M-ND	.92	.79	.54	171-015-102-001
15	Female	215F-ND	1.13	.98	.67	171-015-202-001
25	Male	225M-ND	1.08	.93	.64	171-025-102-001
25	Female	225F-ND	1.26	1.09	.75	171-025-202-001
37	Male	237M-ND	1.94	1.68	1.14	171-037-102-001
37	Female	237F-ND	2.29	1.98	1.35	171-037-202-001
50	Male	250M-ND	4.07	3.51	2.39	171-050-102-001
50	Female	250F-ND	4.42	3.81	2.60	171-050-202-001
Tin Shells with .098" Clinch Nuts, Board Side – Solder Cup						
9	Male	1209M-ND	1.57	1.35	.92	171-009-102-011
9	Female	1209F-ND	1.62	1.40	.96	171-009-202-011
15	Male	1215M-ND	1.91	1.65	1.13	171-015-102-011
15	Female	1215F-ND	2.15	1.85	1.26	171-015-202-011
25	Male	1225M-ND	2.09	1.80	1.23	171-025-102-011
25	Female	1225F-ND	2.32	2.00	1.36	171-025-202-011
37	Male	1237M-ND	3.05	2.63	1.79	171-037-102-011
37	Female	1237F-ND	3.48	3.00	2.04	171-037-202-011
50	Male	1250M-ND	5.42	4.68	3.18	171-050-102-011
50	Female	1250F-ND	5.83	5.03	3.42	171-050-202-011
Tin Shells with .250" Clinch Nuts, Board Side – Solder Cup						
9	Male	2209M-ND	1.57	1.35	.92	171-009-102-021
9	Female	2209F-ND	1.62	1.40	.96	171-009-202-021
15	Male	2215M-ND	1.91	1.65	1.13	171-015-102-021
15	Female	2215F-ND	2.15	1.85	1.26	171-015-202-021
25	Male	2225M-ND	2.09	1.80	1.23	171-025-102-021
25	Female	2225F-ND	2.32	2.00	1.36	171-025-202-021
37	Male	2237M-ND	3.05	2.63	1.79	171-037-102-021
37	Female	2237F-ND	3.48	3.00	2.04	171-037-202-021
50	Male	2250M-ND	5.42	4.68	3.18	171-050-102-021
50	Female	2250F-ND	5.83	5.03	3.42	171-050-202-021
Tin Shells with .250" Clinch Nuts, Mating Side – Solder Cup						
9	Male	3209M-ND	1.57	1.35	.92	171-009-102-031
9	Female	3209F-ND	1.62	1.40	.96	171-009-202-031
15	Male	3215M-ND	1.91	1.65	1.13	171-015-102-031
15	Female	3215F-ND	2.15	1.85	1.26	171-015-202-031
25	Male	3225M-ND	2.09	1.80	1.23	171-025-102-031
25	Female	3225F-ND	2.32	2.00	1.36	171-025-202-031
37	Male	3237M-ND	3.05	2.63	1.79	171-037-102-031
37	Female	3237F-ND	3.48	3.00	2.04	171-037-202-031
50	Male	3250M-ND	5.42	4.68	3.18	171-050-102-031
50	Female	3250F-ND	5.83	5.03	3.42	171-050-202-031
Tin Shells – Dip Solder						
9	Male	4209M-ND	1.13	.98	.67	171-009-112-001
9	Female	4209F-ND	1.28	1.10	.75	171-009-212-001
15	Male	4215M-ND	1.80	1.55	1.06	171-015-112-001
15	Female	4215F-ND	1.39	1.20	.82	171-015-212-001
25	Male	4225M-ND	2.52	2.18	1.48	171-025-112-001
25	Female	4225F-ND	1.77	1.53	1.04	171-025-212-001
37	Male	4237M-ND	4.32	3.73	2.54	171-037-112-001
37	Female	4237F-ND	2.87	2.48	1.69	171-037-212-001
50	Male	4250M-ND	4.55	3.93	2.67	171-050-112-001
50	Female	4250F-ND	4.38	3.78	2.57	171-050-212-001
Tin Shells with .098" Clinch Nuts, Board Side – Dip Solder						
9	Male	5209M-ND	2.00	1.73	1.18	171-009-112-011
9	Female	5209F-ND	2.15	1.85	1.26	171-009-212-011
15	Male	5215M-ND	2.67	2.30	1.57	171-015-112-011
15	Female	5215F-ND	2.26	1.95	1.33	171-015-212-011
25	Male	5225M-ND	3.39	2.93	1.99	171-025-112-011
25	Female	5225F-ND	2.64	2.28	1.55	171-025-212-011
37	Male	5237M-ND	5.19	4.48	3.05	171-037-112-011
37	Female	5237F-ND	3.74	3.23	2.20	171-037-212-011
50	Male	5250M-ND	5.42	4.68	3.18	171-050-112-011
50	Female	5250F-ND	5.25	4.53	3.08	171-050-212-011
Tin Shells with .250" Clinch Nuts, Board Side – Dip Solder						
9	Male	6209M-ND	2.00	1.73	1.18	171-009-112-021
9	Female	6209F-ND	2.15	1.85	1.26	171-009-212-021
15	Male	6215M-ND	2.67	2.30	1.57	171-015-112-021
15	Female	6215F-ND	2.26	1.95	1.33	171-015-212-021
25	Male	6225M-ND	3.39	2.93	1.99	171-025-112-021
25	Female	6225F-ND	2.64	2.28	1.55	171-025-212-021
37	Male	6237M-ND	5.19	4.48	3.05	171-037-112-021
37	Female	6237F-ND	3.74	3.23	2.20	171-037-212-021
50	Male	6250M-ND	5.42	4.68	3.18	171-050-112-021
50	Female	6250F-ND	5.25	4.53	3.08	171-050-212-021
Tin Shells with .250" Clinch Nuts, Mating Side – Dip Solder						
9	Male	7209M-ND	2.00	1.73	1.18	171-009-112-031
9	Female	7209F-ND	2.15	1.85	1.26	171-009-212-031
15	Male	7215M-ND	2.67	2.30	1.57	171-015-112-031
15	Female	7215F-ND	2.26	1.95	1.33	171-015-212-031
25	Male	7225M-ND	3.39	2.93	1.99	171-025-112-031
25	Female	7225F-ND	2.64	2.28	1.55	171-025-212-031
37	Male	7237M-ND	5.19	4.48	3.05	171-037-112-031
37	Female	7237F-ND	3.74	3.23	2.20	171-037-212-031
50	Male	7250M-ND	5.42	4.68	3.18	171-050-112-031
50	Female	7250F-ND	5.25	4.53	3.08	171-050-212-031
Tin Shells with .225 Spacer/Board Lock – Dip Solder						
9	Male	9209M-ND	2.09	1.80	1.23	171-009-112-911
9	Female	9209F-ND	2.61	2.25	1.53	171-009-212-911
15	Male	9215M-ND	3.10	2.68	1.82	171-015-112-911
15	Female	9215F-ND	3.25	2.80	1.91	171-015-212-911
25	Male	9225M-ND	3.31	2.85	1.94	171-025-112-911
25	Female	9225F-ND	3.42	2.95	2.01	171-025-212-911
37	Male	9237M-ND	4.38	3.78	2.57	171-037-112-911
37	Female	9237F-ND	4.73	4.08	2.78	171-037-212-911
50	Male	9250M-ND	5.60	4.83	3.29	171-050-112-911
50	Female	9250F-ND	5.89	5.08	3.46	171-050-212-911

Series 172 — Machined Contacts

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
Tin Shells – Solder Cup						
15	Male	1115M-ND	2.93	2.53	1.72	172-015-102-001
15	Female	1115F-ND	3.54	3.05	2.08	172-015-202-001
25	Male	1125M-ND	3.80	3.28	2.23	172-025-102-001
25	Female	1125F-ND	5.22	4.50	3.06	172-025-202-001
37	Male	1137M-ND	5.10	4.40	3.00	172-037-102-001
50	Male	1150M-ND	9.14	7.88	5.36	172-050-102-001
50	Female	1150F-ND	13.78	11.88	8.08	172-050-202-001
Tin Shells with .065" Clinch Nuts, Board Side – Solder Cup						
9	Male	2109M-ND	3.39	2.93	1.99	172-009-102-011
9	Female	2109F-ND	3.71	3.20	2.18	172-009-202-011
15	Male	2115M-ND	4.00	3.45	2.35	172-015-102-011
25	Male	2125M-ND	4.84	4.18	2.84	172-025-102-011
25	Female	2125F-ND	6.29	5.43	3.69	172-025-202-011
37	Male	2137M-ND	6.15	5.30	3.61	172-037-102-011
37	Female	2137F-ND	8.15	7.03	4.78	172-037-202-011
50	Male	2150M-ND	10.18	8.78	5.97	172-050-102-011
50	Female	2150F-ND	14.85	12.80	8.71	172-050-202-011
Tin Shells with .250" Clinch Nuts, Board Side – Solder Cup						
9	Male	3109M-ND	3.39	2.93	1.99	172-009-102-021
9	Female	3109F-ND	3.71	3.20	2.18	172-009-202-021
15	Male	3115M-ND	4.00	3.45	2.35	172-015-102-021
15	Female	3115F-ND	4.58	3.95	2.69	172-015-202-021
25	Male	3125M-ND	4.84	4.18	2.84	172-025-102-021
25	Female	3125F-ND	6.29	5.43	3.69	172-025-202-021
37	Male	3137M-ND	6.15	5.30	3.61	172-037-102-021
37	Female	3137F-ND	8.15	7.03	4.78	172-037-202-021
50	Male	3150M-ND	10.18	8.78	5.97	172-050-102-021
50	Female	3150F-ND	14.85	12.80	8.71	172-050-202-021
Tin Shells with .250" Clinch Nuts, Mating Side – Solder Cup						
15	Male	4115M-ND	4.00	3.45	2.35	172-015-102-031
25	Male	4125M-ND	4.84	4.18	2.84	172-025-102-031
25	Female	4125F-ND	6.29	5.43	3.69	172-025-202-031
37	Male	4137M-ND	6.15	5.30	3.61	172-037-102-031
37	Female	4137F-ND	8.15	7.03	4.78	172-037-202-031
50	Male	4150M-ND	10.18	8.78	5.97	172-050-102-031
Yellow Chromate – Solder Cup						
15	Female	115F-ND	3.74	3.23	2.20	172-015-201-001
25	Male	125M-ND	3.28	2.83	1.93	172-025-101-001
25	Female	125F-ND	4.50	3.88	2.64	172-025-201-001
37	Male	137M-ND	5.48	4.73	3.22	172-037-101-001
37	Female	137F-ND	7.63	6.58	4.48	172-037-201-001
50	Male	150M-ND	9.14	7.88	5.36	172-050-101-001
50	Female	150F-ND	13.78	11.88	8.08	172-050-201-001
Yellow Chromate with .065" Clinch Nuts, Board Side – Solder Cup						
9	Male	5109M-ND	3.22	2.78	1.89	172-009-101-011
9	Female	5109F-ND	3.54	3.05	2.08	172-009-201-011
15	Male	5115M-ND	3.86	3.33	2.27	172-015-101-011
15	Female	5115F-ND	4.79	4.13	2.81	172-015-201-011
25	Male	5125M-ND	4.35	3.75	2.55	172-025-101-011
37	Male	5137M-ND	6.55	5.65	3.85	172-037-101-011
37	Female	5137F-ND	8.67	7.48	5.09	172-037-201-011
50	Male	5150M-ND	10.18	8.78	5.97	172-050-101-011
50	Female	5150F-ND	14.85	12.80	8.71	172-050-201-011
Yellow Chromate with .250" Clinch Nuts, Board Side – Solder Cup						
9	Male	6109M-ND	3.22	2.78	1.89	172-009-101-021
9	Female	6109F-ND	3.54	3.05	2.08	172-009-201-021
15	Male	6115M-ND	3.86	3.33	2.27	172-015-101-021
15	Female	6115F-ND	4.79	4.13	2.81	172-015-201-021
25	Male	6125M-ND	4.35	3.75	2.55	172-025-101-021
25	Female	6125F-ND	5.54	4.78	3.25	172-025-201-021
37	Male	6137M-ND	6.55	5.65	3.85	172-037-101-021
37	Female	6137F-ND	8.67	7.48	5.09	172-037-201-021
50	Male	6150M-ND	10.18	8.78	5.97	172-050-101-021
50	Female	6150F-ND	14.85	12.80	8.71	172-050-201-021
Yellow Chromate with .250" Clinch Nuts, Mating Side – Solder Cup						
9	Male	7109M-ND	3.22	2.78	1.89	172-009-101-031
9	Female	7109F-ND	3.54	3.05	2.08	172-009-201-031
15	Male	7115M-ND	3.86	3.33	2.27	172-015-101-031
15	Female	7115F-ND	4.79	4.13	2.81	172-015-201-031
25	Male	7125M-ND	4.35	3.75	2.55	172-025-101-031
25	Female	7125F-ND	5.54	4.78	3.25	172-025-201-031
37	Male	7137M-ND	6.55	5.65	3.85	172-037-101-031
37	Female	7137F-ND	8.67	7.48	5.09	172-037-201-031
50	Female	7150F-ND	14.85	12.80	8.71	172-050-201-031
Yellow Chromate – Dip Solder						
9	Female	509F-ND	2.90	2.50	1.70	172-009-211-001
15	Female	515F-ND	4.15	3.58	2.44	172-015-211-001
25	Female	525F-ND	5.68	4.90	3.34	172-025-211-001
37	Male	537M-ND	5.51	4.75	3.23	172-037-111-001
37	Female	537F-ND	8.21	7.08	4.82	172-037-211-001
50	Male	550M-ND	9.14	7.88	5.36	172-050-111-001
50	Female	550F-ND	11.57	9.98	6.79	172-050-211-001
Tin Shells – Dip Solder						
9	Female	1509FN-ND	2.99	2.58	1.76	172-009-212-001
15	Male	1515MN-ND	3.22	2.78	1.89	172-015-112-001
15	Female	1515FN-ND	4.18	3.60	2.45	172-015-212-001
25	Female	1525FN-ND	6.24	5.38	3.66	172-025-212-001
37	Male	1537MN-ND	5.48	4.73	3.22	172-037-112-001
37	Female	1537FN-ND	8.79	7.58	5.16	172-037-212-001
50	Male	1550MN-ND	9.14	7.88	5.36	172-050-112-001
50	Female	1550FN-ND	11.66	10.05	6.84	172-050-212-001
Tin Shells with .065" Clinch Nuts, Board Side – Dip Solder						
9	Male	2509M-ND	3.45	2.98	2.03	172-009-112-011
25	Male	2525M-ND	5.05	4.35	2.96	172-025-112-011
25	Female	2525F-ND	7.28	6.28	4.27	172-025-212-011
37	Male	2537M-ND	6.55	5.65	3.85	172-037-112-011
50	Male	2550M-ND	10.18	8.78	5.97	172-050-112-011
Tin Shells with .250" Clinch Nuts, Board Side – Dip Solder						
9	Male	3509M-ND	3.45	2.98	2.03	172-009-112-021
15	Male	3515M-ND	4.26	3.68	2.50	172-015-112-021
15	Female	3515F-ND	5.22	4.50	3.06	172-015-212-021
25	Male	3525M-ND	5.05	4.35	2.96	172-025-112-021
25	Female	3525F-ND	7.28	6.28	4.27	172-025-212-021
37	Male	3537M-ND	6.55	5.65	3.85	172-037-112-021
37	Female	3537F-ND	9.83	8.48	5.77	172-037-212-021
50	Male	3550M-ND	10.18	8.78	5.97	172-050-112-021

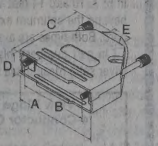
More Product Available Online: www.digikey.com
Toll-Free: 1-800-344-4539 • Phone: 218-681-6674 • Fax: 218-681-3380

NorComp

D-Sub Backshells

970 Series — Straight/Top Entry: • Die Cast: Lightweight zinc. Plating: Nickel over copper or black • Metalized Plastic: High temperature plastic UL 94V-0. Plating: Nickel over copper • Plastic: High temperature plastic UL 94V-2 • Hardware: Nickel plated steel

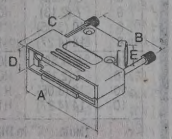
Conn. Size	Dimensions (Inch) A	B	C	D	E
9	1.228	.984	1.571	.610	.465
15	1.555	1.312	1.634	.610	.465
25	2.102	1.852	1.913	.610	.465
37	2.744	2.500	2.110	.610	.465



No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
9	Die Cast Nickel	970-09N-ND	5.80	5.00	3.40	970-009-030-121
15		970-15N-ND	6.90	5.95	4.05	970-015-030-121
25		970-25N-ND	6.90	5.95	4.05	970-025-030-121
37		970-37N-ND	10.56	9.10	6.19	970-037-030-121
9	Black Die Cast	970-09BC-ND	7.34	6.33	4.31	970-009-040-011
15		970-15BC-ND	8.44	7.28	4.95	970-015-040-011
25		970-25BC-ND	8.44	7.28	4.95	970-025-040-011
37		970-37BC-ND	11.22	9.68	6.58	970-037-040-011
9	Metalized Plastic	970-09MP-ND	5.42	4.68	3.18	970-009-020-121
15		970-15MP-ND	5.63	4.85	3.30	970-015-020-121
25		970-25MP-ND	5.86	5.05	3.44	970-025-020-121
37		970-37MP-ND	6.53	5.63	3.83	970-037-020-121
9	Black Plastic	970-09BP-ND	2.64	2.28	1.55	970-009-010-011
15		970-15BP-ND	2.64	2.28	1.55	970-015-010-011
25		970-25BP-ND	2.76	2.38	1.62	970-025-010-011
37		970-37BP-ND	2.87	2.48	1.69	970-037-010-011

971 Series — 45° Entry: • Die Cast: Lightweight zinc. Plating: Nickel over copper or black • Metalized Plastic: High temperature plastic UL 94V-0. Plating: Nickel over copper • Plastic: High temperature plastic UL 94V-2 • Hardware: Nickel plated steel

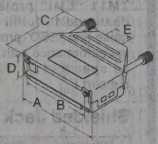
Conn. Size	Dimensions (Inch) A	B	C	D	E
9	1.220	.984	1.496	.610	.465
15	1.595	1.312	1.618	.610	.465
25	2.114	1.852	1.646	.610	.465
37	2.748	2.500	1.646	.610	.465



No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
9	Nickel	971-09N45-ND	5.80	5.00	3.40	971-009-030-121
15		971-15N45-ND	6.90	5.95	4.05	971-015-030-121
25		971-25N45-ND	6.90	5.95	4.05	971-025-030-121
37		971-37N45-ND	10.56	9.10	6.19	971-037-030-121
9	Black Die Cast	971-09CB45-ND	7.34	6.33	4.31	971-009-040-011
15		971-15CB45-ND	8.44	7.28	4.95	971-015-040-011
25		971-25CB45-ND	8.44	7.28	4.95	971-025-040-011
37		971-37CB45-ND	11.22	9.68	6.58	971-037-040-011
9	Metalized Plastic	971-09MP45-ND	5.42	4.68	3.18	971-009-020-121
15		971-15MP45-ND	5.63	4.85	3.30	971-015-020-121
25		971-25MP45-ND	5.86	5.05	3.44	971-025-020-121
37		971-37MP45-ND	6.53	5.63	3.83	971-037-020-121
9	Black Plastic	971-09BP45-ND	2.64	2.28	1.55	971-009-010-011
15		971-15BP45-ND	2.64	2.28	1.55	971-015-010-011
25		971-25BP45-ND	2.76	2.38	1.62	971-025-010-011
37		971-37BP45-ND	2.87	2.48	1.69	971-037-010-011

972 Series — Slim-Line Clam Shell Style: • High temperature ABS plastic UL94V-2

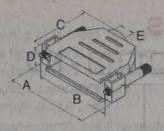
Conn. Size	Dimensions (Inch) A	B	C	D	E
9	1.240	.984	1.339	.591	.453
15	1.575	1.312	1.339	.591	.453
25	2.106	1.852	1.575	.591	.453
37	2.795	2.500	1.575	.591	.453



No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
9	Gray Plastic	972-09SG-ND	3.16	2.73	1.86	972-009-01S-031
15		972-15SG-ND	3.34	2.88	1.96	972-015-01S-031
25		972-25SG-ND	3.51	3.03	2.06	972-025-01S-031
37		972-37SG-ND	3.68	3.18	2.16	972-037-01S-031
9	Black Plastic	972-09SB-ND	3.16	2.73	1.86	972-009-01S-011
15		972-15SB-ND	3.34	2.88	1.96	972-015-01S-011
25		972-25SB-ND	3.51	3.03	2.06	972-025-01S-011
37		972-37SB-ND	3.68	3.18	2.16	972-037-01S-011

973 Series — Straight/Top Entry: • Metalized Plastic: High temperature plastic UL 94V-0. Plating: Nickel over copper • Plastic: High temperature plastic UL 94V-2 (black) • Hardware: Nickel plated steel

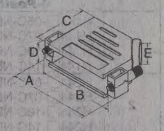
Conn. Size	Dimensions (Inch) A	B	C	D	E
9	1.240	.984	1.221	.598	.335
15	1.575	1.312	1.378	.598	.335
25	2.106	1.852	1.496	.598	.433
37	2.756	2.500	1.575	.598	.433



No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
9	Metalized Plastic	973-09MP-ND	7.25	6.25	4.25	973-009-020-121
15		973-15MP-ND	7.51	6.48	4.41	973-015-020-121
25		973-25MP-ND	7.69	6.63	4.51	973-025-020-121
37		973-37MP-ND	10.41	8.98	6.11	973-037-020-121
9	Black Plastic	973-09BP-ND	3.86	3.33	2.27	973-009-010-011
15		973-15BP-ND	4.03	3.48	2.37	973-015-010-011
25		973-25BP-ND	4.23	3.65	2.49	973-025-010-011
37		973-37BP-ND	5.13	4.43	3.01	973-037-010-011

974 Series — 40° Entry: • Metalized Plastic: High temperature plastic UL 94V-0. Plating: Nickel over copper • Plastic: High temperature plastic UL 94V-0 (black) • Hardware: Nickel plated steel

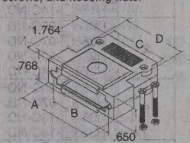
Conn. Size	Dimensions (Inch) A	B	C	D	E
9	1.240	.984	1.457	.598	.335
15	1.575	1.312	1.457	.598	.335
25	2.106	1.852	1.614	.598	.433
37	2.756	2.500	1.614	.598	.433



No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
9	Metalized Plastic	974-09MP40-ND	7.25	6.25	4.25	974-009-020-121
15		974-15MP40-ND	7.51	6.48	4.41	974-015-020-121
25		974-25MP40-ND	7.69	6.63	4.51	974-025-020-121
37		974-37MP40-ND	10.41	8.98	6.11	974-037-020-121
9	Black Plastic	974-09BP40-ND	3.86	3.33	2.27	974-009-010-011
15		974-15BP40-ND	4.03	3.48	2.37	974-015-010-011
25		974-25BP40-ND	4.23	3.65	2.49	974-025-010-011
37		974-37BP40-ND	5.13	4.43	3.01	974-037-010-011

976 Series — Plastic, Flat Ribbon: • ABS high temperature plastic 94HB. Complete with 4-40 mating screws, housing screws, and housing nuts.

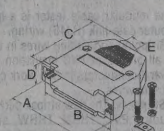
Conn. Size	Dimensions (Inch) A	B	C	D
9	1.319	.984	.758	.946
15	1.622	1.312	1.102	1.289
25	2.157	1.852	1.642	1.874
37	2.815	2.500	2.283	2.470



No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
9	Gray Plastic	976-09RP-ND	1.39	1.20	.82	976-009-010-031
15		976-15RP-ND	1.57	1.35	.92	976-015-010-031
25		976-25RP-ND	1.86	1.60	1.09	976-025-010-031
37		976-37RP-ND	1.97	1.70	1.16	976-037-010-031

977 Series — Plastic or Metalized: • Available in both plain plastic and metalized for EMI/RFI suppression • Over 60 dB shielding • Materials: Shell – Thermoplastic polyester; UL rated 94V-0; Screw locks – brass; EMI/RFI plating – Electroplated with nickel over copper

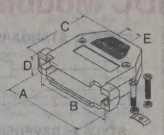
Conn. Size	Dimensions (Inch) A	B	C	D	E
9	1.213	.984	1.594	.646	.275
15	1.563	1.312	1.453	.646	.400
25	2.165	1.852	1.752	.646	.435
37	2.736	2.500	2.096	.984	.535
50	2.640	2.406	1.750	.731	.450



No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
9	Shielded Metalized Plastic (for EMI/RFI)	909GM-ND	.75	.65	.45	977-009-020-121
15		915GM-ND	.89	.77	.53	977-015-020-121
25		925GM-ND	.89	.77	.53	977-025-020-121
37		937GM-ND	2.23	1.93	1.31	977-037-020-121
50		950GM-ND	1.75	1.51	1.03	977-050-020-121
9	Plain Plastic	909GP-ND	.54	.47	.32	977-009-010-031
15		915GP-ND	.67	.58	.40	977-015-010-031
25		925GP-ND	.73	.63	.43	977-025-010-031
37		937GP-ND	1.00	.86	.59	977-037-010-031
50		950GP-ND	1.51	1.30	.89	977-050-010-031

978 Series — Plastic or Metalized: • Available in both plain plastic and metalized for EMI/RFI suppression • Over 60 dB shielding • EMI/RFI Plating – Electroplated with nickel over copper • Materials: Shell – Thermoplastic polyester; UL rated 94V-0; Screw locks – brass

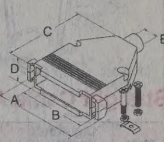
Conn. Size	Dimensions (Inch) A	B	C	D	E
9	1.220	.984	1.693	.655	.276
15	1.535	1.312	1.693	.655	.315
25	2.118	1.852	1.929	.655	.374
37	2.756	2.500	1.929	.655	.433
50	2.650	2.406	1.909	.655	.551



No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
9	Un-shielded	909C-ND	1.10	.96	.65	978-009-010-031
15		915C-ND	1.19	1.03	.70	978-015-010-031
25		925C-ND	1.24	1.07	.73	978-025-010-031
37		937C-ND	1.73	1.49	1.02	978-037-010-031
50		950C-ND	1.75	1.51	1.03	978-050-010-031
9	Shielded	909CA-ND	1.37	1.19	.81	978-009-020-121
15		915CA-ND	1.54	1.33	.91	978-015-020-121
25		925CA-ND	1.67	1.44	.98	978-025-020-121

979 Series — Die-Cast Zinc: • Rubber grommet/ strain relief for complete EMI/RFI shielding (over 70db) • Solid die-cast ZINC construction • Supplied complete with rubber grommet kit and male screw locks.

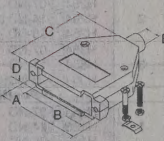
Conn. Size	Dimensions (Inch) A	B	C	D	E
9	1.22	.79	.63	1.9	.42
15	1.55	1.11	.63	1.9	.42
25	2.10	1.64	.63	1.9	.42
37	2.73	2.27	.63	1.9	.43
50	2.64	2.18	.77	1.9	.73



No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
9	Die Cast Zinc	909Z-ND	2.64	2.28	1.55	979-009-030-121
15		915Z-ND	3.10	2.68	1.82	979-015-030-121
25		925Z-ND	3.91	3.37	2.29	979-025-030-121
37		937Z-ND	5.28	4.55	3.10	979-037-030-121
50		950Z-ND	7.22	6.23	4.24	979-050-030-121

979 Series — Plastic or Metalized Backshell: • ABS high temperature plastic UL94HB • Chrome plating

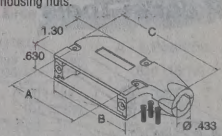
Conn. Size	Dimensions (Inch) A	B	C	D	E
9	1.232	.984	1.913	.656	.354
15	1.555	1.312	1.895	.669	.374
25	2.100	1.852	1.900	.655	.397
37	2.748	2.500	1.900	.655	.512
50	2.697	2.406	1.900	.770	.512



No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
9	Gray Plastic	979-09PG-ND	1.22	1.05	.72	979-009-010-031
15		979-15PG-ND	1.31	1.13	.77	979-015-010-031
25		979-25PG-ND	1.39	1.20	.82	979-025-010-031
37		979-37PG-ND	2.61	2.25	1.53	979-037-010-031
50		979-50PG-ND	2.78	2.40	1.64	979-050-010-031
9	Metalized Plastic	979-09MP-ND	1.71	1.48	1.01	979-009-020-121
15		979-15MP-ND	1.86	1.60	1.09	979-015-020-121
25		979-25MP-ND	2.12	1.83	1.25	979-025-020-121
37		979-37MP-ND	3.57	3.08	2.10	979-037-020-121
50		979-50MP-ND	3.86	3.33	2.27	979-050-020-121

980 / 981 Series — Ethernet: • **Material:** Die-cast zinc alloy, nickel plated. Complete with housing screws and housing nuts.

Conn. Size	Dimensions (Inch) A	B	C
9	.984	1.240	1.850
15	1.312	1.555	2.323
25	1.852	2.106	2.835



(Series 981 - Right Angle shown)

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
15	Series 980 Straight	915ES-ND	4.01	3.46	2.36	980-015-030-121
9	Series 981 Right Angle	909ER-ND	4.09	3.53	2.40	981-009-030-121
15		915ER-ND	4.36	3.76	2.56	981-015-030-121
25		925ER-ND	4.29	3.70	2.52	981-025-030-121

A

IDC Modular Cable Assemblies

STYLE 1: STANDARD

STYLE 2: REVERSE

STYLE 3: SINGLE-ENDED

H □□□□-□□□-ND

Wire Type: (Color)
1 = White
2 = Black
3 = Silver Satin

C = Designates Coil Cord

CONNECTOR(S):
44 = 4-Position, 4-Contact (Black on Pin 1)
64 = 6-Position, 4-Contact (Black on Pin 1)
66 = 6-Position, 6-Contact (White on Pin 1)
88 = 8-Position, 8-Contact (Gray on Pin 1)

LENGTH* (Use "Feet" Only)
07 = 7 Feet (2.13 Meters)
14 = 14 Feet (4.27 Meters) Straight
25 = 25 Feet (7.62 Meters)
05 = 5 Feet (1.52 Meters)
07 = 7 Feet (2.13 Meters)
10 = 10 Feet (3.05 Meters) Coiled
14 = 14 Feet (4.27 Meters)
*All cable lengths are ± 1%

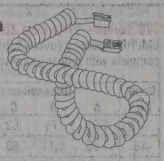
Example: H 1441-07-ND
Style 1
4-Position 4-Contact
White Wire
7 Feet Long (2.13 Meters)

Coil Cord Assembly
Example: H 1441-10C-ND
Style 1
4-Position 4-Contact
White Wire
10 Feet Long (3.05 M)
Optimum Extended Length

HOW TO ORDER: 1) You choose your part number simply by substituting the corresponding code to indicate the following: Style, Connector(s), Wire Type, and Length (***in feet – not meters***).

Straight

Coiled



Straight Cable Assemblies

Style	Digi-Key* Part No.	1	10	50	100
	4-Position, 4-Contact Assemblies				
1	H144□-07-ND	2.51	2.13	1.80	1.54
	H144□-14-ND	3.09	2.63	2.22	1.90
	H144□-25-ND	4.02	3.41	2.88	2.47
2	H244□-07-ND	2.51	2.13	1.80	1.54
	H244□-14-ND	3.09	2.63	2.22	1.90
	H244□-25-ND	4.02	3.41	2.88	2.47
3	H344□-07-ND	1.55	1.32	1.11	.95
	H344□-14-ND	2.13	1.82	1.53	1.31
	H344□-25-ND	3.05	2.60	2.19	1.88
	6-Position, 4-Contact Assemblies				
1	H164□-07-ND	2.85	2.42	2.05	1.75
	H164□-14-ND	3.44	2.92	2.47	2.11
	H164□-25-ND	4.36	3.70	3.13	2.68
2	H264□-07-ND	2.85	2.42	2.05	1.75
	H264□-14-ND	3.44	2.92	2.47	2.11
	H264□-25-ND	4.36	3.70	3.13	2.68
3	H364□-07-ND	1.72	1.46	1.24	1.06
	H364□-14-ND	2.30	1.96	1.66	1.42
	H364□-25-ND	3.23	2.74	2.32	1.98
	6-Position, 6-Contact Assemblies				
1	H166□-07-ND	3.47	2.95	2.49	2.13
	H166□-14-ND	4.37	3.72	3.14	2.69
	H166□-25-ND	5.80	4.93	4.16	3.56
2	H266□-07-ND	3.47	2.95	2.49	2.13
	H266□-14-ND	4.37	3.72	3.14	2.69
	H266□-25-ND	5.80	4.93	4.16	3.56
3	H366□-07-ND	2.19	1.86	1.57	1.35
	H366□-14-ND	3.09	2.63	2.22	1.90
	H366□-25-ND	4.52	3.84	3.25	2.78
	8-Position, 8-Contact Assemblies				
1	H188□-07-ND	4.34	3.69	3.12	2.67
	H188□-14-ND	5.58	4.74	4.00	3.42
	H188□-25-ND	7.52	6.39	5.40	4.62
2	H288□-07-ND	4.34	3.69	3.12	2.67
	H288□-14-ND	5.58	4.74	4.00	3.42
	H288□-25-ND	7.52	6.39	5.40	4.62
3	H388□-07-ND	2.79	2.37	2.00	1.71
	H388□-14-ND	4.03	3.42	2.89	2.47
	H388□-25-ND	5.97	5.08	4.29	3.67

*1= White, 2 = Black, 3 = Silver Satin.
Note: Custom length also availble — minimum order required.

Coil Cord Assemblies

Style	Digi-Key* Part No.	1	10	50	100
	4-Position, 4-Contact Assemblies				
1	H144□-05C-ND	4.25	3.62	3.05	2.61
	H144□-07C-ND	4.39	3.73	3.15	2.69
	H144□-10C-ND	5.92	5.03	4.25	3.64
	H144□-14C-ND	6.93	5.89	4.97	4.25
2	H244□-05C-ND	4.25	3.62	3.05	2.61
	H244□-07C-ND	4.39	3.73	3.15	2.69
	H244□-10C-ND	5.92	5.03	4.25	3.64
	H244□-14C-ND	6.93	5.89	4.97	4.25
3	H344□-05C-ND	3.29	2.80	2.37	2.02
	H344□-07C-ND	3.43	2.91	2.46	2.11
	H344□-10C-ND	4.96	4.22	3.56	3.05
	H344□-14C-ND	5.97	5.07	4.29	3.67
	6-Position, 4-Contact Assemblies				
1	H164□-05C-ND	4.60	3.91	3.30	2.82
	H164□-07C-ND	4.73	4.02	3.40	2.90
	H164□-10C-ND	4.77	4.05	3.42	2.93
	H164□-14C-ND	8.02	6.81	5.75	4.92
2	H264□-05C-ND	4.60	3.91	3.30	2.82
	H264□-07C-ND	4.73	4.02	3.40	2.90
	H264□-10C-ND	5.90	5.01	4.23	3.62
	H264□-14C-ND	8.02	6.81	5.75	4.92
3	H364□-05C-ND	3.46	2.95	2.49	2.13
	H364□-07C-ND	3.60	3.06	2.58	2.21
	H364□-10C-ND	4.76	4.05	3.42	2.93
	H364□-14C-ND	6.14	5.22	4.41	3.77
	6-Position, 6-Contact Assemblies				
1	H166□-05C-ND	5.02	4.27	3.61	3.09
	H166□-07C-ND	5.10	4.34	3.66	3.13
	H166□-10C-ND	7.38	6.27	5.30	4.53
	H166□-14C-ND	8.92	7.58	6.40	5.47
2	H266□-05C-ND	5.02	4.27	3.61	3.09
	H266□-07C-ND	5.10	4.34	3.66	3.13
	H266□-10C-ND	7.38	6.27	5.30	4.53
	H266□-14C-ND	8.92	7.58	6.40	5.47
3	H366□-05C-ND	3.74	3.18	2.69	2.30
	H366□-07C-ND	3.82	3.25	2.75	2.35
	H366□-10C-ND	6.10	5.19	4.38	3.75
	H366□-14C-ND	7.64	6.49	5.48	4.69
	8-Position, 8-Contact Assemblies				
1	H188□-05C-ND	8.05	6.84	5.78	4.94
	H188□-07C-ND	7.76	6.60	5.57	4.77
	H188□-10C-ND	9.46	8.04	6.79	5.81
	H188□-14C-ND	10.31	8.76	7.39	6.33
2	H288□-05C-ND	8.05	6.84	5.78	4.94
	H288□-07C-ND	7.76	6.60	5.57	4.77
	H288□-10C-ND	9.46	8.04	6.79	5.81
	H288□-14C-ND	10.31	8.76	7.39	6.33
3	H388□-05C-ND	6.50	5.53	4.67	3.99
	H388□-07C-ND	6.21	5.28	4.46	3.82
	H388□-10C-ND	7.91	6.72	5.68	4.86
	H388□-14C-ND	8.76	7.44	6.28	5.38

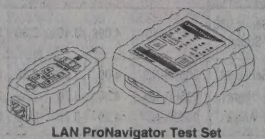
*1 = White, 2 = Black, 3 = Silver Satin.

Paladin Tools® Tools

Stripax® Pro 6

Mini-Stripax® Plus

Cable Tester



LAN ProNavigator Test Set

Cable Tester: The modular cable tester is a hand held instrument designed to test telephone (RJ11) and computer data-link (RJ45) wiring.

Wire Strippers: Stripping and cutting wires in the range of 28-12AWG • Solid and fine stranded conductors with all grades of PVC insulation hardness • P.T.F.E. insulation • Stranded conductors (even several conductors in one work cycle) • Self-adjusting cable cutter • Strips both modular and discrete wires

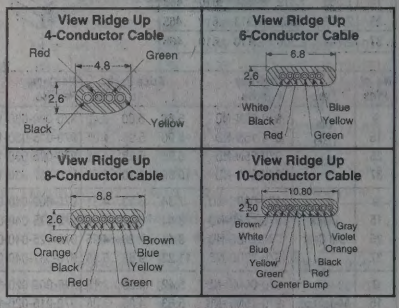
Stripax ® Pro 6 Strippers: The new stripax performs powerful stripping of standard and industrial insulations including PVC, THHN, THHW, silicone and polyethylene. Stripping blades are composed of 68 individual spring-compression blades to adjust precisely to the insulation. Not for Teflon or Kapton hard insulations.

LAN ProNavigator™: Two-piece tester includes main unit and remote with test results at both ends. One-button, simple testing (PASS/FAIL or fault find). Detects opens, shorts, crossed wires and split pairs. Cable types, RG58, RG59, RG6, RG6 Quad, Belden 8281, RG8, RG11, CAT-5, CAT 5e or CAT-6 (UTP/STP) cable.

Description	Digi-Key Part No.	Price Each	Mfg. Part No.
Modular Cable Tester	PAL1529-ND	67.99	1529
Sure Strip™ 4.0 (AWG 20-12)	PA904893-ND	58.99	904893
Mini-Stripax® Plus (AWG 28-18)	PAL1115-ND	82.94	1115P
Replacement Blade for PAL1115-ND	PAL2108-ND	21.99	2108
Stripax® Pro 6 (AWG 28-10)	PAL1113.1-ND	78.99	1113.1
LAN ProNavigator test set (main and remote), 2 RJ45 patch cords, 2 belt clips	PAL1543.1-ND	99.99	1543

Modular Cable

Flat modular line cord is available in either straight or coiled. **Straight:** H004 is sold in hanks of 100, 500 and 1,000 feet, spools of 2,000 feet; H006, H008 and H010 are sold in hanks of 100 and 500 feet, spools of 1,000 feet. **Coiled:** Hxx4□C, Hxx6□C, Hxx8□C and Hxx10□C are sold in 5, 7, 10 and 14 feet approximate optimum extended lengths. Extension beyond the optimum extended length can degrade the retractability of the cord. Both types are available in three colors—white (designated by 1 for □ in part number), black (designated by 2 for □ in part number) and silver satin (designated by 3 for □ in part number).



No. of Cond.	Length Ft.(Meter)	Digi-Key* Part No.	Price Each 1	10	100
	Coiled Line Cord – 5 ft. (1.52 meter), 7 ft. (2.13 meter), 10 ft. (3.05 meter) and 14 ft. (4.27 meter) approximate extended lengths — 26 AWG				
4	5 (1.52)	H054□C-ND	2.64	2.39	2.12
4	7 (2.13)	H074□C-ND	2.79	2.52	2.24
4	10 (3.05)	H104□C-ND	4.53	4.08	3.63
4	14 (4.27)	H144□C-ND	6.51	5.86	5.21
6	5 (1.52)	H056□C-ND	3.30	2.97	2.64
6	7 (2.13)	H076□C-ND	2.88	2.60	2.31
6	10 (3.05)	H1063C-ND	5.46	4.92	4.37
6	14 (4.27)	H146□C-ND	7.20	6.48	5.76
8	5 (1.52)	H058□C-ND	6.12	5.51	4.90
8	7 (2.13)	H0781C-ND	4.86	4.38	3.89
8	10 (3.05)	H108□C-ND	7.14	6.43	5.72
8	14 (4.27)	H148□C-ND	8.16	7.35	6.53
10	5 (1.52)	H0510□C-ND	5.37	4.84	4.30
10	7 (2.13)	H0710□C-ND	5.58	5.03	4.47
10	10 (3.05)	H1010□C-ND	7.14	6.43	5.72
10	14 (4.27)	H1410□C-ND	7.95	7.16	6.36

(Note: "X" in Digi-Key Part No. Represents Number of Feet)

No. of Cond.	Digi-Key* Part No.	Pricing 100 ft.	500 ft.	1,000 ft.	2,000 ft.
	Straight Line Cord — 26 AWG				
4	H004□-X-ND	8.69	39.85	72.45	126.36
6	H006□-X-ND	13.46	61.68	93.58	—
8	H008□-X-ND	18.22	83.49	133.58	—
10	H010□-X-ND	26.08	119.54	193.00	—

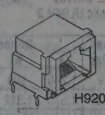
* 1 = White, 2 = Black, 3 = Silver Satin

HRS HIROSE ELECTRIC CO.,LTD.

Data-Link Shielded Jack & Cable Assembly

FEATURES: Plug; • One piece body struct. of the shell and cable clamp make perfect "EMI" protection • A metal shell offers "ESD" protection and a plastic cover is provided for enhanced aesthetics • Using the specified tooling, will provide quick and easy cable assembly. **Jack;** • In order to protect the circuit inside the equip., the jack is constructed to allow the shielding to engage first upon mating.

TM11 "EMI" protection connector is designed to fulfill the requirement of noise and "ESD" protection. The design is in conformance with the F.C.C. regulation as specified in "476 C.F.R., Part 68, subpart F."



H9200

Shielded Jack — PCB Mount

Positions-Contacts	Digi-Key Part No.	Price Each 1	10	100
8-8	H9200-ND	4.96	4.11	3.08

Standard Style Cable Assemblies

H9102 - H9103

Positions-Contacts	Length Ft. (M)	Cable Type	Termination	Digi-Key Part No.	Price Each
8-8	4 (1.22)	Straight	Double-Ended	H9102-ND	18.21
8-8	7 (2.13)	Straight	Double-Ended	H9103-ND	21.00

More Product Available Online: www.digikey.com
Toll-Free: 1-800-344-4539 • Phone: 218-681-6674 • Fax: 218-681-3380

Modular Connectors and Jacks

Product Facts:

• Meets or exceeds FCC Part 68 rules and regulations; REA PE-76 and UL 1863 Communication Circuit Accessories • Meets 1000 volt dielectric requirement • Designed for direct mounting on pc boards • Designed for ease of soldering and board cleaning • Selectively gold plated contacts for lower cost • Surface mount jacks compatible with vapor phase environment • All jacks are flame retardant polyester, standard color black, unless specified otherwise • Listed by Underwriters Laboratories Inc., File No. E81956 • Certified by Canadian Standards Association File No. LR82669

Electrical Specifications: • Current Rating: 1.5 Amp max. @ 25°C, derated to 0.2 Amp max. @ 70°C ambient • Voltage Rating: 150 Volts AC max. • Dielectric Withstanding Voltage: 1000 VAC, RMS, 60 Hz, 1 min. • Insulation Resistance: 500 Megaohms min. • Surge Test: to 1000 volts **Mechanical Specifications:** • PC Board Retention: will not dislodge from pc board when subjected to 1 lb. (4.4 N) pull before soldering and 10 lbs. (44 N) pull after soldering • Durability: 750 mating cycles **Material and Finish:** • Housing: Thru-hole: Polyester, UL 94V-0 rated Surface mount: Polyphenylene Sulfide, UL 94V-0 rated • Contact: .014 (0.36) thick phosphor bronze; plated .50µ" gold in contact area and 150µ" tin-lead on solder tails, over .50µ nickel underplate

Fig. 2 Product Facts:

• True mass displacement termination of jacketed cable with tinsel, solid or stranded conductors • Available for round or flat-oval cable • One piece construction with preloaded contacts • FCC and EIA/TIA industry standard size and performance • Selectively gold plated terminals • Recognized by Underwriters Laboratories Inc., File No. E81956 • Certified by Canadian Standards Association Certificate No. LR 7189A

Material and Finish: • Housing: Polycarbonate, UL 94V-2 flammability rating • Terminal: .014" (.36mm) thick, phosphor bronze; underplated with 100µ" nickel and plated with 50µ" gold in contact region and gold flash on remainder of terminal. **Electrical Specifications:** • 150VAC max. at 1.5A @ 25°C, derated to .2A @ 70°C • Dielectric Withstanding Voltage: 1000 Volts AC • Insulation Resistance: 500 Megaohms. **Mechanical Specifications:** • Cable-to-Plug Tensile Strength: 17 lbs (76N) min. • Durability: 750 mating cycles

External Strain Relief:

• Positively engaged to the plug housing • Improved shield contact path redundant contact points • 360° wrap on cable jacket and shield foil, extraordinary strain relief • Improved shield coverage at housing

Fig.	Description	Positions Contacts	Dimensions - Inch (mm) A	B	C	D	E	Digi-Key Part No.	Price Each 1	25	AMP Part No.
	Plug, Handset, Stranded, Flat Oval	4-4	.300 (7.62)	.525 (13.33)	.260 (6.60)	—	—	A9091-ND	.33	.31	5-641334-3
	Plug, Stranded, Flat Oval	6-4	.380 (9.65)	.525 (13.33)	.260 (6.60)	—	—	A9092-ND	.33	.31	5-641335-3
	Plug, Solid, Flat Oval	6-4	.380 (9.65)	.525 (13.33)	.260 (6.60)	—	—	A9116-ND	.41	.34	5-556384-3
	Plug, Stranded, Flat Oval	6-6	.380 (9.65)	.525 (13.33)	.260 (6.60)	—	—	A9093-ND	.40	.36	5-641337-3
	Plug, Solid, Flat Oval	6-6	.380 (9.65)	.525 (13.33)	.325 (8.25)	—	—	A9118-ND	.42	.34	5-555042-3
	Plug, Stranded, Round	6-6	.380 (9.65)	.525 (13.33)	.325 (8.25)	—	—	A9117-ND	.39	.32	5-554710-3
1	Plug, Small Solid, Flat Oval	6-6	.380 (9.65)	.525 (13.33)	.325 (8.25)	—	—	A9119-ND	.63	.51	5-557970-3
	Plug, Long Body, Solid, Flat Oval	6-6	.380 (9.65)	.900 (22.86)	.325 (8.25)	—	—	A9120-ND	.85	.68	5-555426-3
	Plug, Stranded, Flat Oval, Long	6-6	.380 (9.65)	.900 (22.86)	.325 (8.25)	—	—	A9121-ND	.79	.64	5-555176-3
	Plug, Stranded, Round Long	6-6	.380 (9.65)	.900 (22.86)	.325 (8.25)	—	—	A9122-ND	.79	.64	5-555177-3
	Plug, Stranded, Shielded, Round Long	6-6	.380 (9.65)	.900 (22.86)	.325 (8.25)	—	—	A9128-ND	2.01	1.62	5-555175-3
	Plug, Shielded, Long Body, Oval	6-6	.380 (9.65)	.900 (22.86)	.325 (8.25)	—	—	A9027-ND	2.01	1.84	5-555174-2
	Plug, Stranded, Flat Oval	6-2	.384 (9.76)	.530 (13.47)	.264 (6.71)	—	—	A24921-ND	.29	.24	5-641333-2
	Plug, Solid, Flat Oval, Small	6-4	.384 (9.76)	.530 (13.47)	.264 (6.71)	—	—	A24922-ND†	.81	.65	5-557965-2
	Plug, Stranded, Flat Oval	8-8	.460 (11.68)	.845(21.46)	.312 (7.92)	—	—	A9094-ND	.76	.72	5-554739-3
	Plug, Keyed, Stranded, Flat Oval	8-8	.464 (11.79)	.895(22.73)	.314 (7.98)	—	—	A9058-ND	4.15	3.32	5-554743-3
	Plug, Solid, Flat Oval	8-8	.464 (11.79)	.895(22.73)	.314 (7.98)	—	—	A9126-ND	.63	.51	5-554720-3
	Plug, Solid, Round	8-8	.464 (11.79)	.895(22.73)	.314 (7.98)	—	—	A9123-ND	.63	.51	5-557315-3
	Plug, Stranded, Round	8-8	.464 (11.79)	.895(22.73)	.314 (7.98)	—	—	A9125-ND	.59	.48	5-554169-3
	Plug, Stranded, Small, Round, Cable	8-8	.464 (11.79)	.895(22.73)	.314 (7.98)	—	—	A24923-ND	.41	.33	5-557961-2
	Plug, Solid, Round, Keyed	8-8	.464 (11.79)	.895(22.73)	.314 (7.98)	—	—	A9127-ND	.59	.48	5-554170-3
	Plug, High Performance, Stranded, Round	8-8	.464 (11.79)	.895(22.73)	.314 (7.98)	—	—	A9059-ND	.87	.70	5-558530-3
	Plug, Stranded, Shielded, High Perform., Round	8-8	.464 (11.79)	.895(22.73)	.314 (7.98)	—	—	A9111-ND	2.11	1.69	5-569552-3
	Plug, Solid, Shielded, High Performance, Round	8-8	.464 (11.79)	.895(22.73)	.314 (7.98)	—	—	A9112-ND	2.50	2.09	5-569550-3
2	Plug, Solid, Unshielded, High Performance	8-8	.464 (11.79)	.895(22.73)	.314 (7.98)	—	—	A24920-ND	.94	.75	5-569278-3
	Plug, Solid, Flat Oval, Small	8-8	.464 (11.79)	.895(22.73)	.314 (7.98)	—	—	A24924-ND†	.63	.51	5-557972-2
	Plug, Stranded, Flat Oval, Small	8-8	.464 (11.79)	.895(22.73)	.314 (7.98)	—	—	A24925-ND†	.65	.53	5-557973-3
	Plug, Solid Keyed, Flat Oval	8-8	.464 (11.79)	.895(22.73)	.314 (7.98)	—	—	A24926-ND	2.58	2.07	5-555417-2
	Plug, Stranded, Shielded, Flat Oval	8-8	.464 (11.79)	.915(23.24)	.330 (8.38)	—	—	A9113-ND	2.21	1.85	5-569542-3
	Plug, Stranded, Shielded, Round Long	8-8	.464 (11.79)	.915(23.24)	.330 (8.38)	—	—	A9114-ND	2.21	1.85	5-569532-3
	Plug, Solid, Shielded, Round	8-8	.464 (11.79)	.915(23.24)	.330 (8.38)	—	—	A9115-ND	2.01	1.61	5-569530-3
	Plug, Stranded, Round	10-10	.464 (11.79)	.895(22.73)	.314 (7.98)	—	—	A9129-ND	1.70	1.36	5-557963-3
	External Strain Relief Modular Connector	—	—	—	—	—	—	A9130-ND	—	.79	558527-1
	Crimp Tool Assembly, External Strain Relief	—	—	—	—	—	—	A9800-ND	187.80	—	224928-1
	Die Set, Strain Relief Modular, use with A9996	—	—	—	—	—	—	A9801-ND	140.25	—	224928-2
	Pro-Crimper II Hand Tool Without Die	—	—	—	—	—	—	A9996-ND	66.00	—	354940-1
	Plug With Offset Latch	6-6	.382 (9.70)	.535 (13.59)	.264 (6.71)	—	—	A9057-ND	.88	.71	5-555237-2
3	Plug, Round, Stranded, Offset	6-6	.382 (9.70)	.535 (13.59)	.264 (6.71)	—	—	A24918-ND	.88	.71	5-555238-2
	Plug, Flat Oval, Solid, Offset	6-6	.382 (9.70)	.535 (13.59)	.264 (6.71)	—	—	A24919-ND	.88	.71	5-555236-2
	Jack, Side Entry With Panel Stops	4-4	.540 (13.72)	.810 (20.57)	.630 (16.00)	.440 (11.18)	.300 (7.62)	A9041-ND	1.19	1.12	520249-2
	Jack, Side Entry With Panel Stops	6-2	.620 (15.75)	.815 (20.70)	.630 (16.00)	.520 (13.21)	.400 (10.16)	A9082-ND	.73	.59	520250-1
	Jack, Side Entry With Panel Stops	6-4	.620 (15.75)	.815 (20.70)	.630 (16.00)	.520 (13.21)	.400 (10.16)	A9042-ND	.73	.67	520250-2
	Jack, Side Entry With Panel Stops	6-6	.620 (15.75)	.815 (20.70)	.630 (16.00)	.520 (13.21)	.400 (10.16)	A9043-ND	.77	.71	520250-3
	Jack, Side Entry With Panel Stops	8-8	.700 (17.78)	.810 (20.57)	.630 (16.00)	.600 (15.24)	.450 (11.43)	A9044-ND	.88	.81	520251-4
	Jack, Side Entry With Panel Stops, Keyed	8-8	.700 (17.78)	.810 (20.57)	.630 (16.00)	.600 (15.24)	.450 (11.43)	A9046-ND	.77	.62	520252-4
4	Jack, Side Entry With Flange	4-4	.570 (14.48)	.810 (20.57)	.680 (17.27)	.440 (11.18)	.300 (7.62)	A9077-ND	.93	.75	520241-2
	Jack, Side Entry With Flange	6-4	.650 (16.51)	.810 (20.57)	.680 (17.27)	.520 (13.21)	.400 (10.16)	A9078-ND	2.57	2.06	520242-2
	Jack, Side Entry With Flange	6-6	.650 (16.51)	.810 (20.57)	.680 (17.27)	.520 (13.21)	.400 (10.16)	A9079-ND	.73	.59	520242-3
	Jack, Side Entry With Flange	8-8	.730 (18.54)	.810 (20.57)	.680 (17.27)	.600 (15.24)	.450 (11.43)	A9080-ND	2.66	2.13	520243-4
	Jack Without Panel Stops and Flange	4-4	.440 (11.18)	.810 (20.57)	.630 (16.00)	—	.300 (7.62)	A9047-ND	.73	.59	555980-1
	Jack Without Panel Stops and Flange	6-4	.520 (13.21)	.810 (20.57)	.630 (16.00)	—	.400 (10.16)	A9048-ND	.74	.67	555979-1
	Jack Without Panel Stops and Flange	6-6	.520 (13.21)	.815 (20.70)	.630 (16.00)	—	.400 (10.16)	A9049-ND	.78	.63	520470-3
	Jack Without Panel Stops and Flange	8-8	.600 (15.24)	.810 (20.57)	.630 (16.00)	—	.450 (11.43)	A9050-ND	.83	.67	520426-4
	Jack Without Panel Stops and Flange, Keyed	8-8	.600 (15.24)	.810 (20.57)	.630 (16.00)	—	.450 (11.43)	A9051-ND	1.60	1.28	554517-1
	Jack With Stops	4-4	.550 (13.97)	.625 (15.88)	.645 (16.38)	.450 (11.43)	—	A9071-ND	.68	.63	520257-2
	Jack With Stops	6-4	.630 (16.00)	.625 (15.88)	.645 (16.38)	.530 (13.46)	—	A9072-ND	.73	.67	520258-2
	Jack With Panel Stops	6-6	.630 (16.00)	.625 (15.88)	.645 (16.38)	.530 (13.46)	—	A9073-ND	.75	.69	520258-3
	Jack With Stops	8-8	.710 (18.03)	.625 (15.88)	.645 (16.38)	.610 (15.49)	—	A9074-ND	.79	.73	520259-4
	Jack With Stops, Keyed	8-8	.710 (18.03)	.625 (15.88)	.645 (16.38)	.610 (15.49)	—	A9052-ND	.77	.62	520260-4
5	Jack, Top Entry Without Stops	4-4	.455 (11.43)	.630 (16.00)	.650 (16.51)	—	.300 (7.62)	A24915-ND	.71	.57	558872-1
	Jack, Top Entry Without Stops	6-4	.530 (13.46)	.625 (15.88)	.645 (16.38)	—	.400 (10.16)	A9083-ND	1.30	1.04	520425-2
	Jack, Top Entry Without Stops	6-6	.530 (13.46)	.625 (15.88)	.645 (16.38)	—	.400 (10.16)	A9084-ND	.87	.79	520425-3
	Jack, Top Entry Without Stops	8-8	.615 (15.62)	.630 (16.00)	.645 (16.38)	—	.450 (11.43)	A9085-ND	.78	.70	556416-1
	Jack, Top Entry Without Stops, Keyed	8-8	.615 (15.62)	.630 (16.00)	.645 (16.38)	—	.450 (11.43)	A9086-ND	1.05	.85	555799-1
	Jack, Top Entry With Stops, Shielded	8-8	.710 (18.03)	.625 (15.88)	.645 (16.38)	.610 (15.49)	.450 (11.43)	A9087-ND	1.17	.94	557969-1
	Jack, Top Entry With Stops, Shielded, Keyed	8-8	.715 (18.17)	.660 (16.77)	.660 (16.77)	.650 (16.51)	.450 (11.43)	A24916-ND	1.17	.94	557730-1
6A	Jack With Stops	6-6	—	—	—	—	—	A9010-ND	.99	.94	555163-1
6A	Jack With Stops	6-4	—	—	—	—	—	A9011-ND	1.65	1.55	555163-2
6B	Jack With Stops	8-8	—	—	—	—	—	A9012-ND	1.05	.99	555162-1
6C	Jack With Stops, Keyed	8-8	—	—	—	—	—	A9034-ND	.87	.78	555166-1
6A	Jack Without Stops	6-6	—	—	—	—	—	A9031-ND	.83	.75	555165-1
6A	Jack Without Stops	6-4	—	—	—	—	—	A9032-ND	.78	.70	555165-2

† Small conductor products are for .029 - .034 (.737 - .864) OD conductors. Small conductor product housings are tinted blue to differentiate from standard product.

Fig. 1

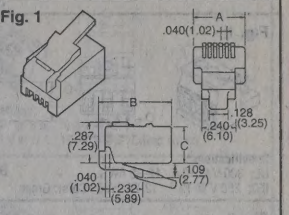
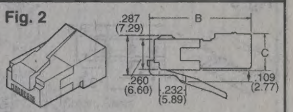
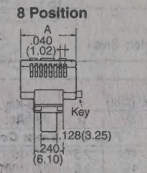


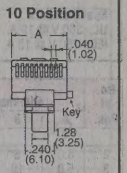
Fig. 2



8 Position



10 Position



External Strain Relief

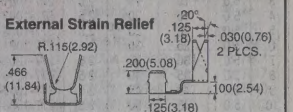


Fig. 3

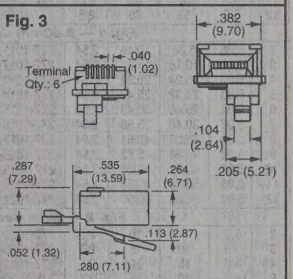


Fig. 4 – Side Entry

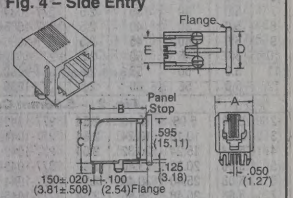


Fig. 5 – Top Entry

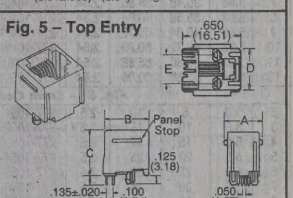
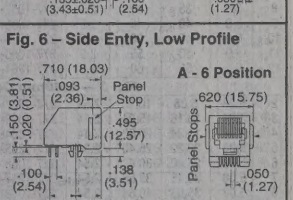
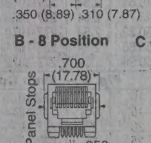


Fig. 6 – Side Entry, Low Profile



B - 8 Position



C - 8 Position Keyed

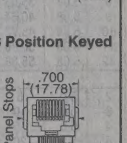
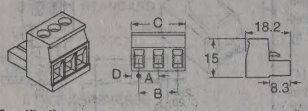
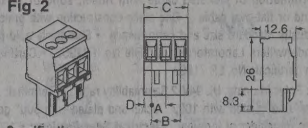


Fig. 1



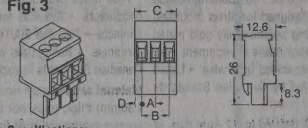
Specifications:
UL: 300 V @ 10 A. 12-30 AWG.
IEC: 250 V @ 12 A. 12-24 AWG. **Color:** Green

Fig. 2



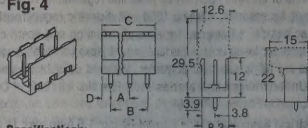
Specifications:
UL: 300 V @ 10 A. 12-30 AWG.
IEC: 250 V @ 12 A. 12-24 AWG. **Color:** Green

Fig. 3



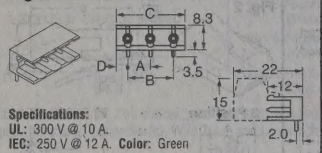
Specifications:
UL: 300 V @ 10 A. 12-30 AWG.
IEC: 250 V @ 12 A. 12-24 AWG. **Color:** Green

Fig. 4



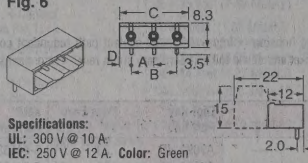
Specifications:
UL: 300 V @ 10 A.
IEC: 250 V @ 12 A. **Color:** Green

Fig. 5



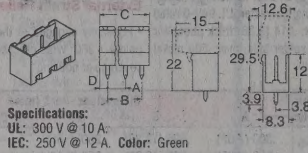
Specifications:
UL: 300 V @ 10 A.
IEC: 250 V @ 12 A. **Color:** Green

Fig. 6



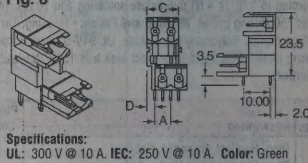
Specifications:
UL: 300 V @ 10 A.
IEC: 250 V @ 12 A. **Color:** Green

Fig. 7



Specifications:
UL: 300 V @ 10 A.
IEC: 250 V @ 12 A. **Color:** Green

Fig. 8

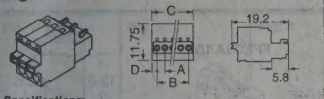


Specifications:
UL: 300 V @ 10 A. **IEC:** 250 V @ 10 A. **Color:** Green

No. of Pos.	Dimensions (mm) A	B	C	D	Digi-Key Part No.	Price Each 1	10	100	Phoenix Contact Type No.	Phoenix Contact Part No.
Fig. 1 — 5mm Connector Terminal Block Plug										
2	5.0	5	10	2.5	277-1000-ND	1.49	1.34	1.19	MSTB 2.5/2-ST	1754449
3	5.0	10	15	2.5	277-1001-ND	2.23	2.02	1.79	MSTB 2.5/3-ST	1754465
4	5.0	15	20	2.5	277-1002-ND	2.97	2.68	2.38	MSTB 2.5/4-ST	1754481
5	5.0	20	25	2.5	277-1003-ND	3.69	3.33	2.96	MSTB 2.5/5-ST	1754504
6	5.0	25	30	2.5	277-1004-ND	4.43	3.99	3.55	MSTB 2.5/6-ST	1754520
7	5.0	30	35	2.5	277-1005-ND	5.19	4.68	4.16	MSTB 2.5/7-ST	1754546
8	5.0	35	40	2.5	277-1006-ND	5.90	5.31	4.72	MSTB 2.5/8-ST	1754562
9	5.0	40	45	2.5	277-1007-ND	6.66	6.00	5.34	MSTB 2.5/9-ST	1754588
10	5.0	45	50	2.5	277-1008-ND	7.41	6.68	5.93	MSTB 2.5/10-ST	1754601
11	5.0	50	55	2.5	277-1009-ND	8.12	7.31	6.50	MSTB 2.5/11-ST	1754627
12	5.0	55	60	2.5	277-1010-ND	8.87	7.99	7.10	MSTB 2.5/12-ST	1754643
Fig. 1 — 5.08mm Connector Terminal Block Plug										
2	5.08	5.08	10.16	2.54	277-1011-ND	1.49	1.34	1.19	MSTB 2.5/2-ST-5.08	1757019
3	5.08	10.16	15.24	2.54	277-1012-ND	2.23	2.02	1.79	MSTB 2.5/3-ST-5.08	1757022
4	5.08	15.24	20.32	2.54	277-1013-ND	2.97	2.68	2.38	MSTB 2.5/4-ST-5.08	1757035
5	5.08	20.32	25.40	2.54	277-1014-ND	3.69	3.33	2.96	MSTB 2.5/5-ST-5.08	1757048
6	5.08	25.40	30.48	2.54	277-1015-ND	4.43	3.99	3.55	MSTB 2.5/6-ST-5.08	1757051
7	5.08	30.48	35.56	2.54	277-1016-ND	5.19	4.68	4.16	MSTB 2.5/7-ST-5.08	1757064
8	5.08	35.56	40.64	2.54	277-1017-ND	5.90	5.31	4.72	MSTB 2.5/8-ST-5.08	1757077
9	5.08	40.64	45.72	2.54	277-1018-ND	6.66	6.00	5.34	MSTB 2.5/9-ST-5.08	1757080
10	5.08	45.72	50.80	2.54	277-1019-ND	7.41	6.68	5.93	MSTB 2.5/10-ST-5.08	1757093
11	5.08	50.80	55.88	2.54	277-1020-ND	8.12	7.31	6.50	MSTB 2.5/11-ST-5.08	1757103
12	5.08	55.88	60.96	2.54	277-1021-ND	8.87	7.99	7.10	MSTB 2.5/12-ST-5.08	1757116
Fig. 2 — 5mm Connector Terminal Block Plug										
2	5.0	5	10	2.5	277-1029-ND	1.72	1.55	1.38	MVSTBR 2.5/2-ST	1792016
3	5.0	10	15	2.5	277-1030-ND	2.52	2.27	2.02	MVSTBR 2.5/3-ST	1792029
4	5.0	15	20	2.5	277-1031-ND	3.41	3.07	2.73	MVSTBR 2.5/4-ST	1792032
5	5.0	20	25	2.5	277-1032-ND	4.26	3.84	3.42	MVSTBR 2.5/5-ST	1792045
6	5.0	25	30	2.5	277-1033-ND	5.12	4.62	4.10	MVSTBR 2.5/6-ST	1792058
7	5.0	30	35	2.5	277-1034-ND	5.98	5.39	4.79	MVSTBR 2.5/7-ST	1792061
8	5.0	35	40	2.5	277-1035-ND	6.81	6.14	5.45	MVSTBR 2.5/8-ST	1792074
9	5.0	40	45	2.5	277-1036-ND	7.67	6.91	6.14	MVSTBR 2.5/9-ST	1792087
10	5.0	45	50	2.5	277-1037-ND	8.50	7.66	6.81	MVSTBR 2.5/10-ST	1792090
11	5.0	50	55	2.5	277-1038-ND	9.37	8.44	7.50	MVSTBR 2.5/11-ST	1792100
12	5.0	55	60	2.5	277-1039-ND	10.22	9.20	8.18	MVSTBR 2.5/12-ST	1792113
Fig. 2 — 5.08mm Connector Terminal Block Plug										
2	5.08	5.08	10.16	2.54	277-1040-ND	1.72	1.55	1.38	MVSTBR 2.5/2-ST-5.08	1792249
3	5.08	10.16	15.24	2.54	277-1041-ND	2.52	2.27	2.02	MVSTBR 2.5/3-ST-5.08	1792252
4	5.08	15.24	20.32	2.54	277-1042-ND	3.41	3.07	2.73	MVSTBR 2.5/4-ST-5.08	1792265
5	5.08	20.32	25.40	2.54	277-1043-ND	4.26	3.84	3.42	MVSTBR 2.5/5-ST-5.08	1792278
6	5.08	25.40	30.48	2.54	277-1044-ND	5.12	4.62	4.10	MVSTBR 2.5/6-ST-5.08	1792281
7	5.08	30.48	35.56	2.54	277-1045-ND	5.98	5.39	4.79	MVSTBR 2.5/7-ST-5.08	1792294
8	5.08	35.56	40.64	2.54	277-1046-ND	6.81	6.14	5.45	MVSTBR 2.5/8-ST-5.08	1792304
9	5.08	40.64	45.72	2.54	277-1047-ND	7.67	6.91	6.14	MVSTBR 2.5/9-ST-5.08	1792317
10	5.08	45.72	50.80	2.54	277-1048-ND	8.50	7.66	6.81	MVSTBR 2.5/10-ST-5.08	1792320
11	5.08	50.80	55.88	2.54	277-1049-ND	9.37	8.44	7.50	MVSTBR 2.5/11-ST-5.08	1792333
12	5.08	55.88	60.96	2.54	277-1050-ND	10.22	9.20	8.18	MVSTBR 2.5/12-ST-5.08	1792346
Fig. 3 — 5mm Connector Terminal Block Plug										
2	5.0	5	10	2.5	277-1051-ND	1.72	1.55	1.38	MVSTBW 2.5/2-ST	1792524
3	5.0	10	15	2.5	277-1052-ND	2.52	2.27	2.02	MVSTBW 2.5/3-ST	1792537
4	5.0	15	20	2.5	277-1053-ND	3.41	3.07	2.73	MVSTBW 2.5/4-ST	1792540
5	5.0	20	25	2.5	277-1054-ND	4.26	3.84	3.42	MVSTBW 2.5/5-ST	1792553
6	5.0	25	30	2.5	277-1055-ND	5.12	4.62	4.10	MVSTBW 2.5/6-ST	1792566
7	5.0	30	35	2.5	277-1056-ND	5.98	5.39	4.79	MVSTBW 2.5/7-ST	1792579
8	5.0	35	40	2.5	277-1057-ND	6.81	6.14	5.45	MVSTBW 2.5/8-ST	1792582
9	5.0	40	45	2.5	277-1058-ND	7.67	6.91	6.14	MVSTBW 2.5/9-ST	1792595
10	5.0	45	50	2.5	277-1059-ND	8.50	7.66	6.81	MVSTBW 2.5/10-ST	1792605
11	5.0	50	55	2.5	277-1060-ND	9.37	8.44	7.50	MVSTBW 2.5/11-ST	1792618
12	5.0	55	60	2.5	277-1061-ND	10.22	9.20	8.18	MVSTBW 2.5/12-ST	1792621
Fig. 3 — 5.08mm Connector Terminal Block Plug										
2	5.08	5.08	10.16	2.54	277-1062-ND	1.72	1.55	1.38	MVSTBW 2.5/2-ST-5.08	1792757
3	5.08	10.16	15.24	2.54	277-1063-ND	2.52	2.27	2.02	MVSTBW 2.5/3-ST-5.08	1792760
4	5.08	15.24	20.32	2.54	277-1064-ND	3.41	3.07	2.73	MVSTBW 2.5/4-ST-5.08	1792773
5	5.08	20.32	25.40	2.54	277-1065-ND	4.26	3.84	3.42	MVSTBW 2.5/5-ST-5.08	1792786
6	5.08	25.40	30.48	2.54	277-1066-ND	5.12	4.62	4.10	MVSTBW 2.5/6-ST-5.08	1792799
7	5.08	30.48	35.56	2.54	277-1067-ND	5.98	5.39	4.79	MVSTBW 2.5/7-ST-5.08	1792809
8	5.08	35.56	40.64	2.54	277-1068-ND	6.81	6.14	5.45	MVSTBW 2.5/8-ST-5.08	1792812
9	5.08	40.64	45.72	2.54	277-1069-ND	7.67	6.91	6.14	MVSTBW 2.5/9-ST-5.08	1792825
10	5.08	45.72	50.80	2.54	277-1070-ND	8.50	7.66	6.81	MVSTBW 2.5/10-ST-5.08	1792838
11	5.08	50.80	55.88	2.54	277-1071-ND	9.37	8.44	7.50	MVSTBW 2.5/11-ST-5.08	1792841
12	5.08	55.88	60.96	2.54	277-1072-ND	10.22	9.20	8.18	MVSTBW 2.5/12-ST-5.08	1792854
Fig. 4 — 5mm Connector Header — Vertical										
2	5.0	5	10	2.5	277-1073-ND	.52	.47	.42	MSTBV 2.5/2-G	1753437
3	5.0	10	15	2.5	277-1074-ND	.78	.70	.63	MSTBV 2.5/3-G	1753453
4	5.0	15	20	2.5	277-1075-ND	1.04	.94	.83	MSTBV 2.5/4-G	1753479
5	5.0	20	25	2.5	277-1076-ND	1.29	1.17	1.04	MSTBV 2.5/5-G	1753495
6	5.0	25	30	2.5	277-1077-ND	1.54	1.39	1.24	MSTBV 2.5/6-G	1753518
7	5.0	30	35	2.5	277-1078-ND	1.80	1.62	1.44	MSTBV 2.5/7-G	1753534
8	5.0	35	40	2.5	277-1079-ND	2.04	1.84	1.64	MSTBV 2.5/8-G	1753550
9	5.0	40	45	2.5	277-1080-ND	2.32	2.09	1.86	MSTBV 2.5/9-G	1753576
10	5.0	45	50	2.5	277-1081-ND	2.56	2.31	2.05	MSTBV 2.5/10-G	1753592
11	5.0	50	55	2.5	277-1082-ND	2.83	2.56	2.27	MSTBV 2.5/11-G	1753615
12	5.0	55	60	2.5	277-1083-ND	3.09	2.79	2.48	MSTBV 2.5/12-G	1753631
Fig. 4 — 5.08mm Connector Header — Vertical										
2	5.08	5.08	10.16	2.54	277-1128-ND	.52	.47	.42	MSTBV 2.5/2-G-5.08	1758018
3	5.08	10.16	15.24	2.54	277-1129-ND	.78	.70	.63	MSTBV 2.5/3-G-5.08	1758021
4	5.08	15.24	20.32	2.54	277-1130-ND	1.04	.94	.83	MSTBV 2.5/4-G-5.08	1758034
5	5.08	20.32	25.40	2.54	277-1131-ND	1.29	1.17	1.04	MSTBV 2.5/5-G-5.08	1758047
6	5.08	25.40	30.48	2.54	277-1132-ND	1.54	1.39	1.24	MSTBV 2.5/6-G-5.08	1758050
7	5.08	30.48	35.56	2.54	277-1133-ND	1.80	1.62	1.44	MSTBV 2.5/7-G-5.08	1758063
8	5.08	35.56	40.64	2.54	277-1134-ND	2.04	1.84	1.64	MSTBV 2.5/8-G-5.08	1758076
9	5.08	40.64	45.72	2.54	277-1135-ND	2.32	2.09	1.86	MSTBV 2.5/9-G-5.08	1758089
10	5.08	45.72	50.80	2.54	277-1136-ND	2.56	2.31	2.05	MSTBV 2.5/10-G-5.08	1758092
11	5.08	50.80	55.88	2.54	277-1137-ND	2.83	2.56	2.27	MSTBV 2.5/11-G-5.08	1758102
12	5.08	55.88	60.96	2.54	277-1138-ND	3.09	2.79	2.48	MSTBV 2.5/12-G-5.08	1758115
Fig. 5 — 5mm Connector Header — Right Angle										
2	5.0	5	10	2.5	277-1084-ND	.52	.47	.42	MSTB 2.5/2-G	1754436
3	5.0	10	15	2.5	277-1085-ND	.78	.70	.63	MSTB 2.5/3-G	1754452
4	5.0	15	20	2.5	277-1086-ND	1.04	.94	.83	MSTB 2.5/4-G	1754478
5	5.0	20	25	2.5	277-1087-ND	1.29	1.17	1.04	MSTB 2.5/5-G	1754494
6	5.0	25	30	2.5	277-1088-ND	1.54	1.39	1.24	MSTB 2.5/6-G	1754517
7	5.0	30	35	2.5	277-1089-ND	1.80	1.62	1.44	MSTB 2.5/7-G	1754533
8	5.0	35	40	2.5	277-1090-ND	2.04	1.84	1.64	MSTB 2.5/8-G	1754559
9	5.0	40	45	2.5	277-1091-ND	2.32	2.09	1.86	MSTB 2.5/9-G	1754575
10	5.0	45	50	2.5	277-1092-ND	2.56	2.31	2.05	MSTB 2.5/10-G	1754591
11	5.0	50	55	2.5	277-1093-ND	2.83	2.56	2.27	MSTB 2.5/11-G	1754614
12	5.0	55	60	2.5	277-1094-ND	3.09	2.79	2.48	MSTB 2.5/12-G	1754630
Fig. 5 — 5.08mm Connector Header — Right Angle										
2	5.08	5.08	10.16	2.54	277-1095-ND	.52	.47	.42	MSTB 2.5/2-G-5.08	1759017
3	5.08	10.16	15.24	2.54	277-1096-ND	.78	.70	.63	MSTB 2.5/3-G-5.08	1759020
4	5.08	15.24	20.32	2.54	277-1097-ND	1.04	.94	.83	MSTB 2.5/4-G-5.08	1759033
5	5.08	20.32	25.40	2.54	277-1098-ND	1.29	1.17	1.04	MSTB 2.5/5-G-5.08	1759046
6	5.08	25.40	30.48	2.54	277-1099-ND	1.54	1.39	1.24	MSTB 2.5/6-G-5.08	1759059
7	5.08	30.48	35.56	2.54	277-1100-ND	1.80	1.62	1.44	MSTB 2.5/7-G-5.08	1759062
8	5.08	35.56	40.64	2.54	277-1101-ND	2.04	1.84	1.64	MSTB 2.5/8-G-5.08	1759075
9	5.08	40.64	45.72	2.54	277-1102-ND	2.32	2.09	1.86	MSTB 2.5/9-G-5.08	1759088
10	5.08	45.72	50.80	2.54	277-1103-ND	2.56	2.31	2.05	MSTB 2.5/10-G-5.08	1759091
11	5.08	50.80	55.88	2.54	277-1104-ND	2.83	2.56	2.27	MSTB 2.5/11-G-5.08	1759101
12	5.08	55.88	60.96	2.54	277-1105-ND	3.09	2.79	2.48	MSTB 2.5/12-G-5.08	1759114
Fig. 6 — 5mm Connector Header — Right Angle										
2	5.0	5	12	3.5	277-1117-ND	.52	.47	.42	MSTBA 2.5/2-G	1757475
3	5.0	10	17	3.5	277-1118-ND	.78	.70	.63	MSTBA 2.5/3-G	1757488
4	5.0	15	22	3.5	277-1119-ND	1.04	.94	.83	MSTBA 2.5/4-G	1757491
5	5.0	20	27	3.5	277-1120-ND	1.29	1.17	1.04	MSTBA 2.5/5-G	1757501
6	5.0	25	32	3.5	277-1121-ND	1.54	1.39	1.24	MSTBA 2.5/6-G	1757514
7	5.0	30	37	3.5	277-1122-ND	1.80	1.62	1.44	MSTBA 2.5/7-G	1755493
8	5.0	35	42	3.5	277-1123-ND	2.04	1.84	1.64	MSTBA 2.5/8-G	1757527
9	5.0	40	47	3.5	277-1124-ND	2.32	2.09	1.86	MSTBA 2.5/9-G	1757530
10	5.0	45	52	3.5	277-1125-ND	2.56	2.31	2.05	MSTBA 2.5/10-G	1757543
11	5.0	50	57	3.5	277-1126-ND	2.83	2.56	2.27	MSTBA 2.5/11-G	1757556
12	5.0	55	62	3.5	277-1127-ND	3.09	2.79	2.48	MSTBA 2.5/12-G	1757569
Fig. 6 — 5.08mm Connector Header — Right Angle										
2	5.08	5.08	12.16	3.54	277-1106-ND	.52	.47	.42	MSTBA 2.5/2-G-5.08	1757242
3	5.08	10.16	17.24	3.54	277-1107-ND	.78	.70	.63	MSTBA 2.5/3-G-5.08	1757255
4	5.08	15.24	22.32	3.54	277-1108-ND	1.04	.94	.83	MSTBA 2.5/4-G-5.08	1757268
5	5.08	20.32	27.40	3.54	277-1109-ND	1.29	1.17	1.04	MSTBA 2.5/5-G-5.08	1757271
6	5.08	25.40	32.48	3.54	277-1110-ND	1.54	1.39	1.24	MSTBA 2.5/6-G-5.08	1757284
7	5.08	30.48	37.56	3.54	277-1111-ND	1.80	1.62	1.44	MSTBA 2.5/7-G-5.08	1757297
8	5.08	35.56	42.64	3.54	277-1112-ND	2.04	1.84	1.64	MSTBA 2.5/8-G-5.08	1757307
9	5.08	40.64	47.72	3.54	277-1113-ND	2.32	2.09	1.86	MSTBA 2.5/9-G-5.08	1757310
10	5.08	45.72	52.80	3.54	277-1114-ND	2.56	2.31	2.05	MSTBA 2.5/10-G-5.08	1757323
11	5.08	50.80	57.88	3.54	277-1115-ND	2.83	2.56	2.27	MSTBA 2.5/11-G-5.08	1757336
12	5.08	55.88	62.96	3.54	277-1116-ND	3.09	2.79	2.48	MSTBA 2.5/12-G-5.08	1757349
Fig. 7 — 5mm Connector Header — Vertical										
2	5.0	5	12	3.5	277-1140-ND	.52	.47	.42	MSTBVA 2.5/2-G	1755516
3	5.0	10	17	3.5	277-1141-ND	.78	.70	.63	MSTBVA 2.5/3-G	1755529
4	5.0	15	22	3.5	277-1142-ND	1.04	.94	.83	MSTBVA 2.5/4-G	1755532
5	5.0	20	27	3.5	277-1143-ND	1.29	1.17	1.04	MSTBVA 2.5/5-G	1755545
6	5.0	25	32	3.5	277-1144-ND	1.54	1.39	1.24	MSTBVA 2.5/6-G	1755558
7	5.0	30	37	3.5	277-1145-ND	1.80	1.62	1.44	MSTBVA 2.5/7-G	1755561
8	5.0	35	42	3.5	277-1146-ND	2.04	1.84	1.64	MSTBVA 2.5/8-G	1755574
9	5.0	40	47	3.5	277-1147-ND	2.32	2.09	1.86	MSTBVA 2.5/9-G	1755587
10	5.0	45	52	3.5	277-1139-ND	2.56	2.31	2.05	MSTBVA 2.5/10-G	1755503
11	5.0	50	57	3.5	277-1148-ND	2.83	2.56	2.27	MSTBVA 2.5/11-G	1755590
12	5.0	55	62	3.5	277-1149-ND	3.09	2.79	2.48	MSTBVA 2.5/12-G	1755600

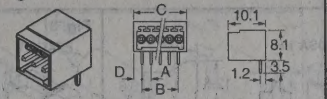
(Continued)

Fig. 9



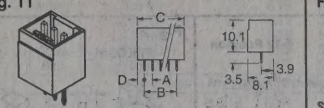
Specifications:
UL: 125 V @ 4 A, 20-28 AWG.
IEC: 100 V @ 4 A, 20-28 AWG. **Color:** Green

Fig. 10



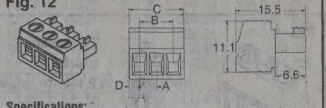
Specifications:
UL: 125 V @ 4 A. **IEC:** 80 V @ 4 A. **Color:** Green

Fig. 11



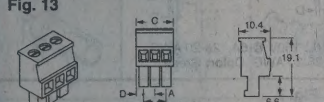
Specifications:
UL: 125 V @ 4 A. **IEC:** 80 V @ 4 A. **Color:** Green

Fig. 12



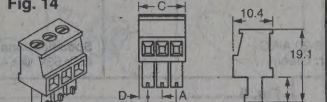
Specifications:
UL: 300 V @ 8 A, 14-30 AWG.
IEC: 125 V @ 8 A, 16-28 AWG. **Color:** Green

Fig. 13



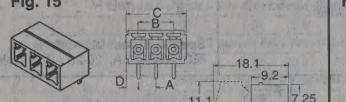
Specifications:
UL: 300 V @ 8 A, 14-30 AWG.
IEC: 125 V @ 8 A, 16-28 AWG. **Color:** Green

Fig. 14



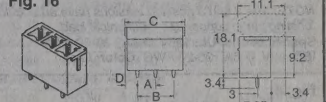
Specifications:
UL: 300 V @ 8 A, 14-30 AWG.
IEC: 125 V @ 8 A, 16-28 AWG. **Color:** Green

Fig. 15



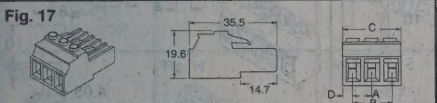
Specifications:
UL: 300 V @ 8 A.
IEC: 125 V @ 8 A. **Color:** Green

Fig. 16



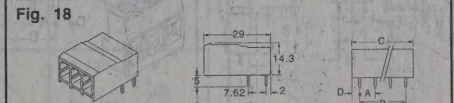
Specifications:
UL: 300 V @ 8 A.
IEC: 125 V @ 8 A. **Color:** Green

Fig. 17



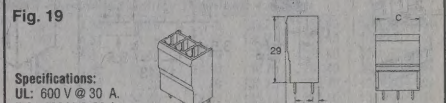
Specifications: **UL:** 600 V @ 30 A, 10-30 AWG.
IEC: 800 V @ 20 A, 10-24 AWG. **Color:** Green

Fig. 18



Specifications:
UL: 600 V @ 30 A. **IEC:** 400 V @ 20 A. **Color:** Green

Fig. 19



Specifications:
UL: 600 V @ 30 A.
IEC: 400 V @ 20 A.
Color: Green

No. of Pos.	Dimensions (mm) A	B	C	D	Digi-Key Part No.	Price Each 1	10	100	Phoenix Contact Type No.	Phoenix Contact Part No.
Fig. 7 — 5.08mm Connector Header — Vertical										
2	5.08	5.08	12.16	3.54	277-1150-ND	.52	.47	.42	MSTBVA 2.5/2-G-5.08	1755736
3	5.08	10.16	17.24	3.54	277-1151-ND	.78	.70	.63	MSTBVA 2.5/3-G-5.08	1755749
4	5.08	15.24	22.32	3.54	277-1152-ND	1.04	.94	.83	MSTBVA 2.5/4-G-5.08	1755752
5	5.08	20.32	27.40	3.54	277-1153-ND	1.29	1.17	1.04	MSTBVA 2.5/5-G-5.08	1755765
6	5.08	25.40	32.48	3.54	277-1154-ND	1.54	1.39	1.24	MSTBVA 2.5/6-G-5.08	1755778
7	5.08	30.48	37.56	3.54	277-1155-ND	1.80	1.62	1.44	MSTBVA 2.5/7-G-5.08	1755781
8	5.08	35.56	42.64	3.54	277-1156-ND	2.04	1.84	1.64	MSTBVA 2.5/8-G-5.08	1755794
9	5.08	40.64	47.72	3.54	277-1157-ND	2.32	2.09	1.86	MSTBVA 2.5/9-G-5.08	1755804
10	5.08	45.72	52.80	3.54	277-1158-ND	2.56	2.31	2.05	MSTBVA 2.5/10-G-5.08	1755817
11	5.08	50.80	57.88	3.54	277-1159-ND	2.83	2.56	2.27	MSTBVA 2.5/11-G-5.08	1755820
12	5.08	55.88	62.96	3.54	277-1160-ND	3.09	2.79	2.48	MSTBVA 2.5/12-G-5.08	1755833
Fig. 8 — 5.0mm & 5.08mm Double Level PCB Header without Side Panels										
2	5.00	—	10.00	2.50	277-1379-ND	1.88	1.70	1.51	MDSTB 2.5/2-G	1762046
3	5.00	—	15.00	2.50	277-1380-ND	2.70	2.43	2.16	MDSTB 2.5/3-G	1762059
2	5.08	—	10.16	2.54	277-1381-ND	1.88	1.70	1.51	MDSTB 2.5/2-G-5.08	1762062
3	5.08	—	15.24	2.54	277-1382-ND	2.70	2.43	2.16	MDSTB 2.5/3-G-5.08	1762075
Fig. 9 — 2.5mm Spring Cage Terminal Block Plug										
2	2.5	2.5	5.6	1.55	277-1430-ND	2.77	2.49	2.22	FK-MC 0.5/2-ST-2.5	1881325
3	2.5	5.0	8.1	1.55	277-1431-ND	3.73	3.36	2.99	FK-MC 0.5/3-ST-2.5	1881338
4	2.5	7.5	10.6	1.55	277-1432-ND	4.71	4.25	3.78	FK-MC 0.5/4-ST-2.5	1881341
5	2.5	10.0	13.1	1.55	277-1433-ND	5.64	5.08	4.52	FK-MC 0.5/5-ST-2.5	1881354
6	2.5	12.5	15.6	1.55	277-1434-ND	6.64	5.98	5.31	FK-MC 0.5/6-ST-2.5	1881367
7	2.5	15.0	18.1	1.55	277-1435-ND	7.59	6.83	6.08	FK-MC 0.5/7-ST-2.5	1881370
8	2.5	17.5	20.6	1.55	277-1436-ND	8.61	7.75	6.89	FK-MC 0.5/8-ST-2.5	1881383
9	2.5	20.0	23.1	1.55	277-1437-ND	9.54	8.59	7.63	FK-MC 0.5/9-ST-2.5	1881396
10	2.5	22.5	25.6	1.55	277-1438-ND	10.55	9.50	8.44	FK-MC 0.5/10-ST-2.5	1881406
11	2.5	25.0	28.1	1.55	277-1439-ND	11.47	10.33	9.18	FK-MC 0.5/11-ST-2.5	1881419
12	2.5	27.5	30.6	1.55	277-1440-ND	12.48	11.24	9.99	FK-MC 0.5/12-ST-2.5	1881422
Fig. 10 — 2.5mm Connector Header - Right Angle										
2	2.5	2.5	6.9	2.2	277-1441-ND	.65	.59	.53	MC 0.5/2-G-2.5	1881448
3	2.5	5.0	9.4	2.2	277-1442-ND	.94	.85	.76	MC 0.5/3-G-2.5	1881451
4	2.5	7.5	11.9	2.2	277-1443-ND	1.24	1.12	1.00	MC 0.5/4-G-2.5	1881464
5	2.5	10.0	14.4	2.2	277-1444-ND	1.53	1.38	1.23	MC 0.5/5-G-2.5	1881477
6	2.5	12.5	16.9	2.2	277-1445-ND	1.81	1.64	1.45	MC 0.5/6-G-2.5	1881480
7	2.5	15.0	19.4	2.2	277-1446-ND	2.08	1.88	1.67	MC 0.5/7-G-2.5	1881493
8	2.5	17.5	21.9	2.2	277-1447-ND	2.38	2.15	1.91	MC 0.5/8-G-2.5	1881503
9	2.5	20.0	24.4	2.2	277-1448-ND	2.67	2.41	2.14	MC 0.5/9-G-2.5	1881516
10	2.5	22.5	26.9	2.2	277-1449-ND	2.97	2.68	2.38	MC 0.5/10-G-2.5	1881529
11	2.5	25.0	29.4	2.2	277-1450-ND	3.24	2.92	2.60	MC 0.5/11-G-2.5	1881532
12	2.5	27.5	31.9	2.2	277-1451-ND	3.54	3.19	2.84	MC 0.5/12-G-2.5	1881545
Fig. 11 — 2.5mm Connector Header - Vertical										
2	2.5	2.5	6.9	2.2	277-1452-ND	.65	.59	.53	MCV 0.5/2-G-2.5	1881558
3	2.5	5.0	9.4	2.2	277-1453-ND	.94	.85	.76	MCV 0.5/3-G-2.5	1881561
4	2.5	7.5	11.9	2.2	277-1454-ND	1.24	1.12	1.00	MCV 0.5/4-G-2.5	1881574
5	2.5	10.0	14.4	2.2	277-1455-ND	1.53	1.38	1.23	MCV 0.5/5-G-2.5	1881587
6	2.5	12.5	16.9	2.2	277-1456-ND	1.81	1.64	1.45	MCV 0.5/6-G-2.5	1881590
7	2.5	15.0	19.4	2.2	277-1457-ND	2.08	1.88	1.67	MCV 0.5/7-G-2.5	1881600
8	2.5	17.5	21.9	2.2	277-1458-ND	2.38	2.15	1.91	MCV 0.5/8-G-2.5	1881613
9	2.5	20.0	24.4	2.2	277-1459-ND	2.67	2.41	2.14	MCV 0.5/9-G-2.5	1881626
10	2.5	22.5	26.9	2.2	277-1460-ND	2.97	2.68	2.38	MCV 0.5/10-G-2.5	1881639
11	2.5	25.0	29.4	2.2	277-1461-ND	3.24	2.92	2.60	MCV 0.5/11-G-2.5	1881642
12	2.5	27.5	31.9	2.2	277-1462-ND	3.54	3.19	2.84	MCV 0.5/12-G-2.5	1881655
Fig. 12 — 3.81mm Connector Terminal Block Plug										
2	3.81	3.81	8.41	2.3	277-1161-ND	1.76	1.59	1.41	MC 1.5/2-ST-3.81	1803578
3	3.81	7.62	12.22	2.3	277-1162-ND	2.60	2.35	2.09	MC 1.5/3-ST-3.81	1803581
4	3.81	11.43	16.03	2.3	277-1163-ND	3.45	3.11	2.76	MC 1.5/4-ST-3.81	1803594
5	3.81	15.24	19.84	2.3	277-1164-ND	4.36	3.93	3.49	MC 1.5/5-ST-3.81	1803604
6	3.81	19.05	23.65	2.3	277-1165-ND	5.20	4.69	4.17	MC 1.5/6-ST-3.81	1803617
7	3.81	22.86	27.46	2.3	277-1166-ND	6.08	5.47	4.87	MC 1.5/7-ST-3.81	1803620
8	3.81	26.67	31.27	2.3	277-1167-ND	6.92	6.23	5.54	MC 1.5/8-ST-3.81	1803633
9	3.81	30.48	35.08	2.3	277-1168-ND	7.81	7.03	6.25	MC 1.5/9-ST-3.81	1803646
10	3.81	34.29	38.89	2.3	277-1169-ND	8.68	7.82	6.95	MC 1.5/10-ST-3.81	1803659
11	3.81	38.10	42.70	2.3	277-1170-ND	9.52	8.58	7.62	MC 1.5/11-ST-3.81	1803662
12	3.81	41.91	46.81	2.3	277-1171-ND	10.38	9.35	8.31	MC 1.5/12-ST-3.81	1803675
13	3.81	45.72	50.32	2.3	277-1172-ND	11.27	10.15	9.02	MC 1.5/13-ST-3.81	1803688
14	3.81	49.53	54.13	2.3	277-1173-ND	12.14	10.93	9.72	MC 1.5/14-ST-3.81	1803691
15	3.81	53.34	57.94	2.3	277-1174-ND	13.00	11.70	10.40	MC 1.5/15-ST-3.81	1803701
16	3.81	57.15	61.75	2.3	277-1175-ND	13.86	12.48	11.09	MC 1.5/16-ST-3.81	1803714
Fig. 13 — 3.81mm Connector Terminal Block Plug										
2	3.81	3.81	8.41	2.3	277-1176-ND	1.88	1.70	1.51	MCVW 1.5/2-ST-3.81	1826979
3	3.81	7.62	12.22	2.3	277-1177-ND	2.79	2.52	2.24	MCVW 1.5/3-ST-3.81	1826982
4	3.81	11.43	16.03	2.3	277-1178-ND	3.72	3.35	2.98	MCVW 1.5/4-ST-3.81	1826995

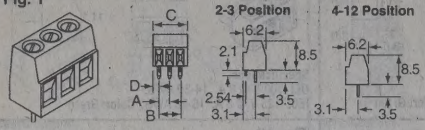
No. of Pos.	Dimensions (mm) A	B	C	D	Digi-Key Part No.	Price Each 1	10	100	Phoenix Contact Type No.	Phoenix Contact Part No.
5	3.81	15.24	19.84	2.3	277-1179-ND	4.67	4.21	3.74	MCVW 1.5/5-ST-3.81	1827004
6	3.81	19.05	23.65	2.3	277-1180-ND	5.60	5.04	4.48	MCVW 1.5/6-ST-3.81	1827017
7	3.81	22.86	27.46	2.3	277-1181-ND	6.53	5.88	5.23	MCVW 1.5/7-ST-3.81	1827020
8	3.81	26.67	31.27	2.3	277-1182-ND	7.47	6.72	5.98	MCVW 1.5/8-ST-3.81	1827033
9	3.81	30.48	35.08	2.3	277-1183-ND	8.42	7.58	6.74	MCVW 1.5/9-ST-3.81	1827046
10	3.81	34.29	38.89	2.3	277-1184-ND	9.32	8.39	7.46	MCVW 1.5/10-ST-3.81	1827059
11	3.81	38.10	42.70	2.3	277-1185-ND	10.27	9.25	8.22	MCVW 1.5/11-ST-3.81	1827062
12	3.81	41.91	46.51	2.3	277-1186-ND	11.23	10.11	8.99	MCVW 1.5/12-ST-3.81	1827075
13	3.81	45.72	50.32	2.3	277-1187-ND	12.14	10.93	9.72	MCVW 1.5/13-ST-3.81	1827088
14	3.81	49.53	54.13	2.3	277-1188-ND	13.08	11.78	10.47	MCVW 1.5/14-ST-3.81	1827091
15	3.81	53.34	57.94	2.3	277-1189-ND	14.02	12.62	11.22	MCVW 1.5/15-ST-3.81	1827101
16	3.81	57.15	61.75	2.3	277-1190-ND	14.95	13.46	11.96	MCVW 1.5/16-ST-3.81	1827114
Fig. 14 — 3.81mm Connector Terminal Block Plug										
2	3.81	3.81	8.41	2.3	277-1191-ND	1.88	1.70	1.51	MCVR 1.5/2-ST-3.81	1827127
3	3.81	7.62	12.22	2.3	277-1192-ND	2.79	2.52	2.24	MCVR 1.5/3-ST-3.81	1827130
4	3.81	11.43	16.03	2.3	277-1193-ND	3.72	3.35	2.98	MCVR 1.5/4-ST-3.81	1827143
5	3.81	15.24	19.84	2.3	277-1194-ND	4.67	4.21	3.74	MCVR 1.5/5-ST-3.81	1827156
6	3.81	19.05	23.65	2.3	277-1195-ND	5.60	5.04	4.48	MCVR 1.5/6-ST-3.81	1827169
7	3.81	22.86	27.46	2.3	277-1196-ND	6.53	5.88	5.23	MCVR 1.5/7-ST-3.81	1827172
8	3.81	26.67	31.27	2.3	277-1197-ND	7.47	6.72	5.98	MCVR 1.5/8-ST-3.81	1827185
9	3.81	30.48	35.08	2.3	277-1198-ND	8.42	7.58	6.74	MCVR 1.5/9-ST-3.81	1827198
10	3.81	34.29	38.89	2.3	277-1199-ND	9.32	8.39	7.46	MCVR 1.5/10-ST-3.81	1827208
11	3.81	38.10	42.70	2.3	277-1200-ND	10.27	9.25	8.22	MCVR 1.5/11-ST-3.81	1827211
12	3.81	41.91	46.51	2.3	277-1201-ND	11.23	10.11	8.99	MCVR 1.5/12-ST-3.81	1827224
13	3.81	45.72	50.32	2.3	277-1202-ND	12.14	10.93	9.72	MCVR 1.5/13-ST-3.81	1827237
14	3.81	49.53	54.13	2.3	277-1203-ND	13.08	11.78	10.47	MCVR 1.5/14-ST-3.81	1827240
15	3.81	53.34	57.94	2.3	277-1204-ND	14.02	12.62	11.22	MCVR 1.5/15-ST-3.81	1827253
16	3.81	57.15	61.75	2.3	277-1205-ND	14.95	13.46	11.96	MCVR 1.5/16-ST-3.81	1827266
Fig. 15 — 3.81mm Connector Header — Right Angle										
2	3.81	3.81	9.01	2.6	277-1206-ND	.60	.54	.48	MC 1.5/2-G-3.81	1803277
3	3.81	7.62	12.82	2.6	277-1207-ND	.91	.83	.74	MC 1.5/3-G-3.81	1803280
4	3.81	11.43	16.63	2.6	277-1208-ND	1.21	1.10	.98	MC 1.5/4-G-3.81	1803293
5	3.81	15.24	20.44	2.6	277-1209-ND	1.50	1.35	1.20	MC 1.5/5-G-3.81	1803303
6	3.81	19.05	24.25	2.6	277-1210-ND	1.81	1.64	1.45	MC 1.5/6-G-3.81	1803316
7	3.81	22.86	28.06	2.6	277-1211-ND	2.11	1.91	1.69	MC 1.5/7-G-3.81	1803329
8	3.81	26.67	31.87	2.6	277-1212-ND	2.40	2.16	1.92	MC 1.5/8-G-3.81	1803332
9	3.81	30.48	35.68	2.6	277-1213-ND	2.74	2.47	2.20	MC 1.5/9-G-3.81	1803345
10	3.81	34.29	39.49	2.6	277-1214-ND	3.02	2.73	2.42	MC 1.5/10-G-3.81	1803358
11	3.81	38.10	43.30	2.6	277-1215-ND	3.31	2.98	2.65	MC 1.5/11-G-3.81	1803361
12	3.81	41.91	47.11	2.6	277-1216-ND	3.64	3.28	2.92	MC 1.5/12-G-3.81	1803374
13	3.81	45.72	50.92	2.6	277-1217-ND	3.91	3.52	3.13	MC 1.5/13-G-3.81	1803387
14	3.81	49.53	54.73	2.6	277-1218-ND	4.21	3.79	3.37	MC 1.5/14-G-3.81	1803390
15	3.81	53.34	58.54	2.6	277-1219-ND	4.52	4.08	3.62	MC 1.5/15-G-3.81	1803400
16	3.81	57.16	62.35	2.6	277-1220-ND	4.81	4.33	3.85	MC 1.5/16-G-3.81	1803413
Fig. 16 — 3.81mm Connector Header — Vertical										
2	3.81	3.81	9.01	2.6	277-1221-ND	.60	.54	.48	MCV 1.5/2-G-3.81	1803426
3	3.81	7.62	12.82	2.6	277-1222-ND	.91	.83	.74	MCV 1.5/3-G-3.81	1803439
4	3.81	11.43	16.63	2.6	277-1223-ND	1.21	1.10	.98	MCV 1.5/4-G-3.81	1803442
5	3.81	15.24	20.44	2.6	277-1224-ND	1.50	1.35	1.20	MCV 1.5/5-G-3.81	1803455
6	3.81	19.05	24.25	2.6	277-1225-ND	1.81	1.64	1.45	MCV 1.5/6-G-3.81	1803468
7	3.81	22.86	28.06	2.6	277-1226-ND	2.11	1.91	1.69	MCV 1.5/7-G-3.81	1803471
8	3.81	26.67	31.87	2.6	277-1227-ND	2.40	2.16	1.92	MCV 1.5/8-G-3.81	1803484
9	3.81	30.48	35.68	2.6	277-1228-ND	2.74	2.47	2.20	MCV 1.5/9-G-3.81	1803497
10	3.81	34.29	39.49	2.6	277-1229-ND	3.02	2.73	2.42	MCV 1.5/10-G-3.81	1803507
11	3.81	38.10	43.30	2.6	277-1230-ND	3.31	2.98	2.65	MCV 1.5/11-G-3.81	1803510
12	3.81	41.91	47.11	2.6	277-1231-ND	3.64	3.28	2.92	MCV 1.5/12-G-3.81	1803523
13	3.81	45.72	50.92	2.6	277-1232-ND	3.91	3.52	3.13	MCV 1.5/13-G-3.81	1803536
14	3.81	49.53	54.73	2.6	277-1233-ND	4.21	3.79	3.37	MCV 1.5/14-G-3.81	1803549
15	3.81	53.34	58.54	2.6	277-1234-ND	4.52	4.08	3.62	MCV 1.5/15-G-3.81	1803552
16	3.81	57.15	62.35	2.6	277-1235-ND	4.81	4.33	3.85	MCV 1.5/16-G-3.81	1803565
Fig. 17 — 7.62mm Connector Terminal Block Plug										
2	7.62	7.62	15.22	3.8	277-1463-ND	4.07	3.67	3.26	PC 4 HV/2-ST-7.62	1848892
3	7.62	15.24	22.84	3.8	277-1464-ND	6.13	5.52	4.91	PC 4 HV/3-ST-7.62	1848902
4	7.62	22.86	30.46	3.8	277-1465-ND	8.15	7.34	6.52	PC 4 HV/4-ST-7.62	1848915
Fig. 18 — 7.62mm Connector Header — Right Angle										
2	7.62	7.62	15.22	3.8	277-1466-ND	2.64	2.38	2.12	PC 4/2-G-7.62	1804797
3	7.62	15.24	22.84	3.8	277-1467-ND	3.97	3.57	3.18	PC 4/3-G-7.62	1804807
4	7.62	22.86	30.46	3.8	277-1468-ND	5.23	4.71	4.19	PC 4/4-G-7.62	1804810
Fig. 19 — 7.62mm Connector Header — Vertical										
2	7.62	7.62	15.22	3.8	277-1469-ND	2.64	2.38	2.12	PCV 4/2-G-7.62	1804687
3	7.62	15.24	22.84	3.8	277-1470-ND	3.97	3.57	3.18	PCV 4/3-G-7.62	1804690
4	7.62	22.86	30.46	3.8	277-1471-ND	5.23	4.71	4.19	PCV 4/4-G-7.62	1804700

Terminal Blocks

Micro-Pitch Terminal Blocks: The MPT 0.5 is the smallest screw terminal block available. With a micro-pitch of 2.54mm, the MPT 0.5 is ideal for high density applications.

Press Fit Terminal Blocks: The Press-Fit printed circuit board terminal block line is the perfect solution when wave soldering is not an option. The Press-Fit line is available in both fixed and pluggable styles.

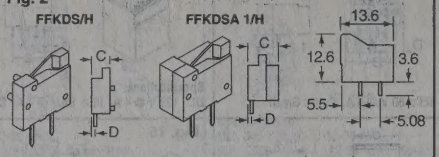
Fig. 1



NOTE: The 2 and 3 position versions have an additional locating pin to support the mechanical load.

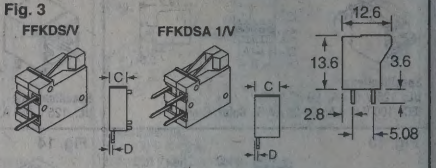
Specifications: UL: 125V @ 6A, 30-20 AWG
IEC: 63V @ 6A, 26-20 AWG **Color:** Green

Fig. 2



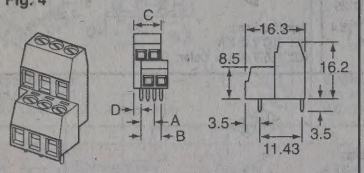
Specifications: UL: 150V @ 6A, 26-20 AWG
IEC: 63V @ 6A, 26-20 AWG **Color:** Green

Fig. 3



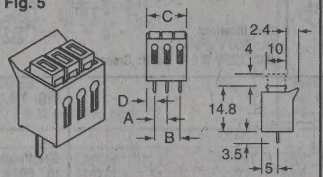
Specifications: UL: 150V @ 6A, 26-20 AWG
IEC: 63V @ 6A, 26-20 AWG **Color:** Green

Fig. 4



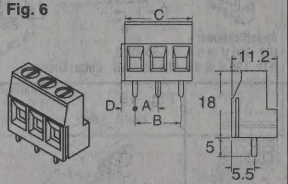
Specifications:
UL: 300V @ 10A, 30-16 AWG
IEC: 125V @ 10A, 26-16 AWG
Color: Green

Fig. 5



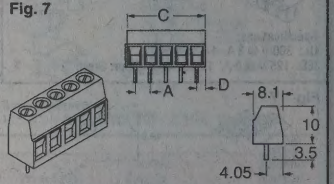
Specifications:
UL: 300V @ 5A, 28-22 AWG
IEC: 125V @ 5A, 26-22 AWG
Color: Green

Fig. 6



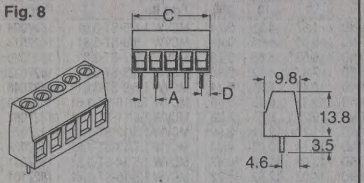
Specifications:
UL: 300V @ 15A, 12-30 AWG
IEC: 250V @ 32A, 12-24 AWG
Color: Green

Fig. 7



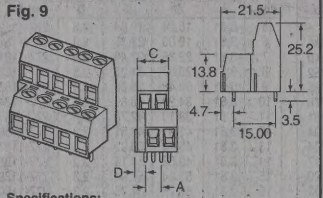
Specifications:
UL: 300V @ 10A, 14-30 AWG
IEC: 250V @ 16A, 16-26 AWG
Color: Green

Fig. 8



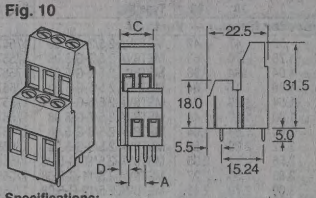
Specifications:
UL: 300V @ 10A, 14-30 AWG
IEC: 250V @ 24A, 14-26 AWG **Color:** Green

Fig. 9



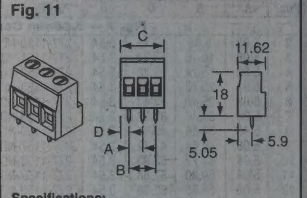
Specifications:
UL: 300V @ 10A, 30-14 AWG
IEC: 250V @ 24A, 26-14 AWG **Color:** Green

Fig. 10



Specifications:
UL: 300V @ 10A, 30-12 AWG
IEC: 250V @ 22A, 24-12 AWG **Color:** Green

Fig. 11



Specifications:
UL: 300V @ 10A, 30-12 AWG
IEC: 250V @ 12A, 28-14 AWG **Color:** Green

No. of Pos.	Dimensions (mm) A	B	C	D	Digi-Key Part No.	Price Each 1	10	100	Phoenix Contact Type No.	Phoenix Contact Part No.
Fig. 1 — 2.54mm Micro-Pitch Terminal Blocks										
2	2.54	2.54	5.54	1.50	277-1273-ND	1.14	1.03	.92	MPT 0.5/2-2.54	1725656
3	2.54	5.08	8.08	1.50	277-1274-ND	1.72	1.55	1.38	MPT 0.5/3-2.54	1725669
4	2.54	7.62	10.62	1.50	277-1275-ND	2.32	2.09	1.86	MPT 0.5/4-2.54	1725672
5	2.54	10.16	13.16	1.50	277-1276-ND	2.88	2.59	2.30	MPT 0.5/5-2.54	1725685
6	2.54	12.70	15.70	1.50	277-1277-ND	3.45	3.11	2.76	MPT 0.5/6-2.54	1725698
7	2.54	15.24	18.24	1.50	277-1278-ND	4.01	3.61	3.21	MPT 0.5/7-2.54	1725708
8	2.54	17.78	20.78	1.50	277-1279-ND	4.61	4.15	3.69	MPT 0.5/8-2.54	1725711
9	2.54	20.32	23.32	1.50	277-1280-ND	5.16	4.65	4.14	MPT 0.5/9-2.54	1725724
10	2.54	22.86	25.86	1.50	277-1281-ND	5.75	5.18	4.60	MPT 0.5/10-2.54	1725737
11	2.54	25.40	28.40	1.50	277-1282-ND	6.34	5.71	5.07	MPT 0.5/11-2.54	1725740
12	2.54	27.94	30.94	1.50	277-1283-ND	6.92	6.23	5.54	MPT 0.5/12-2.54	1725753
Fig. 2 — Modular 2.54mm PCB Spring Cage Fixed Terminal Block - Horizontal Wire Entry										
1	—	—	2.54	0.90	277-1310-ND	.78	.70	.63	FFKDS/H-2.54	1791826
Fig. 2 — End Terminal Block for FFKDS/H-2.54										
1	—	—	5.08	0.90	277-1311-ND	1.24	1.12	1.00	FFKDSA 1/H-5.08	1791868
Fig. 3 — Modular 2.54mm PCB Spring Cage Fixed Terminal Block - Vertical Wire Entry										
1	—	—	2.54	0.90	277-1312-ND	.78	.70	.63	FFKDS/V-2.54	1791813
Fig. 3 — End Terminal Block for FFKDS/V-2.54										
1	—	—	5.08	0.90	277-1313-ND	1.19	1.07	.95	FFKDSA 1/V-5.08	1791855
Fig. 4 — 3.81mm Double Level Terminal Blocks										
2	3.81	3.81	7.62	1.90	277-1356-ND	2.86	2.58	2.29	MKKDS 1/2-3.81	1708026
3	3.81	7.62	11.43	1.90	277-1357-ND	4.28	3.85	3.43	MKKDS 1/3-3.81	1708039
4	3.81	11.43	15.24	1.90	277-1358-ND	5.72	5.15	4.58	MKKDS 1/4-3.81	1708042
5	3.81	15.24	19.05	1.90	277-1359-ND	7.14	6.43	5.72	MKKDS 1/5-3.81	1708055
6	3.81	19.05	22.86	1.90	277-1360-ND	8.57	7.72	6.86	MKKDS 1/6-3.81	1708068
7	3.81	22.86	26.67	1.90	277-1361-ND	10.01	9.02	8.02	MKKDS 1/7-3.81	1708071
8	3.81	26.67	30.48	1.90	277-1362-ND	11.45	10.31	9.16	MKKDS 1/8-3.81	1708084
9	3.81	30.48	34.29	1.90	277-1363-ND	12.89	11.60	10.32	MKKDS 1/9-3.81	1708107
10	3.81	34.29	38.10	1.90	277-1364-ND	14.32	12.89	11.46	MKKDS 1/10-3.81	1708110
11	3.81	38.10	41.91	1.90	277-1365-ND	15.75	14.18	12.61	MKKDS 1/11-3.81	1708123
12	3.81	41.91	45.72	1.90	277-1366-ND	17.18	15.47	13.75	MKKDS 1/12-3.81	1708136
Fig. 5 — 3.81mm Insulation Displacement Terminal Blocks										
2	3.81	3.81	8.81	2.50	277-1417-ND	.90	.81	.72	IDC 0.3/2-3.81	1706170
3	3.81	7.62	12.62	2.50	277-1418-ND	1.29	1.17	1.04	IDC 0.3/3-3.81	1706183
4	3.81	11.43	16.43	2.50	277-1419-ND	1.65	1.49	1.32	IDC 0.3/4-3.81	1706196
5	3.81	15.24	20.24	2.50	277-1420-ND	2.04	1.84	1.64	IDC 0.3/5-3.81	1706206
6	3.81	19.06	24.05	2.50	277-1421-ND	2.40	2.16	1.92	IDC 0.3/6-3.81	1706219
7	3.81	22.86	27.86	2.50	277-1422-ND	2.81	2.53	2.25	IDC 0.3/7-3.81	1706222
8	3.81	26.67	31.67	2.50	277-1423-ND	3.16	2.85	2.53	IDC 0.3/8-3.81	1706235
9	3.81	30.48	35.48	2.50	277-1424-ND	3.54	3.19	2.84	IDC 0.3/9-3.81	1706248
10	3.81	34.29	39.29	2.50	277-1425-ND	3.92	3.54	3.14	IDC 0.3/10-3.81	1706251
11	3.81	38.10	43.10	2.50	277-1426-ND	4.31	3.88	3.45	IDC 0.3/11-3.81	1706264
12	3.81	41.91	46.91	2.50	277-1427-ND	4.67	4.21	3.74	IDC 0.3/12-3.81	1706277
Fig. 6 — 5mm PCB Connector Terminal Block										
2	5.0	5	10	2.5	277-1022-ND	1.46	1.32	1.17	MKDS 3/2	1711026
3	5.0	10	15	2.5	277-1023-ND	2.22	2.00	1.78	MKDS 3/3	1711039
4	5.0	15	20	2.5	277-1024-ND	2.93	2.64	2.35	MKDS 3/4	1711042
5	5.0	35	40	2.5	277-1025-ND	5.87	5.29	4.70	MKDS 3/8	1711084
12	5.0	55	60	2.5	277-1026-ND	8.76	7.89	7.01	MKDS 3/12	1711123

No. of Pos.	Dimensions (mm) A	B	C	D	Digi-Key Part No.	Price Each 1	10	100	Phoenix Contact Type No.	Phoenix Contact Part No.
Fig. 7 — 5mm PCB Connector Terminal Block										
2	5.0	—	10	2.5	277-1236-ND	.78	.70	.63	MKDSN 1,5/2	1729018
3	5.0	—	15	2.5	277-1237-ND	1.19	1.07	.95	MKDSN 1,5/3	1729021
4	5.0	—	20	2.5	277-1238-ND	1.57	1.41	1.26	MKDSN 1,5/4	1729034
5	5.0	—	25	2.5	277-1239-ND	1.95	1.76	1.56	MKDSN 1,5/5	1729047
6	5.0	—	30	2.5	277-1240-ND	2.34	2.11	1.88	MKDSN 1,5/6	1729050
7	5.0	—	35	2.5	277-1241-ND	2.75	2.48	2.21	MKDSN 1,5/7	1729063
8	5.0	—	40	2.5	277-1242-ND	3.13	2.82	2.51	MKDSN 1,5/8	1729076
9	5.0	—	45	2.5	277-1243-ND	3.53	3.18	2.83	MKDSN 1,5/9	1729089
10	5.0	—	50	2.5	277-1244-ND	3.91	3.52	3.13	MKDSN 1,5/10	1729092
11	5.0	—	55	2.5	277-1245-ND	4.29	3.87	3.44	MKDSN 1,5/11	1729102
12	5.0	—	60	2.5	277-1246-ND	4.70	4.24	3.77	MKDSN 1,5/12	1729115
Fig. 8 — 5mm PCB Connector Terminal Block										
2	5.0	—	10	2.5	277-1258-ND	.93	.84	.75	MKDS 1,5/2	1715022
3	5.0	—	15	2.5	277-1259-ND	1.39	1.26	1.12	MKDS 1,5/3	1715035
4	5.0	—	20	2.5	277-1260-ND	1.87	1.68	1.50	MKDS 1,5/4	1715048
8	5.0	—	40	2.5	277-1261-ND	3.69	3.33	2.96	MKDS 1,5/8	1715080
12	5.0	—	60	2.5	277-1262-ND	5.59	5.03	4.47	MKDS 1,5/12	1715129
Fig. 9 — 5.0mm & 5.08mm Double Level Terminal Blocks										
2	5.00	—	10.00	2.50	277-1367-ND	2.22	2.00	1.78	MKKDS 1,5/2	1725012
3	5.00	—	15.00	2.50	277-1368-ND	3.31	2.98	2.65	MKKDS 1,5/3	1725025
2	5.08	—	10.16	2.54	277-1369-ND	2.22	2.00	1.78	MKKDS 1,5/2-5.08	1725038
3	5.08	—	15.24	2.54	277-1370-ND	3.31	2.98	2.65	MKKDS 1,5/3-5.08	1725041
Fig. 10 — 5.0mm & 5.08mm Double Level Terminal Blocks										
2	5.00	—	10.00	2.50	277-1371-ND	3.75	3.38	3.00	MKKDS 3/2	1721029
3	5.00	—	15.00	2.50	277-1372-ND	5.63	5.07	4.51	MKKDS 3/3	1721032
2	5.08	—	10.16	2.54	277-1373-ND	3.75	3.38	3.00	MKKDS 3/2-5.08	1721728
3	5.08	—	15.24	2.54	277-1374-ND	5.63	5.07	4.51	MKKDS 3/3-5.08	1721731
Fig. 11 — 5.08mm Press-Fit PCB Terminal Blocks										
2	5.08	5.08	11.34	3.13	277-1284-ND	1.69	1.53	1.36	EMKDS 2,5/2-5.08	1730612
3	5.08	10.16	16.42	3.13	277-1285-ND	2.51	2.26	2.01	EMKDS 2,5/3-5.08	1730625
4	5.08	15.24	21.50	3.13	277-1286-ND	3.38	3.05	2.71	EMKDS 2,5/4-5.08	1730638
5	5.08	20.32	26.58	3.13	277-1287-ND	4.21	3.79	3.37	EMKDS 2,5/5-5.08	1730641
6	5.08	25.40	31.66	3.13	277-1288-ND	5.07	4.57	4.06	EMKDS 2,5/6-5.08	1730654
7	5.08	30.48	36.74	3.13	277-1289-ND	5.90	5.31	4.72	EMKDS 2,5/7-5.08	1730667
8	5.08	35.56	41.82	3.13	277-1290-ND	6.70	6.04	5.37	EMKDS 2,5/8-5.08	1730670
9	5.08	40.64	46.90	3.13	277-1291-ND	7.59	6.83	6.08	EMKDS 2,5/9-5.08	1730683
10	5.08	45.72	51.98	3.13	277-1292-ND	8.41	7.57	6.73	EMKDS 2,5/10-5.08	1730696
11	5.08	50.80	57.06	3.13	277-1293-ND	9.28	8.36	7.43	EMKDS 2,5/11-5.08	1730706
12	5.08	55.88	62.14	3.13	277-1294-ND	10.12	9.12	8.10	EMKDS 2,5/12-5.08	1730719
Fig. 6 — 5.08mm PCB Connector Terminal Block										
2	5.08	5.08	10.16	2.54	277-1027-ND	1.46	1.32	1.17	MKDS 3/2-5.08	1711725
3	5.08	10.16	15.24	2.54	277-1028-ND	2.22	2.00	1.78	MKDS 3/3-5.08	1711738
Fig. 7 — 5.08mm PCB Connector Terminal Block										
2	5.08	—	10.16	2.54	277-1247-ND	.78	.70	.63	MKDSN 1,5/2-5.08	1729128
3	5.08	—	15.24	2.54	277-1248-ND	1.19	1.07	.95	MKDSN 1,5/3-5.08	1729131
4	5.08	—	20.32	2.54	277-1249-ND	1.57	1.41	1.26	MKDSN 1,5/4-5.08	1729144
5	5.08	—	25.40	2.54	277-1250-ND	1.95	1.76	1.56	MKDSN 1,5/5-5.08	1729157
6	5.08	—	30.48	2.54	277-1251-ND	2.34	2.11	1.88	MKDSN 1,5/6-5.08	1729160
7	5.08	—	35.56	2.54	277-1252-ND	2.75	2.48	2.21	MKDSN 1,5/7-5.08	1729173
8	5.08	—	40.64	2.54	277-1253-ND	3.13	2.82	2.51	MKDSN 1,5/8-5.08	1729186
9	5.08	—	45.72	2.54	277-1254-ND	3.53	3.18	2.83	MKDSN 1,5/9-5.08	1729199

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JOHNSON Components — Plugs and Jacks

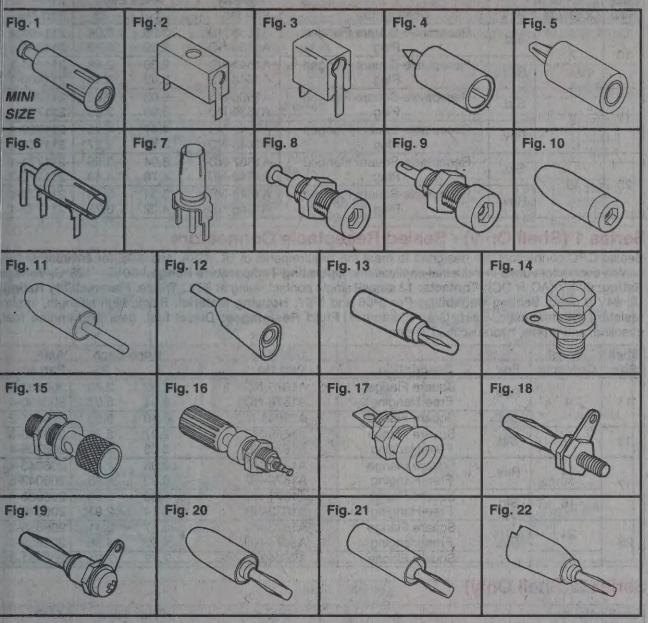

Fig.	Color	Digi-Key Part No.	Pricing 1	10	100	250	500	1,000	Johnson Part No.
Tip Jacks – for Standard Tip Plug: 2.03mm									
1	White	J330-ND	1.05	9.36	74.10	156.00	292.50	546.00	105-1041-001
	Red	J124-ND	1.05	9.36	74.10	156.00	292.50	546.00	105-1042-001
	Black	J125-ND	1.05	9.36	74.10	156.00	292.50	546.00	105-1043-001
	Green	J331-ND	1.05	9.36	74.10	156.00	292.50	546.00	105-1044-001
	Yellow	J333-ND	1.05	9.36	74.10	156.00	292.50	546.00	105-1047-001
	Blue	J126-ND	1.05	9.36	74.10	156.00	292.50	546.00	105-1050-001
Horizontal Test Jacks – for Standard Tip Plug: 2.03mm									
2	White	J108-ND	.38	3.36	26.60	56.00	105.00	196.00	105-0751-001
	Red	J109-ND*	.38	3.36	26.60	56.00	105.00	196.00	105-0752-001
	Black	J110-ND*	.38	3.36	26.60	56.00	105.00	196.00	105-0753-001
	Green	J111-ND	.38	3.36	26.60	56.00	105.00	196.00	105-0754-001
	Orange	J112-ND	.38	3.36	26.60	56.00	105.00	196.00	105-0756-001
	Yellow	J113-ND	.38	3.36	26.60	56.00	105.00	196.00	105-0757-001
	Brown	J114-ND	.38	3.36	26.60	56.00	105.00	196.00	105-0758-001
	Blue	J115-ND	.38	3.36	26.60	56.00	105.00	196.00	105-0760-001
	Violet	J116-ND	.38	3.36	26.60	56.00	105.00	196.00	105-0762-001
Horizontal Insulated Miniature Test Jacks – for Standard Tip Plug: 2.03mm									
3	White	J575-ND	.37	3.26	25.84	54.40	102.00	190.40	105-1101-001
	Red	J576-ND	.37	3.26	25.84	54.40	102.00	190.40	105-1102-001
	Black	J577-ND	.37	3.26	25.84	54.40	102.00	190.40	105-1103-001
	Green	J578-ND	.37	3.26	25.84	54.40	102.00	190.40	105-1104-001
	Yellow	J579-ND	.37	3.26	25.84	54.40	102.00	190.40	105-1107-001
	Blue	J580-ND	.37	3.26	25.84	54.40	102.00	190.40	105-1110-001
Vertical Test Jacks – for Standard Tip Plug: 2.03mm									
4	White	J119-ND	.57	5.06	40.09	84.40	158.25	295.40	105-0851-001
	Red	J120-ND	.57	5.06	40.09	84.40	158.25	295.40	105-0852-001
	Black	J121-ND	.57	5.06	40.09	84.40	158.25	295.40	105-0853-001
	Green	J122-ND	.57	5.06	40.09	84.40	158.25	295.40	105-0854-001
	Yellow	J123-ND	.57	5.06	40.09	84.40	158.25	295.40	105-0857-001
	Blue	J312-ND	.57	5.06	40.09	84.40	158.25	295.40	105-0860-001
Vertical Insulated Formed Contact Test Jacks – for Standard Tip Plug: 2.03mm									
5	White	J581-ND	.52	4.58	36.29	76.40	143.25	267.40	105-2201-201
	Red	J582-ND	.52	4.58	36.29	76.40	143.25	267.40	105-2202-201
	Black	J583-ND	.52	4.58	36.29	76.40	143.25	267.40	105-2203-201
	Green	J584-ND	.52	4.58	36.29	76.40	143.25	267.40	105-2204-201
	Yellow	J585-ND	.52	4.58	36.29	76.40	143.25	267.40	105-2207-201
Shielded Test Jack – Horizontal									
6	Tin	J463-ND	4.02	35.71	282.72	595.20	1116.00	2083.20	129-0701-301
	Gold	J571-ND	4.96	43.46	320.25	686.25	1143.75	—	129-0701-302
Shielded Test Jack – Vertical									
7	Tin	J462-ND	3.74	33.26	263.34	554.40	1039.50	1940.40	129-0701-201
	Gold	J570-ND	4.62	40.50	298.41	639.45	1065.75	—	129-0701-202
Tip Jacks – Insulated Deluxe: 2.00mm									
8	White	J105-ND	1.10	9.79	77.52	163.20	306.00	571.20	105-0601-001
	Red	J106-ND	1.10	9.79	77.52	163.20	306.00	571.20	105-0602-001
	Black	J107-ND	1.10	9.79	77.52	163.20	306.00	571.20	105-0603-001
	Green	J337-ND	1.10	9.79	77.52	163.20	306.00	571.20	105-0604-001
	Yellow	J338-ND	1.10	9.79	77.52	163.20	306.00	571.20	105-0607-001
	Blue	J339-ND	1.10	9.79	77.52	163.20	306.00	571.20	105-0610-001
Tip Jacks – Insulated Standard Type: 2.00mm									
9	White	J320-ND	.63	5.64	44.65	94.00	176.25	329.00	105-0801-001
	Red	J117-ND*	.63	5.64	44.65	94.00	176.25	329.00	105-0802-001
	Black	J118-ND*	.63	5.64	44.65	94.00	176.25	329.00	105-0803-001
	Green	J321-ND	.63	5.64	44.65	94.00	176.25	329.00	105-0804-001
	Yellow	J323-ND	.63	5.64	44.65	94.00	176.25	329.00	105-0807-001
	Blue	J325-ND	.64	5.66	44.84	94.40	177.00	330.40	105-0810-001
Tip Jacks with Sleeve Assembly: 2.00mm									
10	White	J450-ND	1.31	11.64	92.15	194.00	363.75	679.00	105-0701-001
	Red	J451-ND	1.31	11.64	92.15	194.00	363.75	679.00	105-0702-001
	Black	J452-ND	1.31	11.64	92.15	194.00	363.75	679.00	105-0703-001

Fig.	Color	Digi-Key Part No.	Pricing 1	10	100	250	500	1,000	Johnson Part No.
Tip Plugs – Insulated Solderless Type: 2.00mm									
11	White	J300-ND	.76	6.79	53.77	113.20	212.25	396.20	105-0301-001
	Red	J103-ND*	.76	6.79	53.77	113.20	212.25	396.20	105-0302-001
	Black	J104-ND*	.76	6.79	53.77	113.20	212.25	396.20	105-0303-001
	Green	J301-ND	.76	6.79	53.77	113.20	212.25	396.20	105-0304-001
	Blue	J305-ND	.76	6.79	53.77	113.20	212.25	396.20	105-0310-001
Tip Plugs – Insulated Stacking Single Type: 2.00mm									
12	Red	J454-ND	2.19	19.44	153.90	324.00	607.50	1134.00	105-1202-001
Miniature Banana Plugs – Insulated Solder Type: 2.64mm									
13	Red	J457-ND	1.52	13.51	106.97	225.20	422.25	788.20	108-1002-001
	Black	J458-ND	1.52	13.51	106.97	225.20	422.25	788.20	108-1003-001
Banana Jack – for Standard Banana Plug 4.44mm Across Flats									
14	—	J147-ND*	1.22	10.85	85.88	180.80	339.00	632.80	108-0740-001
Uninsulated w/Knurled Thumb Nut for Standard Banana Plug 4.44mm Across Flats									
15	—	J587-ND	2.35	20.93	165.68	348.80	654.00	1220.80	111-2223-001
Binding Posts – Insulated Standard: 4.44mm									
16	White	J370-ND	1.98	17.62	139.46	293.60	550.50	1027.60	111-0101-001
	Red	J164-ND*	1.98	17.62	139.46	293.60	550.50	1027.60	111-0102-001
	Black	J165-ND*	1.98	17.62	139.46	293.60	550.50	1027.60	111-0103-001
	Green	J371-ND	2.14	19.01	150.48	316.80	594.00	1108.80	111-0104-001
	Yellow	J372-ND	1.98	17.62	139.46	293.60	550.50	1027.60	111-0107-001
Banana Jacks – Insulated Solder Terminal: 4.44mm									
17	White	J150-ND*	.49	4.34	34.39	72.40	135.75	253.40	108-0901-001
	Red	J151-ND*	.49	4.34	34.39	72.40	135.75	253.40	108-0902-001
	Black	J152-ND*	.49	4.34	34.39	72.40	135.75	253.40	108-0903-001
	Green	J153-ND	.54	4.82	38.19	80.40	150.75	281.40	108-0904-001
	Orange	J356-ND	.49	4.34	34.39	72.40	135.75	253.40	108-0906-001
	Yellow	J154-ND	.49	4.34	34.39	72.40	135.75	253.40	108-0907-001
	Brown	J357-ND	.54	4.82	38.19	80.40	150.75	281.40	108-0908-001
	Blue	J155-ND	.49	4.34	34.39	72.40	135.75	253.40	108-0910-001
	Violet	J358-ND	.54	4.82	38.19	80.40	150.75	281.40	108-0912-001
	Gray	J359-ND	.49	4.34	34.39	72.40	135.75	253.40	108-0913-001
Banana Plug – Uninsulated Panel Mount Threaded Stud: 4.23mm									
18	—	J148-ND	1.29	11.47	90.82	191.20	358.50	669.20	108-0750-001
Banana Plug – Uninsulated Panel Mount Screw Type: 4.23mm									
19	—	J149-ND	1.11	9.89	78.28	164.80	309.00	576.80	108-0753-001
Banana Plugs – Insulated Solderless Tapered Handle: 4.23mm									
20	White	J144-ND*	1.03	9.17	72.58	152.80	286.50	534.80	108-0301-001
	Red	J145-ND*	1.03	9.17	72.58	152.80	286.50	534.80	108-0302-001
	Black	J146-ND*	1.03	9.17	72.58	152.80	286.50	534.80	108-0303-001
	Green	J340-ND	1.03	9.17	72.58	152.80	286.50	534.80	108-0304-001
	Orange	J341-ND	1.03	9.17	72.58	152.80	286.50	534.80	108-0306-001
	Yellow	J342-ND	1.03	9.17	72.58	152.80	286.50	534.80	108-0307-001
	Brown	J343-ND	1.03	9.17	72.58	152.80	286.50	534.80	108-0308-001
	Blue	J344-ND	1.03	9.17	72.58	152.80	286.50	534.80	108-0310-001
	Violet	J345-ND	1.03	9.17	72.58	152.80	286.50	534.80	108-0312-001
	Gray	J346-ND	1.03	9.17	72.58	152.80	286.50	534.80	108-0313-001
Banana Plugs – Insulated Round Body Solder Stud: 4.23mm									
21	Red	J156-ND	2.08	18.46	146.11	307.60	576.75	1076.60	108-1722-101
	Black	J157-ND	2.08	18.46	146.11	307.60	576.75	1076.60	108-1723-101
Banana Plugs – Insulated Round Body Solderless: 4.23mm									
21	Red	J158-ND	1.58	14.04	111.15	234.00	438.75	819.00	108-1722-103
	Black	J159-ND	1.58	14.04	111.15	234.00	438.75	819.00	108-1723-103
Banana Plugs – Insulated Stacking Single Type: 4.23mm									
22	White	J459-ND	1.72	15.26	120.84	254.40	477.00	890.40	108-1081-001
	Red	J460-ND	1.72	15.26	120.84	254.40	477.00	890.40	108-1082-001
	Black	J461-ND	1.72	15.26	120.84	254.40	477.00	890.40	108-1083-001

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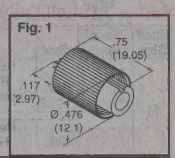
Mechanical: • Environmental sealing: IP 67 - water immersion, 1M for 30 minutes • Wire size: 24-30 AWG • Max. Operating Temperature: 392°F (200°C)



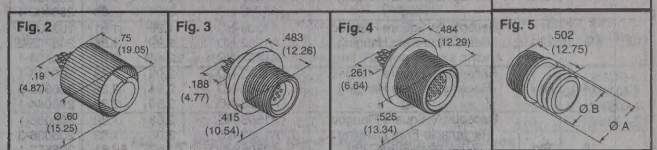


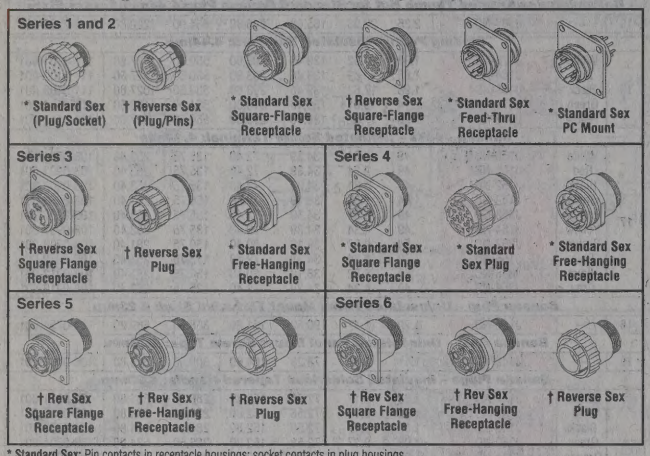
Fig.	No. of Pos.	Shell Size	Contact System	Dimensions – Inch (mm) A	B	Digi-Key Part No.	Price Each 1	100	1000	Amp/Tyco Part No.
Plug Assembly										
1	7	M11	Spring Probe	—	—	A30545-ND	41.58	33.66	28.71	1738548-1
	7	M11	Pin	—	—	A30547-ND	36.39	29.47	25.13	1738541-1
2	19	M14	Spring Probe	—	—	A30546-ND	59.77	48.39	41.27	1738552-1
	19	M14	Pin	—	—	A30548-ND	55.88	45.24	38.59	1738550-1
Rear Panel Mount Receptacle Assembly										
3	7	M11	Spring Probe	—	—	A30551-ND	27.28	22.09	18.84	1604750-1
	7	M11	Socket	—	—	A30543-ND	26.00	21.05	17.96	1738547-1
4	19	M14	Spring Probe	—	—	A30542-ND	41.58	33.66	28.71	1738553-1
	19	M14	Socket	—	—	A30544-ND	37.67	30.50	26.02	1738551-1
Overmold Adapter										
5	—	M11	—	.326 (8.29)	.295 (7.5)	A30549-ND	11.34	9.18	7.83	1604366-4
	—	M14	—	.424 (10.76)	.385 (9.8)	A30550-ND	11.34	9.18	7.83	1604366-3
Accessories										
Jam Nut, M14, (sold seperately)						A30554-ND	10.40	8.42	7.18	1811277-3
Rear Panel Seal, M14						A30552-ND	.86	.70	.60	1445420-5

Circular Plastic Connectors

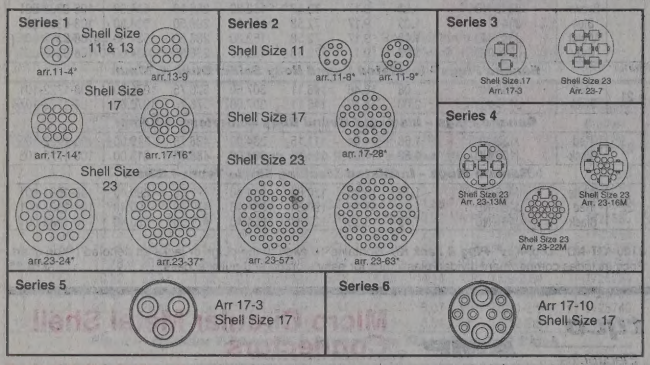
• Lightweight, all-plastic connectors • CPC connectors made of UL recognized, high-grade black thermoplastic material • 94V-1 rated, heat-stabilized, fire-resistant, self-extinguishing • Two connector series for different connection needs: **Series 1** — Standard density applications with Multimate contacts. **Series 2** — High-density applications with size 20 DM and 20 DF contacts, .040" (1.02 mm) diameter. • Available in panel-mount, chassis-mount and free hanging versions • Quick-connect/disconnect capability with thread assist, positive detent coupling • Built-in pin and socket protection. Plug or socket half can be "hot", depending on connector sex • 5-key polarization for proper mating of connector halves • Full complement of optional accessories

Component Diameter	
Arrangement/ Shell Size	Overall Dia. Inch (mm)
11	.942 (23.93)
13	1.070 (27.18)
17	1.315 (33.40)
23	1.743 (44.2)

Note: Contacts (pins and sockets) must be ordered separately, unless otherwise noted.


Series 1 and 2
* Standard Sex (Plug/Socket)
† Reverse Sex (Plug/Pins)
* Standard Sex Square-Flange Receptacle
† Reverse Sex Square-Flange Receptacle
* Standard Sex Feed-Thru Receptacle
* Standard Sex PC Mount
Series 3
† Reverse Sex Square Flange Receptacle
† Reverse Sex Plug
* Standard Sex Free-Hanging Receptacle
Series 4
* Standard Sex Square Flange Receptacle
* Standard Sex Plug
* Standard Sex Free-Hanging Receptacle
Series 5
† Rev Sex Square Flange Receptacle
† Rev Sex Free-Hanging Receptacle
† Reverse Sex Plug
Series 6
† Rev Sex Square Flange Receptacle
† Rev Sex Free-Hanging Receptacle
† Reverse Sex Plug

* **Standard Sex:** Pin contacts in receptacle housings; socket contacts in plug housings.
† **Reverse Sex:** Socket contacts in receptacle housings; pin contacts in plug housings.



Series 1 (Shell Only)

Shell Size	No. of Cont.	Sex	Description	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
11	4	Rev.	Receptacle-Square Flanged	A1360-ND	1.87	1.73	206430-1
			Receptacle-Free Hanging	A1361-ND	1.87	1.73	206430-2
			Recept.-Square Flanged w/Inserts	A25053-ND	4.16	3.86	211102-1
			Plug	A1357-ND	2.23	2.08	206429-1
		Std.	Receptacle-Square Flanged	A1301-ND	1.80	1.68	206061-1
			Receptacle-Free Hanging	A1351-ND	1.87	1.73	206153-1
			Plug	A1300-ND	2.21	2.06	206060-1
13	9	Std.	Receptacle-Square Flanged	A1303-ND	1.95	1.81	206705-1
			Receptacle-Free Hanging	A1352-ND	1.99	1.85	206705-2
			Plug	A1302-ND	2.44	2.27	206708-1
17	14	Rev.	Receptacle-Square Flanged	A1362-ND	2.03	1.89	206043-1
			Receptacle-Free Hanging	A1363-ND	2.54	2.36	206043-3
			Plug	A1358-ND	2.50	2.32	206044-1
	16	Std.	Receptacle-Square Flanged	A1305-ND	2.03	1.89	206036-1
			Receptacle-Free Hanging	A1353-ND	2.03	1.89	206036-3
			Receptacle-Feed-Thru	A25058-ND	61.07	56.61	206552-1
			Plug-Reverse Numbering	A25057-ND	4.39	4.07	206554-1
			Plug	A1304-ND	2.50	2.32	206037-1
23	24	Std.	Receptacle-Square Flanged	A1354-ND	2.50	2.32	206838-1
			Receptacle-Free Hanging	A1355-ND	3.42	3.18	206838-2
			Plug	A1350-ND	3.26	3.03	206837-1
	37	Rev.	Receptacle-Square Flanged	A1364-ND	2.32	2.15	206306-1
			Receptacle-Free Hanging	A1365-ND	3.22	2.99	206306-2
			Plug	A1359-ND	2.95	2.74	206305-1
		Std.	Receptacle-Square Flanged	A1307-ND	2.32	2.15	206151-1
			Receptacle-Free Hanging	A1356-ND	2.52	2.34	206151-2
			Plug	A1306-ND	2.95	2.74	206150-1

Series 1 (Shell & Contacts) - PC Mount with .025" (.64mm) Sq. Sol. Tails

Contact Finish: Duplex plated gold flash on entire contact with 30µ" minimum gold on contact engagement area, tin-lead on the termination area, all over 50µ" minimum nickel under plating.

Shell Size	No. of Cont.	Sex	Description	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
11	4	Rev.	Receptacle	A25054-ND	7.40	6.86	208283-1
13	9	Std.	Receptacle	A25055-ND	6.11	5.67	208223-1
17	16	Std.	Receptacle	A25056-ND	10.62	9.85	207303-3

Series 1 (Shell Only) - VDE Tested Connectors

Designed to meet requirements of VDE as shown in DIN Specification 57627. Recognized under the Component Program of UL for 600VAC & 600VDC service, File No. E28476. Certified by CSA, File No. LR7189.

Shell Size	No. of Contacts	Sex	Description	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
13	7	Std.	Receptacle-Square Flanged	A1635-ND	3.28	3.04	211401-1
			Plug	A1638-ND	2.99	2.78	211399-1
		Rev.	Receptacle-Square Flanged	A1641-ND	2.89	2.68	211398-1
			Plug	A1644-ND	3.42	3.18	211400-1
17	9	Std.	Receptacle-Square Flanged	A1636-ND	3.03	2.82	211767-1
			Plug	A1639-ND	3.98	3.69	211766-1
		Rev.	Receptacle-Square Flanged	A1642-ND	4.47	4.15	211769-1
			Plug	A1645-ND	3.53	3.27	211768-1
23	19	Std.	Receptacle-Square Flanged	A1637-ND	3.94	3.65	211771-1
			Plug	A1640-ND	4.78	4.43	211770-2
		Rev.	Receptacle-Square Flanged	A1643-ND	3.34	3.10	211773-1
			Plug	A1646-ND	4.02	3.73	211772-1

Series 1 (Shell Only) - Sealed Receptacle Connectors

Sealed CPC connectors are designed to meet the requirements of UL, CSA, and VDE for environmentally sealed connectors used in industrial applications. **Operating Temperature Range:** -50°C ~ 125°C. **Voltage Rating:** 600 V (AC or DC). **Contacts:** 13 amps., single contact rating at 30°C T-Rise. **Flammability Rating:** UL 94V-0 rated. **Sealing Capability:** Per IP66 and IP67. **Housing Material:** Black, high strength, impact resistant thermoplastic. **Seal:** Gray Elastomer. **Fluid Resistance:** Diesel fuel, gear and engine fuel, gasoline, anti-freeze, hydraulic fluid, water.

Shell Size	No. of Contacts	Sex	Description	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
11	4	Rev.	Square Flange	A1675-ND	2.97	2.76	206430-3
			Free-Hanging	A1676-ND	6.54	6.07	206430-4
		Std.	Square Flange	A25038-ND	6.40	5.93	206061-2
13	9	Std.	Square Flange	A1669-ND	2.97	2.76	206705-3
			Free-Hanging	A1670-ND	3.05	2.84	206705-4
17	14	Rev.	Square Flange	A1677-ND	3.08	2.85	206043-4
			Free-Hanging	A1678-ND	6.99	6.48	206043-5
	16	Std.	Square Flange	A1671-ND	3.59	3.33	206036-4
			Free-Hanging	A1672-ND	3.14	2.91	206036-5
23	24	Std.	Square Flange	A1673-ND	3.67	3.41	206838-3
			Free-Hanging	A1674-ND	4.92	4.56	206838-4
	37		Square Flange	A25049-ND	7.77	7.21	206151-3

Series 2 (Shell Only)

Shell Size	No. of Cont.	Sex	Description	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
11	8	Std.	Receptacle-Square Flanged	A1366-ND	3.36	3.12	205841-1
			Receptacle-Free Hanging Plug	A1367-ND	3.34	3.10	205841-2
				A1368-ND	4.06	3.77	205838-1
			Receptacle-Feed-Thru	A25048-ND	31.49	29.19	206458-1
		Rev.	Receptacle-Square Flanged	A1369-ND	3.40	3.16	206433-1
			Receptacle-Free Hanging Plug	A1370-ND	3.40	3.16	206433-2
				A1371-ND	4.06	3.77	206434-1
	9	Std.	Receptacle-Square Flanged	A1372-ND	3.28	3.04	206486-1
			Receptacle-Free Hanging Plug	A1373-ND	3.40	3.16	206486-2
				A1374-ND	3.98	3.69	206485-1
17	28	Std.	Receptacle-Square Flanged	A1375-ND	3.63	3.37	205840-3
			Plug-Reverse Numbering	A25045-ND	7.69	7.13	206126-1
			Receptacle-Free Hanging	A1376-ND	4.28	3.98	206152-1
			Receptacle-Feed-Thru	A25046-ND	41.98	38.92	206127-1
			Plug - Dia. 1.349 (34.26) max.	A1377-ND	4.28	3.98	205839-3
			Plug - Dia. 1.315 (33.40) max.	A25044-ND	7.69	7.13	206125-1
		Rev.	Receptacle-Square Flanged	A1378-ND	3.51	3.25	206038-1
			Receptacle-Free Hanging Plug	A1379-ND	4.33	4.01	206038-2
				A1380-ND	4.18	3.88	206039-1
23	57	Rev.	Receptacle-Square Flanged	A1381-ND	5.58	5.17	206438-1
			Receptacle-Free Hanging Plug	A1382-ND	8.96	8.31	206438-2
				A1383-ND	5.76	5.34	206437-1
	63	Std.	Receptacle-Square Flanged	A1384-ND	5.37	4.98	205843-1
			Receptacle-Free Hanging Plug	A1385-ND	5.66	5.25	205843-2
				A1386-ND	5.70	5.29	205842-1

Series 2 (Shell & Contacts) - PC Mount with .025" (.64mm) Sq. Sol. Tails

Shell Size	No. of Cont.	Sex	Cont. Finish	Description	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
11	8	Rev.	A	Receptacle-Square Flanged	A25040-ND	7.32	6.79	208657-1
11	9	Std.	A	Receptacle-Square Flanged	A25041-ND	7.48	6.94	206852-2
17	28	Rev.	B	Receptacle-Square Flanged	A25042-ND	12.77	11.84	207216-2
23	63	Std.	A	Receptacle-Square Flanged	A25043-ND	25.28	23.43	206455-2

A - Duplex plated gold flash on entire contact with 30µ" min. gold on contact engagement area, tin-lead on the termination area, all over 50µ" minimum nickel under plating. **B** - Plated gold flash on the entire contact, tin-lead on the termination area.

Series 3 and 4 (Shell Only)

Shell Size	No. of Contacts	Sex	Description	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
Series 3							
17	3	Std.	Receptacle-Square Flanged	A1681-ND	2.48	2.30	206036-2
			Receptacle-Free Hanging	A1683-ND	2.48	2.30	206207-1
			Plug	A1685-ND	3.26	3.03	206037-2
		Rev.	Receptacle-Square Flanged	A16015-ND	2.48	2.30	206425-1
			Receptacle-Free Hanging	A16017-ND	3.38	3.14	206425-2
			Plug	A16019-ND	4.45	4.13	206426-1
23	7	Std.	Receptacle-Square Flanged	A1682-ND	3.81	3.54	206137-1
			Receptacle-Free Hanging	A1684-ND	3.92	3.63	206137-2
			Plug	A1686-ND	3.53	3.27	206136-1
		Rev.	Receptacle-Square Flanged	A16016-ND	3.26	3.03	206227-1
			Receptacle-Free Hanging	A16018-ND	4.49	4.17	206227-2
			Plug	A16020-ND	3.59	3.33	206226-1
Series 4							
23	13	Std.	Receptacle-Square Flanged	A16029-ND	4.55	4.22	211825-1
			Receptacle-Free Hanging	A16032-ND	3.81	3.54	211825-2
			Plug	A16035-ND	7.91	7.34	211824-1
	16	Std.	Receptacle-Square Flanged	A16030-ND	3.12	2.89	207486-1
			Receptacle-Free Hanging	A16033-ND	4.28	3.98	207486-2
			Plug	A16036-ND	3.46	3.22	207485-1
	22	Std.	Receptacle-Square Flanged	A16031-ND	2.89	2.68	206613-1
			Receptacle-Free Hanging	A16034-ND	3.94	3.65	206613-3
			Plug	A16037-ND	4.14	3.84	206612-1

(Continued)

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eries 5 and 6 Sealed Circular Plastic Connector *(Cont.)*

aled CPC connectors are the latest additions to the growing family of Circular Plastic Connectors. Sealed CPC nnectors were developed as part of the Series 5 and 6 product line. Sealed CPC connectors are designed to meet the uirements of UL, CSA, and VDE. Sealed CPC connectors incorporated the latest technology in thermoplastic design d use the POWERBAND precision formed high current contact.

hell ize	No. of Cont.	Sex	Description	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
			Series 5				
17	3	Rev	Square Flange, Receptacles	A25781-ND	4.37	4.05	213889-2
17	3	Rev	Free-Hanging, Receptacles	A25782-ND	4.37	4.05	213890-2
17	3	Rev	Plug Assembly	A25783-ND	7.71	7.15	213905-1
			Series 6				
17	10	Rev	Square Flange, Receptacles	A25785-ND	4.14	3.84	213893-2
17	10	Rev	Free-Hanging, Receptacles	A25786-ND	4.98	4.62	213894-2
17	10	Rev	Plug Assembly	A25787-ND	9.49	8.80	213906-1

Accessories

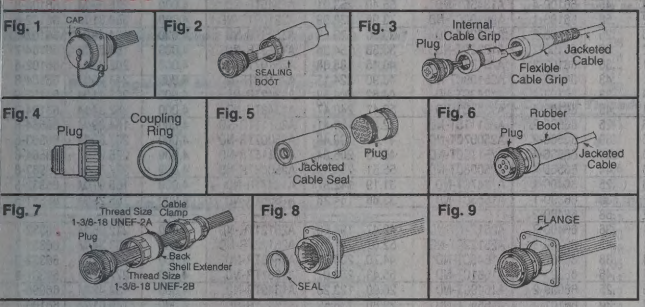
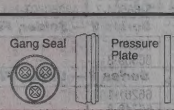


Fig.	Description	Shell Size	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
1	Sealing Cap for Receptacles, Plastic Strap	11	A16038-ND	2.97	2.76	206903-1
		13	A16039-ND	2.69	2.49	211870-1
		17	A16040-ND	3.24	3.01	207445-1
		23	A16041-ND	3.69	3.42	207446-1
1	Sealing Cap for Receptacles, Metal Bead Chain	11	A16042-ND	4.94	4.58	208800-1
		13	A16043-ND	5.88	5.46	213485-1
		17	A16044-ND	4.78	4.43	208652◀
		23	A16045-ND	5.74	5.32	208680-1
		23	A20537-ND†	7.36	6.83	208680-2
2	Heat Shrinkable Sealing Boot, .260" – .600"	11	A16046-ND	6.79	6.29	54010-1
	Heat Shrinkable Sealing Boot, .300" – .725"	13	A16047-ND	7.48	6.94	54123-1
	Heat Shrinkable Sealing Boot, .400" – .875"	17	A16048-ND	7.34	6.81	54011-1
	Heat Shrinkable Sealing Boot, .250" – .500"	17	A16060-ND††	4.68	4.16	213933-1
	Heat Shrinkable Sealing Boot, .500" – 1.25"	23	A16049-ND	8.26	7.66	54012-1
3	Flexible Cable Boot, Black Thermoplastic	11	A16050-ND	2.09	1.94	207489-1
		17	A16052-ND	3.59	3.33	207241-1
3	Internal Cable Grip, Black Thermoplastic	11	A16051-ND	2.23	2.08	207490-1
	Internal Cable Grip, Black Thermoplastic 8.25mm	17	A16053-ND	3.10	2.87	207387-1
	Internal Cable Grip, Black Thermoplastic 9.78mm	17	A16054-ND	2.97	2.76	207387-2
4	Replacement Coupling Ring	11	A16055-ND	.85	.79	213811-1
		13	A16056-ND	1.19	1.11	213813-1
		17	A16057-ND	.95	.89	213810-1
		23	A16058-ND	1.52	1.42	213812-1
5	Jacketed Cable Seal, Cable Diameter 7.62mm	23	A16063-ND	13.59	12.60	207052-1
	Jacketed Cable Seal, Cable Diameter 11.43mm	23	A16064-ND	19.31	17.90	207052-2
	Jacketed Cable Seal, Cable Diameter 15.24mm	23	A16065-ND	10.76	9.98	207052-3
6	Rubber Boots	11	A16059-ND*	6.05	5.61	206304-1
7	Back Shell Extender	23	A16062-ND	3.59	3.33	207055-1
8	Peripheral Seals for Receptacles Only	11	A1335-ND	.64	.52	206403-1
		13	A1336-ND	.95	.76	206403-4
		17	A1337-ND	.73	.59	206403-2
		23	A1338-ND	1.32	1.06	206403-3
9	Panel Mount Flanges for Plugs Only	11	A25003-ND	3.50	3.32	207299-1
		13	A25004-ND	3.34	3.17	207299-2
		17	A25019-ND	3.53	3.35	207299-3
		23	A25020-ND	2.28	2.16	207299-4
—	Flange Gasket	11	A30707-ND ***NEW!***	1.02	.95	81665-3
		13	A30705-ND ***NEW!***	1.03	.96	81665-4
		17	A25784-ND	1.04	.97	81665-2
		23	A30706-ND ***NEW!***	1.10	1.03	81665-5
—	Keying Plug, Series 1 & 4		A16066-ND	.18	.17	200821-1
	Keying Plug, Series 2		A16067-ND	.36	.34	206509-1
	Keying Plug, Series 3 & 4 (Socket Cavities)		A16068-ND	.63	.59	206508-1
	Keying Plug, Series 3 & 4 (Pin Cavities)		A16069-ND	1.86	1.73	207597-1

Rubber boots are used with jacketed cable to provide splashproof connections for Series 1 & 3 connectors. Black neoprene. For use with series 2 only. ††Thin Wall Boot

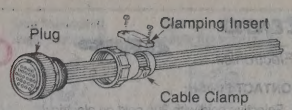
Wire Entry Seal Kits

ncludes one Gang Seal and one pressure plate marked for cavity dentification. **Material and Finish:** Seal - Elastomer, red iron oxide. ressure Plate - Nylon, black



Shell Size	Insulation Diameter Inch (mm)	Seal Diameter Inch (mm)	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 50	AMP Part No.
			Kit for Pins				
13-9	.075 - .125 (1.91 - 3.18)	.681 (17.30)	A25059-ND	4.14	3.84	3.36	213926-1
17-3	.178 - .265 (4.52 - 6.73)	.790 (20.07)	A25060-ND	6.13	5.69	4.97	213899-1
17-10	.150 - .265 (3.81 - 6.73)	.790 (20.07)	A25788-ND	3.92	3.63	3.18	213900-1
17-14	.075 - .125 (1.91 - 3.18)	.790 (20.07)	A25061-ND	4.24	3.94	3.44	213919-2
17-16	.075 - .125 (1.91 - 3.18)	.790 (20.07)	A25062-ND	4.24	3.94	3.44	213920-2
			Kit for Sockets				
13-9	.075 - .125 (1.91 - 3.18)	.681 (17.30)	A25063-ND	4.14	3.84	3.36	213925-1
17-3	.178 - .265 (4.52 - 6.73)	.790 (20.07)	A25060-ND	6.13	5.69	4.97	213899-1
17-10	.150 - .265 (3.81 - 6.73)	.790 (20.07)	A25788-ND	3.92	3.63	3.18	213900-1
17-14	.075 - .125 (1.91 - 3.18)	.790 (20.07)	A25064-ND	6.07	5.63	4.92	213919-1
17-16	.075 - .125 (1.91 - 3.18)	.790 (20.07)	A25065-ND	10.00	9.28	8.11	213920-1

Cable Clamps – Plastic Shell

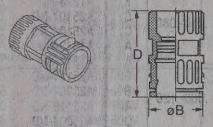


Cable clamps are used to prevent excessive strain on cable or wire from being transmitted to the contacts inside the connector housings. These may be used on all receptacles and plugs. Two screws included.

Shell Size	Cable Outer Diameter Inch (mm)	Screw Length Inch (mm)	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
11	.329 (8.36)	.375 (9.53)	A1330-ND	2.76	2.61	206062-1
11	.329 (8.36)	.500 (12.7)	A25021-ND	2.76	2.61	206062-3
13	.453 (11.51)	.500 (12.7)	A1331-ND	2.77	2.63	206966-1
17	.453 (11.51)	.500 (12.7)	A1332-ND	2.77	2.63	206070-1
23	.703 (17.86)	.625 (15.88)	A1334-ND	2.89	2.74	206138-1
11	.453 (11.51)	.500 (12.7)	A1687-ND	2.76	2.61	206358-1
13	.703 (17.86)	.625 (15.88)	A1688-ND	2.93	2.78	207008-1
17	.703 (17.86)	.625 (15.88)	A1689-ND	3.15	2.99	206322-1
23	1.125 (28.58)	.625 (15.88)	A1690-ND	3.65	3.46	206512-1
23	1.125 (28.58)	1.00 (25.4)	A16061-ND*	4.61	4.28	207774-1

* Self-Centering

Flexible Tubing Connectors To be used with all circular plastic connectors



Characteristics: • One-piece plastic quick screw connection with UNEF-inner thread • **Material:** High-quality, impact resistant plastic material (PA); Sealing: Santoprene® • **Properties:** Easy to assemble due to one-piece screw connection with push-in lock. Simple disconnect by displacing the snap-in sleeve. Smallest outer dimensions to be used under confined conditions • **Temperature Range:** From approximately -30°C up to +100°C • **Color:** Black

CPC Shell Size	Trade Size Tubing Outer Diameter	Inner Thread UNEF	Dimensions (mm) Largest Outer øB	Dimensions (mm) Total Length D	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
11	0.51" (13.0mm)	5/8" - 24	20.6	36.6	A16102-ND	3.50	3.07	1-969807-2
13	0.62" (15.8mm)	3/4" - 20	23.6	41.7	A16103-ND	3.54	3.10	1-969809-3
17	0.83" (21.2mm)	15/16" - 20	30.1	50.3	A16104-ND	4.04	3.54	1-969811-4
23	1.12" (28.5mm)	1" - 20	37.0	54.0	A16105-ND	6.50	5.69	2-969813-5

NOTE: Must also be used with Flexible Corrugated Tubing (Mfg. numbers 969789-2, 969789-3, 969789-4 & 969789-5).

Flexible Corrugated Tubing and Connectors

Fig. 1 - All-plastic Tubing

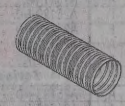


Fig. 2 - Straight Tubing Connections

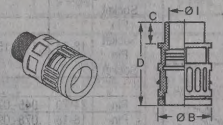
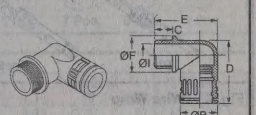


Fig. 3 - Right Angle Tubing Connections



Screwed connection case, 90° elbow type and fixed PG connecting thread DIN 40430

PLASTIC TUBING: • **Properties:** Air- and liquid-tight, oil resistant up to 80°C, benzine resistant, highly resistant to acids and solvents, ozone resistant, free of silicon, cadmium and halogen, self-extinguishing and flame retarding • **Temperature Range:** Approximately -40°C ~ 115°C, temporarily withstands temperatures up to approximately 150°C • **Color:** Black • UL File No. E86359, GGVS certified

CONNECTIONS: • One-piece plastic quick screw connection with PG-thread accessory to DIN 40430 for corrugated tubings • **Material:** High-quality, impact resistant plastic material (PA); Sealing: Santoprene® • **Properties:** Easy to assemble due to one-piece screw connection with push-in lock. Simple disconnect by displacing the snap-in sleeve. Smallest outer dimensions to be used under confined conditions • **Temperature Range:** From approximately -30°C up to 100°C • **Color:** Black • GGVS certified

Trade Size Tubing Outer Diameter Inch (mm)	Bending Radius (mm) ±10%	Digi-Key Part No.	Note: X in Part No. = Meters Per Roll Price Per Roll 5 meter	10 meter	25 meter	50 meter	AMP Part No.
		Fig. 1 — All-Plastic Tubing					
0.51 (13.0)	20	A16090-X-ND	15.60	28.60	65.00	104.00	969789-2
0.62 (15.8)	35	A16091-X-ND	20.25	37.13	84.38	135.00	969789-3
0.83 (21.2)	45	A16092-X-ND	32.10	58.85	133.75	214.00	969789-4
1.12 (28.5)	55	A16093-X-ND	52.50	96.25	218.75	350.00	969789-5

Trade Size Tubing Outer Diameter Inch (mm)	Thread DIN 40430 PG	Dimensions (mm) Smallest Inner øI	Largest Inner øB	Thread Length C	Total Length D	Total Height E	Connection øF	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
				Fig. 2 — Panel Mount Straight Tubing Connections							
0.51 (13.0)	9	10.0	20.0	10	35.0	—	—	A16094-ND	2.17	2.08	969803-2
0.62 (15.8)	11	12.5	23.0	10	37.0	—	—	A16095-ND	2.16	2.08	969803-3
0.83 (21.2)	16	17.0	29.5	12	43.5	—	—	A16096-ND	2.29	2.21	969803-4
1.12 (28.5)	21	23.5	37.0	12	46.0	—	—	A16097-ND	4.05	3.88	969803-5
				Fig. 3 — Panel Mount Right Angle Tubing Connections							
0.51 (13.0)	9	12.0	20.0	10	36.0	34.0	20.0	A16098-ND	3.92	3.77	969817-2
0.62 (15.8)	11	15.5	23.0	10	42.0	37.5	23.0	A16099-ND	4.08	3.94	969817-3
0.83 (21.2)	16	18.0	29.5	12	50.0	47.0	27.0	A16100-ND	4.31	4.16	969817-4
1.12 (28.5)	21	24.0	37.0	12	57.0	55.0	34.0	A16101-ND	6.98	6.71	969817-5

Note: Must order counternuts and seals separately.

Thread DIN 40430 PG	Dimensions (mm) Thickness	Hex Width	Height	Outer Diameter	Inner Diameter	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
				Counternuts					
9	5.0	22	—	—	—	A16106-ND	.30	.27	796260-2
11	5.0	24	—	—	—	A16107-ND	.31	.28	796260-3
16	6.0	30	—	—	—	A16108-ND	.33	.31	796260-5
21	7.0	36	—	—	—	A16109-ND	.52	.49	796260-6
				Flat O-Ring Seal					
9	—	—	1.6	19	15	A16110-ND	.53	.50	796257-2
16	—	—	1.8	27	21.5	A16112-ND	.62	.59	796255-3

Contacts (Pins and Sockets)

CONTACT FINISH:

- **A** Selective gold with 30µ gold on electrical engagement area over 50µ nickel on entire contact
- **B** Duplex-plated 30µ gold in mating area over 50µ nickel on contact body; bright tin-lead on solder tab
- **C** 15µ gold in the mating area over 50µ nickel
- **D** Selective gold, 30µ gold over 30µ nickel
- **E** .000100" (0.00254mm) silver-plated contacts with lubricant added
- **F** Bright tin-lead on entire contact
- **G** Selective gold with 30µ gold on electrical engagement area with 10µ on the remainder over 50µ nickel

Series 1 Signal, Type III+, Precision Formed

Pin Diameter: .062" (1.57mm) **Test Current:** 13A
Materials: Crimp Contacts: Brass; Solder Contacts and Grounding Pin: Copper alloy, plated tin or gold; Spring: Stainless steel

Fig. 1 – Crimp

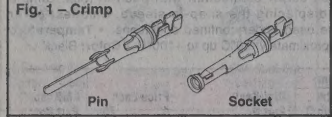


Fig. 2 – Solder Type

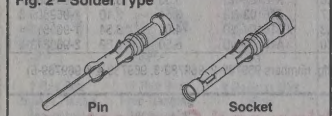


Fig. 3 – Solder Tab

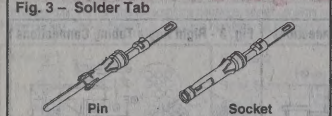
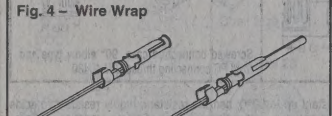


Fig. 4 – Wire Wrap



Tail Length Inches (mm)	Amp Pin Part No.	Amp Socket Part No.
.622 (15.80)	66460-1	66461-1
.831 (21.11)	66460-2	66461-2
1.020 (25.91)	66460-3	66461-3
.622 (15.80)	66460-7	66461-7
.831 (21.11)	66460-8	66461-8
1.020 (25.91)	66460-9	66461-9

Series 2

Pin Diameter: .040" (1.02mm) **Test Current:** 7.5A
Materials: Pin Body: Brass; Socket: Phosphor bronze

Fig. 5 – Crimp With Insulation Support

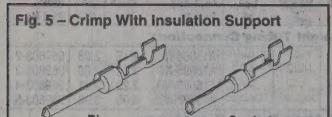
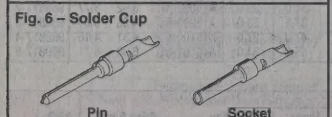
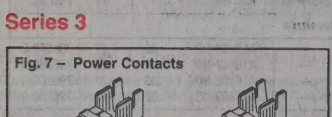


Fig. 6 – Solder Cup



Series 3

Fig. 7 – Power Contacts



Desc.	Wire Size AWG	Ins. Dia. Inch	Cont. Fin.	Digi-Key Part No.	Loose Pc. Price Each 10	100	AMP Part No.	Digi-Key Part No.	Cut Strip Pricing 100	500	Digi-Key Part No.	Strip Tape and Reel Size	Pricing	AMP Part No.
Series 1 — Crimp, Fig. 1														
Pin			F	—	—	—	—	A25084CT-ND	38.29	175.48	A25084TR-ND	4,000	191.43/M	66425-6
Socket			F	—	—	—	—	A25085CT-ND	49.41	226.45	A25085TR-ND	4,000	247.04/M	66424-6
Pin	30-26	.040-.060	C	A25088-ND	.90	.63	66429-3	A25088CT-ND	49.45	226.64	A25088TR-ND	4,000	247.25/M	66425-7
Socket			C	A25089-ND	1.25	.87	66428-3	A25089CT-ND	61.44	281.60	A25089TR-ND	4,000	307.20/M	66424-7
Pin			A	A25092-ND	.94	.66	66429-4	A25092CT-ND	52.06	238.59	A25092TR-ND	4,000	260.28/M	66425-8
Socket			A	A25093-ND	1.48	1.04	66428-4	A25093CT-ND	64.68	296.45	A25093TR-ND	4,000	323.40/M	66424-8
Pin	30-26	.014-.030	A	A25097-ND	.83	.58	66406-4	A25097CT-ND	52.01	238.38	A25097TR-ND	4,000	260.06/M	66393-8
Socket			A	A25098-ND	1.02	.72	66405-4	A25098CT-ND	64.63	296.22	A25098TR-ND	4,000	323.15/M	66394-8
Pin	26-24	.035-.055	F	A1324-ND	.36	.25	66107-2	A1324CT-ND	26.32	120.64	A1324TR-ND	4,000	131.61/M	66106-6
Socket			F	A1654-ND	.65	.46	66109-2	A1654CT-ND	41.55	190.44	A1654TR-ND	4,000	207.75/M	66108-6
Pin			C	A25103-ND	.51	.36	66107-3	A25103CT-ND	42.35	194.11	A25103TR-ND	4,000	211.76/M	66106-7
Socket			C	A25104-ND	.61	.43	66109-3	A25104CT-ND	52.63	241.22	A25104TR-ND	4,000	263.15/M	66108-7
Pin			A	A1344-ND	.54	.38	66107-4	A1344CT-ND	44.58	204.31	A1344TR-ND	4,000	222.89/M	66106-8
Socket			A	A1345-ND	.64	.45	66109-4	A1345CT-ND	55.40	253.91	A1345TR-ND	4,000	276.99/M	66108-8
Pin	24-20	.040-.080	G	A29109-ND	.82	.58	66103-1	A29109CT-ND	73.96	338.99	A29109TR-ND	4,000	369.81/M	66102-6
Pin	24-20	.040-.080	F	A1322-ND	.36	.25	66103-2	A1322CT-ND	26.90	123.28	A1322TR-ND	4,000	134.49/M	66102-7
Socket			F	A1323-ND	.42	.30	66105-2	A1323CT-ND	33.66	154.26	A1323TR-ND	4,000	168.29/M	66104-7
Pin			C	A25107-ND	.51	.36	66103-3	A25107CT-ND	40.45	185.38	A25107TR-ND	4,000	202.23/M	66102-8
Socket			C	A25108-ND	.61	.43	66105-3	A25108CT-ND	48.90	224.11	A25108TR-ND	4,000	244.49/M	66104-8
Pin			A	A1342-ND	.54	.38	66103-4	A1342CT-ND	44.62	204.52	A1342TR-ND	4,000	223.11/M	66102-9
Socket			A	A1343-ND	.64	.45	66105-4	A1343CT-ND	52.47	240.47	A1343TR-ND	4,000	262.34/M	66104-9
Pin	24-20	.060-.120	F	A25111-ND	.36	.25	66566-2	A25111CT-ND	32.82	150.41	A25111TR-ND	4,000	164.09/M	66564-6
Socket			F	A25007-ND	.56	.39	66565-2	A25007CT-ND	41.56	190.48	A25007TR-ND	4,000	207.80/M	66563-6
Pin			A	A25115-ND	.56	.39	66566-4	A25115CT-ND	45.13	206.84	A25115TR-ND	4,000	225.65/M	66564-8
Socket			D	A25008-ND	.63	.44	66565-4	A25008CT-ND	55.51	254.40	A25008TR-ND	4,000	277.53/M	66563-8
Pin	24-20	.080-.100	F	A1647-ND	.36	.25	66400-1	A1647CT-ND	31.19	142.97	A1647TR-ND	4,000	155.97/M	66332-5
Socket			F	A1656-ND	.42	.30	66399-1	A1656CT-ND	33.66	154.26	A1656TR-ND	4,000	168.29/M	66331-5
Pin	24-20	.080-.100	G	A29110-ND	.82	.58	66400-2	—	—	—	—	—	—	—
Pin	24-20	.080-.100	C	A25121-ND	.51	.36	66400-3	A25121CT-ND	42.47	194.66	A25121TR-ND	4,000	212.36/M	66332-7
Socket			C	A25122-ND	.61	.43	66399-3	A25122CT-ND	52.67	241.40	A25122TR-ND	4,000	263.34/M	66331-7
Pin			A	A1648-ND	.54	.38	66400-4	A1648CT-ND	44.70	204.89	A1648TR-ND	4,000	223.52/M	66332-8
Socket			A	A1661-ND	.64	.45	66399-4	A1661CT-ND	55.43	254.07	A1661TR-ND	4,000	277.17/M	66331-8
Pin	18-16	.080-.100	F	A1649-ND	.36	.25	66099-2	A1649CT-ND	26.90	123.28	A1649TR-ND	4,000	134.49/M	66098-7
Socket			F	A1665-ND	.42	.30	66101-2	A1665CT-ND	29.80	136.59	A1665TR-ND	4,000	149.01/M	66100-7
Pin			C	A25123-ND	.60	.42	66099-3	A25123CT-ND	42.29	193.82	A25123TR-ND	4,000	211.44/M	66098-8
Socket			C	A25124-ND	.61	.43	66101-3	A25124CT-ND	52.68	241.45	A25124TR-ND	4,000	263.40/M	66100-8
Pin			A	A1340-ND	.54	.38	66099-4	A1340CT-ND	44.70	204.89	A1340TR-ND	4,000	223.52/M	66098-9
Socket			A	A16080-ND	.64	.45	66101-4	A16080CT-ND	52.25	239.47	A16080TR-ND	4,000	261.24/M	66100-9
Pin	18-14	.080-.100	F	A1320-ND	.36	.25	66361-2	A1320CT-ND	26.90	123.28	A1320TR-ND	4,000	134.49/M	66359-6
Socket			F	A1321-ND	.42	.29	66360-2	A1321CT-ND	33.66	154.26	A1321TR-ND	4,000	168.29/M	66358-6
Pin			C	A25127-ND	.52	.36	66361-3	A25127CT-ND	40.49	185.58	A25127TR-ND	4,000	202.46/M	66359-9
Socket			C	A25128-ND	.76	.54	66360-3	A25128CT-ND	52.69	241.51	A25128TR-ND	4,000	263.46/M	66358-9
Pin			A	A1650-ND	.54	.38	66361-4	A1650CT-ND	42.62	195.36	A1650TR-ND	4,000	213.12/M	1-66359-0
Socket			A	A1341-ND	.80	.56	66360-4	A1341CT-ND	55.47	254.24	A1341TR-ND	4,000	277.35/M	1-66358-0
Pin	18-14	.110-.150	F	A25129-ND	.36	.25	66602-1	A25129CT-ND	26.90	123.28	A25129TR-ND	4,000	134.49/M	66597-1
Socket			F	A25130-ND	.42	.30	66601-1	A25130CT-ND	33.66	154.26	A25130TR-ND	4,000	168.29/M	66598-1
Pin			A	A25131-ND	.54	.38	66602-2	A25131CT-ND	44.77	205.19	A25131TR-ND	4,000	223.85/M	66597-2
Socket			A	A25012-ND	.61	.43	66601-2	A25012CT-ND	54.87	251.50	A25012TR-ND	4,000	274.37/M	66596-2
Series 1 — Crimp, Fig. 1 — Grounding Pin (make first - break last)														
Pin	24-20	.045-.070	A	A25133-ND	1.91	1.34	164163-2	—	—	—	—	—	—	—
Pin	18-16	.078-.098	A	A25600-ND	1.44	1.01	164164-2	A25600CT-ND	122.09	559.60	A25600TR-ND	5,000	610.47/M	164161-4
Series 1 — Solder Type, Fig. 2														
Pin	26-20	.005-.024	A	A25136-ND	.86	.60	66182-1	—	—	—	—	—	—	—
Socket			D	A25137-ND	1.08	.76	66183-1	—	—	—	—	—	—	—
Pin	18-16	.030-.055	A	A25138-ND	.86	.60	66180-1	—	—	—	—	—	—	—
Socket			D	A25139-ND	1.08	.76	66181-1	—	—	—	—	—	—	—
Series 1 — Solder Tab, Fig. 3														
Pin	—	—	B	A16081-ND	1.43	1.00	202236-1	—	—	—	—	—	—	—
Socket			B	A1668-ND	1.59	1.12	202237-1	—	—	—	—	—	—	—
Pin			F	A1629-ND	.81	.57	202236-2	—	—	—	—	—	—	—
Socket			F	A1631-ND	.89	.62	202237-2	—	—	—	—	—	—	—
Series 1 — Wire Wrap, Fig. 4														
Pin	—	—	F	A29339-ND	.52	.36	66460-1	—	—	—	—	—	—	—
Socket			F	A29344-ND	.64	.45	66461-1	—	—	—	—	—	—	—
Pin			F	A29350-ND	.51	.36	66460-2	—	—	—	—	—	—	—
Socket			F	A29345-ND	.64	.45	66461-2	—	—	—	—	—	—	—
Pin			F	A29340-ND	.52	.36	66460-3	—	—	—	—	—	—	—
Socket			F	A29349-ND	.64	.45	66461-3	—	—	—	—	—	—	—
Pin			G	A29341-ND	.77	.54	66460-7	—	—	—	—	—	—	—
Socket			G	A29346-ND	.92	.64	66461-7	—	—	—	—	—	—	—
Pin			G	A29342-ND	.79	.56	66460-8	—	—	—	—	—	—	—
Socket			G	A29347-ND	.95	.66	66461-8	—	—	—	—	—	—	—
Pin			G	A29343-ND	.77	.54	66460-9	—	—	—	—	—	—	—
Socket			G	A29348-ND	.92	.65	66461-9	—	—	—	—	—	—	—
Series 2 — Crimp, Fig. 5														
Pin	28-24	.040 max.	A	A1630-ND	.21	.15	66507-9	—	—	—	—	—	—	—
Socket			A	A1632-ND	.23	.17	66505-9	—	—	—	—	—	—	—
Pin			D	A25000-ND	.40	.25	5-66507-9	A25000CT-ND	6.49	27.03	A25000TR-ND	10,000	29.19/M	3-66507-1
Socket			D	A23040-ND	.44	.27	5-66505-9	A23040CT-ND	10.34	43.09	A23040TR-ND	10,000	46.54/M	5-66505-7
Pin	24-20	.050 max.	A	A1679-ND	.19	.17	66506-9	—	—	—	—	—	—	—
Socket			A	A1680-ND	.20	.18	66504-9	—	—	—	—	—	—	—
Pin			D	A1008-ND	.19	.17	1-66506-0	—	—	—	—	—	—	—
Socket			A	A1009-ND	.21	.18	1-66504-0	—	—	—	—	—	—	—
Socket			D	A23606-ND	.19	.12	5-66504-7	A23606CT-ND	7.71	32.11	A23606TR-ND	10,000	34.69/M	5-66504-6
Series 2 — Solder, Fig. 6														
Pin	18	—	D	A1028-ND	.26	.16	66570-3	—	—	—	—	—	—	—
Socket			D	A1029-ND	.31	.28	66569-3	—	—	—	—	—	—	—
Series 3 — Crimp, Fig. 7														
Pin	16-12	.135-.160	F	A16021-ND	2.25	1.57	66261-1	—	—	—	—	—	—	—
Socket			F	A16025-ND	4.08	2.85	66740-8	—	—	—	—	—	—	—
Pin			D	A16022-ND	5.63	3.93	66261-2	—	—	—	—	—	—	—
Socket			D	A16026-ND	6.96	4.86	66740-6	—	—	—	—	—	—	—
Pin			D	A25031-ND§	6.38	4.46	66262-2	—	—	—	—	—	—	—
Pin			E	A25032-ND#	2.83	1.98	66261-4	—	—	—	—	—	—	—
Socket			E	A25033-ND#	4.76	3.33	66740-2	—	—	—	—	—	—	—
Pin			E	A25034-ND§#	5.87	4.10	66262-4	—	—	—	—	—	—	—
Pin	10	.190-.220	F	A16023-ND	2.25	1.57	66259-1	—	—	—	—	—	—	—
Socket			F	A16027-ND	5.31	3.71	66741-8	—	—	—	—	—	—	—
Pin			D	A16024-ND	5.79	4.04	66259-2	—	—	—	—	—	—	—
Socket			D	A16028-ND	7.70	5.38	66741-6	—	—	—	—	—	—	—
Pin			E	A25035-ND#	2.83	1.98	66259-4	—	—	—	—	—	—	—
Socket			E	A25036-ND#	6.43	4.49	66741-2	—	—	—	—	—	—	—

Recommended for high current/vibration applications where corrosion is a problem. § Ground contacts

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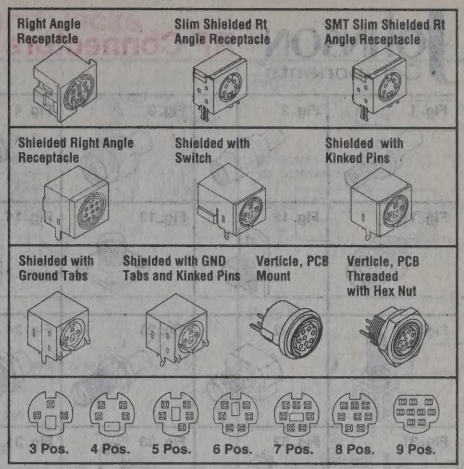
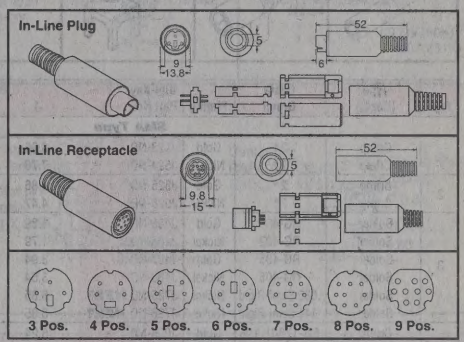
CUI INC

Miniature DIN Connectors

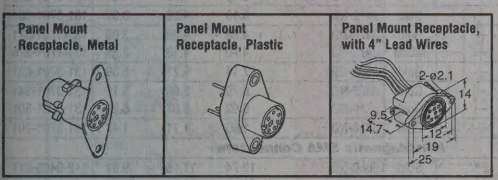
APPLICATIONS: Because of their compact size and durable design, mini-DIN connectors are ideal for signal applications where space is at a premium. A variety of configurations including vertical, horizontal and in-line models allows for most requirements. Their concentric, cylindrical ground shell make these connectors an excellent choice where EMI/RFI is a concern. Typical applications include computers, peripheral devices, office, audio and video equipment. **GENERAL SPECIFICATIONS:** • **Rating:** 100VAC 1A MAX, 12VDC 2A MAX • **Insulation Resistance:** MIN 50MEGΩ @ 250VDC • **Voltage Withstand:** 250VAC, 1 minute • **Contact Resistance:** Pins - 30mΩ MAX, Shell - 50mΩ MAX (All accessories included)

No. of Pos.	Digi-Key Part No.	Price Each 1	10	100	CUI Inc. Part No.
Shielded Right Angle Receptacles					
3	CP-2230-ND	.99	.86	.66	MD-30SM
4	CP-2240-ND	1.02	.89	.68	MD-40SM
5	CP-2250-ND	1.05	.91	.70	MD-50SM
6	CP-2260-ND	1.11	.97	.74	MD-60SM
7	CP-2270-ND	1.23	1.07	.82	MD-70SM
8	CP-2280-ND	1.32	1.15	.88	MD-80SM
9	CP-2290-ND	1.65	1.43	1.10	MD-90SM
NEW! Slim Shielded Right Angle PCB Receptacles NEW!					
4	CP-2245-ND	1.44	1.25	.96	MD2-40ST
6	CP-2267-ND	1.53	1.33	1.02	MD2-60ST
NEW! SMT Slim Shielded Right Angle Receptacles NEW!					
4	CP-3145-ND	1.65	1.43	1.10	MD2-40ST-SMT
6	CP-3167-ND	1.74	1.51	1.16	MD2-60ST-SMT
Right Angle PCB Mount Receptacles					
3	CP-2430-ND	.78	.68	.52	MD-30S
4	CP-2440-ND	.81	.71	.54	MD-40S
5	CP-2450-ND	.86	.75	.57	MD-50S
6	CP-2460-ND	.90	.78	.60	MD-60S
7	CP-2470-ND	1.02	.89	.68	MD-70S
8	CP-2480-ND	1.11	.97	.74	MD-80S
9	CP-2490-ND	1.53	1.33	1.02	MD-90S
Shielded Receptacles with Switch					
3	CP-3030-ND	2.01	1.75	1.34	MD-30SMW
4	CP-3040-ND	2.10	1.82	1.40	MD-40SMW
5	CP-3050-ND	2.19	1.90	1.46	MD-50SMW
6	CP-3060-ND	2.31	2.01	1.54	MD-60SMW
7	CP-3070-ND	2.40	2.08	1.60	MD-70SMW
8	CP-3080-ND	2.46	2.14	1.64	MD-80SMW
Shielded Receptacles with Kinked Pins					
3	CP-4030-ND	.99	.86	.66	MD-30SMK
4	CP-4040-ND	1.02	.89	.68	MD-40SMK
5	CP-4050-ND	1.05	.91	.70	MD-50SMK
6	CP-4060-ND	1.11	.97	.74	MD-60SMK
7	CP-4070-ND	1.23	1.07	.82	MD-70SMK
8	CP-4080-ND	1.32	1.15	.88	MD-80SMK
Shielded Receptacles with Ground Tabs					
3	CP-5030-ND	1.17	1.02	.78	MD-30SG
4	CP-5040-ND	1.20	1.04	.80	MD-40SG
5	CP-5050-ND	1.23	1.07	.82	MD-50SG
6	CP-5060-ND	1.29	1.12	.86	MD-60SG
8	CP-5080-ND	1.50	1.30	1.00	MD-80SG
Shielded Receptacles with Ground Tabs and Kinked Pins					
3	CP-6030-ND	1.17	1.02	.78	MD-30SGK
4	CP-6040-ND	1.20	1.04	.80	MD-40SGK
5	CP-6050-ND	1.23	1.07	.82	MD-50SGK
6	CP-6060-ND	1.29	1.12	.86	MD-60SGK
8	CP-6080-ND	1.50	1.30	1.00	MD-80SGK
Vertical PCB Mount Receptacles					
3	CP-2730-ND	1.02	.89	.68	MD-30SV
4	CP-2740-ND	1.08	.94	.72	MD-40SV
5	CP-2750-ND	1.14	.99	.76	MD-50SV
6	CP-2760-ND	1.17	1.02	.78	MD-60SV
8	CP-2780-ND	1.29	1.12	.86	MD-80SV
Vertical PCB Mount Threaded Receptacles with Hex Nut					
3	CP-2830-ND	1.41	1.23	.94	MD-30CV
4	CP-2840-ND	1.47	1.28	.98	MD-40CV
5	CP-2850-ND	1.50	1.30	1.00	MD-50CV
6	CP-2860-ND	1.56	1.36	1.04	MD-60CV
8	CP-2880-ND	1.65	1.43	1.10	MD-80CV
In-Line Plugs					
3	CP-2030-ND	.87	.76	.58	MD-30
4	CP-2040-ND	.93	.81	.62	MD-40
5	CP-2050-ND	.99	.86	.66	MD-50
6	CP-2060-ND	1.05	.91	.70	MD-60
7	CP-2070-ND	1.11	.97	.74	MD-70
8	CP-2080-ND	1.17	1.02	.78	MD-80
9	CP-2090-ND	1.56	1.36	1.04	MD-90
In-Line Receptacles					
3	CP-2130-ND	1.08	.94	.72	MD-30J
4	CP-2140-ND	1.14	.99	.76	MD-40J
5	CP-2150-ND	1.20	1.04	.80	MD-50J
6	CP-2160-ND	1.26	1.10	.84	MD-60J
7	CP-2170-ND	1.32	1.15	.88	MD-70J
8	CP-2180-ND	1.38	1.20	.92	MD-80J
9	CP-2190-ND	1.83	1.59	1.22	MD-90J
Crimp Pin	CP-9999-ND	—	.09	.05	T-0006





Mini-DIN Panel Mount Connectors

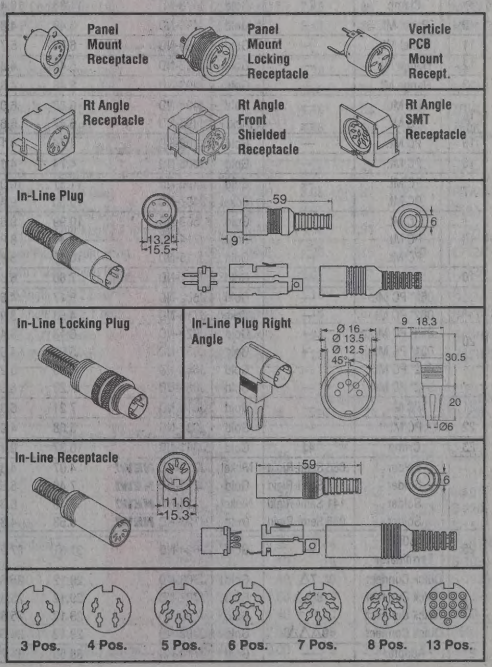


No. of Pos.	Digi-Key Part No.	Price Each 1	10	100	CUI Inc. Part No.
Panel Mount Mini-DIN Connectors — Metal					
3	CP-2530-ND	1.02	.89	.68	MD-30SN
4	CP-2540-ND	1.08	.94	.72	MD-40SN
5	CP-2550-ND	1.17	1.02	.78	MD-50SN
6	CP-2560-ND	1.29	1.12	.86	MD-60SN
7	CP-2570-ND	1.35	1.17	.90	MD-70SN
8	CP-2580-ND	1.38	1.20	.92	MD-80SN
9	CP-2590-ND	1.47	1.28	.98	MD-90SN
Panel Mount Mini-DIN Connectors — Plastic					
3	CP-2630-ND	1.08	.94	.72	MD-30SP
4	CP-2640-ND	1.17	1.04	.78	MD-40SP
5	CP-2650-ND	1.23	1.07	.82	MD-50SP
6	CP-2660-ND	1.38	1.20	.92	MD-60SP
7	CP-2670-ND	1.44	1.28	.96	MD-70SP
8	CP-2680-ND	1.53	1.33	1.02	MD-80SP
Panel Mount Mini-DIN Connectors with 4" Lead Wires (26AWG)					
3	CP-2930-ND	1.65	1.43	1.10	MD-30PL100
4	CP-2940-ND	1.74	1.51	1.16	MD-40PL100
5	CP-2950-ND	1.89	1.64	1.26	MD-50PL100
6	CP-2960-ND	1.98	1.72	1.32	MD-60PL100
8	CP-2980-ND	2.19	1.90	1.46	MD-80PL100

Circular DIN Connectors

APPLICATIONS: Circular DIN connectors combine low contact resistance with relatively high ampacity which make them an excellent choice for signal or power applications. Ideal for use with computers, peripheral devices, office equipment, power supplies, etc., their low cost and compact, durable design have made them a proven value.
GENERAL SPECIFICATIONS: • **Ratings:** 100VAC 2A MAX • **Insulation Resistance:** MIN 100MEGΩ @ 500VDC • **Voltage Withstand:** 1000VAC, 1 minute • **Contact Resistance:** Pins - 10mΩ @ MAX, Shell - 50mΩ MAX (All accessories included)

No. of Pos.	Digi-Key Part No.	Price Each 1	10	100	CUI Inc. Part No.
Panel Mount Receptacles					
3	CP-1230-ND	.62	.54	.41	SD-30SN
4	CP-1240-ND	.65	.56	.43	SD-40SN
5	CP-1250-ND	.70	.61	.47	SD-50SN
6	CP-1260-ND	.74	.64	.49	SD-60SN
7	CP-1270-ND	.80	.70	.54	SD-70SN
8	CP-1280-ND	.86	.75	.58	SD-80SN
Panel Mount Locking Receptacles					
3	CP-1233-ND	2.48	2.15	1.66	SD-30LS
4	CP-1234-ND	2.62	2.28	1.75	SD-40LS
5	CP-1235-ND	2.76	2.40	1.85	SD-50LS
6	CP-1236-ND	2.91	2.52	1.94	SD-60LS
7	CP-1237-ND	3.05	2.65	2.04	SD-70LS
8	CP-1238-ND	3.20	2.78	2.14	SD-80LS
Vertical PCB Mount Receptacles					
3	CP-3130-ND	.88	.77	.59	SD-30BV
5	CP-3150-ND	.93	.81	.62	SD-50BV
6	CP-3160-ND	.96	.83	.64	SD-60BV
7	CP-3170-ND	.99	.86	.66	SD-70BV
8	CP-3180-ND	1.04	.90	.69	SD-80BV
Right Angle Receptacles					
3	CP-2330-ND	.69	.60	.46	SDS-30J
4	CP-2340-ND	.72	.63	.48	SDS-40J
5	CP-2350-ND	.72	.63	.48	SDS-50J
6	CP-2360-ND	1.08	.94	.72	SDS-60J
7	CP-2370-ND	1.20	1.04	.80	SDS-70J
8	CP-2380-ND	1.32	1.15	.88	SDS-80J
13	CP-2313-ND	2.85	2.47	1.90	SDD-130J
Right Angle Front Shielded Receptacles					
3	CP-7030-ND	.75	.65	.50	SDF-30J
4	CP-7040-ND	.90	.78	.60	SDF-40J
5	CP-7050-ND	.90	.78	.60	SDF-50J
6	CP-7060-ND	1.23	1.07	.82	SDF-60J
7	CP-7070-ND	1.32	1.15	.88	SDF-70J
8	CP-7080-ND	1.50	1.30	1.00	SDF-80J
13	CP-3313-ND	2.97	2.58	1.98	SDF-130J
Right Angle Surface Mount Receptacles					
4	CP-1000-ND	1.26	1.10	.84	SDS-40J-SMT
8	CP-1001-ND	1.53	1.33	1.02	SDS-80J-SMT
In-Line Plugs					
3	CP-1030-ND	.53	.46	.35	SD-30
4	CP-1040-ND	.54	.47	.36	SD-40
5	CP-1050-ND	.61	.53	.41	SD-50
6	CP-1060-ND	.64	.56	.43	SD-60
7	CP-1070-ND	.72	.63	.49	SD-70
8	CP-1080-ND	.76	.66	.51	SD-80
13	CP-1013-ND	1.65	1.43	1.10	SD-130
In-Line Locking Plugs					
3	CP-1033-ND	3.41	2.96	2.28	SD-30LP
4	CP-1034-ND	3.55	3.08	2.37	SD-40LP
5	CP-1035-ND	3.73	3.24	2.49	SD-50LP
6	CP-1036-ND	3.88	3.36	2.59	SD-60LP
7	CP-1037-ND	4.02	3.49	2.68	SD-70LP
8	CP-1038-ND	4.16	3.61	2.78	SD-80LP
In-Line Right Angle Plugs					
3	CP-1330-ND	2.28	1.98	1.52	SDR-30
5	CP-1350-ND	2.49	2.16	1.66	SDR-50
6	CP-1360-ND	2.55	2.21	1.70	SDR-60
7	CP-1370-ND	2.73	2.37	1.82	SDR-70
8	CP-1380-ND	2.82	2.45	1.88	SDR-80
In-Line Receptacles					
3	CP-1130-ND	.65	.56	.43	SD-30J
4	CP-1140-ND	.71	.62	.47	SD-40J
5	CP-1150-ND	.73	.63	.49	SD-50J
6	CP-1160-ND	.77	.67	.51	SD-60J
7	CP-1170-ND	.83	.72	.56	SD-70J
8	CP-1180-ND	.89	.78	.60	SD-80J
13	CP-1113-ND	3.75	3.25	2.50	SD-130J



JOHNSON Components RF Connectors SMA/SMB Type

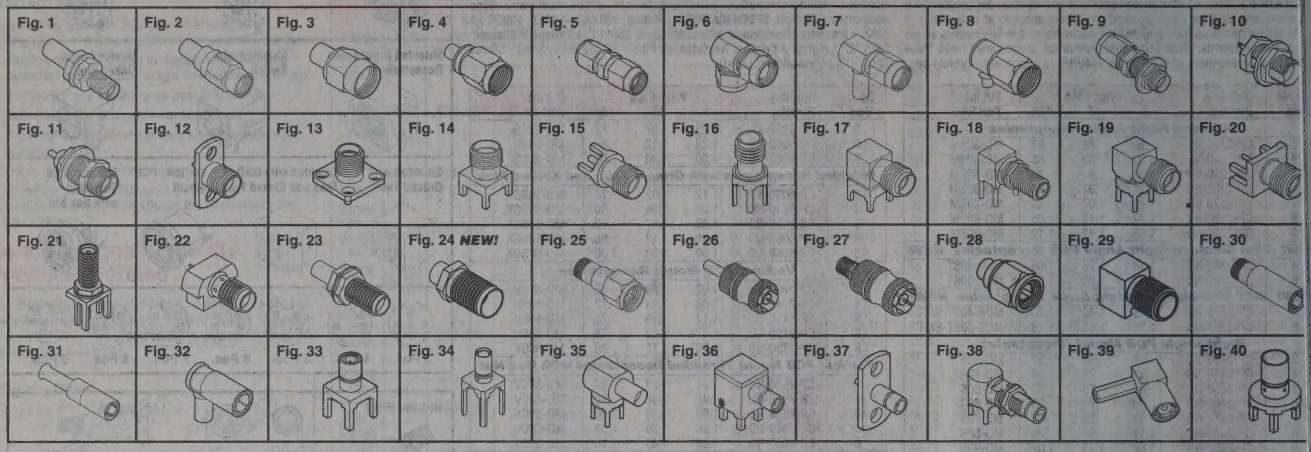


Fig.	Type (Desc.)	Cable Group	Plating	Digi-Key Part No.	Price Each 1	10	50	Johnson Part No.
				SMA Type				
1	Crimp	2*	Gold	J523-ND	8.06	7.07	6.08	142-0303-411
	Crimp	2*	Nickel	J524-ND	7.76	6.81	5.85	142-0303-416
2	Crimp	2*	Gold	J525-ND	4.86	4.26	3.67	142-0403-011
	Crimp	2*	Nickel	J526-ND	4.47	3.92	3.37	142-0403-016
3	Solder	RG-402	Gold	J485-ND	1.89	1.66	1.43	142-0694-011
	Solder	RG-402	Nickel	J486-ND	1.79	1.57	1.35	142-0694-016
	Solder	RG-405	Gold	J487-ND	3.94	3.46	2.97	142-0693-001
	Solder	RG-405	Nickel	J488-ND	3.54	3.11	2.67	142-0693-006
	Solder	.086 Semi-Rigid	Nickel	J725-ND **NEW!**	6.85	6.01	5.17	142-0693-066
	Solder	.141 Semi-Rigid	Nickel	J726-ND **NEW!**	6.85	6.01	5.17	142-0694-066
4	Crimp	RG-178/U, 196	Gold	J605-ND	6.24	5.48	4.71	142-0402-011
	Crimp	4	Gold	J637-ND‡	6.77	5.94	5.11	142-0439-001
	Crimp	5	Gold	J638-ND‡‡	6.77	5.94	5.11	142-0435-001
5	Clamp	2*	Gold	J474-ND	11.00	9.65	8.30	142-0203-011
	Clamp	2*	Nickel	J475-ND	10.05	8.81	7.58	142-0203-016
	Clamp	3**	Gold	J480-ND	17.63	15.46	13.29	142-0207-011
	Clamp	3**	Nickel	J481-ND	16.64	14.60	12.55	142-0207-016
6	Clamp	2*	Nickel	J477-ND	8.17	7.17	6.17	142-0203-106
	Clamp	3**	Nickel	J484-ND	9.18	8.06	6.93	142-0207-106
7	Crimp	2*	Gold	J510-ND	7.09	6.22	5.35	142-0403-101
	Crimp	4	Gold	J639-ND‡	6.77	5.94	5.11	142-0439-101
	Crimp	5	Gold	J640-ND‡‡	10.58	9.28	7.98	142-0435-101
	Crimp	8ΔΔ	Gold	J713-ND	6.44	5.65	4.86	142-0404-101
8	Solder	.086 Semi-Rigid	Gold	J606-ND	8.90	7.80	6.71	142-0693-101
	Solder	.141 Semi-Rigid	Gold	J607-ND	8.73	7.66	6.58	142-0694-101
9	Clamp	2*	Gold	J478-ND	11.88	10.42	8.96	142-0103-401
10	Panel Mt.	—	Gold	J490-ND	5.49	4.82	4.14	142-0701-401
11	Panel Mt.	—	Gold	J489-ND	6.58	5.77	4.96	142-0701-411
12	Flange Mt.	—	Gold	J492-ND	5.48	4.81	4.13	142-0701-621
13	Flange Mt.	—	Gold	J493-ND	5.48	4.81	4.13	142-0701-631
14	PC Mt.	—	Gold	J494-ND	6.88	6.04	5.19	142-0701-211
	PC Mt.	—	Nickel	J495-ND	6.47	5.68	4.88	142-0701-216
15	PC Mt.	—	Gold	J500-ND	4.74	4.16	3.58	142-0701-201
16	PC Mt.	—	Gold	J608-ND	4.74	4.16	3.58	142-0701-231
17	PC Mt.	—	Gold	J496-ND	11.51	10.09	8.68	142-0701-321
	PC Mt.	—	Nickel	J497-ND	10.80	9.48	8.15	142-0701-326
18	PC Mt.	—	Gold	J569-ND	10.99	9.64	8.29	142-0701-501
	PC Mt.	—	Nickel	J714-ND	9.41	8.26	7.10	142-0701-506
	PC Mt.	—	Gold	J715-ND	10.11	8.87	7.62	142-0701-551
19	PC Mt.	—	Gold	J501-ND	7.60	6.67	5.73	142-0701-301
20	.062" PC Mt.	—	Gold	J502-ND	5.17	4.54	3.90	142-0701-801
	.062" PC Mt.	—	Nickel	J716-ND	4.53	3.98	3.42	142-0701-806
	.062" PC Mt.	—	Gold	J629-ND	6.18	5.42	4.66	142-0711-821
	.031" PC Mt.	—	Gold	J657-ND	5.69	4.99	4.29	142-0701-881
	.062" PC Mt.	—	Gold	J658-ND	6.03	5.29	4.55	142-0701-851
	.042" PC Mt.	—	Gold	J630-ND	7.23	6.34	5.45	142-0701-841
21	PC Mt.	—	Gold	J610-ND	7.21	6.33	5.44	142-0701-871
22	PC Mt.	—	Gold	J631-ND	5.68	4.99	4.29	142-0721-881
23	Crimp	4‡	Gold	J641-ND	10.37	9.10	7.82	142-0339-401
24	Solder	.086 Semi-Rigid	Nickel	J722-ND **NEW!**	4.97	4.37	3.75	142-0593-006
	Solder	.141 Semi-Rigid	Gold	J723-ND **NEW!**	7.46	6.55	5.63	142-0594-001
	Solder	.141 Semi-Rigid	Nickel	J724-ND **NEW!**	7.18	6.30	5.42	142-0594-006
	Solder	.086 Semi-Rigid	Gold	J727-ND **NEW!**	5.53	4.85	4.17	142-0593-001
25	50Ω Terminator	—	Gold	J634-ND	31.81	27.90	23.99	142-0801-861
26	Quick Connect	7Δ	Gold	J706-ND	29.12	25.54	21.96	142-1403-001
	Quick Connect	8ΔΔ	Gold	J707-ND	29.12	25.54	21.96	142-1404-001
	Quick Connect	3**	Gold	J708-ND	29.12	25.54	21.96	142-1407-001
	Quick Connect	9ΔΔΔ	Gold	J709-ND	29.12	25.54	21.96	142-1408-001
27	Adapter	—	Gold	J710-ND	39.59	34.72	29.85	142-1901-821
28	Slide-On	RG-405	Gold	J711-ND	6.05	5.31	4.56	142-0693-06
	Slide-On	RG-402	Gold	J712-ND	6.34	5.56	4.78	142-0694-06
29	SMT	—	Gold	J717-ND	8.10	7.11	6.11	142-0711-30
				SMB Type				
30	50Ω Terminator	—	Gold	J635-ND	14.51	12.73	10.95	131-3801-81
	75Ω Terminator	—	Gold	J636-ND	13.43	11.78	10.13	131-3801-82
31	Crimp	2*	Nickel	J464-ND	5.18	4.54	3.91	131-1403-01
32	Crimp	2*	Gold	J465-ND	5.13	4.50	3.87	131-1403-10
	Crimp	2*	Nickel	J466-ND	4.31	3.79	3.26	131-1403-11
33	PC Mt.	—	Gold	J467-ND†	2.79	2.45	2.11	131-1701-201
	PC Mt.	—	Nickel	J468-ND†	2.62	2.30	1.98	131-1701-206
	PC Mt.	—	Nickel	J469-ND†	2.62	2.30	1.98	131-1701-216
34	PC Mt.	—	Gold	J613-ND†	2.14	1.88	1.61	131-3701-261
	PC Mt.	—	Nickel	J614-ND†	2.03	1.79	1.54	131-3701-266
	PC Mt.	—	Gold	J615-ND†	2.14	1.88	1.61	131-3701-271
	PC Mt.	—	Nickel	J616-ND†	2.03	1.79	1.54	131-3701-276
35	PC Mt.	—	Gold	J472-ND	5.15	4.52	3.89	131-3701-301
36	PC Mt.	—	Gold	J470-ND	4.88	4.29	3.69	131-1701-371
	PC Mt.	—	Nickel	J471-ND	4.70	4.13	3.55	131-1701-376
37	Panel Mt.	—	Gold	J520-ND	7.14	6.27	5.39	131-3701-621
38	Panel Mt.	—	Gold	J522-ND	6.79	5.96	5.12	131-3701-341
	PC Mt.	—	Gold	J719-ND	6.92	6.07	5.22	131-3701-501
40	PC Mt.	—	Gold	J718-ND	1.95	1.71	1.47	131-3701-201
				Non-Magnetic SMA Connectors				
3	Crimp	2*	Gold	J660-ND	12.74	11.18	9.61	142-9403-011
	Crimp	60	Gold	J661-ND	13.27	11.64	10.01	142-9404-011
	Crimp	3**	Gold	J664-ND	13.80	12.11	10.41	142-9407-001
8	Crimp	2*	Gold	J662-ND	19.11	16.77	14.41	142-9403-101
	Crimp	60	Gold	J663-ND	19.64	17.23	14.81	142-9404-101
	Crimp	3**	Gold	J665-ND	19.64	17.23	14.81	142-9407-101
16	PC Mt.	—	Gold	J666-ND	8.85	7.77	6.68	142-9701-201
	PC Mt.	—	Gold	J667-ND	8.85	7.77	6.68	142-9701-211
19	PC Mt.	—	Gold	J668-ND	16.99	14.90	12.81	142-9701-301
20	PC Mt.	—	Gold	J669-ND	10.94	9.59	8.25	142-9701-801
	PC Mt.	—	Gold	J670-ND	10.94	9.59	8.25	142-9701-811
				Non-Magnetic SMB Connectors				
31	Crimp	2*	Gold	J671-ND	15.26	13.39	11.51	131-9403-001
	Crimp	60	Gold	J672-ND	15.26	13.39	11.51	131-9404-001
33	PC Mt.	—	Gold	J675-ND	9.26	8.13	6.99	131-9701-201
	PC Mt.	—	Gold	J676-ND	9.26	8.13	6.99	131-9701-211
35	PC Mt.	—	Gold	J677-ND	13.94	12.23	10.52	131-9701-301
39	Crimp	2*	Gold	J673-ND	21.45	18.81	16.17	131-9403-101
	Crimp	60	Gold	J674-ND	21.45	18.81	16.17	131-9404-101
				Tools				
Crimp Tool Frame				J572-ND	91.51	—	—	140-0000-952
Die Set for SMA, SMB Type (RG178, 316, 316DS, 58)				J573-ND	111.12	—	—	140-0000-951
Semi-Rigid Cable Vice Tool				J702-ND	478.80	—	—	140-0000-962
Cable Clamp Inserts, .086 Semi-Rigid Tool				J703-ND	66.50	—	—	140-0000-964
Cable Clamp Inserts, .141 Semi-Rigid Tool				J704-ND	66.50	—	—	140-0000-965
				Kit				
RF Adapter Kit , 50Ω, 70 pcs				J687-ND	264.67	—	—	142-0000-005

* **Group 2 Cables:** RG-161/U, RG-174/U, RG-179/U, RG-187/U, RG-188/U, RG-316/U
** **Group 3 Cables:** RG-58/U, RG-141/U, RG-303/U
‡ **Group 4 Cables:** LMR-200, HPF-200, RF-200
‡‡ **Group 5 Cables:** LMR-240, HPF-240, RF-240
◊ **Group 6 Cables:** RG-179DS, RG-187DS, RG-188DS, RG-316DS
Δ **Group 7 Cables:** RG-161/U, RG-174/U, RG-188/U, RG-316/U
ΔΔ **Group 8 Cables:** RG-188DS, RG-316DS
ΔΔΔ **Group 9 Cables:** RG-55/U, RG-142/U, RG-223/U, RG-400/U
† **J467, J468, J613 and J614** Leg Length: .155"; **J469, J615 and J616** Leg Length: .095"

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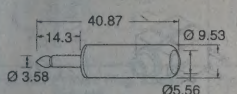
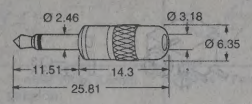
Fig. 1



3.5mm Plug

Fig. 2



2.5mm Plug

Fig. 3

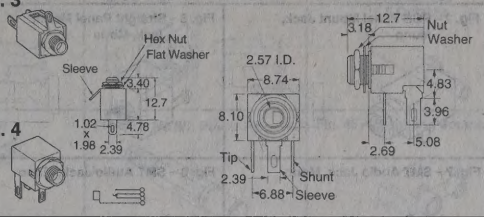
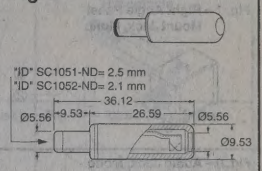


Fig. 4

Fig. 5



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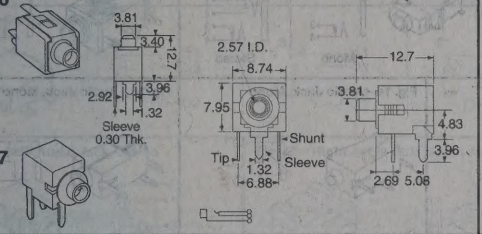
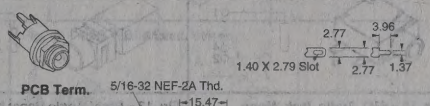


Fig. 7

Fig. 8



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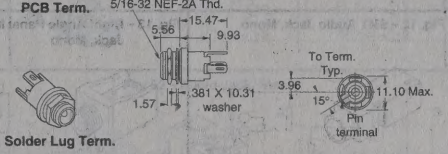

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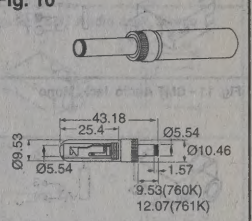

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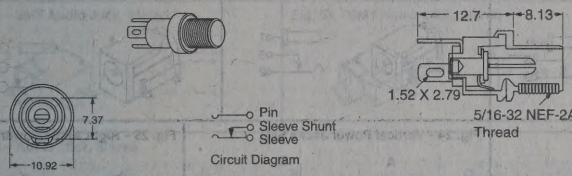


Fig. 12

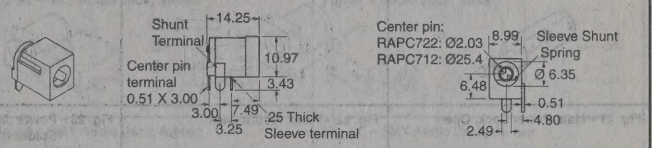


Fig. 13

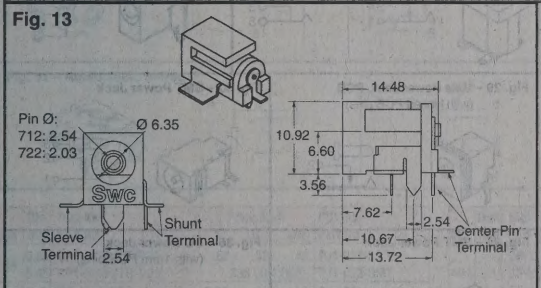


Fig. 14

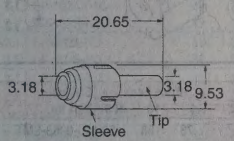


Fig. 15

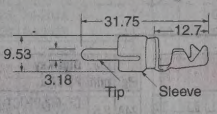


Fig. 16

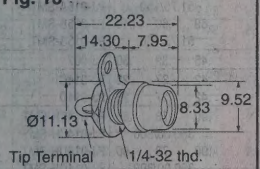


Fig. 17

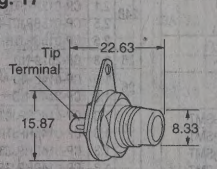


Fig. 18

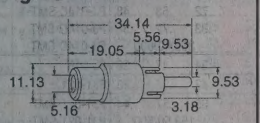


Fig. 19

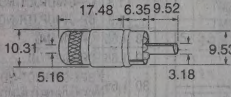


Fig. 20

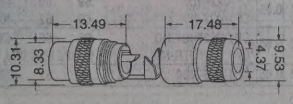


Fig.	Mates With	Description	Digi-Key Part No.	Price Each 1	10	25	Switchcraft Part No.
		"Tini Plug" Miniature Phone Plugs					
1	41	.141" (3.58mm) Black with Screw Terminals	SC1053-ND	3.40	2.55	2.34	740
	41	.141" (3.58mm) Black with Solder Lug & Cable Clamp	SC1055-ND	3.32	2.49	2.28	750
	41	.141" (3.58mm) Shielded with Solder Lug & Cable Clamp	SC1057-ND	4.48	3.36	3.08	780
		"Micro-plug" Subminiature Phone Plugs					
2	Fig. 3,4,6,7	.097" (2.46mm) 2 Cond Black with Solder Lugs	SC1058-ND	3.36	2.52	2.31	850
	Fig. 3,4,6,7	.097" (2.46mm) 2 Cond Red with Solder Lugs	SC1059-ND	3.36	2.52	2.31	855
	Fig. 3,4,6,7	.097" (2.46mm) 2 Cond Natural with Solder Lugs	SC1060-ND	3.36	2.52	2.31	880
		"Micro-d Jax" Subminiature Enclosed Phone Jack					
3	850	Subminiature 2 Cond Closed Circuit Solder Lug	SC1043-ND	2.24	1.68	1.54	MDSL2A
6	850	Subminiature 2 Cond Closed Circuit PCB	SC1044-ND	2.24	1.68	1.54	MDPC2A
4	850	Subminiature Rt. Angle 2 Cond Solder Lug	SC1045-ND	2.48	1.86	1.71	MDSL2ARA
7	850	Subminiature Rt. Angle PCB	SC1046-ND	2.48	1.86	1.71	MDPC2ARA
		Power Plugs					
5	712A	Power Plug .1" Black Handle (2.5 mm Dia.)	SC1051-ND	3.08	2.31	2.12	760
5	722A	Power Plug .08" Black Handle (2.1 mm Dia.)	SC1052-ND	3.08	2.31	2.12	S760
10	L712A	Conn Power Plug Locking 2.5 mm Blk	SC1148-ND	4.48	3.36	3.08	761K
10	712A	Conn Power Plug Locking 2.5 mm Blk	SC1149-ND	4.48	3.36	3.08	760K
		Power Jacks					
8	760K	Panel Mount Jack .1" Dia. PC Terminals (2.5 mm Dia.)	SC1050-ND	3.08	2.31	2.12	PC712A
8	S760K	Panel Mount Jack .08" Dia. (2.1 mm Dia.)	SC1047-ND	3.08	2.31	2.12	PC722A
9	760	Panel Mount Jack .1" Dia., Solder Lug (2.5 mm Dia.)	SC1048-ND	3.08	2.31	2.12	712A
9	S760	Panel Mount Jack .08" Dia., Solder Lug (2.1 mm Dia.)	SC1049-ND	3.08	2.31	2.12	722A
11	761K	Conn Power Jack 2.5 mm Panel Mount Long	SC1150-ND	4.20	3.15	2.89	L712A
	S761K	Conn Power Jack 2.1 mm Panel Mount Long	SC1151-ND	4.20	3.15	2.89	L722A
12	760	Conn Power Jack Right Angle PCB 2.5 mm	SC1152-ND	1.16	.87	.80	RAPC712
	S760	Conn Power Jack Right Angle PCB 2.1 mm	SC1153-ND	1.16	.87	.80	RAPC722
13	760	Conn Power Jack Hybrid SMT 2.5 mm	SC1154-ND	1.28	.96	.88	RASH712
	S760	Conn Power Jack Hybrid SMT 2.1 mm	SC1155-ND	1.28	.96	.88	RASH722

Fig.	Description	Digi-Key Part No.	Price Each 1	10	25	100	Switchcraft Part No.
	Phono Jacks and Plugs						
14	Phono Plug 2 Cond	SC1131-ND	.55	.41	.38	.35	3501M
15	Phono Plug 2 Cond. with Cable Clamp	SC1132-ND	1.12	.84	.77	.70	3501MC
16	Phono Jack 2 Cond. Panel Mount	SC1133-ND	1.52	1.14	1.05	.95	3501FP
—	Insulated Washer Flat For SC1133-ND	SC1144-ND	.36	.27	.25	.23	S-2207
—	Insulated Washer Extruded For SC1133-ND	SC1145-ND	.40	.30	.28	.25	S-1564
17	Phono Jack 2 Cond. Panel Mount with Hardware	SC1134-ND	1.92	1.44	1.32	1.20	3501FR
—	Insulated Washer Flat For SC1134-ND	SC1146-ND	.18	.13	.12	.11	S-1028
—	Insulated Washer Extruded For SC1134-ND	SC1147-ND	.40	.30	.28	.25	S-1029
18	Phono Plug 2 Cond, Red Cable Clamp	SC1135-ND	1.60	1.20	1.10	1.00	3558-1
18	Phono Plug 2 Cond, Black Cable Clamp	SC1136-ND	1.60	1.20	1.10	1.00	3558-2
19	Phono Plug 2 Cond, Shielded with Cable Clamp	SC1138-ND	2.08	1.56	1.43	1.30	3502
20	Phono Extension Jack 2 Cond, Shielded with Heavy Duty Clamp	SC1139-ND	3.00	2.25	2.06	1.88	3503

A

Fig. 1 – Right Angle Panel Mount Jack, Mono

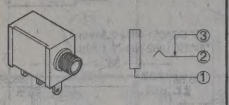


Fig. 2 – PCB Panel Mount Jack, Mono

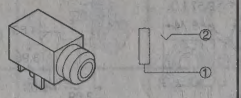


Fig. 3 – Straight Panel Mount Jack, Mono

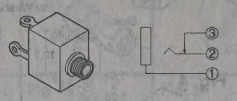


Fig. 4 – Audio Jack, Mono

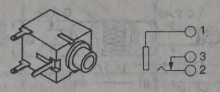


Fig. 5 – Audio Jack, Mono

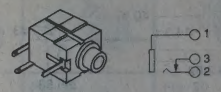


Fig. 6 – Audio Jack, Mono

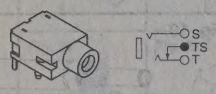


Fig. 7 – SMT Audio Jack, Mono

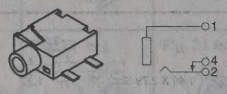


Fig. 8 – SMT Audio Jack, Mono

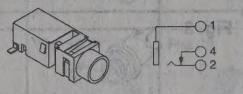


Fig. 9 – SMT Audio Jack

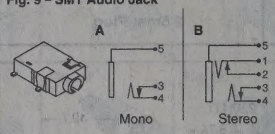


Fig. 10 – Audio Jack, Mono

Fig. 11 – SMT Audio Jack, Mono

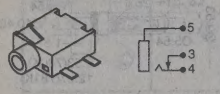


Fig. 12 – SMT Audio Jack, Mono

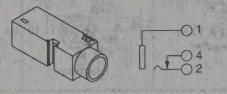


Fig. 13 – Right Angle Panel Mount Jack, Mono

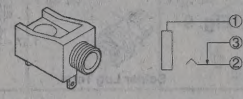


Fig. 14 – Audio Jack, Mono

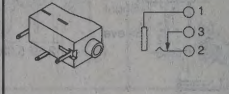


Fig. 15 – Audio Jack, Mono

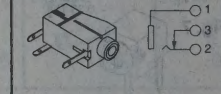


Fig. 16 – Male Power Plug

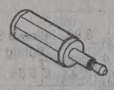


Fig. 17 – Male Power Jack, Closed

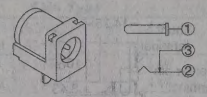


Fig. 18 – Right Angle Power Jack

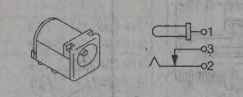


Fig. 19 – SMT Power Jack

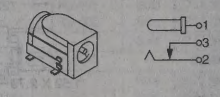


Fig. 20 – SMT Power Jack

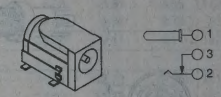


Fig. 21 – Male Power Jack, Open

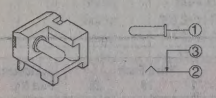


Fig. 22 – Panel Mount Jack

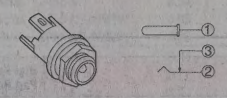


Fig. 23 – Power Jack with Solder Eyelets

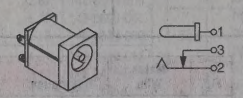


Fig. 24 – Vertical Power Jacks SMT

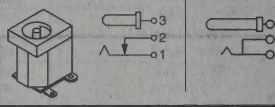


Fig. 25 – Right Angle Power Jack

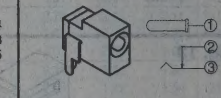


Fig. 26 – DC Power Jack

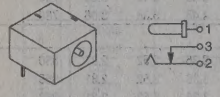


Fig. 27 – SMT Power Jack

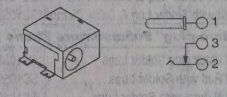


Fig. 28 – DC Power Jack

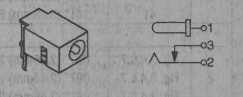


Fig. 29 – Male Power Jack, PCB (with kinked PCB pins)

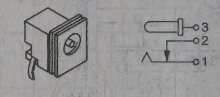


Fig. 30 – SMT Power Jack

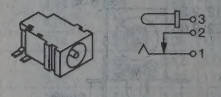


Fig. 31 – DC Power Jack

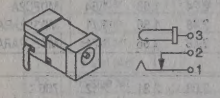


Fig. 32 – SMT Power Jack

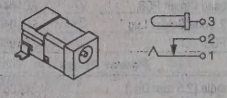


Fig. 33 – DC Power Jack

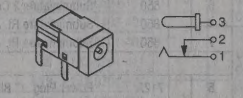


Fig. 34 – SMT Power Jack

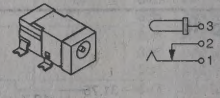


Fig. 35 – DC Power Jack (with 1mm PCB pins)

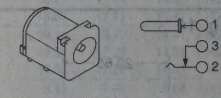


Fig.	Dia. mm	Digi-Key Part No.	Price Each 1	10	100	CUI Inc. Part No.
1	2.5	CP-2502-ND*	.99	.86	.66	MJ-2502
2	2.5	CP-2503-ND†	.51	.44	.34	MJ-2503A
		CP1-2503AM-ND† **NEW!**	.32	.28	.22	MJ1-2503A
3	2.5	CP-2505-ND*	.93	.81	.62	MJ-2505
4	2.5	CP-2506-ND*	.37	.33	.25	MJ-2506
		CP-2506N-ND†	.37	.33	.25	MJ-2506N
5	2.5	CP-2508-ND*	.26	.23	.18	MJ-2508
		CP-2508N-ND†	.26	.23	.18	MJ-2508N
6	2.5	CP-M2509N-ND	.38	.34	.26	MJ-2509N
7	2.5	CP-2512-ND§	2.07	1.80	1.38	MJ-2510-SMT-1
		CP1-2510MJCT-ND	.68	.59	.45	MJ1-2510-SMT
		CP1-2510MJTR-ND		337.50/1,000		MJ1-2510-SMT
8	2.5	CP-2523MJCT-ND	.86	.75	.58	MJ-2523-SMT
		CP-2523MJTR-ND		429.00/1,000		MJ-2523-SMT
		CP-2523MJ-ND§	.75	.65	.50	MJ-2523-SMT-1
9A	2.5	CP-2533MJTR-ND		495.00/1,000		MJ-2533-SMT
		CP-2533MJ-ND§	.99	.86	.66	MJ-2533-SMT-1
		CP1-2533MJCT-ND	.69	.61	.47	MJ1-2533-SMT
		CP1-2533MJTR-ND		346.50/1,000		MJ1-2533-SMT
9B	2.5	CP1-2535SJCT-ND	.75	.65	.50	SJ1-2535-SMT
		CP1-2535SJTR-ND		375.00/1,000		SJ1-2535-SMT
10	3.5	CP-3502MJ-ND*	.66	.58	.45	MJ-3502
		CP-3502N-ND†	.62	.54	.41	MJ-3502N
11	3.5	CP1-3510MJCT-ND	.63	.55	.42	MJ1-3510-SMT
		CP1-3510MJTR-ND		252.00/800		MJ1-3510-SMT
12	3.5	CP-3523MJCT-ND	.87	.76	.58	MJ-3523-SMT
		CP-3523MJTR-ND		433.50/1,000		MJ-3523-SMT

Fig.	Dia. mm	Digi-Key Part No.	Price Each 1	10	100	CUI Inc. Part No.
13	3.5	CP-3536-ND*	.39	.35	.27	MJ-3536
14	3.5	CP-3536N-ND†	.39	.35	.27	MJ-3536N
15	3.5	CP-3536NG-ND‡	.39	.35	.27	MJ-3536NG
16	2.5	CP-2501-ND	.76	.66	.51	MP-2501
	3.5	CP-3501-ND	.76	.66	.51	MP-3501
17	2.1	CP-002A-ND	.38	.33	.26	PJ-002A
	2.5	CP-002B-ND	.38	.33	.26	PJ-002B
18	2.0	CP-002AH-ND	.42	.37	.28	PJ-002AH
	2.5	CP-002BH-ND	.42	.37	.28	PJ-002BH
19	2.0	CP-002AHPJCT-ND	.90	.78	.60	PJ-002AH-SMT
	2.0	CP-002AHPJTR-ND		112.50/250		PJ-002AH-SMT
	2.5	CP-002BHPJCT-ND	.90	.78	.60	PJ-002BH-SMT
	2.5	CP-002BHPJTR-ND		112.50/250		PJ-002BH-SMT
20	2.1	CP-002APJCT-ND	.81	.70	.54	PJ-002A-SMT
	2.1	CP-002APJTR-ND		100.88/250		PJ-002A-SMT
	2.1	CP-002APJ-ND§	.73	.64	.49	PJ-002A-SMT-1
	2.5	CP-002BPJCT-ND	.81	.70	.54	PJ-002B-SMT
	2.5	CP-002BPJTR-ND		100.88/250		PJ-002B-SMT
	2.5	CP-002BPJ-ND§	.73	.64	.49	PJ-002B-SMT-1
21	2.1	CP-003A-ND	.34	.30	.23	PJ-003A
	2.5	CP-003B-ND	.34	.30	.23	PJ-003B
22	2.0	CP-5-ND*	1.83	1.59	1.22	PJ-005A
	2.5	CP-6-ND*	1.83	1.59	1.22	PJ-005B
23	2.1	CP-006A-ND	.45	.38	.30	PJ-006A
	2.5	CP-006B-ND	.45	.39	.30	PJ-006B
24A	2.1	CP-006APJCT-ND	.78	.68	.52	PJ-006A-SMT
		CP-006APJTR-ND		97.50/250		PJ-006A-SMT

Fig.	Dia. mm	Digi-Key Part No.	Price Each 1	10	100	CUI Inc. Part No.
24A	2.5	CP-006BPJCT-ND	.78	.68	.52	PJ-006B-SMT
		CP-006BPJTR-ND		97.50/250		PJ-006B-SMT
24B	2.1	CP-015APJCT-ND	.69	.60	.46	PJ-015A-SMT
	2.1	CP-015APJTR-ND		51.75/150		PJ-015A-SMT
	2.5	CP-015BPJCT-ND	.69	.60	.46	PJ-015B-SMT
	2.5	CP-015BPJTR-ND		51.75/150		PJ-015B-SMT
25	1.3	CP-2519-ND	.45	.39	.30	PJ-007
26	1.0	CP-014C-ND	.42	.37	.28	PJ-014C
	1.3	CP-014D-ND	.42	.37	.28	PJ-014D
27	1.0	CP-014CHPJCT-ND	.90	.78	.60	PJ-014CH-SMT
	1.0	CP-014CHPJTR-ND		360.00/800		PJ-014CH-SMT
	1.3	CP-014DHPJCT-ND	.90	.78	.60	PJ-014DH-SMT
	1.3	CP-014DHPJTR-ND		360.00/800		PJ-014DH-SMT
	1.0	CP-014CPJCT-ND	.83	.72	.56	PJ-014C-SMT
	1.0	CP-014CPJTR-ND		332.40/800		PJ-014C-SMT
	1.0	CP-014CPJ-ND§	.72	.63	.48	PJ-014C-SMT-1
	1.3	CP-014DPJCT-ND	.83	.72	.56	PJ-014D-SMT
	1.3	CP-014DPJTR-ND		332.40/800		PJ-014D-SMT
28	1.65	CP-016-ND	.54	.47	.36	PJ-016
29	1.65	CP1-021-ND	.42	.37	.28	PJ1-021
30	1.65	CP1-021PJCT-ND	.65	.57	.44	PJ1-021-SMT
		CP1-021PJTR-ND		163.50/500		PJ1-021-SMT
31	0.65	CP-022-ND	.69	.60	.46	PJ-022
		CP1-022-ND	.60	.52	.40	PJ1-022
32	0.65	CP1-022PJCT-ND	.65	.56	.43	PJ1-022-SMT
		CP1-022PJTR-ND		322.50/1,000		PJ1-022-SMT
33	0.65	CP1-023-ND◊	.58	.51	.39	PJ1-023

* Threaded with nut † Non-threaded § Tray ‡ Non-threaded and Isolated Ground ◊ Shielded Version

(Continued)

Fig. 36 – Male Power Jack, PCB

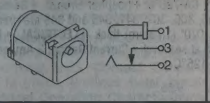


Fig. 37 – Male Power Jack, PCB (with kinked PCB pins)

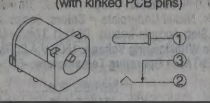


Fig. 38 – Male Power Jack, PCB (with kinked PCB pins)

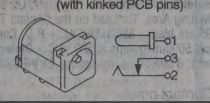


Fig. 39 - *NEW!* Power Socket

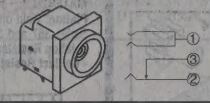


Fig. 40 – Female Plug 5.5 Outside

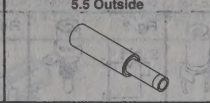


Fig. 41 – *NEW!* Power Receptacle

Fig. 42 – Female Plug, 3.5mm Outside

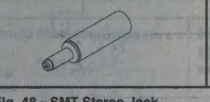


Fig. 43 – Female Plug, 3.5mm Outside

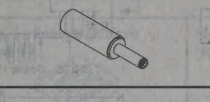


Fig. 44 – Female Plug

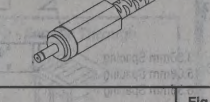


Fig. 45 – *NEW!* Power Plug

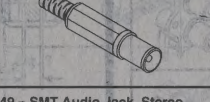


Fig. 46 – Earphone Combo Jack

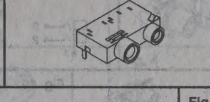


Fig. 47 – Audio Jack, Stereo

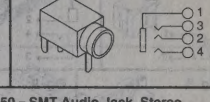


Fig. 48 – SMT Stereo Jack

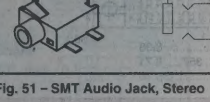


Fig. 49 – SMT Audio Jack, Stereo

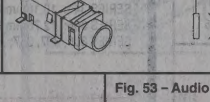


Fig. 50 – SMT Audio Jack, Stereo

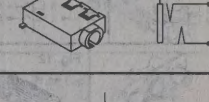


Fig. 51 – SMT Audio Jack, Stereo

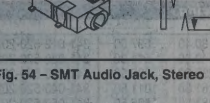


Fig. 52 – Right Angle PCB Mount Jack, Stereo

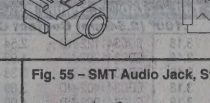


Fig. 53 – Audio Jack, Stereo

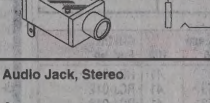


Fig. 54 – SMT Audio Jack, Stereo

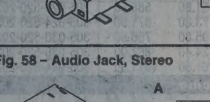


Fig. 55 – SMT Audio Jack, Stereo

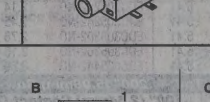


Fig. 56 – SMT Audio Jack, Stereo

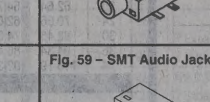


Fig. 57 – Audio Jack, Stereo

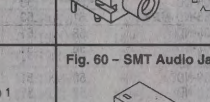


Fig. 58 – Audio Jack, Stereo

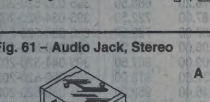


Fig. 59 – SMT Audio Jack, Stereo

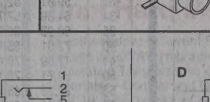


Fig. 60 – SMT Audio Jack, Stereo

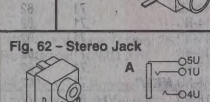


Fig. 61 – Audio Jack, Stereo

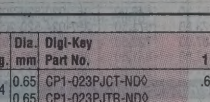


Fig. 62 – Stereo Jack

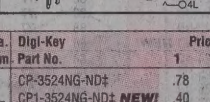


Fig.	Dia. mm	Digi-Key Part No.	Price Each 1	10	100	CUI Inc. Part No.
34	0.65	CP1-023PJCT-ND◊	.67	.59	.45	PJ1-023-SMT
	0.65	CP1-023PJTR-ND◊	336.00/1,000			PJ1-023-SMT
35	2.1	CP-102A-ND	.38	.33	.26	PJ-102A
	2.5	CP-102B-ND	.38	.33	.26	PJ-102B
36	2.1	CP-102AH-ND	.42	.37	.28	PJ-102AH
	2.5	CP-102BH-ND	.42	.37	.28	PJ-102BH
37	2.1	CP-202A-ND	.38	.33	.26	PJ-202A
	2.5	CP-202B-ND	.38	.33	.26	PJ-202B
38	2.1	CP-202AH-ND	.42	.37	.28	PJ-202AH
	2.5	CP-202BH-ND	.42	.37	.28	PJ-202BH
39	1.45	CP-025-ND ***NEW!***	.66	.58	.44	PJ-025
40	2.1	CP-004A-ND	.65	.56	.43	PP-002A
	2.5	CP-004B-ND	.65	.56	.43	PP-002B
41	2.1	CP-024A-ND ***NEW!***	2.28	1.98	1.52	PR-002A
	2.5	CP-024B-ND ***NEW!***	2.28	1.98	1.52	PR-002B
42	1.0	CP-002C-ND	.78	.68	.53	PP-002C
43	1.3	CP-002D-ND	.78	.68	.53	PP-002D
44	.7 x 2.35	CP-012-ND	.90	.78	.60	PP-012
	1.7 x 4.0	CP-013-ND	.84	.73	.56	PP-013
	1.7 x 4.75	CP-014-ND	.84	.73	.56	PP-014
45	1.4	CP-026-ND ***NEW!***	1.08	.94	.72	PP-016
46	3.5/ 2.5	CP-320154-ND	1.18	1.03	.79	SJD-3201-54
47	2.5	CP-2503A-ND†	.65	.56	.43	SJ-2503A
		CP-2503A-ND† ***NEW!***	.33	.29	.22	SJ1-2503A
48A	2.5	CP1-2513SJCT-ND	.68	.59	.45	SJ1-2513-SMT
		CP1-2513SJTR-ND	337.50/1,000			SJ1-2513-SMT
48B	2.5	CP-2514TR-ND	1050.00/1,000			SJ-2513-SMT
		CP-2514-ND§	2.10	1.82	1.40	SJ-2513-SMT-1
		CP1-2514SJCT-ND	.69	.60	.46	SJ1-2514-SMT
		CP1-2514SJTR-ND	345.00/1,000			SJ1-2514-SMT
48C	2.5	CP1-2515SJCT-ND	.71	.62	.47	SJ1-2515-SMT
		CP1-2515SJTR-ND	352.50/1,000			SJ1-2515-SMT
		CP-2516TR-ND	864.00/800			SJ-2514-SMT
		CP-2518TR-ND	1095.00/1,000			SJ-2515-SMT

Fig.	Dia. mm	Digi-Key Part No.	Price Each 1	10	100	CUI Inc. Part No.
49A	2.5	CP-2523SJCT-ND	.86	.75	.58	SJ-2523-SMT
		CP-2523SJTR-ND	429.00/1,000			SJ-2523-SMT
		CP-2523SJ-ND§	.75	.65	.50	SJ-2523-SMT-1
49B	2.5	CP-2524SJCT-ND	.90	.78	.60	SJ-2524-SMT
		CP-2524SJTR-ND	448.50/1,000			SJ-2524-SMT
		CP-2524SJ-ND§	.79	.69	.53	SJ-2524-SMT-1
50	2.5	CP-2533SJ-ND§	.99	.86	.66	SJ-2533-SMT-1
		CP1-2533SJCT-ND	.69	.61	.47	SJ1-2533-SMT
		CP1-2533SJTR-ND	346.50/1,000			SJ1-2533-SMT
51	2.5	CP1-2534SJCT-ND	.74	.64	.49	SJ1-2534-SMT
		CP1-2534SJTR-ND	367.50/1,000			SJ1-2534-SMT
52A	3.5	CP-3504-ND†	2.06	1.79	1.38	SJ-3504
52B	3.5	CP-3505-ND†	2.10	1.83	1.41	SJ-3505
53A	3.5	CP-3513-ND*	.80	.70	.54	SJ-3513
		CP1-3513-ND* ***NEW!***	.59	.52	.40	SJ1-3513
		CP-3513N-ND†	.77	.67	.52	SJ-3513N
		CP1-3513N-ND† ***NEW!***	.53	.46	.35	SJ1-3513N
53B	3.5	CP-3514-ND*	.84	.74	.57	SJ-3514
		CP1-3514-ND* ***NEW!***	.60	.53	.41	SJ1-3514
		CP-3514N-ND†	.82	.71	.55	SJ-3514N
		CP1-3514N-ND† ***NEW!***	.54	.47	.36	SJ1-3514N
53C	3.5	CP-3515-ND*	.84	.74	.57	SJ-3515
		CP1-3515-ND* ***NEW!***	.62	.54	.41	SJ1-3515
		CP-3515N-ND†	.82	.71	.55	SJ-3515N
		CP1-3515N-ND† ***NEW!***	.55	.48	.37	SJ1-3515N
54	3.5	CP-3513SJ-ND§	.69	.60	.46	SJ-3513-SMT-1
		CP1-3513SJCT-ND	.63	.55	.42	SJ1-3513-SMT
		CP1-3513SJTR-ND	252.00/800			SJ1-3513-SMT
55	3.5	CP1-3514SJCT-ND	.65	.56	.43	SJ1-3514-SMT
		CP1-3514SJTR-ND	258.00/800			SJ1-3514-SMT
56	3.5	CP1-3515SJCT-ND	.66	.58	.44	SJ1-3515-SMT
		CP1-3515SJTR-ND	264.00/800			SJ1-3515-SMT
57A	2.5	CP-S2504N-ND	.45	.40	.31	SJ-2504N
57B	2.5	CP-S2509N-ND	.43	.37	.29	SJ-2509N
58A	3.5	CP-3523N-ND†	.62	.54	.41	SJ-3523N
		CP1-3523N-ND† ***NEW!***	.38	.33	.26	SJ1-3523N
		CP-3523NG-ND‡	.74	.64	.50	SJ-3523NG
		CP1-3523NG-ND‡ ***NEW!***	.38	.34	.26	SJ1-3523NG

Fig.	Dia. mm	Digi-Key Part No.	Price Each 1	10	100	CUI Inc. Part No.
58B	3.5	CP-3524NG-ND‡	.78	.68	.53	SJ-3524NG
		CP1-3524NG-ND‡ ***NEW!***	.40	.35	.27	SJ1-3524NG
		CP-3524N-ND†	.71	.62	.47	SJ-3524N
		CP1-3524N-ND† ***NEW!***	.39	.34	.26	SJ1-3524N
58C	3.5	CP-3525NG-ND‡	.80	.70	.54	SJ-3525NG
		CP1-3525NG-ND ***NEW!***	.41	.36	.28	SJ1-3525NG
		CP1-3525N-ND ***NEW!***	.40	.35	.27	SJ1-3525N
59	3.5	CP-3523SJCT-ND	.87	.76	.58	SJ-3523-SMT
		CP-3523SJTR-ND	433.50/1,000			SJ-3523-SMT
60	3.5	CP-3524SJCT-ND	.90	.78	.60	SJ-3524-SMT
		CP-3524SJTR-ND	448.50/1,000			SJ-3524-SMT
61A	3.5	CP-3533-ND*	.98	.85	.66	SJ-3533
		CP1-3533-ND ***NEW!***	.68	.59	.46	SJ1-3533
		CP1-3533N-ND ***NEW!***	.60	.53	.41	SJ1-3533N
		CP-3533NG-ND‡	.95	.83	.64	SJ-3533NG
		CP1-3533NG-ND‡ ***NEW!***	.59	.52	.40	SJ1-3533NG
		CP-3533NGS-ND‡◊	1.09	.95	.73	SJ-3533NGS
		CP1-3533NS-ND†◊	.77	.67	.51	SJ1-3533NS
61B	3.5	CP-3534-ND*	1.01	.88	.68	SJ-3534
		CP1-3534-ND* ***NEW!***	.69	.61	.47	SJ1-3534
		CP-3534N-ND†	.98	.85	.66	SJ-3534N
		CP1-3534N-ND† ***NEW!***	.62	.54	.41	SJ1-3534N
		CP-3534NG-ND‡	.98	.85	.66	SJ-3534NG
		CP1-3534NG-ND‡ ***NEW!***	.61	.53	.41	SJ1-3534NG
61C	3.5	CP-3534NGS-ND‡◊	1.12	.97	.75	SJ-3534NGS
		CP-3534NS-ND†◊	1.12	.97	.75	SJ-3534NS
		CP1-3534NS-ND†◊	.78	.68	.52	SJ1-3534NS
61D	3.5	CP-3535-ND*	1.04	.91	.70	SJ-3535
		CP1-3535-ND* ***NEW!***	.71	.62	.47	SJ1-3535
		CP-3535N-ND†	1.01	.88	.68	SJ-3535N
		CP1-3535N-ND† ***NEW!***	.63	.55	.42	SJ1-3535N
		CP-3535NG-ND‡	1.01	.88	.68	SJ-3535NG
		CP1-3535NG-ND‡ ***NEW!***	.62	.54	.42	SJ1-3535NG
		CP-3535NGS-ND‡◊	1.15	1.00	.77	SJ-3535NGS
		CP-3535NS-ND†◊	1.15	1.00	.77	SJ-3535NS
		CP1-3535NS-ND†◊	.80	.69	.53	SJ1-3535NS
62A	3.5	CP-351133-ND	1.67	1.46	1.12	SJD-3511-33
62B	3.5	CP-351145-ND	1.58	1.37	1.05	SJD-3511-45

* Threaded with nut † Non-threaded § Tray ‡ Non-threaded and Isolated Ground ◊ Shielded Version

CUI INC Phono Plugs and Jacks

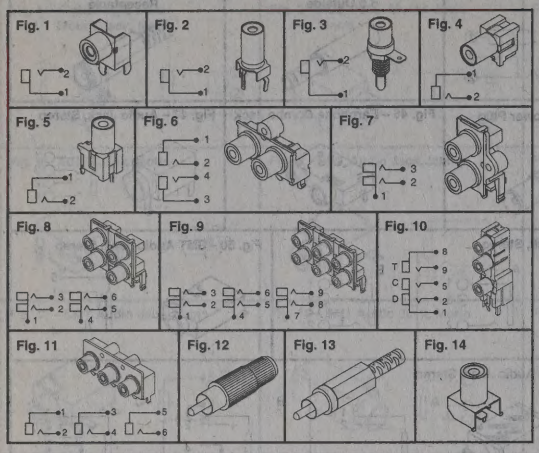
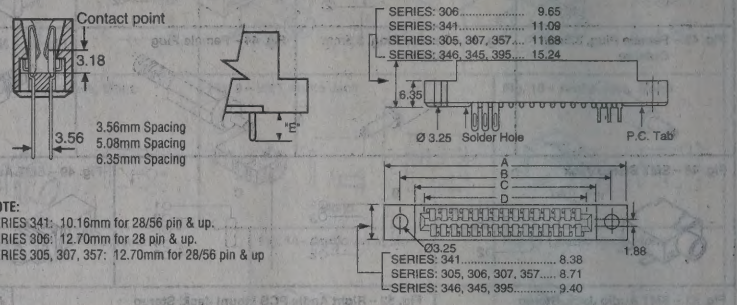


Fig.	Color	Digi-Key Part No.	Price Each 1	10	100	CUI Inc. Part No.
1	Black	CP-1400-ND	.61	.53	.41	RCJ-011
	Red	CP-1401-ND	.61	.53	.41	RCJ-012
	White	CP-1402-ND	.61	.53	.41	RCJ-013
	Yellow	CP-1403-ND	.61	.53	.41	RCJ-014
	Blue	CP-1404-ND	.61	.53	.41	RCJ-015
	Green	CP-1405-ND	.61	.53	.41	RCJ-016
	Orange	CP-1466-ND ***NEW!***	.61	.53	.41	RCJ-017
2	Black	CP-1406-ND	.58	.51	.39	RCJ-021
	Red	CP-1407-ND	.58	.51	.39	RCJ-022
	White	CP-1408-ND	.58	.51	.39	RCJ-023
	Yellow	CP-1409-ND	.58	.51	.39	RCJ-024
	Blue	CP-1410-ND	.58	.51	.39	RCJ-025
	Green	CP-1411-ND	.58	.51	.39	RCJ-026
	Orange	CP-1467-ND ***NEW!***	.58	.51	.39	RCJ-027
3	Black	CP-1412-ND	.71	.62	.47	RCJ-031
	Red	CP-1413-ND	.71	.62	.47	RCJ-032
	White	CP-1414-ND	.71	.62	.47	RCJ-033
	Yellow	CP-1415-ND	.71	.62	.47	RCJ-034
	Blue	CP-1416-ND	.71	.62	.47	RCJ-035
	Green	CP-1417-ND	.71	.62	.47	RCJ-036
	Orange	CP-1468-ND ***NEW!***	.71	.62	.47	RCJ-037
4	Black	CP-1418-ND	.88	.77	.59	RCJ-041
	Red	CP-1419-ND	.88	.77	.59	RCJ-042
	White	CP-1420-ND	.88	.77	.59	RCJ-043
	Yellow	CP-1421-ND	.88	.77	.59	RCJ-044
	Blue	CP-1422-ND	.88	.77	.59	RCJ-045
	Green	CP-1423-ND	.88	.77	.59	RCJ-046
	Orange	CP-1469-ND ***NEW!***	.88	.77	.59	RCJ-047
5	Black	CP-1424-ND	.66	.57	.44	RCJ-051
	Red	CP-1425-ND	.66	.57	.44	RCJ-052
	White	CP-1426-ND	.66	.57	.44	RCJ-053
	Yellow	CP-1427-ND	.66	.57	.44	RCJ-054
	Blue	CP-1428-ND	.66	.57	.44	RCJ-055
	Green	CP-1429-ND	.66	.57	.44	RCJ-056
	Orange	CP-1470-ND ***NEW!***	.66	.57	.44	RCJ-057
6	Red/Black	CP-1430-ND	.89	.78	.60	RCJ-2121
	White/Yellow	CP-1431-ND	.89	.78	.60	RCJ-2134
	Red/White	CP-1432-ND	.89	.78	.60	RCJ-2123
7	Red/Black	CP-1433-ND	.86	.75	.58	RCJ-2221
	White/Yellow	CP-1434-ND	.86	.75	.58	RCJ-2234
	Red/White	CP-1435-ND	.86	.75	.58	RCJ-2223
8	Red/Black	CP-1436-ND	1.47	1.28	.98	RCJ-412211
	White/Yellow	CP-1437-ND	1.47	1.28	.98	RCJ-413344
	Red/White	CP-1438-ND	1.47	1.28	.98	RCJ-412233
9	Red/Black	CP-1439-ND	1.98	1.72	1.32	RCJ-61212121
	White/Yellow	CP-1440-ND	1.98	1.72	1.32	RCJ-61343434
	Red/White	CP-1441-ND	1.98	1.72	1.32	RCJ-61232323
	Red/White/Yellow	CP-1442-ND	1.98	1.72	1.32	RCJ-61223344
10	Red/White/Yellow	CP-1443-ND§	1.51	1.31	1.01	RCJ-31234
	Red/White/Yellow	CP-1464-ND ***NEW!***	1.51	1.31	1.01	RCJ-33234
	Red/Green/Blue	CP-1465-ND ***NEW!***	1.51	1.31	1.01	RCJ-33265
11	Red/White/Yellow	CP-1445-ND	1.49	1.29	1.00	RCJ-32234
	Red/Green/Blue	CP-1446-ND	1.49	1.29	1.00	RCJ-32265
12	Black	CP-1447-ND	.62	.54	.42	RCP-011
	Red	CP-1448-ND	.62	.54	.42	RCP-012
	White	CP-1449-ND	.62	.54	.42	RCP-013
	Yellow	CP-1450-ND	.62	.54	.42	RCP-014
	Blue	CP-1451-ND	.62	.54	.42	RCP-015
	Green	CP-1452-ND	.62	.54	.42	RCP-016
13	Black	CP-1453-ND	.62	.54	.42	RCP-021
	Red	CP-1454-ND	.62	.54	.42	RCP-022
	White	CP-1455-ND	.62	.54	.42	RCP-023
	Yellow	CP-1456-ND	.62	.54	.42	RCP-024
	Blue	CP-1457-ND	.62	.54	.42	RCP-025
	Green	CP-1458-ND	.62	.54	.42	RCP-026
14	Black	CP-1459-1-ND*	.72	.63	.56	RCJ-011-SMT
	Black	CP-1459-2-ND†		120.00/250		RCJ-011-SMT
	Red	CP-1460-1-ND*	.72	.63	.56	RCJ-012-SMT
	Red	CP-1460-2-ND†		120.00/250		RCJ-012-SMT
	White	CP-1461-1-ND*	.72	.63	.56	RCJ-013-SMT
	White	CP-1461-2-ND†		120.00/250		RCJ-013-SMT
	Yellow	CP-1462-1-ND*	.72	.63	.56	RCJ-014-SMT
	Yellow	CP-1462-2-ND†		120.00/250		RCJ-014-SMT
	Orange	CP-1463-1-ND*	.72	.63	.56	RCJ-017-SMT
	Orange	CP-1463-2-ND†		120.00/250		RCJ-017-SMT

§ Not Recommended for New Design * Cut Tape † Tape and Reel

EDAC INC Edgecard Connectors

MATERIALS: • **Insulator:** Thermoplastic Polyester, UL 94V-0 • **Contacts:** Copper, Nickel, Tin Alloy CA-725 or Phosphor Bronze • **Contact Plating:** Gold on Mating Area, Tin-Lead on the Contact Tails, Nickel Underplate • **Colors:** Series 305, 306, 307, 341, 345 and 346 are green; Series 357 and 395 are black. **MECHANICAL:** • **P.C. Card Slot:** Accepts boards .054" (1.37mm) to .070" (1.78mm) thick **ELECTRICAL:** • **Insulation Resistance:** 5000 megohms at 500 VDC • **Dielectric Withstanding Voltage:** 1500 V.A.C. RMS at sea level • **Current Rating:** 3 Amperes • **Contact Resistance:** 6 Milliohms, maximum **ENVIRONMENTAL:** • **Operating Temperature:** -65° ~ 125°C



NOTE:
SERIES 341: 10.16mm for 28/56 pin & up.
SERIES 306: 12.70mm for 28 pin & up.
SERIES 305, 307, 357: 12.70mm for 28/56 pin & up

Contacts	Dimensions (mm) A ±.38	B ±.20	C ±.38	D ±.15	E ±.51	Digi-Key Part No.	Pricing 1	10	100	500	EDAC Part No.
Solder Tail — .140" (3.56mm) Row-to-Row Spacing											
.100" (2.54mm) Contact Centers											
12	37.47	29.85	22.23	17.78	3.18	EDC341122-ND	2.54	22.55	180.40	697.00	341-012-520-202
20	47.63	40.01	32.39	27.94	3.18	EDC341202-ND	1.98	17.60	140.80	544.00	341-020-520-202
30	60.33	52.71	45.09	40.64	3.18	EDC341302-ND	3.38	29.98	239.80	926.50	341-030-520-202
40	73.03	65.41	57.79	53.34	3.18	EDC341402-ND	3.69	32.73	261.80	1011.50	341-040-520-202
50	85.73	78.11	70.49	66.04	3.18	EDC341502-ND	4.00	35.48	283.80	1096.50	341-050-520-202
.156" (3.96mm) Contact Centers											
12	46.79	38.91	31.65	27.94	5.41	EDC305122-ND	1.67	14.85	118.80	459.00	305-012-520-202
20	62.64	54.76	47.50	43.79	5.41	EDC305202-ND	2.14	18.98	151.80	586.50	305-020-520-202
24	70.56	62.69	55.42	51.71	5.41	EDC305242-ND	2.45	21.73	173.80	671.50	305-024-520-202
30	82.45	74.57	67.31	63.60	5.41	EDC305302-ND	2.76	24.48	195.80	756.50	305-030-520-202
36	94.34	86.46	79.20	75.49	5.41	EDC305362-ND	3.16	28.05	224.40	867.00	305-036-520-202
44	110.19	102.31	95.05	91.34	5.41	EDC305442-ND	3.69	32.73	261.80	1011.50	305-044-520-202
Solder Tail — .200" (5.08mm) Row-to-Row Spacing											
.100" (2.54mm) Contact Centers											
20	46.61	40.01	32.00	27.94	4.44	EDC395202-ND	2.17	19.25	154.00	595.00	395-020-520-202
26	54.23	47.63	39.62	35.56	4.44	EDC395262-ND	2.36	20.90	167.20	646.00	395-026-520-202
30	59.31	52.71	44.70	40.64	4.44	EDC395302-ND	2.51	22.28	178.20	688.50	395-030-520-202
34	64.39	57.79	49.78	45.72	4.44	EDC395342-ND	2.64	23.38	187.00	722.50	395-034-520-202
36	66.93	60.33	52.32	48.26	4.44	EDC395362-ND	2.64	23.38	187.00	722.50	395-036-520-202
40	72.01	65.41	57.40	53.34	4.44	EDC395402-ND	2.79	24.75	198.00	765.00	395-040-520-202
44	77.09	70.49	62.48	58.42	4.44	EDC395442-ND	2.95	26.13	209.00	807.50	395-044-520-202
50	84.71	78.11	70.10	66.04	4.44	EDC395502-ND	3.35	29.70	237.60	918.00	395-050-520-202
56	92.33	85.73	77.72	73.66	4.44	EDC395562-ND	3.47	30.80	246.40	952.00	395-056-520-202
60	97.41	90.81	82.80	78.74	4.44	EDC395602-ND	3.63	32.18	257.40	994.50	395-060-520-202
62	99.95	93.35	85.34	81.28	4.44	EDC395622-ND	3.91	34.65	277.20	1071.00	395-062-520-202
.156" (3.96mm) Contact Centers											
20	62.64	54.76	47.50	43.79	5.41	EDC357202-ND	2.36	20.90	167.20	646.00	357-020-520-202
24	70.56	62.69	55.42	51.71	5.41	EDC357242-ND	2.45	21.73	173.80	671.50	357-024-520-202
30	82.45	74.57	67.31	63.60	5.41	EDC357302-ND	2.64	23.38	187.00	722.50	357-030-520-202
36	94.34	86.46	79.20	75.49	5.41	EDC357362-ND	3.07	27.23	217.80	841.50	357-036-520-202
44	110.19	102.31	95.05	91.34	5.41	EDC357442-ND	3.63	32.18	257.40	994.50	357-044-520-202
Solder Tail — .250" (6.35mm) Row-to-Row Spacing											
.125" (3.18mm) Contact Centers											
44	90.42	83.69	77.09	73.03	4.44	EDC346442-ND	3.22	28.60	228.80	884.00	346-044-520-202
56	109.47	102.74	96.14	92.08	4.44	EDC346562-ND	3.63	32.18	257.40	994.50	346-056-520-202
72	134.87	128.14	121.54	117.48	4.44	EDC346722-ND	4.34	38.50	308.00	1190.00	346-072-520-202
100	179.32	172.59	165.99	161.93	4.44	EDC346102-ND	6.17	54.73	437.80	1691.50	346-100-520-202
Solder Tail — Center Spacing (Single Row)											
.156" (3.96mm) Contact Centers											
10	62.64	54.76	47.50	43.79	5.41	EDC306102-ND	2.08	18.43	147.40	569.50	306-010-520-102
15	82.45	74.57	67.31	63.60	5.41	EDC306152-ND	2.76	24.48	195.80	756.50	306-015-520-102
18	94.34	86.46	79.20	75.49	5.41	EDC306182-ND	3.16	28.05	224.40	867.00	306-018-520-102
22	110.19	102.31	95.05	91.34	5.41	EDC306222-ND	3.69	32.73	261.80	1011.50	306-022-520-102
Solder Eyelets — .140" (3.56mm) Row-to-Row Spacing											
.156" (3.96mm) Contact Centers											
12	46.79	38.91	31.65	27.94	7.16	EDC305120-ND	1.67	14.85	118.80	459.00	305-012-500-202
20	62.64	54.76	47.50	43.79	7.16	EDC305200-ND	2.14	18.98	151.80	586.50	305-020-500-202
24	70.56	62.69	55.42	51.71	7.16	EDC305240-ND	2.45	21.73	173.80	671.50	305-024-500-202
30	82.45	74.57	67.31	63.60	7.16	EDC305300-ND	2.76	24.48	195.80	756.50	305-030-500-202
36	94.34	86.46	79.20	75.49	7.16	EDC305360-ND	3.16	28.05	224.40	867.00	305-036-500-202
44	110.19	102.31	95.05	91.34	7.16	EDC305440-ND	4.00	35.48	283.80	1096.50	305-044-500-202
Solder Eyelets — .200" (5.08mm) Row-to-Row Spacing											
.156" (3.96mm) Contact Centers											
12	46.79	38.91	31.65	27.94	7.16	EDC307120-ND	1.80	15.95	127.60	493.00	307-012-500-202
20	62.64	54.76	47.50	43.79	7.16	EDC307200-ND	2.36	20.90	167.20	646.00	307-020-500-202
24	70.56	62.69	55.42	51.71	7.16	EDC307240-ND	2.45	21.73	173.80	671.50	307-024-500-202
30	82.45	74.57	67.31	63.60	7.16	EDC307300-ND	2.64	23.38	187.00	722.50	307-030-500-202
36	94.34	86.46	79.20	75.49	7.16	EDC307360-ND	3.07	27.23	217.80	841.50	307-036-500-202
44	110.19	102.31	95.05	91.34	7.16	EDC307440-ND	3.63	32.18	257.40	994.50	307-044-500-202
Solder Eyelets — Center Spacing (Single Row)											
.156" (3.96mm) Contact Centers											
10	62.64	54.76	47.50	43.79	7.16	EDC306100-ND	2.08	18.43	147.40	569.50	306-010-500-102
15	82.45	74.57	67.31	63.60	7.16	EDC306150-ND	2.76	24.48	195.80	756.50	306-015-500-102
18	94.34	86.46	79.20	75.49	7.16	EDC306180-ND	3.16	28.05	224.40	867.00	306-018-500-102
22	110.19	102.31	95.05	91.34	7.16	EDC306220-ND	3.69	32.73	261.80	1011.50	306-022-500-102

Contacts	Contact Spacing (mm)	Dim. (mm) C ±.38	D ±.15	Bus Style	Digi-Key Part No.	Pricing 1	10	100	500	EDAC Part No.
Industry Standard Bus Systems										
60	2.54	82.80	78.74	MULTIBUS 1	EDC345602-ND	4.19	37.13	297.00	1147.50	345-060-524-201
120	2.54	159.00	154.94	VERSABUS	EDC345202-ND	6.98	61.88	495.00	1912.50	345-120-520-201
56	3.18	96.14	92.08	STANDARD BUS	EDC346052-ND	4.09	36.30	290.40	1122.00	346-056-520-802
62	2.54	85.34	81.28	IBM PC-XT	EDC395062-ND	1.12	9.90	79.20	306.00	395-062-520-350
98	2.54	131.06	127.00	IMB PC-AT ISA	EDC395982-ND	1.40	12.38	99.00	382.50	395-098-520-350

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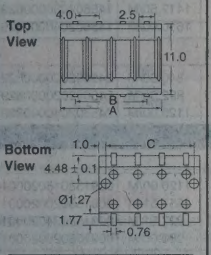
BOURNS 70AD Modular Contacts

The **Model 70AD Modular Contact** is a low profile modular design connector that makes a high integrity, yet quickly removable connection.

Applications: Rechargeable batteries and battery packs, battery chargers, cellular and portable phones, two-way radios, laptop computers, etc. **Materials and Finishes: Insulator:** Glass reinforced thermoplastic; UL 94V-0 rated, black **Contact:** Copper alloy **Finish Underplating:** Nickel **Finish Contact Area:** 30µ in. Au over Ni (male), Precious metal (female) **Finish Termination:** Tin alloy (meets MIL-STD202, method 208) **Electrical Operating Characteristics: Current Rating:** DC 3A/contact **Voltage Rating:** DC 30V (male) **Contact Resistance:** 25mΩ max **Dielectric Voltage:** AC 500V **Insulating Resistance:** 400MΩ min. (male), 500MΩ min. (female) **Operating Temperature:** -55°C ~ 125°C **Mechanical Characteristics: Normal Force:** 100 grams min. (male) **Durability:** 5,000 cycles

Female Modular Contact



No. of Contacts	Dim. (mm) A	B	C
2	9.0	4.0	7.0
3	13.0	8.0	11.0
4	17.0	12.0	15.0
5	21.0	16.0	19.0
6	25.0	20.0	23.0

Fig. 1 - Female Surface Mount

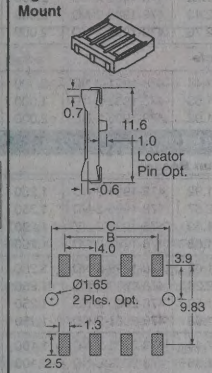
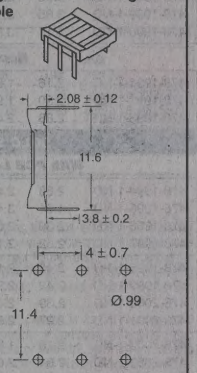
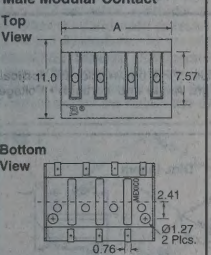


Fig. 2 - Female Through Hole



Male Modular Contact



No. of Contacts	Dim. (mm) A	B
2	7.7	5.11
3	11.7	9.11
4	15.7	13.11
5	19.7	17.11
6	23.7	21.11

Fig. 3 - Male Surface Mount

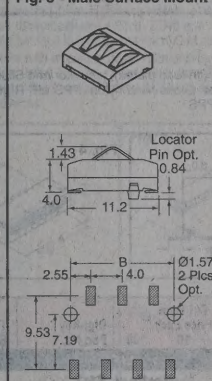


Fig. 4 - Male Through Hole

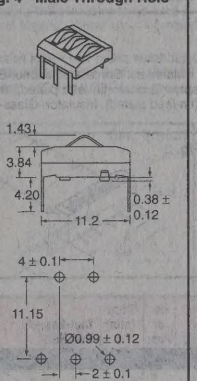


Fig.	No. of Pos.	Digi-Key Part No.	1	10	50	100	Bourns Part No.
		Female SMT					
1	2	70ADJ-2-F-ND	1.23	.98	.76	.72	70ADJ-2-FL0
	3	70ADJ-3-F-ND	1.45	1.16	.90	.85	70ADJ-3-FL0
	4	70ADJ-4-F-ND	1.83	1.46	1.13	1.06	70ADJ-4-FL0
	5	70ADJ-5-F-ND	2.18	1.74	1.34	1.27	70ADJ-5-FL0
	6	70ADJ-6-F-ND	2.55	2.04	1.57	1.48	70ADJ-6-FL0
		Female SMT with Locator Pin					
1	2	70ADJ-2-F1-ND	1.23	.98	.76	.72	70ADJ-2-FL1
	3	70ADJ-3-F1-ND	1.45	1.16	.90	.85	70ADJ-3-FL1
	4	70ADJ-4-F1-ND	1.83	1.46	1.13	1.06	70ADJ-4-FL1
	5	70ADJ-5-F1-ND	2.18	1.74	1.34	1.27	70ADJ-5-FL1
	6	70ADJ-6-F1-ND	2.55	2.04	1.57	1.48	70ADJ-6-FL1
		Female Through-Hole					
2	2	70ADH-2-F-ND	1.23	.98	.76	.72	70ADH-2-FL0
	3	70ADH-3-F-ND	1.45	1.16	.90	.85	70ADH-3-FL0
	4	70ADH-4-F-ND	1.83	1.46	1.13	1.06	70ADH-4-FL0
	5	70ADH-5-F-ND	2.18	1.74	1.34	1.27	70ADH-5-FL0
	6	70ADH-6-F-ND	2.55	2.04	1.57	1.48	70ADH-6-FL0
		Male SMT					
3	2	70ADJ-2-M-ND	1.30	1.04	.80	.76	70ADJ-2-ML0
	3	70ADJ-3-M-ND	1.63	1.30	1.00	.95	70ADJ-3-ML0
	4	70ADJ-4-M-ND	2.03	1.62	1.25	1.18	70ADJ-4-ML0
	5	70ADJ-5-M-ND	2.45	1.96	1.51	1.43	70ADJ-5-ML0
	6	70ADJ-6-M-ND	2.85	2.28	1.76	1.66	70ADJ-6-ML0
		Male SMT with Locator Pin					
3	2	70ADJ-2-M1-ND	1.30	1.04	.80	.76	70ADJ-2-ML1
	3	70ADJ-3-M1-ND	1.63	1.30	1.00	.95	70ADJ-3-ML1
	4	70ADJ-4-M1-ND	2.03	1.62	1.25	1.18	70ADJ-4-ML1
	5	70ADJ-5-M1-ND	2.45	1.96	1.51	1.43	70ADJ-5-ML1
	6	70ADJ-6-M1-ND	2.85	2.28	1.76	1.66	70ADJ-6-ML1
		Male Through-Hole					
4	2	70ADH-2-M-ND	1.30	1.04	.80	.76	70ADH-2-ML0
	3	70ADH-3-M-ND	1.63	1.30	1.00	.95	70ADH-3-ML0
	4	70ADH-4-M-ND	2.03	1.62	1.25	1.18	70ADH-4-ML0
	5	70ADH-5-M-ND	2.45	1.96	1.51	1.43	70ADH-5-ML0
	6	70ADH-6-M-ND	2.85	2.28	1.76	1.66	70ADH-6-ML0

AVX Connectors

DIN

Approvals: Din 41612/Din-EN60603-2, IEC603-2, MIL-C-55302, BS 9000, BT, NFC 93.420, PTT, UTE C 93.420, UL File #E189169, CSA File #LR 108833

Fig. 1

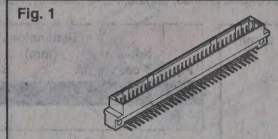


Fig. 2

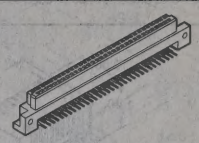


Fig. 3

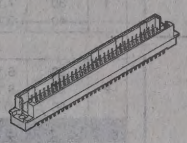


Fig. 4

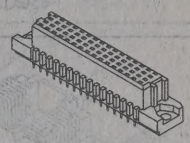


Fig.	No. of Rows	No. of Pins	Style	Digi-Key Part No.	1	25	50	100	AVX Part No.
			Plug						
1	2	32	1/2 B	478-1945-ND	3.58	3.33	2.69	2.24	108457032002025
	2	64	B	478-1946-ND	3.30	3.07	2.48	2.07	108457064002025
	3	96	C	478-1957-ND	3.75	3.49	2.82	2.35	108457096002025
	4	128	C Expanded	478-1947-ND	8.04	7.47	6.03	5.03	108457128002025
3	3	96	R	478-1950-ND	3.28	3.05	2.46	2.05	108477096001025
	3	96	R Press-Fit	478-1954-ND	3.86	3.59	2.90	2.42	108478096001025
	3	48	R High Temperature	478-1956-ND	4.48	4.16	3.36	2.80	108577096002025
	3	48	1/2 R	478-1948-ND	2.16	2.01	1.62	1.35	108477048001025
			Receptacle						
2	3	96	R	478-1949-ND	5.26	4.89	3.95	3.29	208477096002025
	4	128	R Expanded	478-1951-ND	14.90	13.84	11.18	9.31	208477128002025
	3	96	R High Temperature	478-1955-ND	6.75	6.27	5.07	4.22	208577096002025
4	3	48	1/2 C Press-Fit	478-1952-ND	4.65	4.32	3.49	2.91	208458048001025
	4	128	C Expanded Press-Fit	478-1953-ND	11.20	10.40	8.40	7.00	208458128001025

2mm Hard Metric

Specifications: • Current Rating: 1.0A/contact/70°C • Voltage Rating: 250V Max. • Dielectric Withstanding Voltage: 750VAC rms/minute • Insulation Resistance: 10^4MΩ min. • Contact Resistance: 20mΩ Max. • Operating Temperature: -55°C ~ 125°C
Materials: • Contact and Ground Return Shields: Phosphor Bronze • Insulator and Shroud: PBT 30% Glass filled, UL 94V-0 rated • Code Key: Glass filled polyester, UL 94V-0 rated
Approvals: • IEC 61076-4-101,GR-1217-CORE, ISO9001 and PICMG

Fig. 1

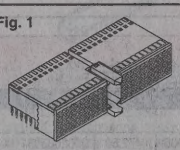


Fig. 2

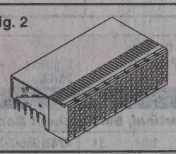


Fig. 3

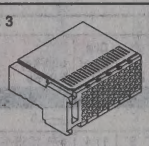


Fig. 4

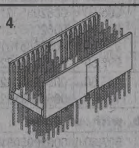


Fig. 5

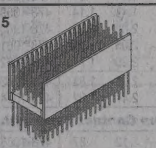


Fig. 6

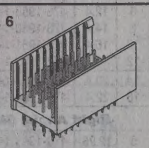


Fig.	No. of Pos.	Description	Digi-Key Part No.	1	25	100	AVX Part No.
		Right Angle Female					
1	110	Type A without Top Shield or Pegs	478-2848-ND ***NEW!***	4.40	3.99	2.83	277200110000002
	110	Type A with Top Shield, without Pegs	478-2849-ND ***NEW!***	5.96	5.40	3.83	277200110002002
2	110	Type B 22 without Upper Shield	478-1933-5-ND†	4.45	4.04	2.86	277200110200002
	110	Type B 22 with Upper Shield	478-1934-ND	5.83	5.28	3.74	277200110202002
	95	Type B 19 with Upper Shield	478-2850-ND ***NEW!***	5.22	4.73	3.35	277200095302002
3	55	Type C with Upper Shield, without Peg	478-2851-ND ***NEW!***	3.34	3.03	2.15	277200055402002
		Vertical Male					
4	154	Style A Hot Swap	478-1929-5-ND†	10.10	9.15	6.48	177200154006002
	154	Style A	478-1930-5-ND†	7.45	6.75	4.78	177200154000002
	100	Style A Computer Telephony	478-1931-5-ND†	7.45	6.75	4.78	177200100008002
5	154	Style B	478-1935-5-ND†	6.23	5.64	4.00	177200154200002
	154	Style B P2/P5 CompactPCI®	478-1936-5-ND†	10.79	9.77	6.92	177200154202005
6	77	Style C	478-1937-5-ND†	4.00	3.63	2.57	177200077400002

† Tube pricing

Coding Keys

Type	Color	Code No.	Voltage	Digi-Key Part No.	1	25	100	AVX Part No.
Plug	Yellow	3456	3.3V C-PCI	478-1941-ND	.64	.58	.41	818071000101003
	Blue	1567	5.0V C-PCI	478-1942-ND	.64	.58	.41	818071000102006
Receptacle	Yellow	1278	3.3V C-PCI	478-1943-ND	.77	.70	.50	828071000101003
	Blue	2348	5.0V C-PCI	478-1944-ND	.77	.70	.50	828071000102006

(Continued)

Fine Pitch SMT Board to Board

1.5mm Features: • 0.4mm fine pitch and low profile • Design provides for an audible click • Prevents solder wicking • Compatible with high temperature, lead free, soldering processes **Specifications:** • Mated Height: 1.5mm • Pitch: 0.4mm • Current: 0.4A Max. • Voltage: 50V Max. **Application:** • 1.5mm series is ideal for high density packaging applications such as PCs, PDAs, DVD, cell phones and digital cameras. **SOLO STACKER™ Features:** • One piece connector used to connect two PCBs with mobile phones, pagers, PDAs, security, hand held scanners, etc. in a cost-effective manner • Can allow a spacing tolerance of up to ±0.30mm

Fig. 1 — Dim. in mm

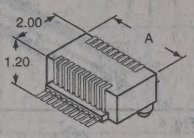


Fig. 2

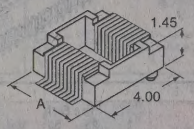


Fig. 3

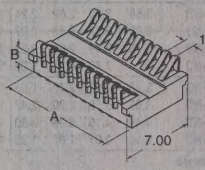


Fig.	No. of Pos.	Dimensions (mm) A	B	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Size	Pricing	AVX Part No.
1.5mm											
Plug											
1	20	5.1	—	478-1988-1-ND	2.88	2.47	1.92	478-1988-2-ND	2,000	1120.00/M	145602020000829
	30	7.1	—	478-1989-1-ND	3.65	3.12	2.43	478-1989-2-ND	2,000	1417.50/M	145602030000829
	40	9.1	—	478-1990-1-ND	4.14	3.55	2.76	478-1990-2-ND	2,000	1610.00/M	145602040000829
Receptacle											
2	20	6.1	—	478-1991-1-ND	2.16	1.85	1.44	478-1991-2-ND	2,000	840.00/M	245602020000829
	30	8.1	—	478-1992-1-ND	2.30	1.97	1.53	478-1992-2-ND	2,000	892.50/M	245602030000829
	40	10.1	—	478-1993-1-ND	2.88	2.47	1.92	478-1993-2-ND	2,000	1120.00/M	245602040000829
SOLO STACKER™											
With PCB Location Bosses											
3	16	9.0	1.9 ~ 2.1	478-1994-1-ND	2.88	2.47	1.92	478-1994-2-ND	1,250	1120.00/M	009158016020001
	20	11.0	1.9 ~ 2.1	478-1995-1-ND	4.01	3.43	2.67	478-1995-2-ND	1,250	1557.51/M	009158020020001
	24	13.0	1.9 ~ 2.1	478-1996-1-ND	2.39	2.05	1.59	478-1996-2-ND	1,250	927.51/M	009158024020001
	28	15.0	1.9 ~ 2.1	478-1997-1-ND	2.52	2.16	1.68	478-1997-2-ND	1,250	980.00/M	009158028020001
	16	9.0	2.1 ~ 2.7	478-1998-1-ND	2.48	2.12	1.65	478-1998-2-ND	1,250	962.51/M	009158016025001
	20	11.0	2.1 ~ 2.7	478-1999-1-ND	3.42	2.93	2.28	478-1999-2-ND	1,250	1330.00/M	009158020025001
	24	13.0	2.1 ~ 2.7	478-2000-1-ND	2.39	2.05	1.59	478-2000-2-ND	1,250	927.51/M	009158024025001
	28	15.0	2.1 ~ 2.7	478-2001-1-ND	2.97	2.55	1.98	478-2001-2-ND	1,250	1155.00/M	009158028025001
	16	9.0	2.8 ~ 3.3	478-2002-1-ND	2.16	1.85	1.44	478-2002-2-ND	1,100	840.00/M	009158016030001
	20	11.0	2.8 ~ 3.3	478-2003-1-ND	2.34	2.01	1.56	478-2003-2-ND	1,100	910.00/M	009158020030001
	24	13.0	2.8 ~ 3.3	478-2004-1-ND	2.48	2.12	1.65	478-2004-2-ND	1,100	962.50/M	009158024030001
	28	15.0	2.8 ~ 3.3	478-2005-1-ND	2.61	2.24	1.74	478-2005-2-ND	1,100	1015.00/M	009158028030001

1.00mm Pitch

Features: ZIF Right Angle: • Voltage: 50V • Current Rating: 1.0A Max. • Operating Temperature: -20°C ~ 85°C • Materials: Contact: Phosphor Bronze (tin-lead plated), Insulator and Slider: PPS, brown color **ZIF Vertical:** • Voltage: 50V • Current Rating: 1.0A Max. • Operating Temperature: -30°C ~ 85°C • Materials: Contact: Phosphor Bronze (tin-lead plated), Insulator: Glass-filled nylon, PPS **LIF Right Angle and Vertical:** • Voltage: 50V • Current Rating: 0.5A Max. • Operating Temperature: -20°C ~ 70°C • Materials: Contact: Phosphor Bronze (tin-lead plated), Insulator: Glass-filled PPS

Fig. 1

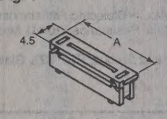


Fig. 2

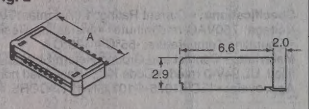


Fig. 3

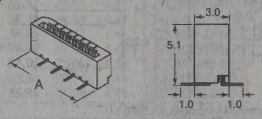


Fig. 4 — Dim. in mm

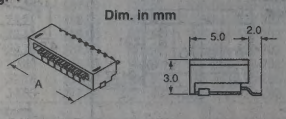


Fig.	No. of Pos.	Dim. (mm) A	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Size	Pricing	AVX Part No.
ZIF										
Vertical, SMT without Boss										
1	5	11.4	478-1958-1-ND	1.22	1.04	.81	478-1958-2-ND	1,000	472.50	006208505110000
	6	12.4	478-1959-1-ND	1.71	1.47	1.14	478-1959-2-ND	1,000	665.00	006208506110000
	8	14.4	478-1960-1-ND	2.43	2.08	1.62	478-1960-2-ND	1,000	945.00	006208508110000
	10	16.4	478-1961-1-ND	2.39	2.05	1.59	478-1961-2-ND	1,000	927.50	006208510110000
	12	18.4	478-1962-1-ND	2.57	2.20	1.71	478-1962-2-ND	1,000	997.50	006208512210000
	14	20.4	478-1963-1-ND	2.75	2.35	1.83	478-1963-2-ND	1,000	1067.50	006208514210000
	16	22.4	478-1964-1-ND	2.88	2.47	1.92	478-1964-2-ND	1,000	1120.00	006208516210000
Right Angle, SMT, Bottom Contact Type with Solder Tab, without Boss										
2	5	12.25	478-1965-1-ND	1.31	1.12	.87	478-1965-2-ND	1,000	507.50	006200505130000
	6	13.25	478-1966-1-ND	1.76	1.51	1.17	478-1966-2-ND	1,000	682.50	006200506130000
	8	15.25	478-1967-1-ND	1.80	1.54	1.20	478-1967-2-ND	1,000	700.00	006200508130000
	10	17.25	478-1968-1-ND	1.89	1.62	1.26	478-1968-2-ND	1,000	735.00	006200510130000
	12	19.25	478-1969-1-ND	1.62	1.39	1.08	478-1969-2-ND	1,000	630.00	006200512230000
	14	21.25	478-1970-1-ND	2.12	1.81	1.41	478-1970-2-ND	1,000	822.50	006200514230000
	16	23.25	478-1971-1-ND	2.03	1.74	1.35	478-1971-2-ND	1,000	787.50	006200516230000

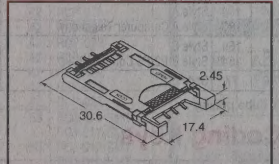
Fig.	No. of Pos.	Dim. (mm) A	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Size	Pricing	AVX Part No.
LIF										
Vertical, SMT										
3	3	6.0	478-1980-1-ND	.90	.77	.60	478-1980-2-ND	900	315.00	046232103015800
	4	7.0	478-1981-1-ND	.95	.81	.63	478-1981-2-ND	900	330.75	046232104015800
	6	9.0	478-1982-1-ND	.99	.85	.66	478-1982-2-ND	900	346.50	046232106015800
	8	11.0	478-1983-1-ND	1.08	.93	.72	478-1983-2-ND	900	378.00	046232108015800
	10	13.0	478-1984-1-ND	1.13	.97	.75	478-1984-2-ND	900	393.75	046232110015800
	12	15.0	478-1985-1-ND	1.22	1.04	.81	478-1985-2-ND	900	425.25	046232112015800
	14	17.0	478-1986-1-ND	1.31	1.12	.87	478-1986-2-ND	900	456.75	046232114015800
	16	19.0	478-1987-1-ND	1.35	1.16	.90	478-1987-2-ND	900	472.50	046232116015800
Right Angle, SMT, Top Contact Type										
4	3	6.6	478-1972-1-ND	1.04	.89	.69	478-1972-2-ND	1,000	402.50	046232103103800
	4	7.6	478-1973-1-ND	1.08	.93	.72	478-1973-2-ND	1,000	420.00	046232104103800
	6	9.6	478-1974-1-ND	1.22	1.04	.81	478-1974-2-ND	1,000	472.50	046232106103800
	8	11.6	478-1975-1-ND	1.26	1.08	.84	478-1975-2-ND	1,000	490.00	046232108103800
	10	13.6	478-1976-1-ND	1.35	1.16	.90	478-1976-2-ND	1,000	525.00	046232110103800
	12	15.6	478-1977-1-ND	1.44	1.24	.96	478-1977-2-ND	1,000	560.00	046232112103800
	14	17.6	478-1978-1-ND	1.49	1.28	.99	478-1978-2-ND	1,000	577.50	046232114103800
	16	19.6	478-1979-1-ND	1.58	1.35	1.05	478-1979-2-ND	1,000	612.50	046232116103800

HRS HIROSE ELECTRIC CO.,LTD. — SIM Card Sockets — ID1A Series

Features: Suited for Plug-in SIM Cards of the GSM Standard (11.11). SIM card Subscriber Identity Modules are used for subscriber identification with portable telephone terminals having (or using) GSM standard (11.11) plug-in SIM cards. These sockets are miniature and thin with a height of 2.45mm, length of 30.6mm, and width of 17.4mm.

Applications: Portable terminals and equipment that uses GSM Standard (11.11) plug-in SIM cards.

Ratings: Current: 1A Temp. Range: -30°C ~ 80°C. Volt: 100V AC



Digi-Key Part No.	Bulk Price Each 1	25	100	Hirose Part No.	Digi-Key Part No.	T & R Pricing 500	Hirose Part No.
H1016-ND	3.64	2.80	2.24	ID1A-6S-2.54SF	H1016TR-ND	702.00	ID1A-6S-2.54SF(21)

SmartMedia Connectors — MCR 102 Series

Features:

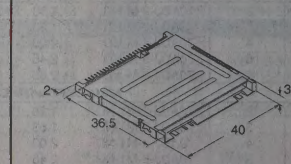
The MCR102 Series of miniature, thin connectors conforms to the SSFDC Forum of "SmartMedia" miniature storage media.

Applications:

Digital cameras, PDA, voice recorders, and other equipment that uses SmartMedia.

Ratings:

Current: 0.5A Temp. Range: -20°C ~ 60°C
Voltage: 125V AC



No. of Pos.	Description	Digi-Key Part No.	Price Each 1	25	100	Hirose Part No.
22	Smart Card 5V	H2340-ND	5.34	4.27	3.30	MCR102A-22RH-1.27SF

More Product Available Online: www.digikey.com
Toll-Free: 1-800-344-4539 • Phone: 218-681-6674 • Fax: 218-681-3380

AVX Memory Cards

PCMCIA PC

Features: • Single stacked header in SMT or Through Hole **Specifications:** • Number of Contacts: 68 • Pitch: 1.27mm (0.05) • Current Rating: 0.5A Max. • Voltage Rating: 5V Max. • Mating Cycles: 10,000

Fig. 1

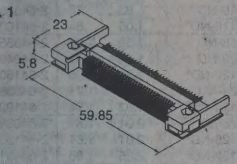


Fig. 2 Dim. in mm

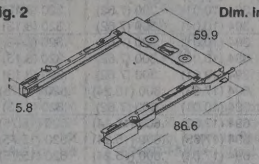


Fig.	Type	Keying	Button Side	Digi-Key Part No.	Price Each 1	25	100	AVX Part No.
1	II	Normal	Left	478-2006-ND	14.41	11.19	8.95	315025068305871
	II	Reverse	Left	478-2008-ND	14.41	11.19	8.95	315025068355871
2	II	Normal	Right	478-2007-ND	6.41	4.98	3.98	305025000322000
	II	Reverse	Left	478-2009-ND	5.90	4.59	3.67	305025000321000

Secure Digital

5638 SERIES: Features: • SD (Secure Digital) Memory Card technology is emerging as the next industry standard for removable flash memory and input/output devices • Low profile • Normal and reverse keying • Card detection feature • Accepts both SD and Multimedia Cards • Mating cycles: 10,000 **Specifications:** • Current Rating: 0.5A • Voltage Rating: 5V • Insulation Resistance: 1000MΩ min. • Contact Resistance: 40mΩ Max. • DW Voltage: AC 500V • Operating Temperature: -25°C ~ 90°C **Applications:** • MP3 Players, PDAs, Cellular Phones, Digital Cameras, Digital Camcorder, etc.

5738 SERIES: Features: • Based on standard defined by I/O working of the SD Assoc., which is an SD memory card endorsement group • Low profile • Introduction of spring eject type for easy operation • Equipped with supporting metal fittings for firm mounting and enough strength as I/O by devising the insulator and the shell structure and enlarging fix metal fitting **Specifications:** • Pitch: 2.50mm • Contact Finish: Gold • Contact Finish Thickness: .50µm • Current: .50A • Voltage: 5.0V • Withstanding Voltage: 500Vrms • Flammability Rating: UL94V-0

9162 SERIES: Features: • Standard SIM (Subscriber Identity Module) connector is specifically designed for hand held devices • Stand-off designs allow other components to be mounted underneath the connector offering greater effective use of PCB real estate • Insulator is molded from high temperature plastic enabling the connector to be used in convection or infrared solder processes **Specifications:** • Pitch: 2.540 mm • Contact Material: copper alloy • Contact Finish: gold **Applications:** • For use with both full ISO cards and micro SIM cards

5036 SERIES: Features: • SIM connector with mounting boss • Optional card retention lock • Low profile metal body • Integral SMT strain relief tabs • Card detect switch • Push/Push card ejector **Specifications:** • Contact Material: Phosphor Bronze • Contact Finish: Gold • Flammability Rating: UL94V-0 **Applications:** • GSM or WCDMA cell phones, Navigation systems and Portable data devices

Fig. 1

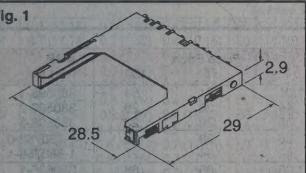


Fig. 2 Dim. in mm

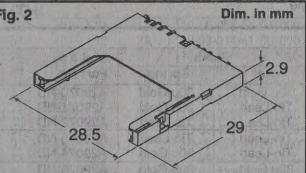


Fig. 3

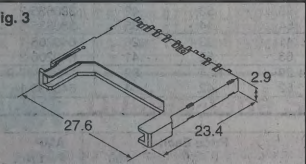


Fig. 4

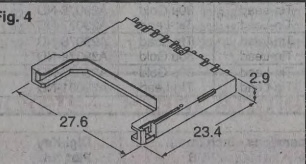


Fig. 5

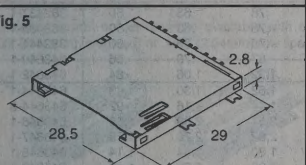


Fig. 6

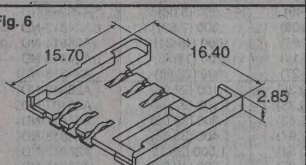


Fig. 7

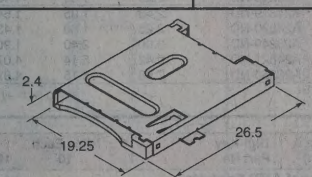


Fig.	Keying	PCB Mounting	Ejector Style	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Tape and Reel* Size	Pricing	AVX Part No.
1	Normal	Top	Push/Push	478-2016-1-ND	3.74	2.91	2.33	250	467.63	145638009511862
2	Reverse	Bottom	Push/Push	478-2017-1-ND	5.54	4.30	3.44	250	692.38	145638109511862
3	Normal	Top	Without	478-2018-1-ND	2.67	2.07	1.66	350	466.90	145638009211862
4	Reverse	Bottom	Without	478-2019-1-ND	2.67	2.07	1.66	350	466.90	145638109211862
5	Conn. Memory Card Normal I/O			478-2020-1-ND	3.77	2.93	2.34	250	471.25	145738009783862
6	Conn. SIM Card Slide-in SMD			478-2021-1-ND	1.16	.90	.72	1,100	580.00/M	009162006200175
7	Conn. SIM Card 13.52mm w/Boss			478-2022-1-ND	5.34	4.14	3.32	500	1334.00	045036006100862

*For Tape and Reel Part No., change -1 to -2.

Compact Flash

Features: • Memory card connectors that support Compact Flash • Used for small portable devices **Specifications:** • Number of Contacts: 50 • Pitch: 1.27mm (0.05) • Current Rating: 0.5A Max. • Voltage Rating: 5V Max. • Mating Cycles: 10,000 **Applications:** • Digital cameras, Notebook PC, PDA, etc.

Fig. 1

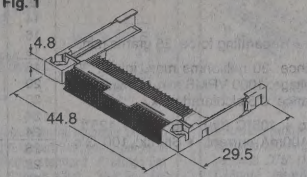


Fig. 2 Dim. in mm

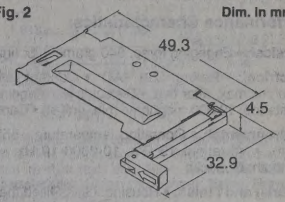


Fig. 3

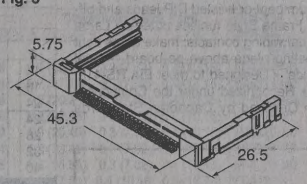


Fig. 4

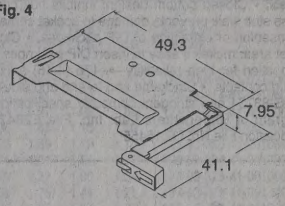


Fig.	Type	Keying	Ejector Style	Button Side	Digi-Key Part No.	Price Each 1	25	100	AVX Part No.
1	I	Normal	Straight	Left	478-2010-ND	4.15	3.22	2.58	315610050500871
	I	Normal	Straight	Right	478-2012-ND	3.77	2.93	2.34	315610050210871
2	I	Normal	Foldable	Left	478-2013-ND	2.81	2.19	1.75	305610000005000
	I	Normal	Foldable	Right	478-2011-ND	3.54	2.75	2.20	305610000006000
3	II	Normal	Straight	Left	478-2014-ND	4.15	3.22	2.58	315620050116871
4	II	Normal	Foldable	Right	478-2015-ND	2.78	2.16	1.73	305620000006000

HRS HIROSE ELECTRIC CO.,LTD.

PCMCIA IC Memory Card Connectors

Fig. 1: IC1 Series

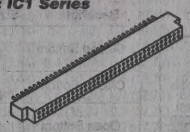


Fig. 1A

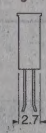


Fig. 1B

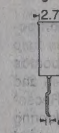


Fig. 1C

Fig. 1D

Fig. 1E

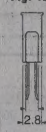


Fig. 1F

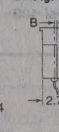


Fig. 1G

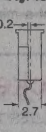
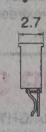


Fig. 1H



The IC1 Series connectors comply with Ver. 3 and Ver. 4.2, JEIDA and PCMCIA 2.0 Standards. **Features:** • Provided with complete features of the JEIDA and PCMCIA Standards, such as polarizing method and sequence construction for circuit protection • Surface mount socket connectors (card side) • Off-center socket connectors are also available that allow high packaging profile • All the pin connectors described are compatible with cards of type I and II • Surface mount header connectors are available

Fig. 2: IC7 Series

The IC7 Series of miniature, lightweight 68-pin connectors complies with JEIDA Ver. 4.2 and is suitable for use with PCMCIA Type III cards. **Features:** • Smaller and thinner than our previous product • Forty-seven percent lighter than our previous product • Equipped with an eject button for smooth removal of cards • Two types of eject button, either left or right • There is also a reverse type for mounting on the back surface of the board • Equipped with a frame ground terminal • Types available for DIP and SMT board mounting methods • The SMT type can be mounted on both sides of the board and can also be used as a 2-slot connector

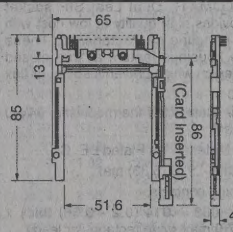


Fig.	No. of Pins	Type	Description	Digi-Key Part No.	Pricing 1	10	Hirose Part No.
			Socket Connector Memory Card				
1A	68	I, II	2.7mm Dual	HR831-ND	5.42	44.88	IC1F-68RD-1.27SH
1B	68	I, II	Single Side, A = .3mm	HR828-ND	7.51	63.58	IC1F-68RD-1.27SF
1B	68	I, II	Single Side, A = .854mm	HR829-ND	8.58	71.04	IC1F-68RD-1.27SFA
1C	68	I, II	Off-Center	HR830-ND	5.57	46.08	IC1H-68RD-1.27SH
1D	68	I, II	2.8mm Dual	HR832-ND	7.51	62.16	IC1BB-68RD-1.27SH
1E	68	I, II	2.8mm Dual	HR833-ND	9.22	76.32	IC1BA-68RD-1.27SH
1H	68	I, II	2.7mm Dual	HR630-ND	4.50	37.20	IC1HA-68RD-1.27SH
1F	68	I, II	2.7mm Dual, B = .3mm	HR631-ND	4.35	36.00	IC1K-68RD-1.27SF
1F	68	I, II	2.7mm Dual, B = .9mm	HR632-ND	4.35	36.00	IC1K-68RD-1.27SFA
1G	68	I, II	2.7mm Dual	HR633-ND	4.35	36.00	IC1K-68RD-1.27SFB
			Memory Card Connector				
2	68	I, II, III	Light Weight, Right Eject	HR816-ND	6.89	58.30	IC7-68PD-1.27DS-EJR
	68	I, II, III	Light Weight, Left Eject	HR817-ND	8.66	73.26	IC7-68PD-1.27DS-EJL
	68	I, II, III	Light Weight, Rev Right Eject	HR818-ND	6.97	58.96	IC7-68PDR-1.27DS-EJR
	68	I, II, III	Light Weight, Rev Left Eject	HR819-ND	8.66	73.26	IC7-68PDR-1.27DS-EJL

tyco Electronics AMP

I.C. Sockets

A

Performance Characteristics:

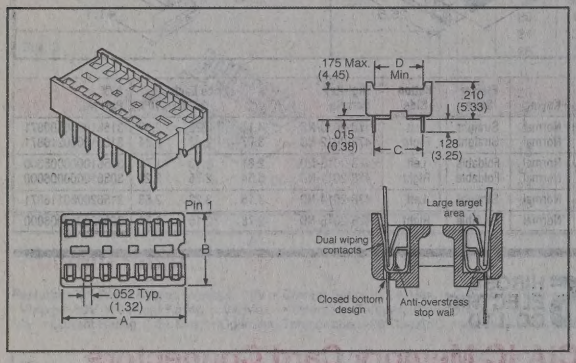
Physical: • Engaging force: 340 grams max.(initial) • Separating force: 25 grams min.

Electrical: • Rating: 250 VAC • Contact resistance: 20 milliohms max. initial, 30 milliohms max. after test • Dielectric withstanding voltage: 1000 VRMS min. • Insulation resistance: 10,000 megohms min. (initial) • Capacitance: 0.5 picofarad max.

Environmental: • Operating temperature: -55°C to + 105°C (tin), -55°C to + 125°C (gold) • Vibration: 15 G's, 10-2000-10 Hz with 100mA current • Shock: 100 G's sawtooth; 6 shocks

Material and Finish: • Housing: Glass-filled thermoplastic, 94V-0 rated (black)

Notes: • Closed bottom design: inhibits flux contamination and solder wicking • Over-stress stop wall: prevents damage to socket contact from bent or twisted DIP leads and off-set insertion or extraction of DIP packages • Closed Frame Style (unless noted) • Large target area: makes it easy to insert DIP packages • Dual wiping contacts: make a gas-tight connection for high reliability • .175 (4.45) max. seating plane above pc board • Dual wiping contacts • Stackable end-to-end and side-to-side • Designed to meet EIA RS-415, MIL-S-83734 and stringent computer specifications. • Recognized under the Component Program of Underwriters Lab. Inc. File E28476 • Certified by Canadian Standards Association File No. LR 16455

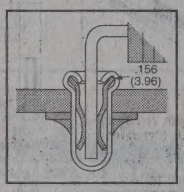


No. of Pins	Dimensions – In. (mm) A	B	C	D	Digi-Key Part No.	Price Each 1	10	AMP Part No.
Dual Leaf Dip Sockets								
Phosphor Bronze with 15µ Gold Plating								
6	.295 (7.49)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A9406-ND	.57	.46	2-641296-4
8	.395 (10.03)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A9408-ND	.57	.46	2-640463-4
14	.695 (17.65)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A9414-ND	1.05	.84	2-640357-4
16	.795 (20.19)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A9416-ND	.93	.75	2-640358-4
16	.795 (20.19)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A94116-ND*	1.05	.84	2-641600-4
18	.895 (22.73)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A9418-ND	1.50	1.20	2-640359-4
20	.995 (25.27)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A9420-ND	1.38	1.11	2-640464-4
20	.995 (25.27)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A94120-ND*	1.32	1.06	2-641602-4
24	1.195 (30.35)	.694 (17.63)	.600 (15.24)	.620 (15.75)	A9424-ND	2.13	1.71	2-640361-4
24	1.195 (30.35)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A94124-ND*	1.92	1.54	2-641932-4
28	1.395 (35.43)	.694 (17.63)	.600 (15.24)	.620 (15.75)	A9428-ND	2.01	1.61	2-640362-4
28	1.395 (35.43)	.694 (17.63)	.600 (15.24)	.620 (15.75)	A94128-ND*	2.01	1.61	2-641605-4
32	1.595 (40.51)	.694 (17.63)	.600 (15.24)	.620 (15.75)	A94132-ND*	2.25	1.80	2-644018-4
40	1.995 (50.67)	.694 (17.63)	.600 (15.24)	.620 (15.75)	A9440-ND	1.95	1.56	2-640379-4
40	1.995 (50.67)	.694 (17.63)	.600 (15.24)	.620 (15.75)	A94140-ND*	1.95	1.56	2-641606-4
Beryllium Copper with 30µ Gold Plating								
6	.295 (7.49)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A24793-ND	.51	.41	2-641296-2
8	.395 (10.03)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A24794-ND	.36	.29	2-640463-2
14	.695 (17.65)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A24795-ND*	1.05	.84	2-641599-2
16	.795 (20.19)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A24796-ND*	1.11	.89	2-641600-2
24	1.195 (30.35)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A24797-ND*	2.01	1.61	2-641932-2
24	1.195 (30.35)	.694 (17.63)	.600 (15.24)	.620 (15.75)	A24798-ND*	2.55	2.04	2-641604-2
28	1.395 (35.43)	.694 (17.63)	.600 (15.24)	.620 (15.75)	A24799-ND*	2.61	2.09	2-641605-2
32	1.595 (40.51)	.694 (17.63)	.600 (15.24)	.620 (15.75)	A24800-ND*	2.94	2.36	2-644018-2
40	1.995 (50.67)	.694 (17.63)	.600 (15.24)	.620 (15.75)	A24801-ND*	2.61	2.09	2-641606-2
Sockets with Retention Solder Tails								
Phosphor Bronze with 15µ Gold Plating								
8	.395 (10.03)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A24802-ND	.51	.41	2-641260-4
28	1.395 (35.43)	.694 (17.63)	.600 (15.24)	.620 (15.75)	A24803-ND*	2.01	1.61	2-641615-4
Phosphor Bronze with Tinned Plating								
28	1.395 (35.43)	.694 (17.63)	.600 (15.24)	.620 (15.75)	A24804-ND*	.66	.53	2-641615-3
Beryllium Copper with 30µ Gold Plating								
28	1.395 (35.43)	.694 (17.63)	.600 (15.24)	.620 (15.75)	A24805-ND*	2.61	2.09	2-641615-3
40	1.995 (50.67)	.694 (17.63)	.600 (15.24)	.620 (15.75)	A24806-ND*	2.61	2.09	2-641616-2
Beryllium Copper with Tinned Plating								
8	.395 (10.03)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A24807-ND	.27	.22	2-641260-1
14	.695 (17.65)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A24808-ND*	.51	.41	2-641609-1
16	.795 (20.19)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A24809-ND*	.57	.46	2-641610-1
20	.995 (25.27)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A24810-ND*	.57	.46	2-641612-1
24	1.195 (30.35)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A24811-ND*	.69	.56	2-641933-1
32	1.595 (40.51)	.694 (17.63)	.600 (15.24)	.620 (15.75)	A24812-ND*	1.11	.89	2-382189-1

* Open Frame Style.

Test Sockets

Reusable Receptacles for Component Testing: • Receptacles help prevent heat damage to pc boards and components during burn-in and bread-boarding evaluation • Receptacles eliminate need for soldering components directly to the board • Board components can be inserted and extracted at a minimum of 100 times.



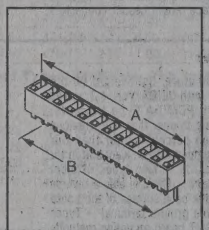
Description	Accepts Lead Size - Inch (mm)	Finish Cup	Spring	Digi-Key Part No.	Price Each 1	10	100	AMP Part No.
Closed Bottom	.018 - .040 (0.46 - 1.02)	30µ Gold	30µ Gold	A29070-ND	1.01	.81	.64	380598-1
		Tin-Lead	30µ Gold	A29071-ND	.44	.36	.28	380598-2
		Tin-Lead	Tin-Lead	A29072-ND	.36	.29	.23	380598-3
Closed Bottom	.036 - .051 (0.91 - 1.30)	Tin-Lead	Tin-Lead	A29073-ND	.36	.29	.23	1-380758-0
		Tin-Lead	30µ Gold	A29074-ND	.42	.34	.27	1-380758-1
Open Bottom	.018 - .040 (0.46 - 1.02)	30µ Gold	30µ Gold	A29075-ND	1.06	.85	.68	380635-1
		Tin-Lead	30µ Gold	A29076-ND	.65	.53	.42	380635-2
		Tin-Lead	Tin-Lead	A29077-ND	.54	.44	.35	380635-5
Open Bottom	.036 - .051 (0.91 - 1.30)	Tin-Lead	Tin-Lead	A29078-ND	.41	.33	.26	640206-1
		Tin-Lead	30µ Gold	A29079-ND	.65	.52	.41	640206-2
Stand-Off	.018 - .040 (0.46 - 1.02)	Tin-Lead	30µ Gold	A29080-ND	1.29	1.04	.82	1-380737-0
		Tin-Lead	Tin-Lead	A29081-ND	.52	.42	.34	640593-1

SIP Sockets

STRAIGHT SOLDER TAIL

The DIPLOMATE Dual Leaf SIP socket family provides high quality at low cost with superior handling characteristics. These stackable housings feature a "true closed bottom" design which prevents solder or flux wicking.

- Housing- Glass-filled thermoplastic, 94V-0 rated, black
- Contact Material: Tin Plated BE. CU.
- Low Profile - .210 (5.33) max.
- Dual wiping contacts
- Accepts .008 - .014 (0.2 - 0.36) thick x .030 (0.76) max. wide rectangular leads



No. of Positions	Dimensions - Inch (mm) A	B	Digi-Key Part No.	Price Each 1	10	100	AMP Part No.
3	.295 (7.49)	.200 (5.08)	A26245-ND	.78	.63	.50	382437-1
4	.395 (10.03)	.300 (7.62)	A24813-ND	.78	.63	.50	382438-1
7	.695 (17.65)	.600 (15.24)	A24814-ND	.78	.63	.50	382441-1
8	.795 (20.19)	.700 (17.78)	A24815-ND	.87	.70	.56	643640-1
10	.995 (25.27)	.900 (22.86)	A24816-ND	1.32	1.06	.84	643642-1
12	1.195 (30.35)	1.100 (27.94)	A26246-ND	1.62	1.30	1.03	643844-1
12	1.195 (30.35)	1.100 (27.94)	A29107-ND*	1.44	1.16	.92	643644-3
14	1.395 (35.43)	1.300 (33.02)	A24817-ND	2.61	2.09	1.66	643646-1
15	1.495 (37.97)	1.400 (35.56)	A24818-ND	2.82	2.26	1.79	643647-1
16	1.595 (40.51)	1.500 (38.1)	A26247-ND	1.80	1.44	1.14	643648-1
17	1.695 (43.05)	1.600 (40.64)	A26248-ND	2.25	1.80	1.43	643649-1
18	1.795 (45.59)	1.700 (43.18)	A24819-ND	2.43	1.95	1.54	643650-1
20	1.995 (50.57)	1.900 (48.26)	A24820-ND	2.25	1.80	1.43	643652-1
22	2.195 (55.75)	2.100 (53.34)	A26249-ND	3.00	2.40	1.90	643654-1
25	2.495 (63.37)	2.400 (60.96)	A24821-ND	6.42	5.14	4.07	643657-1
30	2.995 (76.07)	2.900 (73.66)	A26250-ND	7.68	6.15	4.87	643662-1

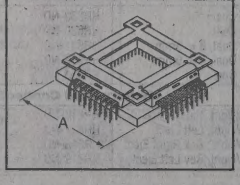
* Tin Plated Phos. Bronze

PQFP Sockets

Housing: High temperature thermoplastic, 94V-0 rated, black. **Cover:** Polyphenylene sulfide (PPS), 94V-0 rated, black. (MICRO-PITCH: Housing and Cover are high temperature thermoplastic, 94V-0 rated).

Performance Characteristics:

- Current Rating: 1amp Max.
- Operating Temp.: -55°C to +105°C
- Dielectric Withstanding Volt.: 750 VAC min.
- Capacitance (Adjacent Contacts): 1 picofarad max.
- Durability: 15 insertion/withdrawal cycles



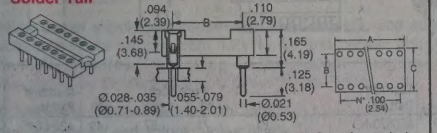
No. of Pos.	Description	Dimension A Inch (mm)	Digi-Key Part No.	Price Each 1	10	100	AMP Part No.
Conventional AMP Sockets							
100	Housing Sub-Assembly	1.140 (28.96)	A24822-ND	19.08	15.27	12.09	821949-4
100	Cover	1.140 (28.96)	A24823-ND	2.91	2.33	1.85	821939-1
132	Housing Sub-Assembly	1.340 (34.04)	A24824-ND	28.53	22.83	18.07	821949-5
132	Cover	1.340 (34.04)	A24825-ND	5.43	4.35	3.44	821942-1
MICRO-PITCH Sockets for JEDEC Metric Quad Flat Pack IC's							
144	Housing Sub-Assembly	38.2 (1.504)	A24826-ND	24.90	19.92	15.77	822114-3
144	Cover	38.2 (1.504)	A24827-ND	3.37	2.70	2.14	822115-3
160	Housing Sub-Assembly	38.2 (1.504)	A24828-ND	27.72	22.18	17.56	822114-4
160	Cover	38.2 (1.504)	A24838-ND	3.78	3.03	2.40	822115-4
Tools							
—	Extraction Tool	—	A24839-ND	121.10	—	—	822254-1
100	Insertion Hand Tool for Conventional	—	A24831-ND	636.39	—	—	822253-1
132	Insertion Hand Tool for Conventional	—	A24841-ND	436.50	—	—	822253-2
—	Insertion Hand Tool for MICRO-PITCH	—	A24842-ND	285.12	—	—	822253-4

More Product Available Online: www.digikey.com

Toll-Free: 1-800-344-4539 • Phone: 218-681-6674 • Fax: 218-681-3380

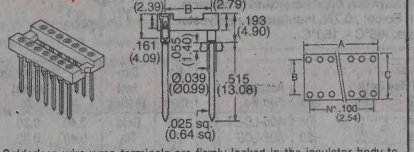
Dual-In-Line Sockets – Open Frame (Screw Machined)

Solder Tail



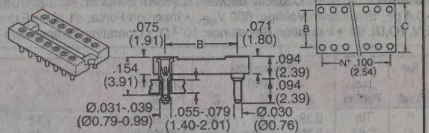
Most popular line of standard low profile IC-Sockets. Open frame design leaves space beneath IC for improved heat dissipation, easier PCB cleaning and inspection. **Insertion Characteristics:** 4-finger standard **Plating: For ED3308-ED3964:** Sleeve (Pin) – 200µ" Sn. Contact (Clip) – 30µ" Au. **For ED3108-ED3764:** Sleeve (Pin) – 200µ" Sn. Contact (Clip) – 150µ" Sn. **For ED56083-ED56646:** Sleeve (Pin) – 10µ" Au. Contact (Clip) – 30µ" Au.

Wire Wrap



Solderless wire wrap terminals are firmly locked in the insulator body to withstand torque of wrapping tool. Length of terminal for three-level wrapping. **Insertion Characteristics:** 4-finger standard **Plating: For ED4308-ED4964:** Sleeve (Pin) – 200µ" Sn. Contact (Clip) – 30µ" Au. **For ED57083-ED57406:** Sleeve (Pin) — 10µ" Au. Contact (Clip) — 30µ" Au

Low Profile



"Ultra low profile" Dual-in-line sockets are equipped with specially designed contacts allowing .095" (2.41mm) height above PCB. Special short contact requires .075" (1.91mm) insertion depth only. Solder tail diameter .030" (.76mm). **Insertion Characteristics:** 4-finger short contact **Plating:** Sleeve (Pin) — 200µ" Sn. Contact (Clip) — 30µ" Au.

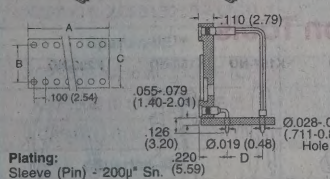
No. of Pins	Dimensions – Inch (mm) A	B	C	Digi-Key Part No.	Price Each 1	10	100	500	Mill-Max Part No.
				Solder Tail (Gold)					
8	0.4 (10.16)	0.3 (7.62)	0.4 (10.16)	ED3308-ND	.42	.29	.24	.20	110-93-308-41-001000
14	0.7 (17.78)	0.3 (7.62)	0.4 (10.16)	ED3314-ND	.73	.51	.41	.36	110-93-314-41-001000
16	0.8 (20.30)	0.3 (7.62)	0.4 (10.16)	ED3316-ND	.83	.58	.47	.40	110-93-316-41-001000
18	0.9 (22.86)	0.3 (7.62)	0.4 (10.16)	ED3318-ND	.94	.65	.53	.45	110-93-318-41-001000
20	1.0 (25.40)	0.3 (7.62)	0.4 (10.16)	ED3320-ND	1.04	.73	.59	.51	110-93-320-41-001000
24	1.2 (30.48)	0.3 (7.62)	0.4 (10.16)	ED3324-ND	1.25	.87	.71	.61	110-93-324-41-001000
28	1.4 (35.56)	0.3 (7.62)	0.4 (10.16)	ED3328-ND	1.46	1.02	.82	.71	110-93-328-41-001000
22	1.1 (27.94)	0.4 (10.16)	0.5 (12.70)	ED3422-ND	1.16	.80	.65	.56	110-93-422-41-001000
24	1.2 (30.48)	0.4 (10.16)	0.5 (12.70)	ED3424-ND	1.25	.87	.71	.61	110-93-424-41-001000
24	1.2 (30.48)	0.6 (15.24)	0.7 (17.78)	ED3624-ND	1.25	.87	.71	.61	110-93-624-41-001000
28	1.4 (35.56)	0.6 (15.24)	0.7 (17.78)	ED3628-ND	1.46	1.02	.82	.71	110-93-628-41-001000
32	1.6 (40.64)	0.6 (15.24)	0.7 (17.78)	ED3632-ND	1.67	1.16	.94	.81	110-93-632-41-001000
40	2.0 (50.80)	0.6 (15.24)	0.7 (17.78)	ED3640-ND	2.09	1.45	1.17	1.01	110-93-640-41-001000
48	2.4 (60.96)	0.6 (15.24)	0.7 (17.78)	ED3648-ND	2.50	1.74	1.41	1.21	110-93-648-41-001000
50	2.5 (63.50)	0.9 (22.86)	1.0 (25.40)	ED3950-ND	2.61	1.81	1.46	1.26	110-93-950-41-001000
64	3.2 (81.28)	0.9 (22.86)	1.0 (25.40)	ED3964-ND	3.34	2.32	1.87	1.61	110-93-964-41-001000
				Solder Tail (Gold)					
8	0.4 (10.16)	0.3 (7.62)	0.4 (10.16)	ED56083-ND	.59	.42	.34	.29	110-13-308-41-001000
14	0.7 (17.78)	0.3 (7.62)	0.4 (10.16)	ED56143-ND	1.04	.72	.58	.50	110-13-314-41-001000
16	0.8 (20.30)	0.3 (7.62)	0.4 (10.16)	ED56163-ND	1.18	.82	.67	.57	110-13-316-41-001000
18	0.9 (22.86)	0.3 (7.62)	0.4 (10.16)	ED56183-ND	1.33	.93	.75	.64	110-13-318-41-001000
20	1.0 (25.40)	0.3 (7.62)	0.4 (10.16)	ED56203-ND	1.48	1.03	.83	.71	110-13-320-41-001000
24	1.2 (30.48)	0.3 (7.62)	0.4 (10.16)	ED56243-ND	1.77	1.23	1.00	.86	110-13-324-41-001000
28	1.4 (35.56)	0.3 (7.62)	0.4 (10.16)	ED56283-ND	2.07	1.44	1.16	1.00	110-13-328-41-001000
24	1.2 (30.48)	0.6 (15.24)	0.7 (17.78)	ED56246-ND	1.77	1.23	1.00	.86	110-13-624-41-001000
28	1.4 (35.56)	0.6 (15.24)	0.7 (17.78)	ED56286-ND	2.07	1.44	1.16	1.00	110-13-628-41-001000
32	1.6 (40.64)	0.6 (15.24)	0.7 (17.78)	ED56326-ND	2.36	1.64	1.33	1.14	110-13-632-41-001000
40	2.0 (50.80)	0.6 (15.24)	0.7 (17.78)	ED56406-ND	2.96	2.05	1.66	1.42	110-13-640-41-001000
64	3.2 (81.28)	0.9 (22.86)	1.0 (25.40)	ED56646-ND	4.73	3.28	2.65	2.27	110-13-964-41-001000
				Solder Tail (Tin)					
8	0.4 (10.16)	0.3 (7.62)	0.4 (10.16)	ED3108-ND	.32	.23	.19	.16	110-99-308-41-001000
14	0.7 (17.78)	0.3 (7.62)	0.4 (10.16)	ED3114-ND	.57	.40	.32	.28	110-99-314-41-001000
16	0.8 (20.30)	0.3 (7.62)	0.4 (10.16)	ED3116-ND	.65	.45	.37	.32	110-99-316-41-001000
18	0.9 (22.86)	0.3 (7.62)	0.4 (10.16)	ED3118-ND	.73	.51	.41	.35	110-99-318-41-001000
20	1.0 (25.40)	0.3 (7.62)	0.4 (10.16)	ED3120-ND	.81	.57	.46	.39	110-99-320-41-001000
24	1.2 (30.48)	0.3 (7.62)	0.4 (10.16)	ED3124-ND	.97	.68	.55	.47	110-99-324-41-001000
28	1.4 (35.56)	0.3 (7.62)	0.4 (10.16)	ED3128-ND	1.13	.79	.64	.55	110-99-328-41-001000
24	1.2 (30.48)	0.4 (10.16)	0.5 (12.70)	ED3524-ND	.97	.68	.55	.47	110-99-424-41-001000
24	1.2 (30.48)	0.6 (15.24)	0.7 (17.78)	ED3724-ND	.97	.68	.55	.47	110-99-624-41-001000
28	1.4 (35.56)	0.6 (15.24)	0.7 (17.78)	ED3728-ND	1.13	.79	.64	.55	110-99-628-41-001000
32	1.6 (40.64)	0.6 (15.24)	0.7 (17.78)	ED3732-ND	1.30	.90	.73	.63	110-99-632-41-001000
40	2.0 (50.80)	0.6 (15.24)	0.7 (17.78)	ED3740-ND	1.62	1.13	.91	.78	110-99-640-41-001000
48	2.4 (60.96)	0.6 (15.24)	0.7 (17.78)	ED3748-ND	1.94	1.35	1.09	.94	110-99-648-41-001000
64	3.2 (81.28)	0.9 (22.86)	1.0 (25.40)	ED3764-ND	2.59	1.80	1.46	1.25	110-99-964-41-001000

No. of Pins	Dimensions – Inch (mm) A	B	C	Digi-Key Part No.	Price Each 1	10	100	500	Mill-Max Part No.
				Wire Wrap					
8	0.4 (10.16)	0.3 (7.62)	0.4 (10.16)	ED4308-ND	.92	.64	.52	.44	123-93-308-41-001000
14	0.7 (17.78)	0.3 (7.62)	0.4 (10.16)	ED4314-ND	1.60	1.11	.90	.77	123-93-314-41-001000
16	0.8 (20.30)	0.3 (7.62)	0.4 (10.16)	ED4316-ND	1.83	1.27	1.03	.88	123-93-316-41-001000
18	0.9 (22.86)	0.3 (7.62)	0.4 (10.16)	ED4318-ND	2.06	1.43	1.16	.99	123-93-318-41-001000
20	1.0 (25.40)	0.3 (7.62)	0.4 (10.16)	ED4320-ND	2.29	1.59	1.29	1.10	123-93-320-41-001000
24	1.2 (30.48)	0.3 (7.62)	0.4 (10.16)	ED4324-ND	2.75	1.91	1.54	1.32	123-93-324-41-001000
28	1.4 (35.56)	0.3 (7.62)	0.4 (10.16)	ED4328-ND	3.20	2.22	1.80	1.54	123-93-328-41-001000
22	1.1 (27.94)	0.4 (10.16)	0.5 (12.70)	ED4422-ND	2.52	1.75	1.41	1.21	123-93-422-41-001000
24	1.2 (30.48)	0.4 (10.16)	0.5 (12.70)	ED4424-ND	2.75	1.91	1.54	1.32	123-93-424-41-001000
24	1.2 (30.48)	0.6 (15.24)	0.7 (17.78)	ED4624-ND	2.75	1.91	1.54	1.32	123-93-624-41-001000
28	1.4 (35.56)	0.6 (15.24)	0.7 (17.78)	ED4628-ND	3.20	2.22	1.80	1.54	123-93-628-41-001000
32	1.6 (40.64)	0.6 (15.24)	0.7 (17.78)	ED4632-ND	3.66	2.54	2.05	1.76	123-93-632-41-001000
40	2.0 (50.80)	0.6 (15.24)	0.7 (17.78)	ED4640-ND	4.58	3.18	2.57	2.20	123-93-640-41-001000
48	2.4 (60.96)	0.6 (15.24)	0.7 (17.78)	ED4648-ND	5.49	3.81	3.08	2.64	123-93-648-41-001000
50	2.5 (63.50)	0.9 (22.86)	1.0 (25.40)	ED4950-ND	5.72	3.97	3.21	2.75	123-93-950-41-001000
64	3.2 (81.28)	0.9 (22.86)	1.0 (25.40)	ED4964-ND	7.32	5.08	4.10	3.52	123-93-964-41-001000
				Wire Wrap					
8	0.4 (10.16)	0.3 (7.62)	0.4 (10.16)	ED57083-ND	1.16	.81	.66	.56	123-13-308-41-001000
14	0.7 (17.78)	0.3 (7.62)	0.4 (10.16)	ED57143-ND	2.04	1.42	1.15	.98	123-13-314-41-001000
16	0.8 (20.30)	0.3 (7.62)	0.4 (10.16)	ED57163-ND	2.33	1.62	1.31	1.12	123-13-316-41-001000
20	1.0 (25.40)	0.3 (7.62)	0.4 (10.16)	ED57203-ND	2.91	2.02	1.63	1.40	123-13-320-41-001000
24	1.2 (30.48)	0.3 (7.62)	0.4 (10.16)	ED57243-ND	3.49	2.43	1.96	1.68	123-13-324-41-001000
24	1.2 (30.48)	0.6 (15.24)	0.7 (17.78)	ED57246-ND	3.49	2.43	1.96	1.68	123-13-624-41-001000
28	1.2 (30.48)	0.6 (15.24)	0.7 (17.78)	ED57286-ND	4.07	2.83	2.29	1.96	123-13-628-41-001000
40	2.0 (50.80)	0.6 (15.24)	0.7 (17.78)	ED57406-ND	5.82	4.04	3.26	2.80	123-13-640-41-001000
				Low Profile					
8	0.4 (10.16)	0.3 (7.62)	0.4 (10.16)	ED5308-ND	.70	.49	.40	.34	115-93-308-41-003000
14	0.7 (17.78)	0.3 (7.62)	0.4 (10.16)	ED5314-ND	1.18	.82	.66	.57	115-93-314-41-003000
16	0.8 (20.30)	0.3 (7.62)	0.4 (10.16)	ED5316-ND	1.35	.94	.76	.65	115-93-316-41-003000
18	0.9 (22.86)	0.3 (7.62)	0.4 (10.16)	ED5318-ND	1.52	1.05	.85	.73	115-93-318-41-003000
20	1.0 (25.40)	0.3 (7.62)	0.4 (10.16)	ED5320-ND	1.62	1.13	.91	.78	115-93-320-41-003000
24	1.2 (30.48)	0.3 (7.62)	0.4 (10.16)	ED5324-ND	1.95	1.35	1.09	.94	115-93-324-41-003000
28	1.4 (35.56)	0.3 (7.62)	0.4 (10.16)	ED5328-ND	2.27	1.58	1.28	1.10	115-93-328-41-003000
22	1.1 (27.94)	0.4 (10.16)	0.5 (12.70)	ED5422-ND	1.79	1.24	1.00	.86	115-93-422-41-003000
24	1.2 (30.48)	0.4 (10.16)	0.5 (12.70)	ED5424-ND	1.95	1.35	1.09	.94	115-93-424-41-003000
24	1.2 (30.48)	0.6 (15.24)	0.7 (17.78)	ED5624-ND	1.95	1.35	1.09	.94	115-93-624-41-003000
28	1.4 (35.56)	0.6 (15.24)	0.7 (17.78)	ED5628-ND	2.27	1.58	1.28	1.10	115-93-628-41-003000
32	1.6 (40.64)	0.6 (15.24)	0.7 (17.78)	ED5632-ND	2.60	1.81	1.46	1.25	115-93-632-41-003000
40	2.0 (50.80)	0.6 (15.24)	0.7 (17.78)	ED5640-ND	3.25	2.26	1.82	1.56	115-93-640-41-003000
48	2.4 (60.96)	0.6 (15.24)	0.7 (17.78)	ED5648-ND	3.90	2.71	2.19	1.88	115-93-648-41-003000

Dual-In-Line Sockets – Right Angle Mount Closed Frame

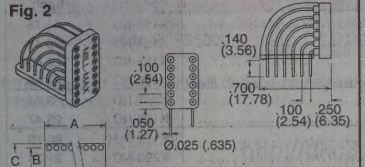
- For components to be mounted perpendicularly to the PCB, such as LED displays.
- Horizontal mount solder tails are available with either .300" (7.62mm) [standard] or .100" (2.54mm) row spacing.

Fig. 1



Plating:
Sleeve (Pin) - 200µ" Sn.
Contact (Clip) - 30µ" Au.

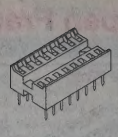
Fig. 2

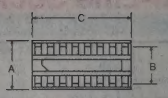


Plating:
Pin - 200µ" Sn; Contact - 200µ" Sn

Fig.	No. of Pins	Dimensions – Inch (mm) A	B	C	D	Digi-Key Part No.	Price Each 1	10	100	500	1,000	Mill-Max Part No.
	6	0.3 (7.62)	0.3 (7.62)	0.4 (10.16)	.300 (7.62)	ED58407-ND	2.46	1.71	1.38	1.19	.99	299-93-306-10-001000
	8	0.4 (10.16)	0.3 (7.62)	0.4 (10.16)	.300 (7.62)	ED58408-ND	3.28	2.28	1.84	1.58	1.32	299-93-308-10-001000
	10	0.5 (12.70)	0.3 (7.62)	0.4 (10.16)	.300 (7.62)	ED58409-ND	3.93	2.73	2.21	1.89	1.58	299-93-310-10-001000
	12	0.6 (15.24)	0.3 (7.62)	0.4 (10.16)	.300 (7.62)	ED58410-ND	4.71	3.27	2.64	2.27	1.89	299-93-312-10-001000
1	14	0.7 (17.78)	0.3 (7.62)	0.4 (10.16)	.300 (7.62)	ED58411-ND	5.50	3.82	3.08	2.64	2.20	299-93-314-10-001000
	16	0.8 (20.30)	0.3 (7.62)	0.4 (10.16)	.300 (7.62)	ED58412-ND	6.29	4.36	3.53	3.02	2.52	299-93-316-10-001000
	18	0.9 (22.86)	0.3 (7.62)	0.4 (10.16)	.300 (7.62)	ED58413-ND	7.07	4.91	3.97	3.40	2.83	299-93-318-10-001000
	20	1.0 (25.40)	0.3 (7.62)	0.4 (10.16)	.300 (7.62)	ED58414-ND	7.58	5.26	4.25	3.64	3.04	299-93-320-10-001000
	24	1.2 (30.48)	0.3 (7.62)	0.4 (10.16)	.300 (7.62)	ED58415-ND	9.10	6.31	5.10	4.37	3.64	299-93-324-10-001000
	8	0.4 (10.16)	0.6 (15.24)	0.7 (17.78)	.300 (7.62)	ED58416-ND	3.80	2.64	2.13	1.83	1.52	299-93-608-10-002000
	10	0.5 (12.70)	0.6 (15.24)	0.7 (17.78)	.300 (7.62)	ED58417-ND	4.55	3.16	2.55	2.19	1.82	299-93-610-10-002000
	12	0.6 (15.24)	0.6 (15.24)	0.7 (17.78)	.300 (7.62)	ED58418-ND	5.46	3.79	3.06	2.63	2.19	299-93-612-10-002000
	14	0.7 (17.78)	0.6 (15.24)	0.7 (17.78)	.300 (7.62)	ED58419-ND	6.37	4.42	3.57	3.06	2.55	299-93-614-10-002000
	16	0.8 (20.30)	0.6 (15.24)	0.7 (17.78)	.300 (7.62)	ED58420-ND	7.28	5.05	4.08	3.50	2.92	299-93-616-10-002000
	18	0.9 (22.86)	0.6 (15.24)	0.7 (17.78)	.300 (7.62)	ED58421-ND	8.19	5.68	4.59	3.94	3.28	299-93-618-10-002000
	20	1.0 (25.40)	0.6 (15.24)	0.7 (17.78)	.300 (7.62)	ED58422-ND	8.78	6.09	4.92	4.22	3.52	299-93-620-10-002000
1	22	1.1 (27.94)	0.6 (15.24)	0.7 (17.78)	.300 (7.62)	ED58423-ND	9.66	6.70	5.41	4.64	3.87	299-93-622-10-002000
	24	1.2 (30.48)	0.6 (15.24)	0.7 (17.78)	.300 (7.62)	ED58424-ND	10.54	7.31	5.91	5.06	4.22	299-93-624-10-002000
	26	1.3 (33.02)	0.6 (15.24)	0.7 (17.78)	.300 (7.62)	ED58425-ND	11.42	7.92	6.40	5.49	4.57	299-93-626-10-002000
	28	1.4 (35.56)	0.6 (15.24)	0.7 (17.78)	.300 (7.62)	ED58426-ND	12.30	8.53	6.89	5.91	4.92	299-93-628-10-002000
	30	1.5 (38.10)	0.6 (15.24)	0.7 (17.78)	.300 (7.62)	ED58427-ND	13.17	9.14	7.38	6.33	5.27	299-93-630-10-002000
	32	1.6 (40.64)	0.6 (15.24)	0.7 (17.78)	.300 (7.62)	ED58428-ND	14.05	9.75	7.87	6.75	5.63	299-93-632-10-002000
	36	1.8 (45.72)	0.6 (15.24)	0.7 (17.78)	.300 (7.62)	ED58429-ND	15.81	10.97	8.86	7.59	6.33	299-93-636-10-002000
	40	2.0 (50.80)	0.6 (15.24)	0.7 (17.78)	.300 (7.62)	ED58430-ND	17.57	12.18	9.84	8.44	7.03	299-93-640-10-002000
	6	.300 (7.62)	0.3 (7.62)	0.4 (10.16)	.100 (2.54)	ED58431-ND	2.40	1.67	1.35	1.16	.97	299-93-306-11-001000
	8	0.4 (10.16)	0.3 (7.62)	0.4 (10.16)	.100 (2.54)	ED58432-ND	3.20	2.22	1.80	1.54	1.29	299-93-308-11-001000
	10	0.5 (12.70)	0.3 (7.62)	0.4 (10.16)	.100 (2.54)	ED58433-ND	3.84	2.67	2.16	1.85	1.54	299-93-310-11-001000
	12	0.6 (15.24)	0.3 (7.62)	0.4 (10.16)	.100 (2.54)	ED58434-ND	4.61	3.20	2.58	2.22	1.85	299-93-312-11-001000
1	14	0.7 (17.78)	0.3 (7.62)	0.4 (10.16)	.100 (2.54)	ED58435-ND	5.37	3.73	3.01	2.58	2.15	299-93-314-11-001000
	16	0.8 (20.30)	0.3 (7.62)	0.4 (10.16)	.100 (2.54)	ED58436-ND	6.14	4.26	3.44	2.95	2.46	299-93-316-11-001000
	18	0.9 (22.86)	0.3 (7.62)	0.4 (10.16)	.100 (2.54)	ED58437-ND	6.91	4.79	3.87	3.32	2.77	299-93-318-11-001000
	20	1.0 (25.40)	0.3 (7.62)	0.4 (10.16)	.100 (2.54)	ED58438-ND	7.41	5.14	4.15	3.56	2.97	299-93-320-11-001000
	24	1.2 (30.48)	0.3 (7.62)	0.4 (10.16)	.100 (2.54)	ED58439-ND	8.89	6.17	4.98	4.27	3.56	299-93-324-11-001000
2	10	0.5 (12.70)	0.2 (5.08)	0.3 (7.62)	—	ED7800-ND	8.41	5.84	4.72	4.04	3.37	299-99-210-12-001800

ASSMANN IC Sockets Dual Wipe Solder Tail





Contacts: • Phosphor Bronze. Protection against capillary version. **Mechanical and Electrical Data:** • Transitional Resistance: ≤12mΩ. Capacity between adjacent contacts: <0.9 pF. Capacity between opposite adjacent contacts: <0.4 pF. Breakdown Voltage: 600 V_{eff}. • Insertion Force: ≤1.5N • Extraction Force: ≥0.7N. **Insulators:** • Polyester GV,VO,UL 94 • Insulation Resistance: $10^{12}\Omega$ • Operating Temperature Range: -65°C ~ 150°C

A

No. of Cont.	Contact Plating	Dimensions (inch) A	B	C	Digi-Key Part No.	Price Each 1	10	100	500	Assmann Part No.
6	Tin	0.39	0.30	0.30	AE8906-ND	.17	.14	.11	.08	A06-LC-TT
6	Gold	0.39	0.30	0.30	AE9806-ND	.33	.29	.23	.20	A06-LCG
8	Tin	0.39	0.30	0.39	AE8908-ND	.10	.08	.07	.05	A08-LC-TT
8	Gold	0.39	0.30	0.39	AE9808-ND	.33	.29	.23	.20	A08-LCG
8	Tin	0.40	0.30	0.40	AE9841-ND† **NEW!**	.14	.12	.10	.07	A08-LC-TR
14	Tin	0.39	0.30	0.70	AE8914-ND	.17	.14	.12	.08	A14-LC-TT
14	Gold	0.39	0.30	0.70	AE9814-ND	.57	.50	.40	.35	A14-LCG
14	Tin	0.40	0.30	0.70	AE9842-ND† **NEW!**	.19	.16	.13	.09	A14-LC-TR
16	Tin	0.39	0.30	0.80	AE8916-ND	.19	.16	.13	.10	A16-LC-TT
16	Gold	0.39	0.30	0.80	AE9816-ND	.65	.57	.46	.40	A16-LCG
16	Tin	0.40	0.30	0.80	AE9843-ND† **NEW!**	.22	.18	.14	.11	A16-LC-TR
18	Tin	0.39	0.30	0.90	AE8918-ND	.22	.18	.15	.11	A18-LC-TT
18	Gold	0.39	0.30	0.90	AE9818-ND	.73	.64	.52	.44	A18-LCG
18	Tin	0.40	0.30	0.90	AE9844-ND† **NEW!**	.23	.19	.16	.11	A18-LC-TR
20	Tin	0.39	0.30	1.00	AE8920-ND	.24	.20	.16	.12	A20-LC-TT
20	Gold	0.40	0.30	1.00	AE9820-ND	.81	.71	.57	.49	A20-LCG
20	Tin	0.40	0.30	1.00	AE9845-ND† **NEW!**	.26	.21	.17	.13	A20-LC-TR
22	Tin	0.50	0.40	1.10	AE8922-ND	.49	.39	.32	.23	A22-LC-T2
22	Gold	0.50	0.40	1.10	AE9822-ND	.89	.78	.63	.54	A22-LCG
24	Tin	0.70	0.60	1.20	AE8924-ND	.29	.24	.19	.14	A24-LC-TT
24	Gold	0.70	0.60	1.20	AE9824-ND	.98	.85	.69	.59	A24-LCG
24	Tin	0.70	0.60	1.20	AE9848-ND† **NEW!**	.32	.26	.21	.16	A24-LC-TR
28	Tin	0.70	0.60	1.40	AE8928-ND	.34	.28	.23	.16	A28-LC-TT
28	Gold	0.70	0.60	1.40	AE9828-ND	1.14	.99	.80	.69	A28-LCG
28	Tin	0.70	0.60	1.40	AE9849-ND† **NEW!**	.35	.29	.23	.17	A28-LC-TR
32	Tin	0.70	0.60	1.60	AE9850-ND† **NEW!**	.37	.30	.24	.18	A32-LC-TR
40	Tin	0.70	0.60	2.00	AE8940-ND	.49	.39	.32	.23	A40-LC-TT
40	Gold	0.70	0.60	2.00	AE9840-ND	1.63	1.42	1.15	.98	A40-LCG
40	Tin	0.70	0.60	2.00	AE9851-ND† **NEW!**	.46	.37	.30	.22	A40-LC-TR

† Retentive Leg Version

IC Sockets Machine Pin

With gold plated precision spring contacts, open frame, solder pin and wire wrap terminals.

Fig. 1

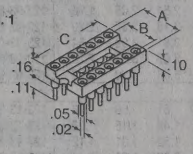
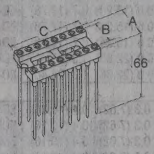


Fig. 2



Contacts: • Contact Spring: copper alloy, slit 4 times. Surface gold over nickel. Absolute protection against capillary action. Connecting pins: brass, solder version.
Mechanical and Electrical Data: • Depth of Insertion: 2.3 to 3.7 mm. Vibration: 20 g after MIL-STD-202. Shock: 150g to MIL-STD-202. Insertion Frequency: >1000. Transitional Resistance after 100 insertion cycles: ≤12mΩ. Capacity between adjacent contacts: <0.9pF. Capacity between opposite adjacent contacts: <0.4pF. Air and creepage space between adjacent contacts: >0.4mm. Tensile strength: 1000 V_{eff}.
Insulators: • Polyester GV, VO self-extinguishing, UL 94. Insulation Resistance: $10^{12}\Omega$. Operating Temperature Range: -65°C ~ 150°C. Retains shape in solder bath. Resistant to detergent.
Contact Plating: • Pin: Tin; Clip: Gold.

Fig.	No. of Cont.	Dimensions (inch) A	B	C	Digi-Key Part No.	Price Each 1	10	100	Assmann Part No.
					Solder Tail				
					Gold Flash				
	8	0.40	0.30	0.40	AE7208-ND	.35	.31	.25	AR08-HZL-TT
	14	0.40	0.30	0.70	AE7214-ND	.63	.55	.45	AR14-HZL-TT
	16	0.40	0.30	0.80	AE7216-ND	.72	.63	.51	AR16-HZL-TT
	18	0.40	0.30	0.90	AE7218-ND	.84	.73	.59	AR18-HZL-TT
	20	0.40	0.30	1.00	AE7220-ND	.93	.81	.66	AR20-HZL-TT
1	22	0.50	0.40	1.10	AE7222-ND	1.02	.89	.72	AR22-HZL-TT
	24	0.70	0.60	1.20	AE7224-ND	1.14	.99	.80	AR24-HZL-TT
	28	0.70	0.60	1.40	AE7228-ND	1.32	1.15	.93	AR28-HZL-TT
	40	0.70	0.60	2.00	AE7240-ND	1.95	1.69	1.37	AR40-HZL-TT
	48	0.70	0.60	2.40	AE7248-ND	2.37	2.06	1.66	AR48-HZL-TT
	64	1.00	0.90	3.20	AE7264-ND	2.88	2.50	2.02	AR64-HZL-TT
					10µ" Gold				
	6	0.40	0.30	0.30	AE7300-ND	.55	.48	.39	AR06-HZL/01-TT
	8	0.40	0.30	0.40	AE7301-ND	.71	.62	.50	AR08-HZL/01-TT
	14	0.40	0.30	0.70	AE7302-ND	1.11	.96	.78	AR14-HZL/01-TT
	16	0.40	0.30	0.80	AE7303-ND	1.26	1.09	.88	AR16-HZL/01-TT
	20	0.40	0.30	1.00	AE7304-ND	1.50	1.30	1.05	AR20-HZL/01-TT
1	24	0.70	0.60	1.20	AE7305-ND	1.85	1.61	1.30	AR24-HZL/01-TT
	24	0.40	0.30	1.20	AE7306-ND	1.86	1.62	1.31	AR24-HZL/7/01-TT
	28	0.70	0.60	1.40	AE7307-ND	2.16	1.87	1.51	AR28-HZL/01-TT
	28	0.40	0.30	1.40	AE7308-ND	2.16	1.87	1.51	AR28-HZL/7/01-TT
	32	0.70	0.60	1.60	AE7309-ND	2.46	2.14	1.73	AR32-HZL/01-TT
	40	0.70	0.60	2.00	AE7310-ND	3.06	2.66	2.15	AR40-HZL/01-TT
	48	0.70	0.60	2.40	AE7311-ND	3.74	3.25	2.62	AR48-HZL/01-TT
					30µ" Gold				
	6	0.40	0.30	0.30	AE7312-ND	.72	.63	.51	AR06-HZL/07-TT
	8	0.40	0.30	0.40	AE7313-ND	.93	.81	.66	AR08-HZL/07-TT
	14	0.40	0.30	0.70	AE7314-ND	1.47	1.28	1.03	AR14-HZL/07-TT
	16	0.40	0.30	0.80	AE7315-ND	1.67	1.45	1.17	AR16-HZL/07-TT
	18	0.40	0.30	0.90	AE7316-ND	1.86	1.62	1.31	AR18-HZL/07-TT
	20	0.40	0.30	1.00	AE7317-ND	2.07	1.80	1.45	AR20-HZL/07-TT
1	24	0.70	0.60	1.20	AE7318-ND	2.47	2.14	1.73	AR24-HZL/07-TT
	24	0.40	0.30	1.20	AE7319-ND	2.48	2.15	1.74	AR24-HZL/7/07-TT
	28	0.70	0.60	1.40	AE7320-ND	2.88	2.50	2.02	AR28-HZL/07-TT
	28	0.40	0.30	1.40	AE7321-ND	2.88	2.50	2.02	AR28-HZL/7/07-TT
	32	0.70	0.60	1.60	AE7322-ND	3.28	2.85	2.30	AR32-HZL/07-TT
	40	0.70	0.60	2.00	AE7323-ND	4.55	3.95	3.19	AR40-HZL/07-TT
	48	0.70	0.60	2.40	AE7324-ND	4.97	4.31	3.48	AR48-HZL/07-TT
					Wire Wrap				
	8	0.40	0.30	0.40	AE7108-ND	.96	.84	.68	AR08-HZW/T
	14	0.40	0.30	0.70	AE7114-ND	1.65	1.43	1.16	AR14-HZW/T
	16	0.40	0.30	0.80	AE7116-ND	1.89	1.64	1.33	AR16-HZW/T
	18	0.40	0.30	0.90	AE7118-ND	2.13	1.85	1.50	AR18-HZW/T
2	20	0.40	0.30	1.00	AE7120-ND	2.37	2.06	1.66	AR20-HZW/T
	22	0.50	0.40	1.10	AE7122-ND	2.61	2.27	1.83	AR22-HZW/T
	24	0.70	0.60	1.20	AE7124-ND	2.85	2.47	2.00	AR24-HZW/T
	28	0.70	0.60	1.40	AE7128-ND	3.30	2.86	2.31	AR28-HZW/T
	40	0.70	0.60	2.00	AE7140-ND	4.74	4.11	3.32	AR40-HZW/T

PLCC Sockets

Specifications: • **Contacts:** Phosphor bronze, tin and gold plated • **Current Rating:** 1A • **Insulating Resistance:** 1000MΩ minimum • **Withstanding Resistance:** 600Vrms • **Contact Resistance:** 30mΩ maximum • **Operating Temperature:** -55°C ~ 110°C • **Insulator:** PBT, UL 94V-0

Fig. 1

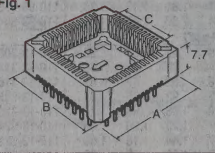


Fig. 2

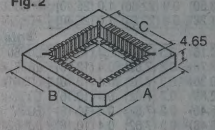
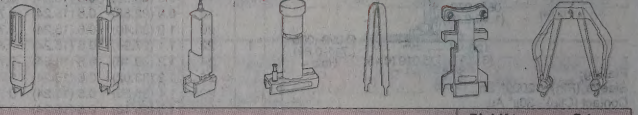


Fig.	No. of Cont.	Dimensions (inch) A	B	C	Digi-Key Part No.	Price Each 1	10	100	Assmann Part No.
					PLCC-Thru Hole				
					Tin				
	20	0.61	0.61	0.20	AE7325-ND	.74	.65	.53	A-CCS20-Z
	28	0.71	0.71	0.30	AE7326-ND	.78	.68	.55	A-CCS28-Z
	32	0.71	0.81	0.30	AE7327-ND	.82	.72	.58	A-CCS32-Z
1	44	0.93	0.93	0.50	AE7328-ND	.90	.78	.63	A-CCS44-Z
	52	1.02	1.02	0.60	AE7329-ND	.98	.85	.69	A-CCS52-Z
	68	1.23	1.23	0.80	AE7330-ND	1.00	.87	.70	A-CCS68-Z
	84	1.42	1.42	1.00	AE7331-ND	1.15	1.00	.81	A-CCS84-Z
					Gold				
	20	0.61	0.61	0.20	AE7332-ND	1.21	1.05	.85	A-CCS20-G
	28	0.71	0.71	0.30	AE7333-ND	1.21	1.05	.85	A-CCS28-G
	32	0.71	0.81	0.30	AE7334-ND	1.40	1.21	.98	A-CCS32-G
1	44	0.93	0.93	0.50	AE7335-ND	1.52	1.32	1.07	A-CCS44-G
	52	1.02	1.02	0.60	AE7336-ND	1.52	1.32	1.07	A-CCS52-G
	68	1.23	1.23	0.80	AE7337-ND	1.58	1.37	1.11	A-CCS68-G
	84	1.42	1.42	1.00	AE7338-ND	1.76	1.53	1.23	A-CCS84-G
					PLCC — Surface Mount				
					Tin				
	20	0.62	0.62	0.20	AE7339-ND	.67	.58	.47	A-CCS20-Z-SM
	28	0.72	0.72	0.30	AE7340-ND	.71	.62	.50	A-CCS28-Z-SM
	32	0.72	0.82	0.40	AE7341-ND	.85	.56	.46	A-CCS32-Z-SM
2	44	0.92	0.92	0.50	AE7342-ND	.78	.68	.55	A-CCS44-Z-SM
	52	1.02	1.02	0.60	AE7343-ND	.96	.83	.67	A-CCS52-Z-SM
	68	1.22	1.22	0.80	AE7344-ND	1.04	.90	.73	A-CCS68-Z-SM
	84	1.42	1.42	1.00	AE7345-ND	1.21	1.05	.85	A-CCS84-Z-SM

OK Industries
Division of Jonard Industries Corp.

IC Insertion/Extraction Tools

K153-ND K154-ND K155-ND K156-ND K157-ND K158-ND K293-ND



Description	Digi-Key Part No.	Price Each
14-16 Pin Dip/IC Inserter	K153-ND	11.73
14-16 Pin CMOS Safe Inserter	K154-ND	20.43
24-28 Pin CMOS Safe Inserter	K155-ND	20.43
36-40 Pin CMOS Safe Inserter	K156-ND	23.48
Extractor Tool, (8 to 24 pins)	K157-ND	3.64
Extractor Tool, (24 to 40 pins)	K158-ND	23.47
Insertion & Extraction Kit	K159-ND†	86.79
Universal PLCC Extraction Tool ESD Safe	K293-ND	21.74
Low Cost Universal PLCC Extractor	K374-ND	10.96

† The K159 Kit contains: K154, K155, K156, K157 and K158.

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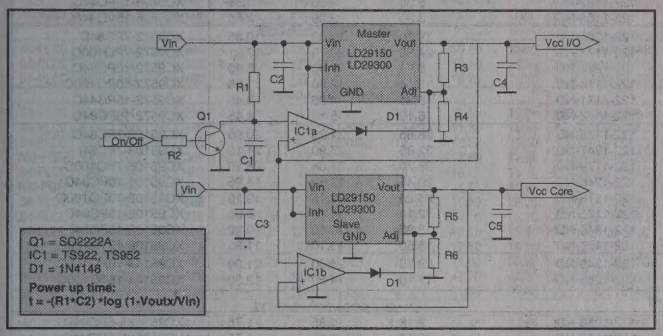
Xilinx FPGA Power Management Systems

Xilinx power supply requirements for the core, I/O, and auxiliary power supplies include voltage outputs ranging from 1.2V to 5V and current outputs from tens of milliamps to multiple amperes. Depending on the system requirements, a linear or a switching regulator may be used to supply power to the FPGA.

STMicroelectronics makes both linear and switching regulators with a wide variety of output voltages and output current levels.
When power sequencing is needed, the following circuit will control the power-up and power-down sequence of the Vcc_{core} and the V_{cco} supply voltages.

Linear regulators are the best choice when board space is at a premium, low output noise is important or a fast response to inputs and transients is required. Linear regulators provide low to medium output currents (up to 3A) with a simple design approach.



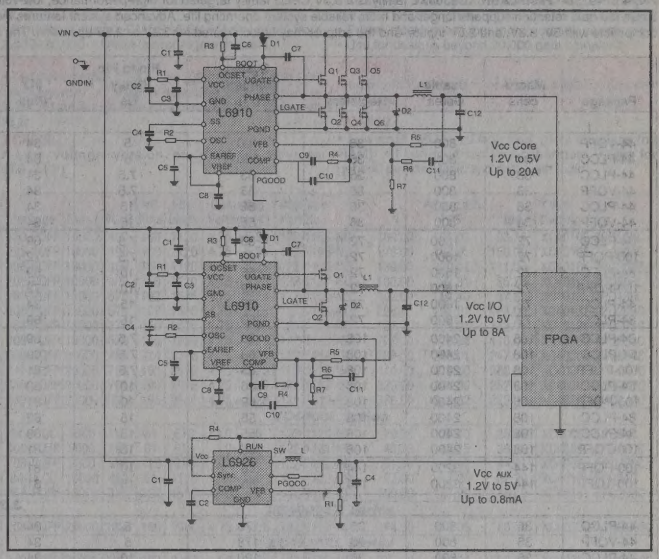
Linear Solution

The above solution implements a controlled slew rate on power up and power sequencing for the core and I/O voltages. Both outputs rise and fall with the same slew rate, set by R1 and C1. t=-(R1*C2) *Log (1 - Vccx/Vin)

Note: Vout Master must be higher than Vout Slave

Switching regulators are best used when design efficiency is critical and/or large output currents are required (such as Spartan-3™ and Virtex-II™). Switching supplies are known for excellent efficiency, but the output is more susceptible to noise due to the switching nature of the regulator.

Switching regulators require inductors and input and output capacitors for DC-DC conversion.



Switching Solution

The above solution provides a Core voltage range from 1.2V to 5V with a current up to 20A, an I/O voltage from 1.2V to 5V with a current capability up to 10A, and an auxiliary supply voltage from 1.2V to 5V up to 800mA.

STMicroelectronics Linear and Switching Voltage Regulators

Xilinx Part Number	LINEAR			SWITCHING		
Virtex-II™ Pro	**Vccint (1.5V)**	**Vccaux (2.5V)**	**Vcco★ (1.5V to 3.3V)**	**Vccint**	**Vccaux**	**Vcco★**
XC2VP2 to XC2VP30	KF15 or LD1117	L4931ABD25x	LD29300	L5970D	L6926D or L5970D	
XC2VP40 to XC2VP125	LD29150xx15	L4931ABD25x	LD29300	L5972D	L6926D or L5970D	
Virtex-II™	**Vccint (1.5V)**	**Vccaux (3.3V)**	**Vcco★ (1.5V to 3.3V)**	**Vccint**	**Vccaux**	**Vcco★**
XC2V40 to XC2V1000	L4931ABD15TR	LD2981Cxx33	L4931, LD29300	L4973 L6910	L6926D	L4973
XC2V1500 to XCE2V3000	KF15	LD2981Cxx33	L4931, LD29300	L4973 L6910	L6926D	L4973
XCE2V4000 to XCE2V8000	LD29150xx15	LD2981Cxx33	L4931, LD29300	L4973 L6910	L6926D	L4973
Virtex-EM™ and Virtex-E™	**Vccint (1.8V)**		**Vcco★ (1.2V to 3.3V)**	**Vccint**	**Vcco★**	
XCV50E (C) to XCV600E (C)	LF18Cxx		L4931	L5970D	L6926D or L5970D	
XCV812E (C) to XCV2000E (C)	LD1117Axx18		L4931	L5970D	L6926D or L5970D	
XCV2600E (C) to XCV3200E (C)	LD1086xx18		L4931	L5972D	L6926D or L5970D	
XCV50E (I) to XCV3200E (I)	LD1085xx18		L4931	L5973D	L6926D or L5970D	
Spartan-II™	**Vccint (2.5V)**		**Vcco★ (1.5V to 3.3V)**	**Vccint**	**Vcco★**	
XC2S15 to XC2S150 (0°C < Tj)	KF25xx		LFxx, KFxx	L5973D or L4973	L6926D	
XC2S15 to XC2S150 (Tj < 0°C)	LD1085xx25 / LD29300xx25		LFxx, KFxx	L5973D or L4973	L6926D	
Spartan-IIE™	**Vccint (1.8V)**		**Vcco★ (1.2V to 3.3V)**	**Vccint**	**Vcco★**	
XC2S50E (C) to XC2S600E (C)	LF18C, LD1086xx18, LD29150xx18		L4931	L5973D or L4973	L6926D or L5970D	
XC2S50E (I) to XC2S300E (I)	LF18C, LD1086xx18, LD29150xx18		L4931	L5973D or L4973	L6926D or L5970D	
XC2S400E (I) to XC2S600E (I)	LD1085xx18, LD29300xx18		L4931	L4973	L6926D or L5970D	
Spartan-3™	**Vccint (1.2V)**	**Vccaux (2.5V)**	**Vcco★ (1.2V to 3.3V)**	**Vccint**	**Vccaux**	**Vcco★**
XC3S50 to XC3S400	LD1117Axx12	KF25xx	LD29300	L4973	L6926D	L4973
XC3S1000 to XC3S2000	LD1117Axx12	KF25xx	LD29300	L4973, L6910	L6926D	L4973
XC3S4000 to XC3S5000	LD1117Axx12	KF25xx	LD29300	L4973, L6910	L6926D	L4973, L6910

★ The required I/O current will depend on several design specific factors, including I/O usage, loading, etc. Designers should use FPGA power estimator tools to determine the required Iccio current.

http://dkc3.digikey.com/PDF/Marketing/FPGA_Xilinx.pdf

XILINX XC9500 In-System Programmable CPLDs (Complex Programmable Logic Devices)

The **XC9500 CPLD** family provides advanced in-system programming and test capabilities for high performance, general purpose logic integration. All devices are in-system programmable for a minimum of 10,000 program/erase cycles. Extensive IEEE 1149.1 (JTAG) boundary-scan support is also included on all family members. The XC9500 family is fully pin-compatible allowing easy design migration across multiple density options in a given package footprint. Advanced system features include output slew rate control and user programmable ground pins to help reduce system noise. I/Os may be configured for 3.3V or 5V operation. All outputs provide 24mA drive. The **FastFLASH XC9500XL** family is a 3.3V CPLD family targeted for high-performance, low-voltage applications. The XC9500XL architectural features address the requirements of in-system programmability. Extended data retention supports longer and more reliable system operating life. Advanced system features include output slew rate control and user-programmable ground pins to help reduce system noise. Each user pin is compatible with 5V, 3.3V, and 2.5V inputs, and the outputs may be configured for 3.3V or 2.5V operation. The XC9500XL device exhibits symmetric full 3.3V output voltage swing to allow balanced rise and fall times.

B

Package	Macro-cells	Usable Gates	Registers	System Frequency MHz (min)	Pin to Pin Delay Ns	I/O Pins	Digi-Key Part No.	Price Each 1	25	100	Xilinx Part No.
5 Volt											
44-VQFP	36	800	36	100	5	34	122-1254-ND	9.80	9.10	8.45	XC9536-5VQ44C
44-PLCC	36	800	36	100	6	34	122-1253-ND	9.80	9.10	8.45	XC9536-6PC44C
44-PLCC	36	800	36	83	7.5	34	122-1169-ND	4.30	4.00	3.70	XC9536-7PC44C
44-VQFP	36	800	36	83	7.5	34	122-1170-ND	4.30	4.00	3.70	XC9536-7VQ44C
44-PLCC	36	800	36	55	15	34	122-1167-ND	3.30	3.05	2.85	XC9536-15PC44C
44-VQFP	36	800	36	55	15	34	122-1168-ND	3.30	3.05	2.85	XC9536-15VQ44C
84-PLCC	72	1600	72	83	7.5	69	122-1262-ND	14.20	12.02	10.35	XC9572-7PC84C
100-PQFP	72	1600	72	83	7.5	72	122-1173-ND	24.50	20.70	17.91	XC9572-7PQ100C
84-PLCC	72	1600	72	66	10	69	122-1261-ND	8.74	7.40	6.40	XC9572-10PC84C
100-PQFP	72	1600	72	69	10	72	122-1174-ND	15.10	12.80	11.05	XC9572-10PQ100C
44-PLCC	72	1600	72	55	15	34	122-1171-ND	5.35	4.35	3.45	XC9572-15PC44C
84-PLCC	72	1600	72	55	15	69	122-1172-ND	6.10	5.15	4.45	XC9572-15PC84C
84-PLCC	108	2400	108	83	7.5	69	122-1176-ND	28.65	24.25	20.95	XC95108-7PC84C
84-PLCC	108	2400	108	83	7.5	69	122-1247-ND	32.95	27.90	24.10	XC95108-7PC84I
100-PQFP	108	2400	108	83	7.5	81	122-1179-ND	36.70	31.05	26.80	XC95108-7PQ100C
84-PLCC	108	2400	108	66	10	69	122-1245-ND	20.45	17.30	14.95	XC95108-10PC84C
100-PQFP	108	2400	108	69	10	81	122-1178-ND	26.20	22.15	19.15	XC95108-10PQ100C
84-PLCC	108	2400	108	55	15	69	122-1175-ND	12.10	10.25	8.85	XC95108-15PC84C
84-PLCC	108	2400	108	55	15	69	122-1246-ND	13.95	11.80	10.20	XC95108-15PC84I
100-TQFP	108	2400	108	55	15	81	122-1177-ND	15.50	13.10	11.35	XC95108-15TQ100C
100-PQFP	144	3200	144	66	10	81	122-1248-ND	28.75	24.30	21.00	XC95144-10PQ100C
100-TQFP	144	3200	144	55	15	81	122-1249-ND	17.10	14.50	12.50	XC95144-15TQ100C
3.3 Volt											
44-PLCC	36	800	36	178	5	34	122-1258-ND	2.18	1.85	1.75	XC9536XL-5PC44C
44-VQFP	36	800	36	178	5	34	122-1259-ND	2.18	1.85	1.75	XC9536XL-5VQ44C
44-PLCC	36	800	36	100	10	34	122-1255-ND	1.62	1.38	1.07	XC9536XL-10PC44C
44-VQFP	36	800	36	100	10	34	122-1256-ND	1.62	1.38	1.07	XC9536XL-10VQ44C
64-VQFP	36	800	36	100	10	52	122-1257-ND	1.82	1.54	1.20	XC9536XL-10VQ64C
44-PLCC	72	1600	72	178	5	34	122-1267-ND	5.64	4.78	4.40	XC9572XL-5PC44C
100-TQFP	72	1600	72	178	5	72	122-1268-ND	7.19	6.09	5.60	XC9572XL-5TQ100C
44-VQFP	72	1600	72	178	5	34	122-1269-ND	5.64	4.78	4.40	XC9572XL-5VQ44C
44-PLCC	72	1600	72	125	7.5	34	122-1270-ND	4.37	3.70	3.00	XC9572XL-7PC44C
100-TQFP	72	1600	72	125	7.5	72	122-1271-ND	5.46	4.62	3.80	XC9572XL-7TQ100C
44-PLCC	72	1600	72	100	10	34	122-1263-ND	3.09	2.62	2.04	XC9572XL-10PC44C
100-TQFP	72	1600	72	100	10	72	122-1264-ND	3.91	3.32	2.58	XC9572XL-10TQ100C
44-VQFP	72	1600	72	100	10	34	122-1265-ND	3.09	2.62	2.04	XC9572XL-10VQ44C
64-VQFP	72	1600	72	100	10	52	122-1266-ND	3.64	3.08	2.40	XC9572XL-10VQ64C
100-TQFP	144	3200	144	100	5	81	122-1250-ND	15.60	14.25	13.15	XC95144XL-5TQ100C
144-TQFP	144	3200	144	100	5	117	122-1251-ND	16.85	15.40	14.20	XC95144XL-5TQ144C
100-TQFP	144	3200	144	125	7.5	81	122-1252-ND	10.40	9.50	8.75	XC95144XL-7TQ100C

Virtex and Spartan Field Programmable Gate Arrays

The **Virtex FPGA** family delivers high performance, high capacity programmable logic solutions. Dramatic increases in silicon efficiency results from optimizing new architecture for place and route efficiency and exploiting an aggressive 5 layer metal 0.22 µm CMOS process. These advances make Virtex FPGAs powerful and flexible alternatives to mask programmed gate arrays. System performance up to 200 MHz - 66 MHz PCI Compliant-Hot swappable for Compact PCI. The **Virtex-E family** is up to 30% faster than the Virtex family. System performance up to 240 MHz using singled ended SelectI/O+™ technology. Virtex-E devices have up to 640 Kb of faster (250 MHz) block SelectRAM+™, but the individual RAMs are the same size and structure as in the Virtex family. Both Virtex Families are supported by FPGA Foundation™ and Alliance Development Systems.
The **Spartan™-II 2.5V** Field -Programmable Gate Array family gives users high performance, abundant logic resources, and a rich feature set, all at an exceptionally low price. System performance is supported up to 200 MHz. The **Spartan™-II 1.8V** Field Programmable Gate Array is similar to the Spartan-II family but operates at a lower voltage.

Package	Gates	#CLB	I/O Pins	Operating Voltage (V)	Digi-Key Part No.	Price Each 1	25	100	Xilinx Part No.
Virtex Series									
256-BGA	57K	384	180	2.5	122-1212-ND	66.45	59.50	51.40	XCV50-5BG256C
240-PQFP	57K	384	180	2.5	122-1213-ND	66.45	59.50	51.40	XCV50-5PQ240C
240-PQFP	108K	600	180	2.5	122-1214-ND	125.00	112.00	96.35	XCV100-5PQ240C
Virtex-E Series									
240-PQFP	71K	384	176	1.8	122-1215-ND	52.05	47.10	40.90	XCV50E-7PQ240C
352-BGA	128K	600	196	1.8	122-1216-ND	60.45	54.70	47.50	XCV100E-6BG352C
240-PQFP	128K	600	196	1.8	122-1217-ND	55.40	50.15	43.56	XCV100E-6PQ240C
SPARTAN-II Series									
144-TQFP	15K	96	86	2.5	122-1218-ND	10.89	9.08	8.15	XC2S15-5TQ144C
100-VQFP	15K	96	60	2.5	122-1219-ND	9.45	7.88	7.10	XC2S15-5VQ100C
208-PQFP	30K	216	132	2.5	122-1220-ND	18.54	15.45	13.90	XC2S30-5PQ208C
144-TQFP	30K	216	92	2.5	122-1221-ND	15.39	12.83	11.55	XC2S30-5TQ144C
100-VQFP	30K	216	60	2.5	122-1222-ND	13.41	11.18	10.05	XC2S30-5VQ100C
256-FBGA	50K	384	176	2.5	122-1223-ND	22.23	18.53	16.65	XC2S50-5FG256C
208-PQFP	50K	384	140	2.5	122-1224-ND	19.71	16.43	14.75	XC2S50-5PQ208C
144-TQFP	50K	384	92	2.5	122-1225-ND	17.10	14.25	12.85	XC2S50-5TQ144C
256-FBGA	100K	600	176	2.5	122-1226-ND	32.85	27.38	24.65	XC2S100-5FG256C
456-FBGA	100K	600	196	2.5	122-1227-ND	41.31	34.43	31.00	XC2S100-5FG456C
208-PQFP	100K	600	140	2.5	122-1228-ND	26.10	21.75	19.56	XC2S100-5PQ208C
144-TQFP	100K	600	92	2.5	122-1229-ND	23.49	19.58	17.60	XC2S100-5TQ144C
256-FBGA	150K	864	176	2.5	122-1230-ND	36.00	30.00	27.00	XC2S150-5FG256C
456-FBGA	150K	864	260	2.5	122-1231-ND	46.80	39.00	35.10	XC2S150-5FG456C
208-PQFP	150K	864	140	2.5	122-1232-ND	28.80	24.00	21.60	XC2S150-5PQ208C
456-FBGA	200K	1176	284	2.5	122-1233-ND	52.20	43.50	39.11	XC2S200-5FG456C
208-PQFP	200K	1176	140	2.5	122-1234-ND	35.01	29.18	26.25	XC2S200-5PQ208C
SPARTAN-IIE Series									
144-TQFP	50K	384	182	1.8	122-1204-ND	12.25	12.10	11.95	XC2S50E-6TQ144C
208-PQFP	50K	384	182	1.8	122-1205-ND	14.55	14.45	14.20	XC2S50E-6PQ208C
144-TQFP	100K	600	202	1.8	122-1206-ND	15.05	14.85	14.65	XC2S100E-6TQ144C
208-PQFP	100K	600	202	1.8	122-1207-ND	19.15	19.00	18.75	XC2S100E-6PQ208C
256-FBGA	100K	600	202	1.8	122-1208-ND	24.20	24.00	23.65	XC2S100E-6FT256C
208-PQFP	200K	1176	289	1.8	122-1209-ND	24.60	24.30	24.00	XC2S200E-6PQ208C
456-FPGA	200K	1176	289	1.8	122-1210-ND	37.50	37.25	36.70	XC2S200E-6FG456C
208-PQFP	300K	1536	329	1.8	122-1211-ND	38.60	38.35	37.76	XC2S300E-6PQ208C

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XILINX Programmable Gate Arrays

FPGA (Field Programmable Gate Arrays)

A Technical Overview:

Every Xilinx FPGA performs the function of a custom LSI circuit, like a gate array, but the Xilinx device is user-programmable and even reprogrammable in the system.

Xilinx sells standard off-the-shelf devices in many different sizes, speeds, operating temperature ranges and packages.

The user selects the appropriate Xilinx device and then converts the design idea or schematic into a configuration data file, using the Xilinx development system software, and loads this file into the Xilinx FPGA.

XC3000/XC3100
• Replaces TTL, MSI, and other PLD logic • Toggle rates of 70 to 125MHz, delays from 9 to 5.5 ns • Unlimited reprogrammability

XC3000A
• Five device types (1300~7500 gates) • 4-input look-up tables • Flip-flop toggle rate over 110MHz • No on-chip RAM, data storage limited to flip-flops • Use for medium speed, medium complexity applications

XC3100A
• Functionally and bitstream identical with XC3000A series • Five device types (1300~7500 gates) • 4-input look-up tables • No on-chip RAM, data storage limited to flip-flops • Use for high performance design, system clock up to 100MHz

XC4000/XC4000A
• Benefits of custom CMOS VLSI • Gate ranges from 2,000~20,000 • Unlimited reprogrammability

XC4000E
• Ten device types (2,000~25,000 gates) • Dedicated carry network • Function generator can be used as RAM • Use for general purpose logic and data-path logic

XC4000L
• Low voltage version of XC4000E devices (3.0~3.6V)

XC4000EX
• Larger version of the XC4000E family (28,000~125,000 gates) • Increased routing resources • Faster clocking options, more versatile output logic • Use for designs beyond 20,000 gate complexity

XC4000XL
• Low voltage version of the XC4000EX devices (3.0~3.6V)

XC5200
• Low cost FPGA • Dedicated carry structure (no RAM) • Four-input function generators • Use for general purpose logic and data-path logic

Package	Gates	#CLB	I/O Pins	Flip Flops	Operating Voltage (V)	Digi-Key Part No.	Price Each 1	25	100	Xilinx Part No.
XC3000/XC3100 Series										
44-PLCC	3000	100	34	360	4.75 ~ 5.25	122-1011-ND	17.95	15.20	13.10	XC3030-100PC44C
84-PLCC	3000	100	80	360	4.75 ~ 5.25	122-1013-ND	19.00	16.10	13.90	XC3030-100PC84C
84-PLCC	4200	144	74	480	4.75 ~ 5.25	122-1020-ND	22.15	18.75	16.20	XC3042-100PC84C
XC3000A/XC3100A Series										
68-PLCC	2000	64	64	256	4.75 ~ 5.25	122-1009-ND	13.20	11.15	10.35	XC3020A-7PC68C
44-PLCC	3000	100	80	360	4.75 ~ 5.25	122-1017-ND	13.90	11.80	10.95	XC3030A-7PC44C
84-PLCC	3000	100	80	360	4.75 ~ 5.25	122-1018-ND	14.75	12.50	11.60	XC3030A-7PC84C
100-PQFP	3000	100	80	360	4.75 ~ 5.25	122-1019-ND	16.30	13.80	12.80	XC3030A-7PQ100C
84-PLCC	4200	144	96	480	4.75 ~ 5.25	122-1025-ND	19.20	16.25	15.10	XC3042A-7PC84C
100-PQFP	4200	144	96	480	4.75 ~ 5.25	122-1026-ND	21.10	17.85	16.60	XC3042A-7PQ100C
84-PLCC	6400	224	120	688	4.75 ~ 5.25	122-1029-ND	35.65	30.20	28.05	XC3064A-7PC84C
84-PLCC	2000	64	64	256	4.75 ~ 5.25	122-1038-ND	16.65	14.10	13.10	XC3120A-3PC84C
84-PLCC	3000	100	80	360	4.75 ~ 5.25	122-1040-ND	19.10	16.15	15.00	XC3130A-3PC84C
100-PQFP	3000	100	80	360	4.75 ~ 5.25	122-1041-ND	20.70	17.50	16.25	XC3130A-3PQ100C
100-PQFP	4200	144	96	480	4.75 ~ 5.25	122-1044-ND	25.80	21.80	20.26	XC3142A-3PQ100C
84-PLCC	9000	320	144	928	4.75 ~ 5.25	122-1046-ND	53.25	47.70	44.30	XC3190A-3PC84C
144-TQFP	4500	224	120	688	4.75 ~ 5.25	122-1084-ND	37.60	31.85	29.55	XC3164A-3TQ144C
XC4000/XC4000A Series										
160-PQFP	5000	196	112	616	4.75 ~ 5.25	122-1050-ND	105.00	96.55	89.65	XC4005-5PQ160C
84-PLCC	3000	100	61	360	4.75 ~ 5.25	122-1066-ND	55.60	51.30	47.60	XC4003-6PC84C
208-PQFP	8000	324	144	936	4.75 ~ 5.25	122-1070-ND	182.00	168.00	156.00	XC4008-5PQ208C
XC4000E Series										
84-PLCC	3000	100	80	360	4.75 ~ 5.25	122-1086-ND	23.70	21.85	20.30	XC4003E-4PC84C
100-PQFP	3000	100	77	360	4.75 ~ 5.25	122-1087-ND	33.30	30.70	28.50	XC4003E-3PQ100C
84-PLCC	5000	196	61	616	4.75 ~ 5.25	122-1180-ND	26.65	24.75	23.00	XC4005E-4PC84C
100-PQFP	5000	196	112	616	4.75 ~ 5.25	122-1089-ND	53.35	49.20	45.65	XC4005E-3PQ100C
160-PQFP	5000	196	112	616	4.75 ~ 5.25	122-1090-ND	55.60	51.25	47.60	XC4005E-3PQ160C
160-PQFP	5000	196	112	616	4.75 ~ 5.25	122-1091-ND	42.75	39.45	36.61	XC4005E-4PQ160C
208-PQFP	6000	256	128	768	4.75 ~ 5.25	122-1094-ND	82.65	76.20	70.80	XC4006E-3PQ208C
208-PQFP	6000	256	128	768	4.75 ~ 5.25	122-1095-ND	63.60	58.65	54.45	XC4006E-4PQ208C
144-TQFP	6000	256	128	768	4.75 ~ 5.25	122-1096-ND	67.45	62.20	57.80	XC4006E-4TQ144C
160-PQFP	8000	324	144	936	4.75 ~ 5.25	122-1098-ND	72.25	66.65	61.90	XC4008E-4PQ160C
84-PLCC	10000	400	160	1120	4.75 ~ 5.25	122-1101-ND	81.10	75.30	70.00	XC4010E-3PC84C
84-PLCC	10000	400	160	1120	4.75 ~ 5.25	122-1102-ND	62.35	57.90	53.85	XC4010E-4PC84C
160-PQFP	10000	400	160	1120	4.75 ~ 5.25	122-1103-ND	109.00	101.00	93.36	XC4010E-3PQ160C
208-PQFP	10000	400	160	1120	4.75 ~ 5.25	122-1105-ND	176.00	162.01	150.00	XC4010E-2PQ208C
208-PQFP	10000	400	160	1120	4.75 ~ 5.25	122-1106-ND	130.00	120.01	111.00	XC4010E-3PQ208C
208-PQFP	10000	400	160	1120	4.75 ~ 5.25	122-1107-ND	100.00	92.31	85.70	XC4010E-4PQ208C
160-PQFP	13000	576	192	1536	4.75 ~ 5.25	122-1109-ND	102.00	94.40	87.80	XC4013E-4PQ160C
208-PQFP	13000	576	160	1536	4.75 ~ 5.25	122-1111-ND	223.00	207.01	193.00	XC4013E-2PQ208C
208-PQFP	13000	576	160	1536	4.75 ~ 5.25	122-1112-ND	165.00	153.01	143.01	XC4013E-3PQ208C
208-PQFP	13000	576	160	1536	4.75 ~ 5.25	122-1113-ND	127.00	118.00	110.00	XC4013E-4PQ208C
208-HQFP	20000	784	224	2016	4.75 ~ 5.25	122-1114-ND	286.00	266.01	247.01	XC4020E-2HQ208C
240-HQFP	20000	784	193	2016	4.75 ~ 5.25	122-1116-ND	444.00	410.00	380.00	XC4020E-2HQ240C
240-HQFP	20000	784	193	2016	4.75 ~ 5.25	122-1117-ND	329.00	303.00	282.00	XC4020E-3HQ240C
240-HQFP	25000	1024	193	2560	4.75 ~ 5.25	122-1119-ND	376.00	349.02	325.02	XC4025E-2HQ240C
XC4000L Series										
84-PLCC	5000	196	61	616	3.0 ~ 3.6	122-1120-ND	29.50	27.40	25.45	XC4005L-5PC84C
100-PQFP	5000	196	81	616	3.0 ~ 3.6	122-1121-ND	45.75	42.15	39.15	XC4005L-5PQ100C
208-PQFP	5000	196	112	616	3.0 ~ 3.6	122-1122-ND	51.50	47.50	44.11	XC4005L-5PQ208C
84-PLCC	10000	400	61	1120	3.0 ~ 3.6	122-1123-ND	72.00	66.85	62.20	XC4010L-5PC84C
208-PQFP	13000	576	160	1536	3.0 ~ 3.6	122-1125-ND	169.00	157.00	146.00	XC4013L-5PQ208C
XC4000EX Series										
208-HQFP	28000	1024	160	2560	4.75 ~ 5.25	122-1127-ND	244.00	218.00	188.00	XC4028EX-3HQ208C
XC4000XL Series										
240-HQFP	36000	1296	193	3168	3.0 ~ 3.6	122-1129-ND	377.00	338.01	292.00	XC4036XL-1HQ240C
240-HQFP	36000	1296	193	3168	3.0 ~ 3.6	122-1130-ND	279.00	250.00	216.00	XC4036XL-2HQ240C
XC5200 Series										
84-PLCC	3000	64	84	256	4.75 ~ 5.25	122-1131-ND	10.15	8.60	7.40	XC5202-6PC84C
100-PQFP	3000	64	84	256	4.75 ~ 5.25	122-1132-ND	12.35	10.45	9.05	XC5202-6PQ100C
84-PLCC	6000	120	124	480	4.75 ~ 5.25	122-1133-ND	18.45	15.65	13.50	XC5204-6PC84C
160-PQFP	6000	120	124	480	4.75 ~ 5.25	122-1135-ND	24.20	20.50	17.70	XC5204-6PQ160C
100-VQFP	6000	120	124	480	4.75 ~ 5.25	122-1137-ND	21.45	18.15	15.65	XC5204-6VQ100C
84-PLCC	10000	196	148	784	4.75 ~ 5.25	122-1138-ND	37.90	32.05	27.70	XC5206-5PC84C
160-PQFP	10000	196	148	784	4.75 ~ 5.25	122-1140-ND	48.85	41.35	35.70	XC5206-5PQ160C
208-PQFP	10000	196	148	784	4.75 ~ 5.25	122-1142-ND	51.50	43.60	37.65	XC5206-5PQ208C
160-PQFP	16000	324	133	1296	4.75 ~ 5.25	122-1145-ND	92.75	78.45	67.76	XC5210-4PQ160C
160-PQFP	16000	324	196	1296	4.75 ~ 5.25	122-1146-ND	77.25	65.40	56.45	XC5210-5PQ160C
240-PQFP	16000	324	196	1296	4.75 ~ 5.25	122-1151-ND	73.35	62.05	53.60	XC5210-6PQ240C

Serial Configuration Proms

Package	Memory Size	Voltage	Digi-Key Part No.	Price Each 1	25	100	Xilinx Part No.
8-Dip	248K	5	122-1272-ND	9.85	8.30	7.20	XC17S30PD8C
8-Dip	330K	3.3	122-1273-ND	7.30	6.15	5.30	XC17S40XLPD8C
8-Dip	330K	5	122-1275-ND	11.85	10.00	8.65	XC17S40PD8C
8-Dip	36K	5	122-1187-ND	3.45	2.95	2.55	XC1736EPD8C
8-SOIC	36K	5	122-1189-ND	4.15	3.50	3.05	XC1736ESO8C
8-SOIC	36K	5	122-1192-ND	4.15	3.50	3.05	XC1736EVO8C
8-Dip	65K	5	122-1188-ND	4.00	3.40	2.95	XC1765EPD8C
8-SOIC	65K	5	122-1190-ND	4.80	4.05	3.50	XC1765ESO8C
8-SOIC	65K	5	122-1193-ND	4.80	4.05	3.50	XC1765EVO8C
8-SOIC	65K	3	122-1194-ND	5.45	4.60	4.00	XC1765ELVO8C
8-Dip	128K	5	122-1191-ND	6.00	5.40	5.00	XC17128EPD8C
8-SOIC	128K	5	122-1195-ND	6.90	6.20	5.75	XC17128EVO8C
8-SOIC	128K	3	122-1196-ND	6.15	5.50	5.10	XC17128ELVO8C
20-PLCC	128K	5	122-1197-ND	6.90	6.20	5.75	XC17128EJC20C
8-Dip	128K	3	122-1198-ND	5.35	4.75	4.45	XC17128ELPD8C
8-Dip	256K	5	122-1199-ND	11.45	10.25	9.50	XC17256EPD8C
8-SOIC	256K	5	122-1200-ND	13.60	12.20	11.30	XC17256EVO8C
8-Dip	256K	3	122-1201-ND	7.95	7.35	6.85	XC17256ELPD8C
8-SOIC	256K	3	122-1202-ND	8.55	7.95	7.40	XC17256ELVO8C
20-PLCC	256K	5	122-1203-ND	13.60	12.20	11.30	XC17256EPC20C
20-SOIC	256K	3.3	122-1243-ND	11.55	10.75	10.00	XC18V256SO20C
44-PQFP	256K	3.3	122-1244-ND	12.25	11.35	10.55	XC18V256VQ44C
20-PLCC	512K	3.3	122-1239-ND	16.40	13.85	11.95	XC18V512PC20C
20-SOIC	512K	3.3	122-1240-ND	16.40	13.85	11.95	XC18V512SO20C
44-PQFP	512K	3.3	122-1241-ND	16.40	13.85	11.95	XC18V512VQ44C
20-PLCC	1.0M	3.3	122-1236-ND	20.00	16.95	14.65	XC18V01PC20C
20-SOIC	1.0M	3.3	122-1237-ND	20.00	16.95	14.65	XC18V01SO20C
44-PQFP	1.0M	3.3	122-1238-ND	20.00	16.95	14.65	XC18V01VQ44C
44-PLCC	2.0M	3.3	122-1235-ND	23.10	21.45	19.95	XC18V02PC44C
44-PLCC	4.0M	3.3	122-1274-ND	36.40	30.80	26.60	XC18V04PC44C

Parallel Cable IV, PC4

Description	Digi-Key Part No.	Price Each 1	25	100	Xilinx Part No.
Cable Programming for Xilinx Devices	122-1276-ND	135.00	112.50	101.25	HW-PC4

The new Xilinx Parallel Cable IV (PC4) is a high-speed download cable that configures or programs all Xilinx FPGA, CPLD, ISP PROM and System ACE MPM devices.

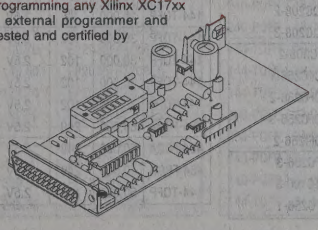
FEATURES: • Download speed of up to 5 Megabits per second (Mb/s) • In-System Programs configures all Xilinx devices: Virtex™ / Virtex-E / Virtex-II / Virtex-II Pro™, Spartan™ / Spartan-XL / Spartan-II / Spartan-IIE / Spartan-3, XC9500™ / XC9500XL / XC9500XV, CoolRunner™ (XPLA3) / CoolRunner-II, XC18V00™ ISP PROM family, XC4000XL™ / XV / EX / E, System ACE™ Multi-Package Module (MPM), Platform Flash PROM family

Roman-Jones, Inc. Xilinx Serial PROM Programmer

The Xilinx Serial PROM Programmer provides a low cost alternative for programming any Xilinx XC17xx Family Serial PROM devices. The programmer product consists of an external programmer and associated interface software. The programmer and software have been tested and certified by Xilinx.

FEATURES:

• Parallel port interface which can be directly connected (if cable is desired - recommend M7PSG-2506J-ND) • Co-exists with printers using an A/B switchbox • No special interface cards required • Operates on 9 volt battery (not included, recommend P145-ND) • Supports ALL Xilinx Serial PROMs • Simple user interface. Easy to use software • Supported under DOS 2.2 or greater, Windows 95/98 and Windows NT 4.0 • Supports both Intel Hex and Binary files generated by Xilinx compilers • **Software not included. Requires downloading from www.roman-jones.com** • **Free updates also available via FTP download**



Description	Digi-Key Part No.	Price Each
Programmer		
SPROM Programmer with 8-Dip ZIF Socket	SPROM-TZS-ND	139.95
Adapters		
8-Pin Dip to 8-Pin SOIC/VOIC	SA1-ND	44.95
8-Pin Dip to 44-Pin VQFP	SA2-ND	95.95
8-Pin Dip to 20-Pin PLCC	SA3-ND	49.95
8-Pin Dip to 20-Pin SOIC	SA4-ND	54.95
8-Pin Dip to 44-Pin PLCC	SA5-ND	64.95

Max II Development Kit

Altera's MAX® II Development Kit enables users to evaluate the MAX II feature set or begin prototyping a design.

Key Benefits:

- Low-cost development kit from Altera
- Flexible, easy-to-use evaluation platform for MAX II devices
- Reference designs that speed register transfer level (RTL) generation

A Complete Design Environment

The development kit includes the MAX II development board along with all the software, cables, and accessories needed to ensure an easy and productive evaluation of the MAX II CPLD.

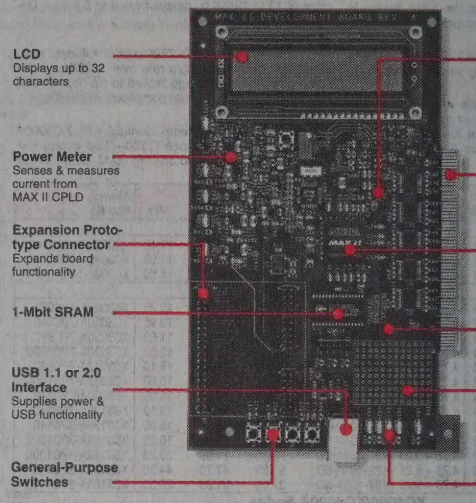
Kit Contents:

- MAX II Development Board
- Quartus® II Web Edition Software Version 4.1 CD-ROM
- MAX II Development Kit CD-ROM
  - PCI Compiler: 32-bit target MegaCore® function (OpenCore® Plus evaluation version)
  - Design examples
    - USB interface to PC reference design with all source files included
      - Control board via PC application
    - LCD controller reference design with all source files included
    - Slot machine game with all Verilog hardware description language (HDL) source files included
      - No PC required
    - Low-power, power-up sequencing, and real-time in-system programming (ISP) demonstrations
- ByteBlaster™ II parallel download cable
- Type A-B USB cable (3 feet)

MegaCore®

QUARTUS® II

MAX II Development Board Details



Order Information

Digi-Key Part No.	Price Each	Altera Part No.
544-1136-ND	150.00	MAXII-DEVKIT-1270

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MAX® II

ALTERA® FPGAs

ACEX:
High-performance embedded RAM blocks that can implement dual-port RAM, ROM, FIFO or logic
- 64-bit, 66-MHz PCI support
- PLLs for clock management
- ClockBoost® feature to multiply the system clock inside the ACEX 1K device
- MultiVolt™ I/O operation

APEX:
With devices ranging from 30,000 to 1.5 million system gates and clock rates up to 840MHz, Altera's APEX™ 20K FPGA family offers complete system-level integration on a single device, leading to extensive cost and performance advantages.

CYCLONE/CYCLONE II:
A low-cost alternative to ASIC's. Cyclone provides a flexible, risk-free option without up-front non-recurring engineering charges. A low-cost solution unmatched by any other FPGA Cyclone II devices offer advanced features such as embedded 18x18 multipliers for high-performance (DSP) applications and support for memory interfaces such as DDR2 (up to 334 Mbps) and QDRII (up to 668 Mbps).

STRATIX:
The device family is based on a 1.5V, 0.13-µm, all-layer-copper process
- up to 79,040 logic elements
- 7 Mbits of embedded memory, optimized (DSP) blocks, and high-performance I/O capabilities.

Package	Gates	I/O Pins	Operating Voltage	Total RAM Bits (K)	Speed	Digi-Key Part No.	Price Each	Altera Part No.
ACEX								
208-PQFP	100,000	147	2.5V	49,152	Fast	544-1000-ND	63.00	EP1K100QC208-1
208-PQFP	100,000	147	2.5V	49,152	Medium	544-1001-ND	43.00	EP1K100QC208-2
208-PQFP	100,000	147	2.5V	49,152	Slow	544-1002-ND	31.50	EP1K100QC208-3
208-PQFP	100,000	147	2.5V	49,152	Medium	544-1003-ND	60.00	EP1K100QI208-2
208-PQFP	30,000	147	2.5V	24,576	Fast	544-1004-ND	33.50	EP1K30QC208-1
208-PQFP	30,000	147	2.5V	24,576	Medium	544-1005-ND	22.50	EP1K30QC208-2
208-PQFP	30,000	147	2.5V	24,576	Slow	544-1006-ND	16.75	EP1K30QC208-3
208-PQFP	50,000	147	2.5V	40,960	Fast	544-1007-ND	45.00	EP1K50QC208-1
208-PQFP	50,000	147	2.5V	40,960	Medium	544-1008-ND	30.50	EP1K50QC208-2
208-PQFP	50,000	147	2.5V	40,960	Slow	544-1009-ND	22.50	EP1K50QC208-3
208-PQFP	50,000	147	2.5V	40,960	Medium	544-1010-ND	45.00	EP1K50IC208-2
256-FBGA	100,000	186	2.5V	49,152	Fast	544-1022-ND	79.00	EP1K100FC256-1
256-FBGA	100,000	186	2.5V	49,152	Medium	544-1023-ND	53.00	EP1K100FC256-2
256-FBGA	100,000	186	2.5V	49,152	Slow	544-1024-ND	39.50	EP1K100FC256-3
256-FBGA	100,000	186	2.5V	49,152	Medium	544-1025-ND	79.00	EP1K100FI256-2
256-FBGA	10,000	136	2.5V	12,288	Slow	544-1026-ND	13.00	EP1K10FC256-3
100-TQFP	10,000	66	2.5V	12,288	Slow	544-1027-ND	8.80	EP1K10TC100-3
256-FBGA	30,000	171	2.5V	24,576	Fast	544-1028-ND	38.00	EP1K30FC256-1

STRATIX II:
Based on a 1.2V, 90 nm, SRAM process, with densities from 15,600 to 179,400 logic elements. Up to 9 Mbits of on-chip RAM. Up to 12 PLLs and 16 global clock networks. Up to 384 embedded multipliers in DSP blocks, source-synchronous differential signaling with dedicated (DPA) circuitry operating at up to 1.040 Gbps.
- Dedicated serializer/deserializer (SERDES) circuitry to support the LVDS and HyperTransport™ differential I/O electrical standards, supports 10 Gigabit Ethernet XSBI, SFI-4, SPI-4.2, HyperTransport, RadioIO™ and UTOPIA IV standards.

***NEW!* FLEX 10K®:**
Embedded programmable logic family delivers the flexibility of traditional programmable logic together with the efficiency and density of embedded gate arrays. Ranging from 10,000 to 250,000 typical gates, and up to 204-MHz system speed. FLEX 10K devices are specifically designed to meet the demands of mid-density gate array designs.

***NEW!* FLEX 6000®:**
Programmable logic device family delivers the flexibility and time-to-market of programmable logic at prices that are competitive with gate arrays. Featuring the industry's most efficient architecture (OptiFLEX, FLEX 6000 devices provide a flexible and cost-effective alternative to ASICs for high-volume production.

Package	Gates	I/O Pins	Operating Voltage	Total RAM Bits (K)	Speed	Digi-Key Part No.	Price Each	Altera Part No.
256-FBGA	30,000	171	2.5V	24,576	Slow	544-1029-ND	19.00	EP1K30FC256-3
256-FBGA	50,000	186	2.5V	40,960	Fast	544-1030-ND	57.00	EP1K50FC256-1
256-FBGA	50,000	186	2.5V	40,960	Medium	544-1031-ND	38.50	EP1K50FC256-2
256-FBGA	50,000	186	2.5V	40,960	Slow	544-1032-ND	28.50	EP1K50FC256-3
256-FBGA	50,000	186	2.5V	40,960	Medium	544-1033-ND	57.00	EP1K50FI256-2
484-FBGA	100,000	333	2.5V	49,152	Fast	544-1060-ND	103.00	EP1K100FC484-1
484-FBGA	100,000	333	2.5V	49,152	Medium	544-1061-ND	69.00	EP1K100FC484-2
484-FBGA	100,000	333	2.5V	49,152	Slow	544-1062-ND	52.00	EP1K100FC484-3
484-FBGA	100,000	333	2.5V	49,152	Medium	544-1063-ND	97.00	EP1K100FI484-2
144-TQFP	10,000	92	2.5V	12,288	Slow	544-1064-ND	10.25	EP1K10TC144-3
144-TQFP	30,000	102	2.5V	24,576	Fast	544-1065-ND	29.00	EP1K30TC144-1
144-TQFP	30,000	102	2.5V	24,576	Medium	544-1066-ND	19.75	EP1K30TC144-2
144-TQFP	30,000	102	2.5V	24,576	Slow	544-1067-ND	14.50	EP1K30TC144-3
144-TQFP	30,000	102	2.5V	24,576	Medium	544-1068-ND	29.00	EP1K30TI144-2
484-FBGA	50,000	249	2.5V	40,960	Fast	544-1069-ND	72.00	EP1K50FC484-1
484-FBGA	50,000	249	2.5V	40,960	Medium	544-1070-ND	49.00	EP1K50FC484-2
484-FBGA	50,000	249	2.5V	40,960	Slow	544-1071-ND	35.00	EP1K50FC484-3
144-TQFP	50,000	102	2.5V	40,960	Fast	544-1072-ND	41.00	EP1K50TC144-1

(Continued)

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Package	Gates	I/O Pins	Operating Voltage	Total RAM Bits (K)	Speed	Digi-Key Part No.	Price Each	Altera Part No.
144-TQFP	50,000	102	2.5V	40,960	Medium	544-1073-ND	27.50	EP1K50TC144-2
144-TQFP	50,000	102	2.5V	40,960	Slow	544-1074-ND	20.50	EP1K50TC144-3
144-TQFP	50,000	102	2.5V	40,960	Medium	544-1075-ND	41.00	EP1K50TI144-2
208-PQFP	10,000	120	2.5V	12,288	Slow	544-1090-ND	11.50	EP1K10QC208-3
APEX								
356-BGA	100,000	246	1.8V	53,248	Slow	544-1091-ND	90.00	EP20K100EBC356-3
324-FBGA	100,000	246	1.8V	53,248	Slow	544-1092-ND	82.00	EP20K100EFC324-3
240-PQFP	100,000	183	1.8V	53,248	Slow	544-1093-ND	72.00	EP20K100EQC240-3
240-PQFP	100,000	189	2.5V	53,248	Slow	544-1094-ND	72.00	EP20K100QC240-3
240-PQFP	200,000	168	1.8V	106,496	Slow	544-1095-ND	180.00	EP20K200EQC240-3
484-FBGA	200,000	376	1.8V	106,496	Fast	544-1096-ND	392.00	EP20K200EFC484-1
484-FBGA	200,000	376	1.8V	106,496	Fast	544-1097-ND	402.00	EP20K200EFC484-1X
484-FBGA	200,000	376	1.8V	106,496	Medium	544-1098-ND	284.00	EP20K200EFC484-2X
484-FBGA	200,000	376	1.8V	106,496	Slow	544-1099-ND	196.00	EP20K200EFC484-3
672-FBGA	400,000	488	1.8V	212,992	Fast	544-1102-ND	1160.00	EP20K400EFC672-1X
672-FBGA	400,000	488	1.8V	212,992	Slow	544-1103-ND	380.00	EP20K400EFC672-3
652-BGA	400,000	488	1.8V	212,992	Slow	544-1135-ND	390.00	EP20K400EBC652-3
CYCLONE								
256-FBGA	12,060	185	1.5V	239,616	Medium	544-1011-ND	44.80	EP1C12F256C7
256-FBGA	12,060	185	1.5V	239,616	Slow	544-1012-ND	37.30	EP1C12F256C8
256-FBGA	12,060	185	1.5V	239,616	Medium	544-1013-ND	56.00	EP1C12F256I7
100-TQFP	2,910	65	1.5V	59,904	Fast	544-1014-ND	16.00	EP1C3T100C6
100-TQFP	2,910	65	1.5V	59,904	Medium	544-1015-ND	12.80	EP1C3T100C7
100-TQFP	2,910	65	1.5V	59,904	Slow	544-1016-ND	10.70	EP1C3T100C8
100-TQFP	2,910	65	1.5V	59,904	Medium	544-1017-ND	16.00	EP1C3T100I7
256-FBGA	5,980	185	1.5V	92,160	Fast	544-1018-ND	32.40	EP1C6F256C6
256-FBGA	5,980	185	1.5V	92,160	Medium	544-1019-ND	25.90	EP1C6F256C7
256-FBGA	5,980	185	1.5V	92,160	Slow	544-1020-ND	21.60	EP1C6F256C8
256-FBGA	5,980	185	1.5V	92,160	Medium	544-1021-ND	32.40	EP1C6F256I7
324-FBGA	12,060	249	1.5V	239,616	Fast	544-1034-ND	58.70	EP1C12F324C6
324-FBGA	12,060	249	1.5V	239,616	Medium	544-1035-ND	46.90	EP1C12F324C7
324-FBGA	12,060	249	1.5V	239,616	Slow	544-1036-ND	39.10	EP1C12F324C8
324-FBGA	12,060	249	1.5V	239,616	Medium	544-1037-ND	58.70	EP1C12F324I7
324-FBGA	20,060	233	1.5V	294,912	Fast	544-1038-ND	90.00	EP1C20F324C6
324-FBGA	20,060	233	1.5V	294,912	Medium	544-1039-ND	72.00	EP1C20F324C7
324-FBGA	20,060	233	1.5V	294,912	Slow	544-1040-ND	60.00	EP1C20F324C8
324-FBGA	20,060	233	1.5V	294,912	Medium	544-1041-ND	90.00	EP1C20F324I7
324-FBGA	4,000	249	1.5V	78,336	Fast	544-1042-ND	28.80	EP1C4F324C6
324-FBGA	4,000	249	1.5V	78,336	Medium	544-1043-ND	23.10	EP1C4F324C7
324-FBGA	4,000	249	1.5V	78,336	Slow	544-1044-ND	19.20	EP1C4F324C8
324-FBGA	4,000	249	1.5V	78,336	Medium	544-1045-ND	28.80	EP1C4F324I7
400-FBGA	20,060	301	1.5V	294,912	Fast	544-1046-ND	98.70	EP1C20F400C6
400-FBGA	20,060	301	1.5V	294,912	Medium	544-1047-ND	78.90	EP1C20F400C7
400-FBGA	20,060	301	1.5V	294,912	Slow	544-1048-ND	65.70	EP1C20F400C8
400-FBGA	20,060	301	1.5V	294,912	Medium	544-1049-ND	98.70	EP1C20F400I7
144-TQFP	2,910	104	1.5V	59,904	Fast	544-1050-ND	18.40	EP1C3T144C6
144-TQFP	2,910	104	1.5V	59,904	Medium	544-1051-ND	14.70	EP1C3T144C7
144-TQFP	2,910	104	1.5V	59,904	Slow	544-1052-ND	12.30	EP1C3T144C8
144-TQFP	2,910	104	1.5V	59,904	Medium	544-1053-ND	18.40	EP1C3T144I7
400-FBGA	4,000	301	1.5V	78,336	Fast	544-1054-ND	34.70	EP1C4F400C6
400-FBGA	4,000	301	1.5V	78,336	Slow	544-1055-ND	23.10	EP1C4F400C8
144-TQFP	5,980	98	1.5V	92,160	Fast	544-1056-ND	26.30	EP1C6T144C6
144-TQFP	5,980	98	1.5V	92,160	Medium	544-1057-ND	20.90	EP1C6T144C7
144-TQFP	5,980	98	1.5V	92,160	Slow	544-1058-ND	17.50	EP1C6T144C8
144-TQFP	5,980	98	1.5V	92,160	Medium	544-1059-ND	26.30	EP1C6T144I7
240-PQFP	12,060	173	1.5V	239,616	Fast	544-1079-ND	53.20	EP1C12Q240C6
240-PQFP	12,060	173	1.5V	239,616	Medium	544-1080-ND	42.50	EP1C12Q240C7
240-PQFP	12,060	173	1.5V	239,616	Slow	544-1081-ND	35.50	EP1C12Q240C8
240-PQFP	12,060	173	1.5V	239,616	Medium	544-1082-ND	53.20	EP1C12Q240I7
240-PQFP	5,980	185	1.5V	92,160	Fast	544-1083-ND	28.40	EP1C6Q240C6
240-PQFP	5,980	185	1.5V	92,160	Medium	544-1084-ND	22.70	EP1C6Q240C7
240-PQFP	5,980	185	1.5V	92,160	Slow	544-1085-ND	18.90	EP1C6Q240C8
240-PQFP	5,980	185	1.5V	92,160	Medium	544-1086-ND	28.40	EP1C6Q240I7
CYCLONE II								
484-FBGA	33,216	322	1.2V	483,840	Fast	544-1076-ND	136.00	EP2C35F484C6ES
484-FBGA	33,216	322	1.2V	483,840	Medium	544-1077-ND	113.30	EP2C35F484C7ES
484-FBGA	33,216	322	1.2V	483,840	Slow	544-1078-ND	90.70	EP2C35F484C8ES
672-FBGA	33,216	475	1.2V	483,840	Fast	544-1087-ND	149.60	EP2C35F672C6ES
672-FBGA	33,216	475	1.2V	483,840	Medium	544-1088-ND	124.70	EP2C35F672C7ES
672-FBGA	33,216	475	1.2V	483,840	Slow	544-1089-ND	99.70	EP2C35F672C8ES
STRATIX								
484-FBGA	10,570	335	1.5V	920,448	Slow	544-1100-ND	205.00	EP1S10F484C7
484-FBGA	18,460	361	1.5V	1,669,248	Slow	544-1101-ND	350.00	EP1S20F484C7
672-FBGA	10,570	345	1.5V	920,448	Medium	544-1108-ND	265.00	EP1S10F672C6
672-FBGA	10,570	345	1.5V	920,448	Slow	544-1109-ND	190.00	EP1S10F672C7
672-FBGA	10,570	345	1.5V	920,448	Slow	544-1110-ND	265.00	EP1S10F672I7
780-FBGA	10,570	426	1.5V	920,448	Medium	544-1111-ND	315.00	EP1S10F780C6
780-FBGA	10,570	426	1.5V	920,448	Slow	544-1112-ND	225.00	EP1S10F780C7
672-FBGA	18,460	426	1.5V	1,669,248	Slow	544-1113-ND	325.00	EP1S20F672C7
780-FBGA	18,460	586	1.5V	1,669,248	Fast	544-1114-ND	760.00	EP1S20F780C5
780-FBGA	18,460	586	1.5V	1,669,248	Medium	544-1115-ND	530.00	EP1S20F780C6
780-FBGA	18,460	586	1.5V	1,669,248	Slow	544-1116-ND	380.00	EP1S20F780C7
672-FBGA	25,660	473	1.5V	1,944,576	Medium	544-1117-ND	760.00	EP1S25F672C6
672-FBGA	25,660	473	1.5V	1,944,576	Slow	544-1118-ND	545.00	EP1S25F672C7
672-FBGA	25,660	473	1.5V	1,944,576	Slow	544-1119-ND	460.00	EP1S25F672C8
780-FBGA	25,660	597	1.5V	1,944,576	Fast	544-1120-ND	1225.00	EP1S25F780C5
780-FBGA	25,660	597	1.5V	1,944,576	Medium	544-1121-ND	860.00	EP1S25F780C6
780-FBGA	25,660	597	1.5V	1,944,576	Slow	544-1122-ND	610.00	EP1S25F780C7
1020-FBGA	25,660	706	1.5V	1,944,576	Slow	544-1129-ND	660.00	EP1S25F1020C7
STRATIX II								
484-FBGA	15,600	342	1.2V	419,328	Medium	544-1104-ND	235.00	EP2S15F484C4
484-FBGA	15,600	342	1.2V	419,328	Slow	544-1105-ND	190.00	EP2S15F484C5
484-FBGA	33,880	342	1.2V	1,369,728	Medium	544-1106-ND	505.00	EP2S30F484C4
484-FBGA	33,880	342	1.2V	1,369,728	Slow	544-1107-ND	405.00	EP2S30F484C5
672-FBGA	15,600	366	1.2V	419,328	Medium	544-1123-ND	265.00	EP2S15F672C4
672-FBGA	15,600	366	1.2V	419,328	Slow	544-1124-ND	215.00	EP2S15F672C5
672-FBGA	33,880	500	1.2V	1,369,728	Medium	544-1125-ND	560.00	EP2S30F672C4
672-FBGA	33,880	500	1.2V	1,369,728	Slow	544-1126-ND	450.00	EP2S30F672C5
672-FBGA	60,440	492	1.2V	2,544,192	Medium	544-1127-ND	1035.00	EP2S60F672C4
672-FBGA	60,440	492	1.2V	2,544,192	Slow	544-1128-ND	830.00	EP2S60F672C5
1020-FBGA	60,440	718	1.2V	2,544,192	Fast	544-1130-ND	1440.00	EP2S60F1020C3
1020-FBGA	60,440	718	1.2V	2,544,192	Medium	544-1131-ND	1125.00	EP2S60F102C4
1020-FBGA	60,440	718	1.2V	2,544,192	Slow	544-1132-ND	900.00	EP2S60F1020C5
484-FBGA	60,440	334	1.2V	2,544,192	Medium	544-1133-ND	950.00	EP2S60F484C4
484-FBGA	60,440	334	1.2V	2,544,192	Slow	544-1134-ND	760.00	EP2S60F484C5
NEW! FLEX 10K NEW!								
240-RQFP	158,000	189	5.0V	24,576	Fast	544-1248-ND	470.00	EPF10K100ARC240-1
240-RQFP	158,000	189	5.0V	24,576	Medium	544-1249-ND	310.00	EPF10K100ARC240-2
240-RQFP	158,000	189	5.0V	24,576	Slow	544-1250-ND	232.00	EPF10K100ARC240-3
240-RQFP	158,000	189	5.0V	24,576	Slow	544-1251-ND	324.00	EPF10K100ARI240-3
240-PQFP	257,000	189	2.5V	49,152	Fast	544-1252-ND	360.00	EPF10K100EQC240-1
240-PQFP	257,000	189	2.5V	49,152	Medium	544-1253-ND	244.00	EPF10K100EQC240-2
240-PQFP	257,000	189	2.5V	49,152	Slow	544-1254-ND	180.00	EPF10K100EQC240-3
208-PQFP	31,000	134	3.3V	6,144	Slow	544-1255-ND	34.00	EPF10K10AQC208-3
144-TQFP	31,000	102	3.3V	6,144	Slow	544-1256-ND	31.00	EPF10K10ATC144-3
208-PQFP	69,000	147	3.3V	12,288	Medium	544-1257-ND	86.00	EPF10K30AQC208-2
208-PQFP	69,000	147	3.3V	12,288	Slow	544-1258-ND	64.00	EPF10K30AQC208-3
240-PQFP	69,000	189	3.3V	12,288	Fast	544-1259-ND	138.00	EPF10K30AQC240-1
240-PQFP	69,000	189	3.3V	12,288	Medium	544-1260-ND	96.00	EPF10K30AQC240-2
240-PQFP	69,000	189	3.3V	12,288	Slow	544-1261-ND	70.00	EPF10K30AQC240-3
240-PQFP	69,000	189	3.3V	12,288	Slow	544-1262-ND	98.00	EPF10K30AQI240-3
144-TQFP	69,000	102	3.3V	12,288	Fast	544-1263-ND	124.00	EPF10K30ATC144-1
144-TQFP	69,000	102	3.3V	12,288	Slow	544-1264-ND	62.00	EPF10K30ATC144-3
144-TQFP	69,000	102	3.3V	12,288	Slow	544-1265-ND	86.00	EPF10K30ATI144-3
208-PQFP	119,000	147	2.5V	24,576	Slow	544-1266-ND	56.00	EPF10K30EQC208-3
144-TQFP	119,000	102	2.5V	24,576	Slow	544-1267-ND	50.00	EPF10K30ETC144-3
240-PQFP	199,000	189	2.5V	40,960	Fast	544-1268-ND	252.00	EPF10K50EQC240-1
240-PQFP	199,000	189	2.5V	40,960	Medium	544-1269-ND	172.00	EPF10K50EQC240-2
240-PQFP	199,000	189	2.5V	40,960	Slow	544-1270-ND	126.00	EPF10K50EQC240-3
NEW! FLEX 6000 NEW!								
100-TQRF	10,000	71	3.3V	—	Slow	544-1271-ND	13.50	EPF6010ATC100-3
208-PQFP	16,000	171	3.3V	—	Medium	544-1272-ND	32.50	EPF6016AQC208-2
208-PQFP	16,000	171	3.3V	—	Slow	544-1273-ND	22.95	EPF6016AQC208-3
100-TQFP	16,000	81	3.3V	—	Slow	544-1274-ND	18.95	EPF6016ATC100-3
144-TQFP	16,000	117	3.3V	—	Medium	544-1275-ND	28.00	EPF6016ATC144-2
144-TQFP	16,000	117	3.3V	—	Slow	544-1276-ND	19.95	EPF6016ATC144-3
208-PQFP	16,000	171	5.0V	—	Medium	544-1277-ND	32.50	EPF6016QC208-2
208-PQFP	16,000	171	5.0V	—	Slow	544-1278-ND	22.95	EPF6016QC208-3
240-PQFP	16,000	199	5.0V	—	Medium	544-1279-ND	35.00	EPF6016QC240-2
240-PQFP	16,000	199	5.0V	—	Slow	544-1280-ND	24.95	EPF6016QC240-3
144-TQFP	16,000	117	5.0V	—	Medium	544-1281-ND	28.00	EPF6016TC144-2
144-TQFP	16,000	117	5.0V	—	Slow	544-1282-ND	19.95	EPF6016TC144-3
144-TQFP	16,000	117	5.0V	—	Slow	544-1283-ND	28.00	EPF6016TI144-3
208-PQFP	24,000	171	3.3V	—	Medium	544-1284-ND	47.00	EPF6024AQC208-2
208-PQFP	24,000	171	3.3V	—	Slow	544-1285-ND	33.50	EPF6024AQC208-3
240-PQFP	24,000	199	3.3V	—	Medium	544-1286-ND	50.50	EPF6024AQC240-2
240-PQFP	24,000	199	3.3V	—	Slow	544-1287-ND	36.00	EPF6024AQC240-3
144-TQFP	24,000	117	3.3V	—	Slow	544-1288-ND	29.95	EPF6024ATC144-3

ALTERA® CPLDs

Altera's Max families include the cost-optimized MAX 3000 and the high-performance MAX 7000 CPLD's, each of which offers densities, packages and speed grades to meet a variety of design needs. Altera's MAX CPLD's are non-volatile, single-chip solutions that do not require additional configuration devices. This means that they can be pre-programmed and reprogrammed using in-system programmability (ISP) and will retain the programming algorithm securely, even when the device is powered off.

B

Package	Macro Cells	Logic Elements	Pin-Pin Delay (ns)	I/O Pins	Voltage	Speed (NS)	Digi-Key Part No.	Price Each	Altera Part No.
NEW! MAX II NEW!									
100-TQFP	192	240	4.7	80	3.3V or 2.5V	3	544-1144-ND	11.90	EPM240T100C3
100-TQFP	192	240	4.7	80	3.3V or 2.5V	4	544-1145-ND	8.30	EPM240T100C4
100-TQFP	192	240	4.7	80	3.3V or 2.5V	5	544-1146-ND	6.00	EPM240T100C5
100-TQFP	192	240	4.7	80	1.8V	3	544-1147-ND	11.90	EPM240GT100C3
100-TQFP	192	240	4.7	80	1.8V	4	544-1148-ND	8.30	EPM240GT100C4
100-TQFP	192	240	4.7	80	1.8V	5	544-1149-ND	6.00	EPM240GT100C5
256-FBGA	440	570	5.5	160	3.3V or 2.5V	3	544-1294-ND	43.30	EPM570F256C3
256-FBGA	440	570	5.5	160	3.3V or 2.5V	4	544-1295-ND	30.30	EPM570F256C4
256-FBGA	440	570	5.5	160	3.3V or 2.5V	5	544-1296-ND	21.70	EPM570F256C5
100-TQFP	440	570	5.5	76	3.3V or 2.5V	3	544-1297-ND	26.70	EPM570T100C3
100-TQFP	440	570	5.5	76	3.3V or 2.5V	4	544-1298-ND	18.70	EPM570T100C4
100-TQFP	440	570	5.5	76	3.3V or 2.5V	5	544-1299-ND	13.30	EPM570T100C5
144-TQFP	440	570	5.5	116	3.3V or 2.5V	3	544-1300-ND	36.10	EPM570T144C3
144-TQFP	440	570	5.5	116	3.3V or 2.5V	4	544-1301-ND	25.30	EPM570T144C4
144-TQFP	440	570	5.5	116	3.3V or 2.5V	5	544-1302-ND	18.10	EPM570T144C5
256-FBGA	440	570	5.5	160	1.8V	3	544-1303-ND	43.30	EPM570GF256C3
256-FBGA	440	570	5.5	160	1.8V	4	544-1304-ND	30.30	EPM570GF256C4
256-FBGA	440	570	5.5	160	1.8V	5	544-1305-ND	21.70	EPM570GF256C5
100-TQFP	440	570	5.5	76	1.8V	3	544-1306-ND	26.70	EPM570GT100C3
100-TQFP	440	570	5.5	76	1.8V	4	544-1307-ND	18.70	EPM570GT100C4
100-TQFP	440	570	5.5	76	1.8V	5	544-1308-ND	13.30	EPM570GT100C5
144-TQFP	440	570	5.5	116	1.8V	3	544-1309-ND	36.10	EPM570GT144C3
144-TQFP	440	570	5.5	116	1.8V	4	544-1310-ND	25.30	EPM570GT144C4
144-TQFP	440	570	5.5	116	1.8V	5	544-1311-ND	18.10	EPM570GT144C5
256-FBGA	440	570	5.5	160	3.3V or 2.5V	3	544-1312-ND	47.60	EPM570F256C3N
256-FBGA	440	570	5.5	160	3.3V or 2.5V	4	544-1313-ND	33.33	EPM570F256C4N
256-FBGA	440	570	5.5	160	3.3V or 2.5V	5	544-1314-ND	23.81	EPM570F256C5N
100-TQFP	440	570	5.5	76	3.3V or 2.5V	3	544-1315-ND	29.33	EPM570T100C3N
100-TQFP	440	570	5.5	76	3.3V or 2.5V	4	544-1316-ND	20.58	EPM570T100C4N
100-TQFP	440	570	5.5	76	3.3V or 2.5V	5	544-1317-ND	14.71	EPM570T100C5N
144-TQFP	440	570	5.5	116	3.3V or 2.5V	3	544-1318-ND	39.70	EPM570T144C3N
144-TQFP	440	570	5.5	116	3.3V or 2.5V	4	544-1319-ND	27.83	EPM570T144C4N
144-TQFP	440	570	5.5	116	3.3V or 2.5V	5	544-1320-ND	19.90	EPM570T144C5N
256-FBGA	980	1,270	6.1	212	3.3V or 2.5V	4	544-1140-ND	42.00	EPM1270F256C4
256-FBGA	980	1,270	6.1	212	3.3V or 2.5V	5	544-1141-ND	30.00	EPM1270F256C5
144-TQFP	980	1,270	6.1	116	3.3V or 2.5V	4	544-1142-ND	33.80	EPM1270T144C4
144-TQFP	980	1,270	6.1	116	3.3V or 2.5V	5	544-1143-ND	24.20	EPM1270T144C5
256-FBGA	980	1,270	6.3	212	3.3V or 2.5V	3	544-1321-ND	60.00	EPM1270F256C3
144-TQFP	980	1,270	6.3	116	3.3V or 2.5V	3	544-1324-ND	48.30	EPM1270T144C3
256-FBGA	980	1,270	6.3	212	1.8V	3	544-1327-ND	60.00	EPM1270GF256C3
256-FBGA	980	1,270	6.3	212	1.8V	4	544-1328-ND	42.00	EPM1270GF256C4
256-FBGA	980	1,270	6.3	116	1.8V	5	544-1329-ND	30.00	EPM1270GF256C5
144-TQFP	980	1,270	6.3	116	1.8V	3	544-1330-ND	48.30	EPM1270GT144C3
144-TQFP	980	1,270	6.3	116	1.8V	4	544-1331-ND	33.80	EPM1270GT144C4
144-TQFP	980	1,270	6.3	116	1.8V	5	544-1332-ND	24.20	EPM1270GT144C5
256-FBGA	980	1,270	6.3	116	3.3V or 2.5V	5	544-1333-ND	24.20	EPM1270T144C5N
256-FBGA	980	1,270	6.3	116	3.3V or 2.5V	4	544-1334-ND	33.80	EPM1270T144C4N
256-FBGA	980	1,270	6.3	116	3.3V or 2.5V	3	544-1335-ND	48.30	EPM1270T144C3N
144-TQFP	980	1,270	6.3	212	3.3V or 2.5V	5	544-1336-ND	30.00	EPM1270F256C5N
144-TQFP	980	1,270	6.3	212	3.3V or 2.5V	4	544-1337-ND	42.00	EPM1270F256C4N
144-TQFP	980	1,270	6.3	212	3.3V or 2.5V	3	544-1338-ND	60.00	EPM1270F256C3N
256-FBGA	1,700	2,210	7.1	204	3.3V or 2.5V	5	544-1339-ND	40.70	EPM2210F256C5
256-FBGA	1,700	2,210	7.1	204	3.3V or 2.5V	4	544-1340-ND	57.00	EPM2210F256C4
256-FBGA	1,700	2,210	7.1	204	3.3V or 2.5V	3	544-1341-ND	81.40	EPM2210F256C3
324-FBGA	1,700	2,210	7.1	272	3.3V or 2.5V	5	544-1342-ND	46.40	EPM2210F324C5
324-FBGA	1,700	2,210	7.1	272	3.3V or 2.5V	4	544-1343-ND	64.90	EPM2210F324C4
324-FBGA	1,700	2,210	7.1	272	3.3V or 2.5V	3	544-1344-ND	92.80	EPM2210F324C3
256-FBGA	1,700	2,210	7.1	204	1.8V	5	544-1348-ND	40.70	EPM2210GF256C5
256-FBGA	1,700	2,210	7.1	204	1.8V	4	544-1349-ND	57.00	EPM2210GF256C4
256-FBGA	1,700	2,210	7.1	204	1.8V	3	544-1350-ND	81.40	EPM2210GF256C3
256-FBGA	1,700	2,210	7.1	204	3.3V or 2.5V	5	544-1354-ND	40.70	EPM2210F256C5N
256-FBGA	1,700	2,210	7.1	204	3.3V or 2.5V	4	544-1355-ND	57.00	EPM2210F256C4N
256-FBGA	1,700	2,210	7.1	204	3.3V or 2.5V	3	544-1356-ND	81.40	EPM2210F256C3N
324-FBGA	1,700	2,210	7.1	272	1.8V	3	544-1357-ND	92.80	EPM2210GF324C3
324-FBGA	1,700	2,210	7.1	272	1.8V	4	544-1358-ND	64.90	EPM2210GF324C4
324-FBGA	1,700	2,210	7.1	272	1.8V	5	544-1359-ND	46.40	EPM2210GF324C5

Package	Macro Cells	Logic Elements	Pin-Pin Delay (ns)	I/O Pins	Voltage	Speed (NS)	Digi-Key Part No.	Price Each	Altera Part No.
MAX 3000A									
44-PLCC	32	600	4.5	34	3.3V	10	544-1150-5-ND*	1.20	EPM3032ALC44-10
44-TQFP	32	600	4.5	34	3.3V	10	544-1151-ND	1.40	EPM3032ATC44-10
44-TQFP	32	600	4.5	34	3.3V	4	544-1152-ND	2.40	EPM3032ATC44-4
44-TQFP	32	600	4.5	34	3.3V	7	544-1153-ND	1.45	EPM3032ATC44-7
44-TQFP	32	600	4.5	34	3.3V	10	544-1154-ND	1.45	EPM3032ATI44-10
44-PLCC	64	1,250	4.5	34	3.3V	10	544-1155-5-ND*	2.10	EPM3064ALC44-10
100-TQFP	64	1,250	4.5	66	3.3V	10	544-1156-ND	3.10	EPM3064ATC100-10
100-TQFP	64	1,250	4.5	66	3.3V	4	544-1157-ND	5.90	EPM3064ATC100-4
100-TQFP	64	1,250	4.5	66	3.3V	7	544-1158-ND	3.75	EPM3064ATC100-7
44-TQFP	64	1,250	4.5	34	3.3V	10	544-1159-ND	2.55	EPM3064ATC44-10
44-TQFP	64	1,250	4.5	34	3.3V	4	544-1160-ND	5.35	EPM3064ATC44-4
44-TQFP	64	1,250	4.5	34	3.3V	7	544-1161-ND	2.90	EPM3064ATC44-7
44-TQFP	64	1,250	4.5	34	3.3V	10	544-1162-ND	2.90	EPM3064ATI44-10
100-TQFP	128	2,500	5.0	80	3.3V	10	544-1163-ND	8.60	EPM3128ATC100-10
100-TQFP	128	2,500	5.0	80	3.3V	5	544-1164-ND	18.75	EPM3128ATC100-5
100-TQFP	128	2,500	5.0	80	3.3V	7	544-1165-ND	11.75	EPM3128ATC100-7
144-TQFP	128	2,500	5.0	96	3.3V	10	544-1166-ND	9.20	EPM3128ATC144-10
144-TQFP	128	2,500	5.0	96	3.3V	5	544-1167-ND	20.00	EPM3128ATC144-5
144-TQFP	128	2,500	5.0	96	3.3V	7	544-1168-ND	12.75	EPM3128ATC144-7
100-TQFP	128	2,500	5.0	80	3.3V	10	544-1169-ND	11.75	EPM3128ATI100-10
208-PQFP	256	5,000	7.5	158	3.3V	10	544-1170-ND	20.00	EPM3256AQC208-10
208-PQFP	256	5,000	7.5	158	3.3V	7	544-1171-ND	26.00	EPM3256AQC208-7
144-TQFP	256	5,000	7.5	116	3.3V	10	544-1172-ND	19.25	EPM3256ATC144-10
144-TQFP	256	5,000	7.5	116	3.3V	7	544-1173-ND	22.75	EPM3256ATC144-7
144-TQFP	256	5,000	7.5	116	3.3V	10	544-1174-ND	22.75	EPM3256ATI144-10
208-PQFP	512	10,000	7.5	172	3.3V	10	544-1175-ND	42.50	EPM3512AQC208-10
208-PQFP	512	10,000	7.5	172	3.3V	7	544-1176-ND	55.00	EPM3512AQC208-7
MAX 7000									
44-PLCC	32	600	5.0	36	5.0V	10	544-1182-5-ND*	5.00	EPM7032SLC44-10
44-PLCC	32	600	5.0	36	5.0V	7	544-1183-5-ND*	7.00	EPM7032SLC44-7
44-PLCC	32	600	5.0	36	5.0V	7	544-1184-5-ND*	9.00	EPM7032SLI44-7
44-TQFP	32	600	5.0	36	5.0V	10	544-1185-ND	5.00	EPM7032STC44-10
44-TQFP	32	600	5.0	36	5.0V	7	544-1186-ND	7.00	EPM7032STC44-7
44-TQFP	32	600	5.0	36	5.0V	7	544-1187-ND	9.00	EPM7032STI44-7
44-PLCC	64	1,250	5.0	36	5.0V	10	544-1195-5-ND*	7.00	EPM7064SLC44-10
44-PLCC	64	1,250	5.0	36	5.0V	7	544-1196-5-ND*	15.50	EPM7064SLC44-7
84-PLCC	64	1,250	5.0	68	5.0V	10	544-1197-5-ND*	12.75	EPM7064SLC84-10
84-PLCC	64	1,250	5.0	68	5.0V	7	544-1198-5-ND*	17.50	EPM7064SLC84-7
100-TQFP	64	1,250	5.0	68	5.0V	10	544-1199-ND	9.40	EPM7064STC100-10
44-TQFP	64	1,250	5.0	36	5.0V	10	544-1200-ND	6.30	EPM7064STC44-10
84-PLCC	128	2,500	6.0	68	5.0V	10	544-1207-5-ND*	25.50	EPM7128SLC84-10
84-PLCC	128	2,500	6.0	68	5.0V	15	544-1208-5-ND*	16.00	EPM7128SLC84-15
100-PQFP	128	2,500	6.0	84	5.0V	10	544-1209-ND	34.00	EPM7128SQC100-10
100-PQFP	128	2,500	6.0	84	5.0V	15	544-1210-ND	20.00	EPM7128SQC100-15
100-TQFP	128	2,500	6.0	84**	5.0V	10	544-1211-ND	37.00	EPM7128STC100-10
100-TQFP	128	2,500	6.0	84**	5.0V	15	544-1212-ND	14.00	EPM7128STC100-15
84-PLCC	160	3,200	6.0	64	5.0V	10	544-1213-5-ND*	40.00	EPM7160SLC84-10
100-TQFP	160	3,200	6.0	84	5.0V	10	544-1214-ND	44.00	EPM7160STC100-10
160-PQFP	192	3,750	7.5	124	5.0V	10	544-1215-ND	68.00	EPM7192SQC160-10
160-PQFP	192	3,750	7.5	124	5.0V	15	544-1216-ND	44.00	EPM7192SQC160-15
208-PQFP	256	5,000	7.5	164**	5.0V	10	544-1219-ND	73.00	EPM7256SQC208-10
208-PQFP	256	5,000	7.5	164**	5.0V	15	544-1220-ND	58.50	EPM7256SQC208-15
MAX 7000A									
44-PLCC	32	600	4.5	36	3.3V	10	544-1177-5-ND*	1.75	EPM7032AELC44-10
44-TQFP	32	600	4.5	36	3.3V	10	544-1178-ND	2.00	EPM7032AETC44-10
44-TQFP	32	600	4.5	36	3.3V	4	544-1179-ND	3.75	EPM7032AETC44-4
44-TQFP	32	600	4.5	36	3.3V	7	544-1180-ND	2.50	EPM7032AETC44-7
44-TQFP	32	600	4.5	36	3.3V	7	544-1181-ND	3.30	EPM7032AETI44-7
100-TQFP	64	1,250	4.5	68	3.3V	10	544-1188-ND	9.40	EPM7064AETC100-10
100-TQFP	64	1,250	4.5	68	3.3V	4	544-1189-ND	67.00	EPM7064AETC100-4
100-TQFP	64	1,250	4.5	68	3.3V	7	544-1190-ND	33.50	EPM7064AETC100-7
44-TQFP	64	1,250	4.5	36	3.3V	10	544-1191-ND	6.30	EPM7064AETC44-10
44-TQFP	64	1,250	4.5	36	3.3V	4	544-1192-ND	42.00	EPM7064AETC44-4
44-TQFP	64	1,250	4.5	36	3.3V	7	544-1193-ND	21.00	EPM7064AETC44-7
44-TQFP	64	1,250	4.5	36	3.3V	7	544-1194-ND	27.00	EPM7064AETI44-7
84-PLCC	128	2,500	5.0	68	3.3V	10	544-1201-5-ND*	13.50	EPM7128AELC84-10
100-TQFP	128	2,500	5.0	84	3.3V	10	544-1202-ND	14.00	EPM7128AETC100-10
100-TQFP	128	2,500	5.0	84	3.3V	5	544-1203-ND	68.00	EPM7128AETC100-5
100-TQFP	128	2,500	5.0	84	3.3V	7	544-1204-ND	36.00	EPM7128AETC100-7
144-TQFP	128	2,500	5.0	100	3.3V	10	544-1205-ND	24.50	EPM7128AETC144-10
100-TQFP	128	2,500	5.0	84	3.3V	7	544-1206-ND	66.00	EPM7128AETI100-7
100-TQFP	256	5,000	5.5	84	3.3V	10	544-1217-ND	40.50	EPM7256AETC100-10
144-TQFP	256	5,000	5.5	120	3.3V	10	544-1218-ND	49.00	EPM7256AETC144-10

* Tube **Perform a complete thermal analysis before committing a design to this device package. For more information, see the *Operating Requirements for Altera Devices Data Sheet*, available at www.digikey.com.

More Product Available Online: www.digikey.com
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Configuration Devices

During device operation, Altera® FPGA's store configuration data in SRAM cells. Because SRAM memory is volatile, the SRAM cells must be loaded with configuration data each time the device powers up. You can configure the devices using data stored in an Altera configuration device. Altera configuration devices are offered in different densities and provide a variety of features.

Memory Size (BIT)	On-Chip Decompression Support	ISP Support	Reprogrammable	Voltage (V)	Package	Digi-Key Part No.	Price Each	Altera Part No.
1M	No	No	No	5.0/3.3	8-PDIP	544-1221-5-ND*	5.50	EPC1064PC8
1M	No	No	No	5.0/3.3	8-PDIP	544-1222-5-ND*	9.50	EPC1213PC8
400K	No	No	No	5.0/3.3	20-PLCC	544-1223-5-ND*	3.50	EPC1441LC20
400K	No	No	No	5.0/3.3	8-PDIP	544-1224-5-ND*	3.50	EPC1441PC8
400K	No	No	No	5.0/3.3	8-PDIP	544-1225-5-ND*	4.90	EPC1441PI8
16M	Yes	Yes	Yes	3.3	100-PQFP	544-1226-ND	59.00	EPC16QC100
16M	Yes	Yes	Yes	3.3	100-PQFP	544-1227-ND	80.00	EPC16QI100
16M	Yes	Yes	Yes	3.3	88-UBGA	544-1228-ND	87.00	EPC16UC88
1M	No	No	No	5.0/3.3	20-PLCC	544-1229-5-ND*	12.50	EPC1LC20
1M	No	No	No	5.0/3.3	20-PLCC	544-1230-5-ND*	17.50	EPC1LI20
1M	No	No	No	5.0/3.3	8-PDIP	544-1231-5-ND*	11.00	EPC1PC8
1M	No	No	No	5.0/3.3	8-PDIP	544-1232-5-ND*	15.50	EPC1PI8
1.6M	No	Yes	Yes	5.0/3.3	20-PLCC	544-1233-5-ND*	33.50	EPC2LC20
1.6M	No	Yes	Yes	5.0/3.3	20-PLCC	544-1234-5-ND*	45.00	EPC2LI20
1.6M	No	Yes	Yes	5.0/3.3	32-TQFP	544-1235-ND	37.50	EPC2TC32
1.6M	No	Yes	Yes	5.0/3.3	32-TQFP	544-1236-ND	52.50	EPC2TI32
4M	Yes	Yes	Yes	3.3	100-PQFP	544-1237-ND	41.00	EPC4QC100
8M	Yes	Yes	Yes	3.3	100-PQFP	544-1238-ND	45.00	EPC8QC100
8M	Yes	Yes	Yes	3.3	100-PQFP	544-1239-ND	61.00	EPC8QI100
16M	No	No	Yes	3.3	16-SOIC	544-1240-5-ND*	16.25	EPCS16SI16N
1M	No	No	Yes	3.3	8-SOIC	544-1241-5-ND*	3.50	EPCS1SI8
1M	No	No	Yes	3.3	8-SOIC	544-1242-5-ND*	3.85	EPCS1SI8N
4M	No	No	Yes	3.3	8-SOIC	544-1243-5-ND*	13.00	EPCS4SI8

* Tube

MAX II-DEVKIT-1270

Kit enables user to evaluate the MAX II feature set or begin prototyping a design prior to receiving custom hardware. It includes all software, cables, and accessories needed to ensure an easy and productive evaluation of the MAX II CPLD.

Kit Includes:

Max II Development Board:
• MAX II EPM1270F256C5ES CPLD • Universal serial bus (USB) media access control (MAC) with physical layer (PHY) and Type B connector • PCI Edge connector (3.3V and 5V tolerant) • LCD module • SRAM (128K x 8-bit) • Temperature gauge with serial peripheral interface (SPI) • Onboard power meter • Active I/O sense circuitry • One 3.3V tolerant expansion/prototype header (41 available user I/O pins) • Joint Test Action Group (JTAG) connectors • Four user-defined, push-button switches • Four user-defined LED's

Quartus® II Web Edition Design Software

Cable and Accessories: • ByteBlaster™ II Parallel Download Cable • Type A-B USB Cable (3 feet)

Reference Designs and Demos for MAX II Including: • USB reference design • PCI reference design • Low power demo • Real-time in-system programmability (ISP) demo

544-1136-ND MAX II Development Kit **$150.00**

NIOS-EVALKIT-1C12

Altera's Nios II evaluation kit provides a low-cost evaluation platform for the popular embedded processor architectures. Altera created this evaluation kit to make your initial Nois II experience easy and productive and to give you good understanding of the Nios II processor software development flow.

Kit Includes:

Nios II Evaluation Board:
• Cyclone™ EP1C12F324 • MAX® CPLD EPM7064 configuration controller • 16-Mbytes SDR SDRAM • 8-Mbyte flash • RJ-45 connector and 10/100 Ethernet physical layer (PHY) component • Two 2 x 10 I/O headers • Prototype area with up to 48 available user I/O, plus ground, 3.3V and 5.0V • USB connector, providing power and host communication • Two switches • Ten LED's • Power-on reset circuitry • 24-MHz oscillator • Speaker connector

Design Example and Applications: • Over 12 software example designs

Cores: • Nios II processor cores (with evaluation license)

Development Tools: • Nios II integrated development environment (IDE) (for PC's only) • Quartus® II Web Edition design software (for PC's only) • SOPC Builder system integration tool

Cables and Accessories: • USB Cable • Ethernet Cable (7 feet)

Note: Software engineers do not need any prior FPGA design experience to use the Nios II evaluation kit.

544-1137-ND **NIOS II Evaluation Kit with Cyclone EP1C12** **$295.00**

Cubic Cyclonium

Cubic Cyclonium quickly and easily demonstrates the power and flexibility of FPGA's while highlighting the new Cyclone™ device, Nios® embedded processor, SOPC Builder and Quartus® II software.

Kit Includes:

Cubic Cyclonium:
• Cyclone EP1C6 Device • MAX® EPM7064AE CPLD configuration control logic • Single data rate (SDR) SDRAM (8 Mbytes, 32-bit wide) • EPCS4 Serial Configuration Device (4Mb) • Universal serial bus (USB 1.1 for communications and power (the Cubic Cyclonium gets its power from the USB port) • 168 LED display (8 x 21) • VGA output connector (VGA cable not included) • 10 I/O pins

Cable: • USB A to B Cable

Getting Started CD with PC-based Application

Getting Started Guide

544-1139-ND Cubic Cyclonium Demo Kit **$149.00**

NEW! Programming Unit

The APU is a hardware module that is used together with an appropriate adapter to program Altera devices. The APU connects to a PC via the USB port and receives power from a standard wall power adapter.

544-1244-ND (PL-APU) **$1995.00**

NEW! Programming Cable, USB

The USB-Blaster™ download cable interfaces to a standard USB PC port. The cable is a hardware interface to either a standard PC or UNIX workstation RS-232 port or a USB port. It provides configuration data to Excalibur, Mercury, APEX II, APEX 20K, ACEX 1K, FLEX 10K, FLEX 8000 and FLEX 6000 devices and programming data to MAX 9000, MAX 7000S, MAX 3000A, MAX 7000B and MAX 7000A devices.The MasterBlaster supports the SignalTap® feature, which allows designers to view internal device logic nodes with a virtual logic analyzer.

544-1245-ND USB (PL-USB-BLASTER-RB) **$300.00**

NEW! ByteBlaster™ Programming Cable

This cable can program and configure 1.8V, 2.5V, 3.3V and 5.0V devices. The cable also provides support for active serial programming of serial configuration devices. This cable drives configuration data from the PC to Stratix, Stratix GX, Cyclone, APEX II, APEX 20K (including APEX 20K, APEX 20KE, and APEX 20KC), ACEX 1K, Mercury, Excalibur, FLEX 10K (including FLEX 10KA and FLEX 10KE), FLEX 8000, and FLEX 6000 devices, as well as programming data to MAX 9000, MAX 7000S, MAX 7000AE, MAX 7000B, MAX 3000A devices and EPC/EPCS configuration devices.

544-1289-ND Parallel-Port Cable (PL-BYTEBLASTER2) **$153.33**
544-1290-ND USB Port-Download Cable (PL-USB-BLASTER) **$293.48**

NEW! University Program Education Kits

UP3 Education Kits

Kit Includes:
• Quartus II Development Software, Version 4.1
• UP3 Development Board with a Cyclone™ EP1C6/12 Device
• ByteBlaster II Download Cable
• Power Supply

544-1291-ND (UP3-DK-1C6/UNIV) **$249.00**
544-1292-ND (UP3-DK-1C12/UNIV) **$299.00**

UP2 Education Kit

Kit Includes:
• Quartus II Development Software, Version 4.0
• UP2 Development Board with a FLEX 10® EPF10K70 Device
• ByteBlaster Download Cable
• Power Supply
• Digital Design and Implementation with Field Programmable Devices

544-1293-ND (UP2-DEVKIT/UNIV) **$149.00**

USB Development Kits

AT43DK301

The AT43DK301 comes with everything designers need to develop a low-cost, self and bus-powered USB hub. To eliminate typical prototyping hassles, a fully populated stand-alone hub is included. Designers can take the stand-alone hub from the box to the system to see the operation of the AT43301 hub controller chip.

AT43DK301-ND **$139.00**
AT43301-AC-ND IC USB HUB Controller, 4 Port, 32-LQFP **$1.83**
AT43301-SC-ND IC USB HUB Controller, 4 Port, 24-SOIC **$1.83**

AT43DK312A

The AT43DK312A comes with everything designers need to develop a full-featured USB hub. To eliminate typical prototyping hassles, a fully populated stand-alone hub in included. Designers can take the stand-alone hub from the box to the system to see the operation of the AT43312A hub controller chip.

AT43DK312A-ND **$139.00**
AT43312A-AC-ND IC USB HUB Controller, 4 Port, 32-LQFP **$2.02**

AT43DK320A

The AT43DK320A development kit comes complete with everything you need to develop your full-featured USB application using AT43USB320A. It comes complete as a working hub with a programmable embedded USB function and up to four USB downstream ports. Any number of the downstream USB ports can be turned off (use of the hub is not required). USB source code for an embedded function and a USB library for the HUB are provided, thus relieving the user from the tedious task of developing such a code on their own. Dedicate your time entirely to the application at hand! The AT43USB320A is based on the AT90S8515, Atmel's 8-bit RISC AVR® microcontroller.

AT43DK320A-ND **$189.00**
AT43USB320A-AC-ND IC USB MCU Embed Hub AVR, 100-LQFP **$4.58**

AT43DK326

The AT43DK326 is a complete starter kit and development system for Atmel's AT43USB326x family of AVR® based USB microcontrollers (MCU's). It provides all of the necessary hardware and firmware components to facilitate rapid prototyping and firmware development of the AT43USB326x applications.

AT43DK326-ND **$189.00**
AT43USB326-AC-ND IC USB Keyboard Controller Hub, 48-LQFP **$2.73**

AT43DK325

The AT43DK325 is a complete starter kit and development system for Atmel's AT43USB325x family of AVR® based USB microcontrollers (MCU's). It provides all of the necessary hardware and firmware components to facilitate rapid prototyping and firmware development of the AT43USB325x applications.

Features:

- Development board for the AT43USB325 USB MCU featuring: AT43US325 full-speed USB controller programmable as a compound device, a hub only device or a function only device, One internal and four external downstream HUB ports, 512 bytes on-chip program SRAM, 16 kbytes program memory, Parallel interface to PC for In-system firmware programming, Pin header connectors for access to all available GPIO pins
- Hardware design files (schematics and PCB layout)
- USB 2.0 compliant USB firmware library
- USB Wizard firmware source code generation utility
- In-system programming tool
- Complete user's guide

AT43DK325-ND **$189.00**
AT43USB325E-AC-ND IC USB Keyboard Controller Hub, 64-LQFP ... **$5.01**

AT43DK355

The AT43DK355 is a complete development kit for Atmel's AT43USB35x family of AVR®-based USB microcontrollers. It provides all the necessary hardware and firmware components to facilitate rapid prototyping and firmware development of the AT43USB35x applications. The main component of this development kit is the AT43USB355E, a USB 2.0 compliant full-speed compound device with integrated AVR microcontroller and embedded hub supporting up to one internal and two external USB ports.

AT43DK355-ND **$189.00**
AT43USB355E-AC-ND IC USB Host/Function Processor, 64-LQFP **$6.21**

AT43DK370

The AT43DK370 is a complete starter kit and development system for the AT43USB370 host/function processor. It is designed to allow real-time firmware development and evaluation of the AT43USB370 USB host/function processor.

Features: • Reference design board featuring: ARM system processor, 1 MBytes flash ROM, 2 MBytes static RAM, USB type A/B ports, RS-232 serial port, MII expansion connector, Generic 8-bit expansion connector, 20-pin JTAG interface connector, Reset button, Power indicator LEDs, In-system firmware programming capability • USB firmware library including USB host stack, USer class device drivers and high level APIs in C • USB Clinic in-circuit emulation tool

AT43DK370-ND **$499.00**
AT43USB370E-AC-ND IC USB Host/Function Processor, 100-LQFP **$8.21**

AT43DK380

The AT43USB380 is an all-in-one USB solution designed specifically to hide the complexity of adding OTG/host functionality to embedded designs.

Features: • An intelligent OTG/host/function processor capable of managing USB transactions without system processor intervention • A processor/RTOS independent software suite that includes standard USB class device drivers and simple Application Programming Interface (API) for custom driver development

The AT43DK380 is a complete starter kit and development system for the AT43USB380 OTG/host function processor.

Features: • AT43USB380 reference design board: OTG/host/function processor; 1 Mbyte flash ROM expandable to 2 Mbytes; 2 Mbytes static RAM; 4-Port USB full/low speed hub; OTG charge-pump and voltage comparator; USB type A, mini A/B ports; 20-pin JTAG interface connector; Expansion connector to support 32/16/8-bit system processor • System processor daughter cards • USB software suite: USB stack; System library API set; Standard USB class drivers • USB clinic diagnostic and debugging tool

AT43DK380-PDC2-ND **$149.00**
AT43DK380-BD1-ND **$499.00**
AT43DK380-BD2-ND **$499.00**
AT43USB380E-AC-ND IC USB Processor, 100-TQFP **$8.21**

AVR® 8-BIT RISC Microcontrollers

STK500 Starter Kit

The Atmel AVR® STK500 is a starter kit and development system for Atmel's AVR flash microcontrollers. The STK500 gives designers a quick start to develop code on the AVR combined with features for using the starter kit to develop prototypes and test new designs. The STK500 interfaces with AVR Studio®, Atmel's Integrated Development Environment (IDE) for code writing and debugging.

ATSTK500-ND **$79.00**

STK501 Expansion Module

The STK501 board is an expansion module designed to add 64-pin TQFP support to the Atmel® STK500 development board. The STK500 and STK501 expansion module extends support to all current AVR® devices.

ATSTK501-ND **$79.00**
ATADAPCAN01-ND CAN Extension for STK500/501 ..... **$19.00**

STK502 Expansion Module

The STK502 board is a hardware expansion module for the STK500 starter kit adding support for the ATmega169 device featuring an on-chip LCD controller. The STK502 includes connectors, jumpers and hardware allowing full support for all features on the mega169, including an LCD-display

ATSTK502-ND **$99.00**

ISP In-System Programmer

AVR In-System Programmer is used for field upgrades of existing products using the Atmel AVR ArchitectureAVR in-system programmer based on the STK500 hardware and software. Supports all in-system programmable AVR devices.

ATAVRISP-ND **$29.00**

ICE40 In-Circuit Emulator

The new ICE40 is a low cost solution for hardware software integration and just like the chips, has room to grow. The ICE40 with AVR Studio® user interface provide the designer complete control of the internal resources of the tiny26 and mega8 microcontrollers, which helps reduce development time by making debugging easier. It can be upgraded with the purchase and installation of the ICE50 upgrade kit, which transforms the ICE40 into the top of the line ICE50, capable of debugging all AVR devices.

ATICE40-ND **$995.00**

ICE50 In-Circuit Emulator

The AVR ICE50 is a top-of-the-line development tool for complete in-circuit emulation of most AVR 8-bit RISC microcontrollers. The ICE50 and the AVR Studio4 user interface give the user complete control of the internal resources of the microcontroller, helping to reduce development time by making debugging easier.

ATICE50-ND		**$3500.00**
ATICE50PROBE-ND	Probe W/Flex Cables	**$79.30**
ATICE50POD-ND	Replacement POD for ICE40, ICE50	**$437.50**
ATADAP128_TOP-ND	TOP Adapter Module for MEGA64	**$187.50**
ATADAPMEGA162-ND	Personality Adapter for ATMEGA162	**$39.00**
ATADAPMEGA32-ND	Personality Adapter for ATMEGA32	**$39.00**
ATADAPMEGA8-ND	Personality Adapter for ATMEGA8	**$38.75**
ATADAPTEST-ND	ICE50 Adapter Test	**$38.75**
ATADAPTINY26-ND	Personality Adapter for ATTINY26	**$38.75**
ATADAP169_TOP-ND	Personality Adapter for ATMEGA169	**$180.00**
ATADAPT2313-ND	Personality Adapter for ATTiny2313	**$39.00**
ATADAPTINY13-ND	Personality Adapter for ATTiny13	**$39.00**
AVRSERVICE-ND	Cable Repl. for ICE Emulators	**$8.42**

JTAG ICE On-chip Debug System

The Atmel AVR® JTAG ICE is an In-circuit emulator for Atmel's megaAVR® flash microcontrollers with 16K or more program memory. The JTAG ICE talks to the On-Chip debug module on the AVR devices to give the most accurate emulation possible. The emulator will assist developers in identifying software bugs significantly reducing the development time.The JTAG ICE interfaces with AVR Studio® , Atmel's Integrated Development Environment (IDE) for code writing and debugging.

ATJTAGICE2-ND	JTAG Emulator for AVR w/OCD	**$299.00**
ATJTAGPROBE-ND	Probe JTAG ICE W/Flex Cables	**$39.00**

Butterfly Evaluation Kit

The AVR Butterfly can be used by customers to gain familiarity with the AVR architecture, evaluate the capability of the LCD family or as a hardware platform for code development.

Features:

• LCD display glass • Joystick as user interface • Piezo element for sound generation • Integrated temperature and light sensors • Mega 169 in MLF package • 4 megabit dataflash for data storage
• Connectors can be added to access I/O ports • Reprogramming through UART, ISP and JTAG • Coin cell battery • Real-time clock

Contents: Demonstration firmware with the following features:
• Clock with calendar function • Digital thermometer • Light intensity measurement • Digital name tag • Jukebox • Auto power off

ATAVRBFLY-ND Butterfly Evaluation Kit **$19.99**

	Starter Kits						Emulators		
Part Number	**STK500 & ISP**	**STK501**	**STK502**	**ATADAPCAN01**	**AVRBFLY**	**AT90EIT1**	**ICE40**	**ICE50**	**JTAGICE2**
ATTINY11	Yes	—	—	—	—	—	—	—	—
ATTINY12	Yes	—	—	—	—	—	—	—	—
ATTINY13	Yes	—	—	—	—	—	—	—	Yes
ATTINY15	Yes	—	—	—	—	—	—	—	—
ATTINY26	Yes	—	—	—	—	—	Yes	Yes	—
ATTINY28	Yes	—	—	—	—	—	—	—	—
ATTINY2313	Yes	—	—	—	—	—	—	—	Yes
AT90CAN128	Yes‡	Yes	—	Yes	—	—	—	Yes	Yes
AT90S1200	Yes‡	—	—	—	—	—	—	—	—
AT90S2313	Yes	—	—	—	—	—	—	—	—
AT90S2323	Yes	—	—	—	—	—	—	—	—
AT90S2343	Yes	—	—	—	—	—	—	—	—
ATMEGA128	Yes‡	Yes	Yes	—	—	Yes	—	Yes	Yes
ATMEGA16	Yes	—	—	—	—	—	—	Yes	Yes
ATMEGA162	Yes	—	—	—	—	—	—	Yes	Yes
ATMEGA169	Yes‡	—	Yes	—	Yes	—	—	Yes	Yes
ATMEGA32	Yes	—	—	—	—	—	—	Yes	Yes
ATMEGA48	Yes	—	—	—	—	—	—	—	Yes
ATMEGA64	Yes‡	Yes	Yes	—	—	—	—	Yes	Yes
ATMEGA8	Yes	—	—	—	—	—	Yes	Yes	—
ATMEGA8515	Yes	—	—	—	—	—	—	Yes	—
ATMEGA8535	Yes	—	—	—	—	—	—	Yes	—
ATMEGA88	Yes	—	—	—	—	—	—	—	Yes

‡Must use Expansion Module in conjunction with STK500

More Product Available Online: www.digikey.com
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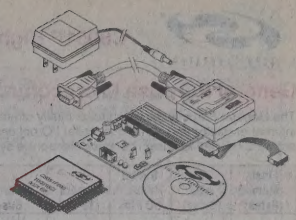
C8051F High Performance Mixed-Signal MCUs



Precision Mixed-Signal Microcontrollers; Full-Featured MCUs with a Supercharged 8051 CPU

The Precision Mixed-Signal microcontroller family combines high-precision analog data converters with a high-throughput 8051 CPU making them ideal for analog and compute-intensive applications. ADC resolutions range from 8 to 24 bits and CPU throughputs range from 20 to 100 MIPS. Other on-chip analog peripherals include DACs (resolutions to 12-bits), a voltage reference, comparators, a temperature sensor and oscillators. Digital peripherals include external memory interface, timers, PCA (programmable counter array) modules, and UART, SPI and SMBus serial ports. ***Features:*** **• C8051F01x, C8051F12x, C8051F13x:** Ext. Memory Interface, Temperature Sensor and VREF **• C8051F02x and C8051F00x:** Temperature Sensor and VREF **• C8051F35x:** Temperature Sensor, PGA, and VREF **• C8051F064 and C8051F066:** Ext. Memory, and VREF **• C8051F065 and C8051F067:** VREF

Flash Mem. (Bytes)	RAM (Bytes)	Digital Port I/O Pins	Timers (16-Bit)	PCA Chnls	Serial Buses	ADC1	ADC2	DAC	Comp.	Other	Internal Osc	MIPS (peak)	Package	Digi-Key Part No. *	Cut Tape Price Each 1	25	100	Silicon Labs Part No.	Development Kit Part No.
128K	8448	64	5	6	2 UARTs, SMBus, SPI	12-Bit, 8-Ch. 100ksps	8-Bit, 8-Ch. 500ksps	12-Bit, 2-Ch.	2	16x16 MAC	±2%	100	100-TQFP	336-1079-1-ND	36.70	27.18	21.92	C8051F120R	C8051F120DK-U
128K	8448	32	5	6	2 UARTs, SMBus, SPI	12-Bit, 8-Ch. 100ksps	8-Bit, 8-Ch. 500ksps	12-Bit, 2-Ch.	2	16x16 MAC	±2%	100	64-TQFP	336-1080-1-ND	35.54	26.33	21.23	C8051F121R	C8051F120DK-U
128K	8448	64	5	6	2 UARTs, SMBus, SPI	10-Bit, 8-Ch. 100ksps	8-Bit, 8-Ch. 500ksps	12-Bit, 2-Ch.	2	16x16 MAC	±2%	100	100-TQFP	336-1081-1-ND	34.01	25.20	20.32	C8051F122R	C8051F120DK-U
128K	8448	32	5	6	2 UARTs, SMBus, SPI	10-Bit, 8-Ch. 100ksps	8-Bit, 8-Ch. 500ksps	12-Bit, 2-Ch.	2	16x16 MAC	±2%	100	64-TQFP	336-1082-1-ND	32.88	24.36	19.64	C8051F123R	C8051F120DK-U
128K	8448	64	5	6	2 UARTs, SMBus, SPI	12-Bit, 8-Ch. 100ksps	8-Bit, 8-Ch. 500ksps	12-Bit, 2-Ch.	2	—	±2%	50	100-TQFP	336-1059-1-ND	32.19	23.84	19.23	C8051F124R	C8051F120DK-U
128K	8448	32	5	6	2 UARTs, SMBus, SPI	12-Bit, 8-Ch. 100ksps	8-Bit, 8-Ch. 500ksps	12-Bit, 2-Ch.	2	—	±2%	50	64-TQFP	336-1060-1-ND	30.99	22.95	18.51	C8051F125R	C8051F120DK-U
128K	8448	64	5	6	2 UARTs, SMBus, SPI	10-Bit, 8-Ch. 100ksps	8-Bit, 8-Ch. 500ksps	12-Bit, 2-Ch.	2	—	±2%	50	100-TQFP	336-1061-1-ND	29.51	21.85	17.63	C8051F126R	C8051F120DK-U
128K	8448	32	5	6	2 UARTs, SMBus, SPI	10-Bit, 8-Ch. 100ksps	8-Bit, 8-Ch. 500ksps	12-Bit, 2-Ch.	2	—	±2%	50	64-TQFP	336-1062-1-ND	28.38	21.02	16.95	C8051F127R	C8051F120DK-U
128K	8448	64	5	6	2 UARTs, SMBus, SPI	10-Bit, 8-Ch. 100ksps	—	12-Bit 2-Ch.	2	16x16 MAC	±2%	100	100-TQFP	336-1147-ND†	20.58	17.74	15.30	C8051F130	C8051F120DK-U
128K	8448	32	5	6	2 UARTs, SMBus, SPI	10-Bit, 8-Ch. 100ksps	—	12-Bit 2-Ch.	2	16x16 MAC	±2%	100	64-TQFP	336-1148-ND†	19.74	17.02	14.67	C8051F131	C8051F120DK-U
64K	8448	64	5	6	2 UARTs, SMBus, SPI	10-Bit, 8-Ch. 100ksps	—	12-Bit 2-Ch.	2	16x16 MAC	±2%	100	100-TQFP	336-1149-ND†	17.22	14.85	12.80	C8051F132	C8051F120DK-U
64K	8448	32	5	6	2 UARTs, SMBus, SPI	10-Bit, 8-Ch. 100ksps	—	12-Bit 2-Ch.	2	16x16 MAC	±2%	100	64-TQFP	336-1150-ND†	16.38	14.12	12.17	C8051F133	C8051F120DK-U
64K	4352	64	5	5	2 UARTs, SMBus, SPI	12-Bit, 8-Ch. 100ksps	8-Bit, 8-Ch. 500ksps	12-Bit, 2-Ch.	2	—	±20%	25	100-TQFP	336-1032-1-ND	31.35	22.56	17.90	C8051F020R	C8051F020DK-U
64K	4352	32	5	5	2 UARTs, SMBus, SPI	12-Bit, 8-Ch. 100ksps	8-Bit, 8-Ch. 500ksps	12-Bit, 2-Ch.	2	—	±20%	25	64-TQFP	336-1033-1-ND	30.23	21.75	17.26	C8051F021R	C8051F020DK-U
64K	4352	64	5	5	2 UARTs, SMBus, SPI	10-Bit, 8-Ch. 100ksps	8-Bit, 8-Ch. 500ksps	12-Bit, 2-Ch.	2	—	±20%	25	100-TQFP	336-1034-1-ND	24.93	17.94	14.24	C8051F022R	C8051F020DK-U
64K	4352	32	5	5	2 UARTs, SMBus, SPI	10-Bit, 8-Ch. 100ksps	8-Bit, 8-Ch. 500ksps	12-Bit, 2-Ch.	2	—	±20%	25	64-TQFP	336-1035-1-ND	23.16	16.67	13.23	C8051F023R	C8051F020DK-U
32K	256	32	4	5	UART, SMBus, SPI	12-Bit, 8-Ch. 100ksps	—	12-Bit, 2-Ch.	2	—	±20%	20	64-TQFP	336-1000-1-ND	22.17	15.95	12.66	C8051F000R	C8051F005DK-U
32K	256	16	4	5	UART, SMBus, SPI	12-Bit, 8-Ch. 100ksps	—	12-Bit, 2-Ch.	2	—	±20%	20	48-TQFP	336-1001-1-ND	21.81	15.69	12.45	C8051F001R	C8051F005DK-U
32K	256	8	4	5	UART, SMBus, SPI	12-Bit, 4-Ch. 100ksps	—	12-Bit, 2-Ch.	1	—	±20%	20	32-LQFP	336-1002-1-ND	21.48	15.46	12.27	C8051F002R	C8051F005DK-U
32K	2304	32	4	5	UART, SMBus, SPI	12-Bit, 8-Ch. 100ksps	—	12-Bit, 2-Ch.	2	—	±20%	25	64-TQFP	336-1003-1-ND	23.76	17.10	13.57	C8051F005R	C8051F005DK-U
32K	2304	16	4	5	UART, SMBus, SPI	12-Bit, 8-Ch. 100ksps	—	12-Bit, 2-Ch.	2	—	±20%	25	48-TQFP	336-1004-1-ND	23.13	16.64	13.21	C8051F006R	C8051F005DK-U
32K	2304	8	4	5	UART, SMBus, SPI	12-Bit, 4-Ch. 100ksps	—	12-Bit, 2-Ch.	1	—	±20%	25	32-LQFP	336-1041-1-ND	22.59	16.25	12.90	C8051F007R	C8051F005DK-U
32K	256	32	4	5	UART, SMBus, SPI	10-Bit, 8-Ch. 100ksps	—	12-Bit, 2-Ch.	2	—	±20%	20	64-TQFP	336-1005-1-ND	20.76	14.94	11.85	C8051F010R	C8051F005DK-U
32K	256	16	4	5	UART, SMBus, SPI	10-Bit, 8-Ch. 100ksps	—	12-Bit, 2-Ch.	2	—	±20%	20	48-TQFP	336-1006-1-ND	20.37	14.66	11.63	C8051F011R	C8051F005DK-U
32K	256	8	4	5	UART, SMBus, SPI	10-Bit, 4-Ch. 100ksps	—	12-Bit, 2-Ch.	1	—	±20%	20	32-LQFP	336-1007-1-ND	19.83	14.27	11.32	C8051F012R	C8051F005DK-U
32K	2304	32	4	5	UART, SMBus, SPI	10-Bit, 8-Ch. 100ksps	—	12-Bit, 2-Ch.	2	—	±20%	25	64-TQFP	336-1030-1-ND	22.44	16.15	12.81	C8051F015R	C8051F005DK-U
32K	2304	16	4	5	UART, SMBus, SPI	10-Bit, 8-Ch. 100ksps	—	12-Bit, 2-Ch.	2	—	±20%	25	48-TQFP	336-1031-1-ND	22.08	15.89	12.61	C8051F016R	C8051F005DK-U
32K	2304	8	4	5	UART, SMBus, SPI	10-Bit, 4-Ch. 100ksps	—	12-Bit, 2-Ch.	1	—	±20%	25	32-LQFP	336-1042-1-ND	21.84	15.71	12.47	C8051F017R	C8051F005DK-U
16K	1280	32	4	5	UART, SMBus, SPI	10-Bit, 8-Ch. 100ksps	—	—	2	—	±20%	25	64-TQFP	336-1048-1-ND	18.12	13.04	10.35	C8051F018R	C8051F005DK-U
16K	1280	16	4	5	UART, SMBus, SPI	10-Bit, 8-Ch. 100ksps	—	—	2	—	±20%	25	48-TQFP	336-1049-1-ND	17.46	12.56	9.97	C8051F019R	C8051F005DK-U
64K	4352	59	5	6	2 UARTs, SMBus, SPI	16-Bit, 2-Ch. 1Msps	—	—	3	DMA	±2%	25	100-TQFP	336-1089-1-ND	24.05	18.51	15.42	C8051F064	C8051F064EK-U
64K	4352	24	5	6	2 UARTs, SMBus, SPI	16-Bit, 2-Ch. 1Msps	—	—	3	DMA	±2%	25	64-TQFP	336-1090-1-ND	23.53	18.10	15.09	C8051F065	C8051F064EK-U
32K	4352	59	5	6	2 UARTs, SMBus, SPI	16-Bit, 2-Ch 1Msps	—	—	3	DMA	±2%	25	100-TQFP	336-1091-1-ND	20.39	15.69	13.08	C8051F066	C8051F064EK-U
32K	4352	24	5	6	2 UARTs, SMBus, SPI	16-Bit, 2-Ch. 1Msps	—	—	3	DMA	±2%	25	64-TQFP	336-1092-1-ND	19.87	15.29	12.74	C8051F067	C8051F064EK-U
8K	768	17	4	3	UART, SPI, SMBus	24-Bit, 8-Ch., 1ksps	—	8-Bit 2-Ch.	1	—	±2%	50	32-LQFP	336-1084-1-ND	11.22	9.05	7.48	C8051F350R	C8051F350DK-U
8K	768	17	4	3	UART, SPI, SMBus	24-Bit, 8-Ch., 1ksps	—	8-Bit 2-Ch.	1	—	±2%	50	28-MLP	336-1085-1-ND	10.57	8.52	7.05	C8051F351R	C8051F350DK-U
8K	768	17	4	3	UART, SPI, SMBus	16-Bit, 8-Ch., 1ksps	—	8-Bit 2-Ch.	1	—	±2%	50	32-LQFP	336-1086-1-ND	8.34	6.72	5.56	C8051F352R	C8051F350DK-U
8K	768	17	4	3	UART, SPI, SMBus	16-Bit, 8-Ch., 1ksps	—	8-Bit 2-Ch.	1	—	±2%	50	28-MLP	336-1087-1-ND	7.93	6.39	5.28	C8051F353R	C8051F350DK-U

* For Tape and Reel Part No., change the -1 to -2. Please call 1-800-DIGI-KEY for Tape and Reel Pricing. † Bulk

USB Microcontrollers Integrated USB 2.0 Function Controller

The USB microcontroller family features an on-board universal serial bus (USB) 2.0 function controller with integrated transceiver and on-chip clock recovery. No resistors, crystal, regulator, EEPROM or other external components are required. On-chip digital resources include a pipelined 25 MIPS, 8051 CPU with 16kB Flash and UART, SMBus and SPI serial interfaces. On-chip analog features include a multi-channel 10-bit ADC, voltage reference, oscillator, comparators and a temperature sensor. Available in a 32-pin LQFP or a 28-pin MLP (5x5mm), these devices provide a single-chip solution for embedded USB applications.

Flash Mem. (Bytes)	RAM (Bytes)	Digital Port I/O Pins	Timers (16-Bit)	PCA Chnls	Serial Buses	ADC1	Comp.	Internal Osc	MIPS (peak)	Package	Digi-Key Part No. *	Cut Tape Price Each 1	25	100	Silicon Labs Part No.	Development Kit Part No.
16K	2304	25	4	5	USB 2.0, UART, SMBus, SPI	10-Bit, 17-Ch. 200ksps	2	±1.5%	25	32-LQFP	336-1066-1-ND	13.67	9.77	7.81	C8051F320R	C8051F320DK-U
16K	2304	21	4	5	USB 2.0, UART, SMBus, SPI	10-Bit, 13-Ch. 200ksps	2	±1.5%	25	28-MLP	336-1067-1-ND	13.00	9.29	7.56	C8051F321R	C8051F320DK-U

* For Tape and Reel Part No., change the -1 to -2. Please call 1-800-DIGI-KEY for Tape and Reel Pricing.

(Continued)

B

General Purpose Microcontrollers Outstanding Value for Comprehensive MCUs

The General Purpose microcontroller family offers outstanding value and performance for embedded control applications. Each device features a 25MIPS pipelined 8051 CPU with 8kB Flash, UART and SPI serial interfaces, internal oscillator and numerous digital I/O options. On-chip analog features include 32-channel, 12-bit or 8-bit ADC and two comparators. Development tools are easy to use and come complete with all the hardware and software needed to design complex electronics systems on a standard Windows PC.

Flash Mem. (Bytes)	RAM (Bytes)	Digital Port I/O Pins	Timers (16-Bit)	Serial Buses	ADC1	Comp.	Internal Osc	MIPS (peak)	Package	Digi-Key Part No.*	Cut Tape Price Each 1	25	100	Silicon Labs Part No.	Development Kit Part No.
8K	1280	32	3	UART, SPI	12-Bit, 32-Ch. 100ksps	2	±20%	25	48-TQFP	336-1036-1-ND	13.22	9.51	7.55	C8051F206R	C8051F206DK-U
8K	256	32	3	UART, SPI	8-Bit, 32-Ch. 100ksps	2	±20%	25	48-TQFP	336-1008-1-ND	9.21	6.62	5.26	C8051F220R	C8051F226DK-U
8K	256	22	3	UART, SPI	8-Bit, 32-Ch. 100ksps	2	±20%	25	32-LQFP	336-1009-1-ND	8.77	6.31	5.00	C8051F221R	C8051F226DK-U
8K	1280	32	3	UART, SPI	8-Bit, 32-Ch. 100ksps	2	20%	25	48-TQFP	336-1010-1-ND	9.71	6.99	5.54	C8051F226R	C8051F226DK-U
8K	256	32	3	UART, SPI	—	2	±20%	25	48-TQFP	336-1011-1-ND	8.71	6.26	4.97	C8051F230R	C8051F226DK-U
8K	256	22	3	UART, SPI	—	2	±20%	25	32-LQFP	336-1012-1-ND	8.29	5.97	4.73	C8051F231R	C8051F226DK-U
8K	1280	32	3	UART, SPI	—	2	±20%	25	48-TQFP	336-1013-1-ND	9.18	6.60	5.24	C8051F236R	C8051F226DK-U

* For Tape and Reel Part No., change the -1 to -2. Please call 1-800-DIGI-KEY for Tape and Reel Pricing.

Small Form Factor Microcontrollers, High-Performance MCU in a Tiny Package

The Small Form Factor family is optimized for space-constrained, low-power, low-cost applications in consumer, industrial, communications and automotive markets. Development is quick and easy due to low-cost, professional development tools and in system debug. ***Features:*** • **C8051F311, C8051F300, C8051F302, C8051F310, C8051F312, and C8051F313:** Temperature Sensor • **C8051F330 and C8051F330-GP:** Temperature Sensor and VREF

Flash Mem. (Bytes)	RAM (Bytes)	Digital Port I/O Pins	Timers (16-Bit)	PCA Chnls	Serial Buses	ADC1	DAC	Comp.	Internal Osc	MIPS (peak)	Package	Digi-Key Part No.*	Cut Tape Price Each 1	25	100	Silicon Labs Part No.	Development Kit Part No.
8K	256	8	3	3	UART, SMBus	8-Bit, 8-Ch., 500ksps	—	1	±2%	25	11-MLP	336-1043-1-ND	6.53	4.66	3.73	C8051F300R	C8051F300DK-U
8K	256	8	3	3	UART, SMBus	8-Bit, 8-Ch., 500ksps	—	1	±2%	25	14-Dip	336-1050-5-ND†	6.60	—	—	C8051F300P	C8051F300DK-U
8K	256	8	3	3	UART, SMBus	—	—	1	±2%	25	11-MLP	336-1044-1-ND	6.19	4.42	3.54	C8051F301R	C8051F300DK-U
8K	256	8	3	3	UART, SMBus	8-Bit, 8-Ch., 500ksps	—	1	±20%	25	11-MLP	336-1045-1-ND	6.14	4.38	3.51	C8051F302R	C8051F300DK-U
8K	256	8	3	3	UART, SMBus	—	—	1	±20%	25	11-MLP	336-1046-1-ND	5.88	4.20	3.36	C8051F303R	C8051F300DK-U
4K	256	8	3	3	UART, SMBus	—	—	1	±20%	25	11-MLP	336-1063-1-ND	5.04	3.60	2.88	C8051F304R	C8051F300DK-U
2K	256	8	3	3	UART, SMBus	—	—	1	±20%	25	11-MLP	336-1064-1-ND	4.20	3.00	2.40	C8051F305R	C8051F300DK-U
16K	1280	29	4	5	UART, SPI, SMBus	10-Bit, 21-Ch., 200ksps	—	2	±2%	25	32-LQFP	336-1056-1-ND	10.98	7.85	6.28	C8051F310R	C8051F310DK-U
16K	1280	25	4	5	UART, SPI, SMBus	10-Bit, 17-Ch., 200ksps	—	2	±2%	25	28-MLP	336-1057-1-ND	9.95	7.11	5.68	C8051F311R	C8051F310DK-U
8K	1280	29	4	5	UART, SPI, SMBus	10-Bit, 21-Ch., 200ksps	—	2	±2%	25	32-LQFP	336-1151-ND	6.01	4.88	4.25	C8051F312	C8051F310DK-U
8K	1280	25	4	5	UART, SPI, SMBus	10-Bit, 17-Ch., 200ksps	—	2	±2%	25	28-MLP	336-1152-ND	5.55	4.51	3.92	C8051F313	C8051F310DK-U
8K	1280	29	4	5	UART, SPI, SMBus	—	—	2	±2%	25	32-LQFP	336-1153-ND	5.10	4.15	3.61	C8051F314	C8051F310DK-U
8K	1280	25	4	5	UART, SPI, SMBus	—	—	2	±2%	25	28-MLP	336-1154-ND	4.65	3.88	3.37	C8051F315	C8051F310DK-U
8K	768	17	4	3	UART, SPI, SMBus	10-Bit, 16-Ch., 200ksps	10-Bit 1-Ch.	1	±2%	25	20-Dip	336-1155-ND	6.71	5.16	4.27	C8051F330D	C8051F330DK-U
8K	768	17	4	3	UART, SPI, SMBus	10-Bit, 16-Ch., 200ksps	10-Bit, 1-Ch.	1	±2%	25	20-MLP	336-1069-1-ND	7.87	5.62	4.50	C8051F330R	C8051F330DK-U
8K	768	17	4	3	UART, SPI, SMBus	—	—	1	±2%	25	20-MLP	336-1070-1-ND	7.06	5.04	4.03	C8051F331R	C8051F330DK-U

* For Tape and Reel Part No., change the -1 to -2. Please call 1-800-DIGI-KEY for Tape and Reel Pricing. † Dip version for development purposes.

CAN Interface Microcontrollers — MCUs with Integrated CAN 2.0B Controller

Each CAN MCU features a 25 MIPS pipelined 8051 CPU, an integrated CAN 2.0B controller, 64kB of Flash, 4kB of SRAM, external memory interface and numerous digital I/O options. Dual UARTs, SMBus and SPI serial interfaces and on-chip analog capabilities including ADC, DAC, voltage reference, internal oscillator and temperature sensor make these products an ideal solution for industrial control and automotive applications.
Features: • Ext. Memory Interface, Temperature Sensor, VREF

Flash Mem. (Bytes)	RAM (Bytes)	Digital Port I/O Pins	Timers (16-Bit)	PCA Chnls	Serial Buses	ADC1	ADC2	DAC	Comp.	Other	Internal Osc	MIPS (peak)	Package	Digi-Key Part No.*	Cut Tape Price Each 1	25	100	Silicon Labs Part No.	Development Kit Part No.
64K	4352	64	5	6	CAN2.0B, 2 UARTs, SMBus, SPI	12-Bit, 13-Ch. 100ksps	8-Bit, 8-Ch. 500ksps	12-Bit, 2-Ch.	3	±60V PGA	±2%	25	100-TQFP	336-1051-1-ND	33.71	24.25	19.25	C8051F040R	C8051F040DK-U
64K	4352	32	5	6	CAN2.0B, 2 UARTs, SMBus, SPI	12-Bit, 13-Ch. 100ksps	8-Bit, 8-Ch. 500ksps	12-Bit, 2-Ch.	3	±60V PGA	±2%	25	64-TQFP	336-1052-1-ND	32.67	23.50	18.65	C8051F041R	C8051F040DK-U
64K	4352	64	5	6	CAN2.0B, 2 UARTs, SMBus, SPI	10-Bit, 13-Ch. 100ksps	8-Bit, 8-Ch. 500ksps	12-Bit, 2-Ch.	3	±60V PGA	±2%	25	100-TQFP	336-1053-1-ND	30.51	21.95	17.42	C8051F042R	C8051F040DK-U
64K	4352	32	5	6	CAN2.0B, 2 UARTs, SMBus, SPI	10-Bit, 13-Ch. 100ksps	8-Bit, 8-Ch. 500ksps	12-Bit, 2-Ch.	3	±60V PGA	±2%	25	64-TQFP	336-1054-1-ND	27.82	20.01	15.88	C8051F043R	C8051F040DK-U
64K	4352	64	5	6	CAN2.0B, 2 UARTs, SMBus, SPI	10-Bit, 13-Ch. 100ksps	—	—	3	±60V PGA	±2%	25	100-TQFP	336-1156-ND	16.93	13.02	10.85	C8051F044	C8051F040DK-U
64K	4352	32	5	6	CAN2.0B, 2 UARTs, SMBus, SPI	10-Bit, 13-Ch. 100ksps	—	—	3	±60V PGA	±2%	25	64-TQFP	336-1157-ND	16.43	12.64	10.53	C8051F045	C8051F040DK-U
32K	4352	64	5	6	CAN2.0B, 2 UARTs, SMBus, SPI	10-Bit, 13-Ch. 100ksps	—	—	3	±60V PGA	±2%	25	100-TQFP	336-1158-ND	14.94	11.49	9.58	C8051F046	C8051F040DK-U
32K	4352	32	5	6	CAN2.0B, 2 UARTs, SMBus, SPI	10-Bit, 13-Ch. 100ksps	—	—	3	±60V PGA	±2%	25	64-TQFP	336-1159-ND	14.44	11.11	9.26	C8051F047	C8051F040DK-U

* For Tape and Reel Part No., change the -1 to -2. Please call 1-800-DIGI-KEY for Tape and Reel Pricing.

(Continued)

C8051F High Performance Mixed-Signal MCUs (Cont.)

Flash Mem. (Bytes)	RAM (Bytes)	Digital Port I/O Pins	Timers (16-Bit)	PCA Chnls	Serial Buses	ADC1	ADC2	DAC	Comp.	Other	Internal Osc	MIPS (peak)	Package	Digi-Key Part No.*	Cut Tape Price Each 1	25	100	Silicon Labs Part No.	Development Kit Part No.
64K	4352	59	5	6	CAN2.0B, 2 UARTs, SMBus, SPI	16-Bit, 2-Ch. 1Msps	10-Bit, 8-Ch. 200ksps	12-Bit, 2-Ch.	3	DMA	±2%	25	100-TQFP	336-1072-1-ND	49.35	38.60	31.64	C8051F060R	C8051F060DK-U
64K	4352	24	5	6	CAN2.0B, 2 UARTs, SMBus, SPI	16-Bit, 2-Ch. 1Msps	10-Bit, 8-Ch. 200ksps	12-Bit, 2-Ch.	3	DMA	±2%	25	64-TQFP	336-1073-1-ND	48.72	37.48	31.23	C8051F061R	C8051F060DK-U
64K	4352	59	5	6	CAN2.0B, 2 UARTs, SMBus, SPI	16-Bit, 2-Ch. 1Msps	10-Bit, 8-Ch. 200ksps	12-Bit, 2-Ch.	3	DMA	±2%	25	100-TQFP	336-1074-1-ND	44.79	34.46	28.72	C8051F062R	C8051F060DK-U
64K	4352	24	5	6	CAN2.0B, 2 UARTs, SMBus, SPI	16-Bit, 2-Ch. 1Msps	10-Bit, 8-Ch. 200ksps	12-Bit, 2-Ch.	3	DMA	±2%	25	64-TQFP	336-1075-1-ND	44.30	34.08	28.40	C8051F063R	C8051F060DK-U

B

Microcontroller Development Tools

evelopment Kits:
Complete development/prototyping system • Prototyping/demonration board • In-system Flash programming • In-circuit debugging MCU configuration wizard
DE:
Source code editor, project manager • Flash programmer • Supports ll-speed, non-intrusive in-circuit debug logic • Real-time breakpoints, ource-level debug • Conditional memory watchpoints • Memory and gister inspect/modify • Single-step and animated execution modes Variable watch window

Digi-Key Part No.	Price Each	Development Kit Part No.
336-1017-ND	99.00	C8051F005DK-U
336-1038-ND	129.00	C8051F020DK-U
336-1050-ND	459.00	C8051F040DK-U
336-1018-ND	299.00	C8051F060DK-U
336-1078-ND	149.00	C8051F120DK-U
336-1040-ND	99.00	C8051F206DK-U
336-1024-ND	99.00	C8051F226DK-U
336-1047-ND	99.00	C8051F300DK-U
336-1055-ND	99.00	C8051F310DK-U
336-1065-ND	229.00	C8051F320DK-U
336-1068-ND	99.00	C8051F330DK-U
336-1083-ND	129.00	C8051F350DK-U
336-1088-ND	24.95	C8051F064EK-U

Single-Chip USB to UART Bridge

The CP210x is a single-chip USB to UART bridge that converts data traffic between USB and UART formats. The chip includes a complete USB 2.0 full-speed function controller, bridge control logic and a UART interface with transmit/receive buffers and modem handshake signals.

The device also features on-board EEPROM, a voltage regulator, a USB transceiver and an integrated internal oscillator, eliminating external components generally required in USB applications. System development is further simplified by the CP210xEK evaluation kit, which includes a complete USB to RS-232 evaluation board and royalty-free device drivers for PC and Macintosh platforms.

Description	Digi-Key Part No.	Price Each	Development Kit Part No.
Single-Chip USB to UART Bridge	336-1076-ND	49.00	CP2101EK
Single-Chip USB to UART Bridge	336-1161-ND	49.95	CP2102EK

USB 2.0 (Mbps)	EEPROM	Clock	UART Baud Rates	RX/TX Buffer	Package	Digi-Key Part No.	Cut Tape Price Each 1	25	Digi-Key Part No.	Tape & Reel Pricing 1,500	Silicon Labs Part No.
12	512B	Internal	300bps to 1Mbps	512B	28-MLP (5mm x 5mm)	336-1077-1-ND	5.70	4.79	336-1077-2-ND	3777.20/M	CP2101R
12	1024B	Internal	300bps to 921.6kbps	640B	28-MLP (5mm x 5mm)	336-1160-ND†	5.70	4.79	—	—	CP2102-GM

† Tube

Wireless, Wireline and Optical Networking Solutions

PHY® High-Speed Transceivers: Features: • Integrated limiting amplifier, DR, CMU and MUX/DEMUX • Low jitter generation: <2.0 mUI$_{RMS}$ (typ OC-48) Jitter attenuating CMU eliminates the external clean-up PLL • Low power peration

Precision Clock ICs:
Features:
• Jitter generation less than 0.3 ps$_{RMS}$ (typ OC-192) • Forward and reverse FEC clock scaling • Selectable loop filter bandwidths

Clock and Data Recovery ICs:
Features: • Multi-rate operation: OC-3/12/48, STM-1/4/16, GbE and 2.7 Gbps • Low jitter generation; low power operation • DSPLL™ technology eliminates external loop filter components

Description	Package	Digi-Key Part No.	Price Each 1	25	Silicon Labs Part No.	Evaluation Board Digi-Key Part No.	Price Each	Silicon Labs Part No.
SiPHY High-Speed Transceivers								
OC-48, STM-16 SONET/SDH Transceiver, 1:16 Deserializer and 16:1 Serializer	195-CBGA	336-1135-ND	196.46	174.22	SI5100-F-BC	336-1136-ND	350.00	SI5100-EVB
OC-48, STM-16 SONET/SDH Transceiver, 1:4 Deserializer and 4:1 Serializer	99-CBGA	336-1137-ND	196.46	174.22	SI5110-F-BC	336-1138-ND	350.00	SI5110-EVB
Precision Clock ICs								
Precision Clock Multiplier/Regenerator, 155 MHz, 622 MHz	20-MLP	336-1139-ND	51.42	45.19	SI5310-BM	336-1140-ND	350.00	SI5310-EVB
SONET/SDH Clock Multiplier/Jitter Attenuator, 19 MHz, 155 MHz, 622 MHz Output, 15/14 Scaling	63-CBGA	336-1141-ND	104.65	91.80	SI5320-F-BC	336-1142-ND	350.00	SI5320-EVB
SONET/SDH Clock Multiplier/Jitter Attenuator, 19 MHz ~ 2.5 GHz Output, G.709 FEC and 66/64 Scaling	63-CBGA	336-1143-ND	125.57	110.16	SI5321-F-BC	336-1144-ND	350.00	SI5321-EVB
SONET/SDH Clock Multiplier/Jitter Attenuator, Auto Hitless Switching, Four Outputs at 19 MHz, 155 MHz or 622 MHz	99-CBGA	336-1145-ND	170.11	149.28	SI5364-F-BC	336-1146-ND	350.00	SI5364-EVB
Clock and Data Recovery ICs								
OC-12/3, STM-4/1 SONET/SDH, 2.5V	20-MLP	336-1120-ND	27.61	24.03	SI5010-BM	336-1121-ND	350.00	SI5010-EVB
OC-12/3, STM-4/1 SONET/SDH, with Limiting Amp, 3.3V	28-MLP	336-1122-ND	30.21	26.29	SI5013-BM	336-1123-ND	350.00	SI5013-EVB
OC-48, STM-16 SONET/SDH, 2.7 Gbps, with Limiting Amp, 3.3V	28-MLP	336-1124-ND	82.71	72.56	SI5017-BM	336-1125-ND	350.00	SI5017-EVB
OC-48, STM-16 SONET/SDH, 2.7 Gbps, 2.5V	20-MLP	336-1126-ND	74.82	65.64	SI5018-BM	336-1127-ND	500.00	SI5018-EVB
OC-48/12/3, STM-16/4/1 SONET/SDH, GbE, 2.7 Gbps, 2.5V	20-MLP	336-1128-ND	94.03	82.04	SI5020-BM	336-1129-ND	500.00	SI5020-EVB
OC-48/12/3, STM-16/4/1 SONET/SDH, GbE, 2.7 Gbps, with Limiting Amp, 3.3V	28-MLP	336-1133-ND	102.89	90.24	SI5023-BM	336-1134-ND	500.00	SI5023-EVB

SOmodem® Embedded Modems

ilicon Laboratories' embedded modem solutions are most feature rich, compact nd flexible 2400 baud modems on the market. Available in two 16-pin SOIC ckages, the Si2401 and Si2400 embedded modem solutions eliminate the need for a separate DSP data pump, modem controller, codec, isolation transformer, relay, opto-isolators and 2-4 wire hybrid.
Features: • Simple AT command UART interface • Globally compliant line interface • Line-in-use and parallel phone intrusion detection • Caller ID detection and decode

Description	Max. Data Rate	Voice Codec	Package	System-Side Digi-Key Part No.	Price Each 1	25	Silicon Labs Part No.	Line-Side Digi-Key Part No.	Price Each 1	25	Silicon Labs Part No.
V.22bis Modem, Chipset	2400 bps	No	16-SOIC	336-1095-ND	27.70	24.11	SI2401-FS	336-1096-ND	5.55	4.80	SI3010-FS
V.22bis Modem, Chipset	2400 bps	Yes	16-SOIC	336-1093-ND	30.24	26.36	SI2400-KS	336-1094-ND	8.25	7.22	SI3015-KS

RF Synthesizers

ilicon Laboratories' wireless solutions are the world's most integrated, robust, liable and easiest to use wireless solutions available in the market today. y eliminating more discretes and requiring fewer external components that alternate solutions, our products empower our customers to add value-rich features and speed time to market. Best of all, we develop and design these world-class products in proven, standard CMOS process technology.
Features: • CMOS RF synthesizers with integrated VCOs, loop filters and varactors • Low profile packages

Description	RF1 (MHz)	RF2 (MHz)	IF (MHz)	Settling Time (µs)	Input RF (MHz)	Package	Digi-Key Part No.	Price Each 1	25	Silicon Labs Part No.	Evaluation Board Digi-Key Part No.	Price Each	Silicon Labs Part No.
General Purpose	N/A	N/A	62.5 ~ 1000	200*	2 ~ 26	28-MLP	336-1097-ND	6.73	5.30	SI4112-BM	336-1098-ND	225.00	SI4112M-EVB
General Purpose	900 ~ 2050	750 ~ 1500	N/A	200*	2 ~ 26	28-MLP	336-1099-ND	8.73	7.86	SI4113-D-GM	336-1100-ND	225.00	SI4113M-EVB
General Purpose	N/A	750 ~ 1500	62.5 ~ 1000	200*	2 ~ 26	28-MLP	336-1103-ND	8.73	7.86	SI4122-D-GM	336-1104-ND	225.00	SI4122M-EVB
General Purpose	900 ~ 2050	N/A	62.5 ~ 1000	200*	2 ~ 26	28-MLP	336-1107-ND	8.73	7.86	SI4123-BM	336-1108-ND	225.00	SI4123M-EVB
802.11b,g and Ism Band	N/A	2025 ~ 2300	62.5 ~ 1000	80†	2 ~ 50	28-MLP	336-1111-ND	8.73	7.86	SI4126-BM	336-1112-ND	225.00	SI4126M-EVB
General Purpose	900 ~ 2050	750 ~ 1500	62.5 ~ 1000	200*	2 ~ 26	28-MLP	336-1113-ND	11.37	10.24	SI4133-BM	336-1116-ND	225.00	SI4133M-EVB
802.11b,g and Ism Band	2300 ~ 2500	2025 ~ 2300	62.5 ~ 1000	80†	2 ~ 50	28-MLP	336-1118-ND	10.89	9.80	SI4136-BM	336-1119-ND	225.00	SI4136M-EVB

* For a 200 kHz update rate † For update rates > 500 kHz

DS00092D-ND	Embedded Control Handbook, Volume 1	$9.95
DS00711-ND	Embedded Control Handbook, Update 2000	$5.00

PIC10F Devices

Memory Size: Program Words	RAM Bytes	EEPROM Bytes	I/O Pins	Timer/ Counters 8-bit	UART	I²C™	SPI™	A/D	Analog Comp.	Int. Osc.	Clock Speed (MHz)	VCC (V)	Operating Temp.	Pkg.	Digi-Key Part No.	Price Each 1	25	100	Tape & Reel Pricing* 3,000
256 x 12	16	—	4	1	—	—	—	—	—	Y (4MHz)	4	2.0 ~ 5.5	Ind.	8-DIP	PIC10F200-I/P-ND	1.03	.67	.59	—
														SOT23-6	PIC10F200T-I/OTCT-ND	1.04	.93	.84	550.00/M
256 x 12	16	—	4	1	—	—	—	—	1	Y (4MHz)	4	2.0 ~ 5.5	Ind.	8-DIP	PIC10F204-I/P-ND ***NEW!***	1.18	.72	.68	—
														SOT-23-6	PIC10F204T-I/OTCT-ND ***NEW!***	1.26	1.13	1.02	650.00/M
512 x 12	24	—	4	1	—	—	—	—	1	Y (4MHz)	4	2.0 ~ 5.5	Ind.	8-DIP	PIC10F202-I/P-ND	1.18	.76	.68	—
														SOT23-6	PIC10F202T-I/OTCT-ND	1.26	1.13	1.02	650.00/M
512 x 12	24	—	4	1	—	—	—	—	1	Y (4MHz)	4	2.0 ~ 5.5	Ind.	8-DIP	PIC10F206-I/P-ND	1.33	.86	.78	—
														SOT23-6	PIC10F206T-I/OTCT-ND	1.43	1.28	1.15	740.00/M

*For Tape & Reel Part No., change CT-ND to TR-ND

PIC12F Devices

Memory Size: Program Words	RAM Bytes	EEPROM Bytes	I/O Pins	Timer/ Counters 8/16-bit	UART	I²C™	SPI™	CAN/ USB	PWM	A/D	Analog Comp.	Int. Osc.	Clock Speed (MHz)	VCC (V)	Operating Temp.	Pkg.	Digi-Key Part No.	Price Each 1	25	100
512 x 12	25	—	6	1/—	—	—	—	—	—	—	—	Y (4MHz)	4	2.0 ~ 5.5	Ind.	8-DIP	PIC12F508-I/P-ND	1.45	.94	.85
																8-SOIC	PIC12F508-I/SN-ND	1.45	.94	.85
																8-MSOP	PIC12F508-I/MS-ND ***NEW!***	1.58	.98	.93
1K x 12	41	—	6	1/—	—	—	—	—	—	—	—	Y (4MHz)	4	2.0 ~ 5.5	Ind.	8-DIP	PIC12F509-I/P-ND	1.50	.96	.88
																8-SOIC	PIC12F509-I/SN-ND	1.48	.95	.87
																8-MSOP	PIC12F509-I/MS-ND ***NEW!***	1.63	1.01	.96
1K x 14	64	128	6	1/1	—	—	—	—	—	—	1	Y (4MHz)	20	2.0 ~ 5.5	Ind.	8-DIP	PIC12F629-I/P-ND	1.75	1.08	1.02
																8-SOIC	PIC12F629-I/SN-ND	1.75	1.08	1.02
																8-DFN	PIC12F629-I/MF-ND	1.98	1.22	1.16
1K x 14	64	128	6	1/1	—	—	—	—	—	—	1	Y (4MHz)	20	2.0 ~ 5.5	Ext.	8-DIP	PIC12F629-E/P-ND	1.90	1.17	1.11
																8-SOIC	PIC12F629-E/SN-ND	1.90	1.22	1.11
																8-DFN	PIC12F629-E/MF-ND	2.18	1.41	1.28
1K x 14	64	128	6	1/1	—	—	—	—	—	—	1	Y (8MHz)	20	2.0 ~ 5.5	Ind.	8-DFN	PIC12F635-I/MF-ND	2.20	1.41	1.29
																8-DIP	PIC12F635-I/P-ND	2.05	1.33	1.20
																8-SOIC	PIC12F635-I/SN-ND	2.05	1.33	1.20
1K x 14	64	128	6	1/1	—	—	—	—	—	4-ch. 10-bit	1	Y (4MHz)	20	2.0 ~ 5.5	Ind.	8-DIP	PIC12F675-I/P-ND	2.15	1.33	1.26
																8-SOIC	PIC12F675-I/SN-ND	2.15	1.38	1.26
																8-DFN	PIC12F675-I/MF-ND	2.43	1.56	1.41
1K x 14	64	128	6	1/1	—	—	—	—	—	4-ch. 10-bit	1	Y (4MHz)	20	2.0 ~ 5.5	Ext.	8-DIP	PIC12F675-E/P-ND	2.40	1.55	1.40
																8-SOIC	PIC12F675-E/SN-ND	2.40	1.55	1.40
																8-DFN	PIC12F675-E/MF-ND	2.65	1.71	1.55
2K x 14	128	256	6	2/1	—	—	—	—	1	4-ch. 10-bit	1	Y (8MHz)	20	2.0 ~ 5.5	Ind.	8-DFN	PIC12F683-I/MF-ND	2.70	1.74	1.58
																8-DIP	PIC12F683-I/P-ND	2.53	1.63	1.47
																8-SOIC	PIC12F683-I/SN-ND	2.53	1.63	1.47

PIC16F Devices

Memory Size: Program Words	RAM Bytes	EEPROM Bytes	I/O Pins	Timer/ Counters 8/16-bit	UART	I²C™	SPI™	CAN/ USB	PWM	A/D	Analog Comp.	Int. Osc.	Clock Speed (MHz)	VCC (V)	Operating Temp.	Pkg.	Digi-Key Part No.	Price Each 1	25	100
512 x 12	25	—	12	1/—	—	—	—	—	—	—	—	—	20	2.0 ~ 5.5	Ind.	18-DIP	PIC16F54-I/P-ND	2.13	1.32	1.25
																18-SOIC	PIC16F54-I/SO-ND	2.13	1.32	1.25
																18-SSOP	PIC16F54-I/SS-ND	2.13	1.37	1.25
512 x 14	36	64	13	1/—	—	—	—	—	—	—	—	—	4	2.0 ~ 6.0	Com.	18-DIP	PIC16LF83-04/P-ND	6.48	4.28	3.98
															Ind.	18-DIP	PIC16LF83-04I/P-ND	7.10	4.69	4.36
															Com.	18-SOIC	PIC16LF83-04/SO-ND	6.58	4.34	4.04
															Ind.	18-SOIC	PIC16LF83-04I/SO-ND	7.23	4.77	4.44
1K x 12	72	—	12	1/—	—	—	—	—	—	—	—	Y (4MHz)	20	2.0 ~ 5.5	Ind.	14-DIP	PIC16F505-I/P-ND	1.73	1.12	1.00
																14-SOIC	PIC16F505-I/SL-ND	1.70	1.09	.99
																14-TSSOP	PIC16F505-I/ST-ND	2.00	1.29	1.17
1K x 14	224	128	16	2/1	1 (AUSART)	—	—	—	1	—	2	Y (4MHz)	4	3.0 ~ 5.5	Com.	18-DIP	PIC16F627-04/P-ND	3.33	2.13	1.95
															Ind.	18-DIP	PIC16F627-04I/P-ND	3.65	2.19	2.13
															Com.	18-SOIC	PIC16F627-04/SO-ND	3.38	2.03	1.98
															Ind.	18-SOIC	PIC16F627-04I/SO-ND	3.73	2.30	2.17
															Com.	20-SSOP	PIC16F627-04/SS-ND	3.65	2.19	2.13
															Ind.	20-SSOP	PIC16F627-04I/SS-ND	4.00	2.40	2.34
1K x 14	224	128	16	2/1	1 (AUSART)	—	—	—	1	—	2	Y (4MHz)	4	2.0 ~ 5.5	Com.	18-DIP	PIC16LF627-04/P-ND	3.48	2.09	2.04
															Ind.	18-DIP	PIC16LF627-04I/P-ND	3.83	2.30	2.23
															Com.	18-SOIC	PIC16LF627-04/SO-ND	3.55	2.29	2.08
															Ind.	18-SOIC	PIC16LF627-04I/SO-ND	3.90	2.34	2.28
															Com.	20-SSOP	PIC16LF627-04/SS-ND	3.83	2.30	2.23
															Ind.	20-SSOP	PIC16LF627-04I/SS-ND	4.20	2.60	2.46
1K x 14	224	128	16	2/1	1 (AUSART)	—	—	—	1	—	2	Y (4MHz)	20	3.0 ~ 5.5	Com.	18-DIP	PIC16F627-20/P-ND	3.55	2.20	2.08
															Ind.	18-DIP	PIC16F627-20I/P-ND	3.90	2.34	2.28
															Com.	18-SOIC	PIC16F627-20/SO-ND	3.63	2.18	2.11
															Ind.	18-SOIC	PIC16F627-20I/SO-ND	3.98	2.39	2.33
															Com.	20-SSOP	PIC16F627-20/SS-ND	3.90	2.34	2.28
															Ind.	20-SSOP	PIC16F627-20I/SS-ND	4.30	2.58	2.51
1K x 14	224	128	16	2/1	1 (AUSART)	—	—	—	1	—	2	Y (4MHz)	20	3.0 ~ 5.5	Ind.	28-QFN	PIC16F627A-I/ML-ND	3.35	1.91	1.70
																18-DIP	PIC16F627A-I/P-ND	2.80	1.53	1.42
																18-SOIC	PIC16F627A-I/SO-ND	2.85	1.56	1.45
																20-SSOP	PIC16F627A-I/SS-ND	3.10	1.69	1.57
1K x 14	224	128	16	2/1	1 (AUSART)	—	—	—	1	—	2	Y (4MHz)	20	2.0 ~ 5.5	Ind.	28-QFN	PIC16LF627A-I/ML-ND	3.45	1.89	1.75
																18-DIP	PIC16LF627A-I/P-ND	2.93	1.67	1.49
																18-SOIC	PIC16LF627A-I/SO-ND	3.03	1.72	1.53
																20-SSOP	PIC16LF627A-I/SS-ND	3.25	1.85	1.65
1K x 14	64	128	12	1/1	—	—	—	—	—	—	1	Y (4MHz)	20	4.5 ~ 5.5	Ind.	14-DIP	PIC16F630-I/P-ND	2.05	1.33	1.20
																14-SOIC	PIC16F630-I/SL-ND	2.05	1.27	1.20
																14-TSSOP	PIC16F630-I/ST-ND	2.28	1.42	1.34
1K x 14	64	128	12	1/1	—	—	—	—	—	8-ch. 10-bit	1	Y (4MHz)	20	2.0 ~ 5.5	Ind.	14-DIP	PIC16F676-I/P-ND	2.38	1.52	1.38
																14-SOIC	PIC16F676-I/SL-ND	2.38	1.52	1.38
																14-TSSOP	PIC16F676-I/ST-ND	2.60	1.68	1.52
1K x 14	128	128	16	2/1	—	1	1	—	1	5-ch. 10-bit	—	Y (8MHz)	20	4.0 ~ 5.5	Ind.	28-QFN	PIC16F818-I/ML-ND	4.05	2.31	2.06
																18-DIP	PIC16F818-I/P-ND	3.38	1.92	1.71
																18-SOIC	PIC16F818-I/SO-ND	3.43	1.95	1.74
																20-SSOP	PIC16F818-I/SS-ND	3.73	2.12	1.89

Note: **Operating Temperature Range:** • Industrial: -40° ~ 185°F (-40° ~ 85°C) • Commercial: 32° ~ 158°F (0° ~ 70°C) • Extended: -40° ~ 257°F (-40° ~ 125°C)

(Continued)

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PIC16F Devices *(Cont.)*

Memory Size																		Price Each		
Program Words	RAM Bytes	EEPROM Bytes	I/O Pins	Timer/ Counters 8/16-bit	UART	I²C™	SPI™	CAN/ USB	PWM	A/D	Analog Comp.	Int. Osc.	Clock Speed (MHz)	VCC (V)	Operating Temp.	Pkg.	Digi-Key Part No.	1	25	100
1K x 14	128	128	16	2/1	—	1	1	—	1	5-ch. 10-bit	—	Y (8MHz)	20	2.0 ~ 5.5	Ind.	28-QFN	PIC16LF818-I/ML-ND	4.08	2.32	2.07
																18-DIP	PIC16LF818-I/P-ND	3.53	1.93	1.79
																18-SOIC	PIC16LF818-I/SO-ND	3.63	1.97	1.83
																20-SSOP	PIC16LF818-I/SS-ND	3.90	2.22	1.98
1K x 14	68	64	13	1/1	—	—	—	—	—	—	—	—	4	2.0 ~ 6.0	Com.	18-DIP	PIC16F84-04/P-ND	7.15	4.72	4.39
															Ind.	18-DIP	PIC16F84-04I/P-ND	7.88	5.20	4.84
															Com.	18-SOIC	PIC16F84-04/SO-ND	7.28	4.81	4.47
															Ind.	18-SOIC	PIC16F84-04I/SO-ND	8.03	5.30	4.93
1K x 14	68	64	13	1/1	—	—	—	—	—	—	—	—	4	2.0 ~ 6.0	Com.	18-DIP	PIC16LF84-04/P-ND	7.48	4.94	4.60
															Ind.	18-DIP	PIC16LF84-04I/P-ND	8.25	5.45	5.06
															Com.	18-SOIC	PIC16LF84-04/SO-ND	7.63	5.04	4.68
1K x 14	68	64	13	1/1	—	—	—	—	—	—	—	—	10	2.0 ~ 6.0	Ind.	18-SOIC	PIC16LF84-04I/SO-ND	8.38	5.53	5.14
															Com.	18-DIP	PIC16F84-10/P-ND	7.68	4.88	4.71
															Ind.	18-DIP	PIC16F84-10I/P-ND	8.45	5.37	5.19
															Com.	18-SOIC	PIC16F84-10/SO-ND	7.80	5.15	4.79
															Ind.	18-SOIC	PIC16F84-10I/SO-ND	8.60	5.47	5.28
1K x 14	68	64	13	1/1	—	—	—	—	—	—	—	—	4	2.0 ~ 5.5	Com.	18-DIP	PIC16F84A-04/P-ND	5.85	3.75	3.42
															Ind.	18-DIP	PIC16F84A-04I/P-ND	6.43	3.96	3.75
															Com.	18-SOIC	PIC16F84A-04/SO-ND	5.95	3.84	3.48
															Ind.	18-SOIC	PIC16F84A-04I/SO-ND	6.53	4.21	3.82
															Com.	20-SSOP	PIC16F84A-04/SS-ND	6.35	4.09	3.71
															Ind.	20-SSOP	PIC16F84A-04I/SS-ND	6.95	4.48	4.06
1K x 14	68	64	13	1/1	—	—	—	—	—	—	—	—	4	2.0 ~ 5.5	Com.	18-DIP	PIC16LF84A-04/P-ND	6.13	3.95	3.59
															Ind.	18-DIP	PIC16LF84A-04I/P-ND	6.70	4.29	3.92
															Com.	18-SOIC	PIC16LF84A-04/SO-ND	6.25	3.85	3.65
															Ind.	18-SOIC	PIC16LF84A-04I/SO-ND	6.83	4.37	4.00
															Com.	20-SSOP	PIC16LF84A-04/SS-ND	6.65	4.29	3.89
															Ind.	20-SSOP	PIC16LF84A-04I/SS-ND	7.23	4.63	4.23
1K x 14	68	64	13	1/1	—	—	—	—	—	—	—	—	20	2.0 ~ 5.5	Com.	18-DIP	PIC16F84A-20/P-ND	6.25	3.85	3.65
															Ind.	18-DIP	PIC16F84A-20I/P-ND	6.85	4.42	4.01
															Com.	18-SOIC	PIC16F84A-20/SO-ND	6.35	4.09	3.71
															Ind.	18-SOIC	PIC16F84A-20I/SO-ND	6.98	4.47	4.07
															Com.	20-SSOP	PIC16F84A-20/SS-ND	6.75	4.32	3.95
															Ind.	20-SSOP	PIC16F84A-20I/SS-ND	7.35	4.71	4.30
2K x 12	72	—	20	1/—	—	—	—	—	—	—	—	—	20	2.0 ~ 5.5	Ind.	28-DIP	PIC16F57-I/P-ND	2.83	1.82	1.66
																28-SOIC	PIC16F57-I/SO-ND	2.73	1.76	1.60
																28-DIP .3"	PIC16F57-I/SP-ND	2.83	1.82	1.66
																28-SSOP	PIC16F57-I/SS-ND	2.90	1.87	1.70
2K x 12	134	—	32	1/—	—	—	—	—	—	—	—	—	20	2.0 ~ 5.5	Ind.	40-Dip	PIC16F59-I/P-ND ***NEW!***	2.83	1.75	1.65
																44-TQFP	PIC16F59-I/PT-ND ***NEW!***	2.90	1.79	1.70
2K x 14	224	128	16	2/1	1 (AUSART)	—	—	—	1	—	2	Y (4MHz)	4	3.0 ~ 5.5	Com.	18-DIP	PIC16F628-04/P-ND	3.78	2.27	2.20
															Ind.	18-DIP	PIC16F628-04I/P-ND	4.13	2.48	2.42
															Com.	18-SOIC	PIC16F628-04/SO-ND	3.85	2.31	2.25
															Ind.	18-SOIC	PIC16F628-04I/SO-ND	4.23	2.62	2.48
															Com.	20-SSOP	PIC16F628-04/SS-ND	4.13	2.64	2.42
															Ind.	20-SSOP	PIC16F628-04I/SS-ND	4.55	2.81	2.66
2K x 14	224	128	16	2/1	1 (AUSART)	—	—	—	1	—	2	Y (4MHz)	4	2.0 ~ 5.5	Com.	18-DIP	PIC16LF628-04/P-ND	3.95	2.37	2.31
															Ind.	18-DIP	PIC16LF628-04I/P-ND	4.35	2.68	2.54
															Com.	18-SOIC	PIC16LF628-04/SO-ND	4.03	2.42	2.36
															Ind.	18-SOIC	PIC16LF628-04I/SO-ND	4.45	2.67	2.60
															Com.	20-SSOP	PIC16LF628-04/SS-ND	4.35	2.68	2.54
															Ind.	20-SSOP	PIC16LF628-04I/SS-ND	4.78	2.87	2.80
2K x 14	224	128	16	2/1	1 (AUSART)	—	—	—	1	—	2	Y (4MHz)	20	3.0 ~ 5.5	Com.	18-DIP	PIC16F628-20/P-ND	4.03	2.42	2.36
															Ind.	18-DIP	PIC16F628-20I/P-ND	4.45	2.67	2.60
															Com.	18-SOIC	PIC16F628-20/SO-ND	4.10	2.46	2.40
															Ind.	18-SOIC	PIC16F628-20I/SO-ND	4.53	2.72	2.64
															Com.	20-SSOP	PIC16F628-20/SS-ND	4.45	2.67	2.60
															Ind.	20-SSOP	PIC16F628-20I/SS-ND	4.88	2.93	2.86
2K x 14	224	128	16	2/1	1 (AUSART)	—	—	—	1	—	2	Y (4MHz)	20	3.0 ~ 5.5	Ind.	28-QFN	PIC16F628A-I/ML-ND	3.70	2.07	2.00
																18-DIP	PIC16F628A-I/P-ND	3.18	1.81	1.61
																18-SOIC	PIC16F628A-I/SO-ND	3.25	1.85	1.65
																20-SSOP	PIC16F628A-I/SS-ND	3.50	1.99	1.78
2K x 14	224	128	16	2/1	1 (AUSART)	—	—	—	1	—	2	Y (4MHz)	20	2.0 ~ 5.5	Ind.	28-QFN	PIC16LF628A-I/ML-ND	3.88	2.27	2.10
																18-DIP	PIC16LF628A-I/P-ND	3.35	1.91	1.70
																18-SOIC	PIC16LF628A-I/SO-ND	3.40	1.94	1.73
																20-SSOP	PIC16LF628A-I/SS-ND	3.68	2.09	1.86
2K x 14	128	256	12	1/1	—	—	—	—	—	—	2	Y (8MHz)	20	2.0 ~ 5.5	Ind.	14-DIP	PIC16F636-I/P-ND	2.38	1.52	1.38
																14-SOIC	PIC16F636-I/SL-ND	2.38	1.46	1.38
																14-TSSOP	PIC16F636-I/ST-ND	2.53	1.63	1.47
2K x 14	128	256	12	2/1	—	—	—	—	4	8-ch. 10-bit	2	Y (8MHz)	20	4.0 ~ 5.5	Ind.	14-DIP	PIC16F684-I/P-ND	2.68	1.72	1.57
																14-SOIC	PIC16F684-I/SL-ND	2.68	1.72	1.57
																14-TSSOP	PIC16F684-I/ST-ND	2.93	1.81	1.72
2K x 14	128	—	13	2/1	—	—	—	—	1	4-ch. 8-bit	—	—	20	2.0 ~ 5.5	Ind.	18-DIP	PIC16F716-I/P-ND	2.68	1.72	1.57
																18-SOIC	PIC16F716-I/SO-ND	2.68	1.72	1.57
																20-SSOP	PIC16F716-I/SS-ND	2.68	1.72	1.57
2K x 14	128	—	22	2/1	—	1	1	—	1	5-ch. 8-bit	—	—	20	4.0 ~ 5.5	Ind.	28-DIP .3"	PIC16F72-I/SP-ND	3.58	2.29	2.10
																28-SOIC	PIC16F72-I/SO-ND	3.58	2.29	2.10
																28-SSOP	PIC16F72-I/SS-ND	3.75	2.40	2.19
																28-QFN	PIC16F72-I/ML-ND	3.58	2.29	2.10
2K x 14	128	—	22	2/1	—	1	1	—	1	5-ch. 8-bit	—	—	20	2.0 ~ 5.5	Ind.	28-QFN	PIC16LF72-I/ML-ND	3.78	2.44	2.20
																28-SOIC	PIC16LF72-I/SO-ND	3.78	2.33	2.20
																28-DIP .3"	PIC16LF72-I/SP-ND	3.78	2.44	2.20
																28-SSOP	PIC16LF72-I/SS-ND	3.93	2.52	2.30
2K x 14	128	128	16	2/1	—	1	1	—	1	5-ch. 10-bit	—	Y (8MHz)	20	4.0 ~ 5.5	Ind.	28-QFN	PIC16F819-I/ML-ND	4.55	2.49	2.31
																18-DIP	PIC16F819-I/P-ND	3.85	2.19	1.95
																18-SOIC	PIC16F819-I/SO-ND	3.90	2.22	1.98
																20-SSOP	PIC16F819-I/SS-ND	4.20	2.39	2.14
2K x 14	128	128	16	2/1	—	1	1	—	1	5-ch. 10-bit	—	Y (8MHz)	20	2.0 ~ 5.5	Ind.	28-QFN	PIC16LF819-I/ML-ND	4.55	2.49	2.31
																18-DIP	PIC16LF819-I/P-ND	4.03	2.20	2.04
																18-SOIC	PIC16LF819-I/SO-ND	4.10	2.33	2.08
																20-SSOP	PIC16LF819-I/SS-ND	4.43	2.52	2.24
2K x 14	128	64	22	2/1	1 (AUSART)	—	—	—	1	5-ch. 10-bit	—	—	20	4.0 ~ 5.5	Ind.	28-SOIC	PIC16F870-I/SO-ND	4.80	3.10	2.81
																28-DIP .3"	PIC16F870-I/SP-ND	4.80	2.97	2.81
																28-SSOP	PIC16F870-I/SS-ND	4.98	3.21	2.90

Note: Operating Temperature Range: • Industrial: -40° ~ 185°F (-40° ~ 85°C) • Commercial: 32° ~ 158°F (0° ~ 70°C) • Extended: -40° ~ 257°F (-40° ~ 125°C)

(Continued)

PIC16F Devices *(Cont.)*

Memory Size																	
Program Words	RAM Bytes	EEPROM Bytes	I/O Pins	Timer/ Counters 8/16-bit	UART	I^2C™	SPI™	CAN/ USB	PWM	A/D	Analog Comp.	Int. Osc.	Clock Speed (MHz)	VCC (V)	Operating Temp.	Pkg.	Digi-Key Part No.	Price Each 1	25	100
2K x 14	128	64	22	2/1	1 (AUSART)	—	—	—	1	5-ch. 10-bit	—	—	20	2.0 ~ 5.5	Ind.	28-SOIC	PIC16LF870-I/SO-ND	5.08	3.27	2.96
																28-DIP .3"	PIC16LF870-I/SP-ND	5.08	3.27	2.96
																28-SSOP	PIC16LF870-I/SS-ND	5.20	3.35	3.04
2K x 14	128	64	33	2/1	1 (AUSART)	—	—	—	1	8-ch. 10-bit	—	—	20	4.0 ~ 5.5	Ind.	44-PLCC	PIC16F871-I/L-ND	6.38	4.65	4.11
																40-DIP	PIC16F871-I/P-ND	5.70	3.19	3.08
2K x 14	128	64	33	2/1	1 (AUSART)	—	—	—	1	8-ch. 10-bit	—	—	20	2.0 ~ 5.5	Ind.	44-PLCC	PIC16LF871-I/L-ND	6.70	4.68	4.33
																40-DIP	PIC16LF871-I/P-ND	5.98	3.49	3.23
																44-TQFP	PIC16LF871-I/PT-ND	8.05	4.67	4.36
2K x 14	128	64	22	2/1	—	1 (Master/ Slave)	1	—	1	5-ch. 10-bit	—	—	20	4.0 ~ 5.5	Ind.	28-SOIC	PIC16F872-I/SO-ND	4.80	3.10	2.81
																28-DIP .3"	PIC16F872-I/SP-ND	4.80	3.10	2.81
																28-SSOP	PIC16F872-I/SS-ND	4.98	3.07	2.90
2K x 14	128	64	22	2/1	—	1 (Master/ Slave)	1	—	1	5-ch. 10-bit	—	—	20	2.0 ~ 5.5	Ind.	28-SOIC	PIC16LF872-I/SO-ND	5.08	3.27	2.96
																28-DIP .3"	PIC16LF872-I/SP-ND	5.08	3.27	2.96
																28-SSOP	PIC16LF872-I/SS-ND	5.20	3.35	3.04
4K x 14	256	256	16	2/1	1 (AUSART)	—	—	—	1	—	2	Y (4MHz)	20	3.0 ~ 5.5	Ind.	28-QFN	PIC16F648A-I/ML-ND	4.13	2.35	2.10
																18-DIP	PIC16F648A-I/P-ND	3.63	1.97	1.83
																18-SOIC	PIC16F648A-I/SO-ND	3.70	2.11	1.87
																20-SSOP	PIC16F648A-I/SS-ND	3.98	2.26	2.02
4K x 14	256	256	12	1/1	1 (EUSART)	—	—	—	—	8-ch. 10-bit	2	Y (8MHz)	20	4.5 ~ 5.5	Ind.	14-DIP	PIC16F688-I/P-ND	3.20	1.97	1.87
																14-SOIC	PIC16F688-I/SL-ND	3.20	2.05	1.87
																14-TSSOP	PIC16F688-I/ST-ND	3.45	2.21	2.02
4K x 14	192	—	22	2/1	1 (USART)	1	1	—	2	5-ch. 8-bit	—	—	20	4.0 ~ 5.5	Ind.	28-QFN	PIC16F73-I/ML-ND	5.60	3.59	3.27
																28-SOIC	PIC16F73-I/SO-ND	5.60	3.59	3.27
																28-DIP .3"	PIC16F73-I/SP-ND	5.60	3.59	3.27
																28-SSOP	PIC16F73-I/SS-ND	5.75	3.55	3.36
4K x 14	192	—	22	2/1	1 (USART)	1	1	—	2	5-ch. 8-bit	—	—	20	2.0 ~ 5.5	Ind.	28-QFN	PIC16LF73-I/ML-ND	5.88	3.79	3.44
																28-SOIC	PIC16LF73-I/SO-ND	5.88	3.79	3.44
																28-DIP .3"	PIC16LF73-I/SP-ND	5.88	3.79	3.44
																28-SSOP	PIC16LF73-I/SS-ND	6.03	3.86	3.53
4K x 14	368	—	25	2/1	1 (AUSART)	1 (Master/ Slave)	1	—	2	11-ch. 10-bit	2	—	20	4.0 ~ 5.5	Ind.	28-QFN	PIC16F737-I/ML-ND	6.83	3.99	3.70
																28-SOIC	PIC16F737-I/SO-ND	6.33	3.70	3.42
																28-DIP .3"	PIC16F737-I/SP-ND	6.18	3.61	3.35
																28-SSOP	PIC16F737-I/SS-ND	6.50	3.80	3.52
4K x 14	368	—	25	2/1	1 (AUSART)	1 (Master/ Slave)	1	—	2	11-ch. 10-bit	2	—	20	2.0 ~ 5.5	Ind.	28-QFN	PIC16LF737-I/ML-ND	7.15	4.18	3.87
																28-SOIC	PIC16LF737-I/SO-ND	6.95	4.06	3.75
																28-DIP .3"	PIC16LF737-I/SP-ND	6.80	3.98	3.68
																28-SSOP	PIC16LF737-I/SS-ND	7.03	4.11	3.80
4K x 14	192	—	33	2/1	1 (USART)	1	1	—	2	8-ch. 8-bit	—	—	20	4.0 ~ 5.5	Ind.	44-PLCC	PIC16F74-I/L-ND	7.60	4.83	4.66
																44-QFN	PIC16F74-I/ML-ND	8.48	5.43	4.96
																40-DIP	PIC16F74-I/P-ND	6.78	4.19	3.97
																44-TQFP	PIC16F74-I/PT-ND	8.13	5.20	4.76
4K x 14	192	—	33	2/1	1 (USART)	1	1	—	2	8-ch. 8-bit	—	—	20	2.0 ~ 5.5	Ind.	44-PLCC	PIC16LF74-I/L-ND	7.98	5.27	4.90
																44-QFN	PIC16LF74-I/ML-ND	8.88	5.68	5.18
																40-DIP	PIC16LF74-I/P-ND	7.13	4.59	4.16
																44-TQFP	PIC16LF74-I/PT-ND	8.55	5.48	5.00
4K x 14	368	—	36	2/1	1 (AUSART)	1 (Master/ Slave)	1	—	2	14-ch. 10-bit	2	—	20	4.0 ~ 5.5	Ind.	40-QFN	PIC16F747-I/ML-ND	7.63	4.46	4.12
																40-DIP	PIC16F747-I/P-ND	7.13	4.17	3.85
																44-TQFP	PIC16F747-I/PT-ND	7.25	4.06	3.92
4K x 14	368	—	36	2/1	1 (AUSART)	1 (Master/ Slave)	1	—	2	14-ch. 10-bit	2	—	20	2.0 ~ 5.5	Ind.	40-QFN	PIC16LF747-I/ML-ND	8.38	4.90	4.53
																40-DIP	PIC16LF747-I/P-ND	7.83	4.57	4.23
																44-TQFP	PIC16LF747-I/PT-ND	7.98	4.47	4.32
4K x 14	368	256	16	2/1	1 (AUSART)	—	—	—	1	—	2	Y (8MHz)	20	3.0 ~ 5.5	Ind.	28-QFN	PIC16F87-I/ML-ND	5.00	2.73	2.53
																18-DIP	PIC16F87-I/P-ND	4.45	2.53	2.26
																18-SOIC	PIC16F87-I/SO-ND	4.55	2.49	2.31
																20-SSOP	PIC16F87-I/SS-ND	4.88	2.77	2.48
4K x 14	368	256	16	2/1	1 (AUSART)	—	—	—	1	—	2	Y (8MHz)	20	2.0 ~ 5.5	Ind.	28-QFN	PIC16LF87-I/ML-ND	5.23	2.86	2.65
																18-DIP	PIC16LF87-I/P-ND	4.68	2.66	2.37
																18-SOIC	PIC16LF87-I/SO-ND	4.75	2.70	2.41
																20-SSOP	PIC16LF87-I/SS-ND	5.15	2.93	2.61
4K x 14	192	128	22	2/1	1 (AUSART)	1 (Master/ Slave)	1	—	2	5-ch. 10-bit	—	—	4	4.0 ~ 5.5	Com.	28-SOIC	PIC16F873-04/SO-ND	7.40	4.74	4.33
															Ind.	28-SOIC	PIC16F873-04I/SO-ND	8.13	5.89	5.25
															Com.	28-DIP .3"	PIC16F873-04/SP-ND	7.40	4.74	4.33
															Ind.	28-DIP .3"	PIC16F873-04I/SP-ND	8.13	5.37	5.00
4K x 14	192	128	22	2/1	1 (AUSART)	1 (Master/ Slave)	1	—	2	5-ch. 10-bit	—	—	4	2.0 ~ 5.5	Com.	28-SOIC	PIC16LF873-04/SO-ND	7.78	5.67	5.02
															Ind.	28-SOIC	PIC16LF873-04I/SO-ND	8.55	6.20	5.52
															Com.	28-DIP .3"	PIC16LF873-04/SP-ND	7.78	5.14	4.77
															Ind.	28-DIP .3"	PIC16LF873-04I/SP-ND	8.55	5.48	5.00
4K x 14	192	128	22	2/1	1 (AUSART)	1 (Master/ Slave)	1	—	2	5-ch. 10-bit	—	—	20	4.0 ~ 5.5	Com.	28-SOIC	PIC16F873-20/SO-ND	7.93	5.77	5.12
															Ind.	28-SOIC	PIC16F873-20I/SO-ND	8.70	6.30	5.62
															Com.	28-DIP .3"	PIC16F873-20/SP-ND	7.93	5.24	4.87
															Ind.	28-DIP .3"	PIC16F873-20I/SP-ND	8.70	5.75	5.35
4K x 14	192	128	22	2/1	1 (AUSART)	1	1	—	2	5-ch. 10-bit	2	—	20	4.0 ~ 5.5	Ind.	28-QFN	PIC16F873A-I/ML-ND	7.25	4.48	4.24
																28-SOIC	PIC16F873A-I/SO-ND	6.80	4.21	3.98
																28-DIP .3"	PIC16F873A-I/SP-ND	6.80	4.38	3.98
																28-SSOP	PIC16F873A-I/SS-ND	6.98	4.47	4.07
4K x 14	192	128	22	2/1	1 (AUSART)	1 (Master/ Slave)	1	—	2	5-ch. 10-bit	2	—	20	2.0 ~ 5.5	Ind.	28-QFN	PIC16LF873A-I/ML-ND	7.60	4.90	4.44
																28-SOIC	PIC16LF873A-I/SO-ND	7.15	4.58	4.18
																28-DIP .3"	PIC16LF873A-I/SP-ND	7.15	4.58	4.18
																28-SSOP	PIC16LF873A-I/SS-ND	7.50	4.83	4.39
4K x 14	192	128	33	2/1	1 (AUSART)	1 (Master/ Slave)	1	—	2	8-ch. 10-bit	—	—	4	4.0 ~ 5.5	Com.	44-PLCC	PIC16F874-04/L-ND	9.05	7.32	6.12
															Ind.	44-PLCC	PIC16F874-04I/L-ND	9.95	7.74	6.74
															Com.	40-DIP	PIC16F874-04/P-ND	8.08	5.33	4.97
															Ind.	40-DIP	PIC16F874-04I/P-ND	8.90	5.88	5.46
4K x 14	192	128	33	2/1	1 (AUSART)	1 (Master/ Slave)	1	—	2	8-ch. 10-bit	—	—	4	2.0 ~ 5.5	Com.	44-PLCC	PIC16LF874-04/L-ND	9.48	7.66	6.42
															Ind.	44-PLCC	PIC16LF874-04I/L-ND	10.45	8.45	7.07
															Com.	40-DIP	PIC16LF874-04/P-ND	8.48	5.39	5.20
															Ind.	40-DIP	PIC16LF874-04I/P-ND	9.33	5.94	5.73
															Com.	44-PQFP	PIC16LF874-04/PQ-ND	10.75	7.10	6.61
															Ind.	44-PQFP	PIC16LF874-04I/PQ-ND	11.85	7.83	7.28
															Com.	44-TQFP	PIC16LF874-04/PT-ND	11.43	7.55	7.02
															Ind.	44-TQFP	PIC16LF874-04I/PT-ND	12.60	8.02	7.74
4K x 14	192	128	33	2/1	1 (AUSART)	1 (Master/ Slave)	1	—	2	8-ch. 10-bit	—	—	20	4.0 ~ 5.5	Com.	40-DIP	PIC16F874-20/P-ND	8.65	5.51	5.32
															Ind.	40-DIP	PIC16F874-20I/P-ND	9.50	6.27	5.84
															Com.	44-PLCC	PIC16F874-20/L-ND	9.68	7.52	6.55
															Ind.	44-PLCC	PIC16F874-20I/L-ND	10.65	8.61	7.21

Note: **Operating Temperature Range:** • Industrial: -40° ~ 185°F (-40° ~ 85°C) • Commercial: 32° ~ 158°F (0° ~ 70°C) • Extended: -40° ~ 257°F (-40° ~ 125°C)

(Continued)

PIC16F Devices (Cont.)

Memory Size																		
Program Words	RAM Bytes	EEPROM Bytes	I/O Pins	Timer/ Counters 8/16-bit	UART	I²C™	SPI™	CAN/ USB	PWM	A/D	Analog Comp.	Int. Osc.	Clock Speed (MHz)	VCC (V)	Operating Temp.	Pkg.	Digi-Key Part No.	Price Each 1	25	100
4K x 14	192	128	33	2/1	1 (AUSART)	1 (Master/ Slave)	1	—	2	8-ch. 10-bit	2	—	20	4.0 ~ 5.5	Ind.	44-PLCC	PIC16F874A-I/L-ND	8.35	5.52	5.12
																44-QFN	PIC16F874A-I/ML-ND	8.55	5.48	5.00
																40-DIP	PIC16F874A-I/P-ND	7.43	4.76	4.35
																44-TQFP	PIC16F874A-I/PT-ND	8.55	5.48	5.00
4K x 14	192	128	33	2/1	1 (AUSART)	1 (Master/ Slave)	1	—	2	8-ch. 10-bit	2	—	20	2.0 ~ 5.5	Ind.	44-PLCC	PIC16LF874A-I/L-ND	8.75	5.78	5.38
																44-QFN	PIC16LF874A-I/ML-ND	9.00	5.76	5.26
																40-DIP	PIC16LF874A-I/P-ND	7.83	5.01	4.58
																44-TQFP	PIC16LF874A-I/PT-ND	9.00	5.76	5.26
4K x 14	368	256	16	2/1	1 (AUSART)	—	1	—	1	7-ch. 10-bit	2	Y (8MHz)	20	3.0 ~ 5.5	Ind.	28-QFN	PIC16F88-I/ML-ND	5.30	3.40	3.10
																18-DIP	PIC16F88-I/P-ND	4.75	2.70	2.41
																18-SOIC	PIC16F88-I/SO-ND	4.85	2.66	2.47
																20-SSOP	PIC16F88-I/SS-ND	5.23	2.97	2.65
4K x 14	368	256	16	2/1	1 (AUSART)	—	1	—	1	7-ch. 10-bit	2	Y (8MHz)	20	2.0 ~ 5.5	Ind.	28-QFN	PIC16LF88-I/ML-ND	5.55	3.56	3.25
																18-DIP	PIC16LF88-I/P-ND	5.00	2.84	2.53
																18-SOIC	PIC16LF88-I/SO-ND	5.10	2.78	2.59
																20-SSOP	PIC16LF88-I/SS-ND	5.48	3.00	2.78
8K x 14	368	—	22	2/1	1 (USART)	1	1	—	2	5-ch. 8-bit	—	—	20	4.0 ~ 5.5	Ind.	28-QFN	PIC16F76-I/ML-ND	7.03	4.50	4.10
																28-SOIC	PIC16F76-I/SO-ND	7.03	4.50	4.10
																28-DIP .3"	PIC16F76-I/SP-ND	7.03	4.50	4.10
																28-SSOP	PIC16F76-I/SS-ND	7.18	4.63	4.20
8K x 14	368	—	22	2/1	1 (USART)	1	1	—	2	5-ch. 8-bit	—	—	20	2.0 ~ 5.5	Ind.	28-QFN	PIC16LF76-I/ML-ND	7.35	4.71	4.30
																28-SOIC	PIC16LF76-I/SO-ND	7.35	4.71	4.30
																28-DIP .3"	PIC16LF76-I/SP-ND	7.35	4.54	4.30
																28-SSOP	PIC16LF76-I/SS-ND	7.53	4.82	4.41
8K x 14	368	—	25	2/1	1 (AUSART)	1 (Master/ Slave)	1	—	2	11-ch. 10-bit	2	Y (8MHz)	20	4.0 ~ 5.5	Ind.	28-QFN	PIC16F767-I/ML-ND	7.93	4.63	4.29
																28-SOIC	PIC16F767-I/SO-ND	7.33	4.28	3.97
																28-DIP .3"	PIC16F767-I/SP-ND	7.20	4.18	3.89
																28-SSOP	PIC16F767-I/SS-ND	7.58	4.43	4.09
8K x 14	368	—	25	2/1	1 (AUSART)	1 (Master/ Slave)	1	—	2	11-ch. 10-bit	2	Y (4MHz)	20	2.0 ~ 5.5	Ind.	28-QFN	PIC16LF767-I/ML-ND	8.65	5.06	4.68
																28-SOIC	PIC16LF767-I/SO-ND	7.98	4.66	4.32
																28-DIP .3"	PIC16LF767-I/SP-ND	7.90	4.62	4.27
																28-SSOP	PIC16LF767-I/SS-ND	8.25	4.82	4.46
8K x 14	368	—	33	2/1	1 (USART)	1	1	—	2	8-ch. 8-bit	—	—	20	4.0 ~ 5.5	Ind.	44-PLCC	PIC16F77-I/L-ND	8.68	5.73	5.33
																44-QFN	PIC16F77-I/ML-ND	9.65	6.18	5.64
																40-DIP	PIC16F77-I/P-ND	7.75	4.96	4.53
8K x 14	368	—	33	2/1	1 (USART)	1	1	—	2	8-ch. 8-bit	—	—	20	2.0 ~ 5.5	Ind.	44-PLCC	PIC16LF77-I/L-ND	9.13	6.03	5.60
																44-QFN	PIC16LF77-I/ML-ND	10.08	6.49	5.90
																40-DIP	PIC16LF77-I/P-ND	8.13	5.20	4.76
																44-TQFP	PIC16LF77-I/PT-ND	9.78	6.03	5.72
8K x 14	368	—	36	2/1	1 (AUSART)	1 (Master/ Slave)	1	—	2	14-ch. 10-bit	2	—	20	4.0 ~ 5.5	Ind.	44-QFN	PIC16F777-I/ML-ND	8.45	4.94	4.57
																40-DIP	PIC16F777-I/P-ND	7.90	4.62	4.27
																44-TQFP	PIC16F777-I/PT-ND	8.05	4.67	4.36
8K x 14	36	—	36	2/1	1 (AUSART)	1 (Master/ Slave)	1	—	2	14-ch. 10-bit	2	—	20	2.0 ~ 5.5	Ind.	44-QFN	PIC16LF777-I/ML-ND	9.30	5.44	5.03
																40-DIP	PIC16LF777-I/P-ND	8.68	5.07	4.70
																44-TQFP	PIC16LF777-I/PT-ND	8.88	4.97	4.79
8K x 14	368	256	22	2/1	1 (AUSART)	1 (Master/ Slave)	1	—	2	5-ch. 8-bit	—	—	20	4.0 ~ 5.5	Com.	28-SOIC	PIC16F876-20/SO-ND	8.55	5.85	5.25
															Ind.	28-SOIC	PIC16F876-20I/SO-ND	9.40	5.99	5.78
															Com.	28-DIP .3"	PIC16F876-20/SP-ND	8.55	5.65	5.25
															Ind.	28-DIP .3"	PIC16F876-20I/SP-ND	9.40	6.21	5.78
8K x 14	368	256	22	2/1	1 (AUSART)	1 (Master/ Slave)	1	—	2	5-ch. 8-bit	—	—	4	4.0 ~ 5.5	Com.	28-SOIC	PIC16F876-04/SO-ND	7.98	5.08	4.90
															Ind.	28-SOIC	PIC16F876-04I/SO-ND	8.78	5.80	5.40
															Com.	28-DIP .3"	PIC16F876-04/SP-ND	7.98	5.27	4.90
															Ind.	28-DIP .3"	PIC16F876-04I/SP-ND	8.78	5.80	5.40
8K x 14	368	256	22	2/1	1 (AUSART)	1 (Master/ Slave)	1	—	2	5-ch. 8-bit	—	—	4	2.0 ~ 5.5	Com.	28-SOIC	PIC16LF876-04/SO-ND	8.40	5.55	5.16
															Ind.	28-SOIC	PIC16LF876-04I/SO-ND	9.23	6.09	5.67
															Com.	28-DIP .3"	PIC16LF876-04/SP-ND	8.40	5.55	5.16
															Ind.	28-DIP .3"	PIC16LF876-04I/SP-ND	9.23	6.09	5.67
8K x 14	368	256	22	2/1	1 (AUSART)	1 (Master/ Slave)	1	—	2	5-ch. 8-bit	2	—	20	4.0 ~ 5.5	Ind.	28-QFN	PIC16F876A-I/ML-ND	7.33	4.72	4.29
																28-SOIC	PIC16F876A-I/SO-ND	7.33	4.72	4.29
																28-DIP .3"	PIC16F876A-I/SP-ND	7.33	4.72	4.29
																28-SSOP	PIC16F876A-I/SS-ND	7.48	4.79	4.38
8K x 14	368	256	22	2/1	1 (AUSART)	1 (Master/ Slave)	1	—	2	5-ch. 8-bit	2	—	20	2.0 ~ 5.5	Ind.	28-QFN	PIC16LF876A-I/ML-ND	7.70	4.93	4.50
																28-SOIC	PIC16LF876A-I/SO-ND	7.70	4.93	4.50
																28-DIP .3"	PIC16LF876A-I/SP-ND	7.70	4.93	4.50
																28-SSOP	PIC16LF876A-I/SS-ND	7.85	5.06	4.59
8K x 14	368	256	33	2/1	1 (AUSART)	1 (Master/ Slave)	1	—	2	8-ch. 10-bit	—	—	4	4.0 ~ 5.5	Com.	44-PLCC	PIC16F877-04/L-ND	9.78	7.90	6.62
															Ind.	44-PLCC	PIC16F877-04I/L-ND	10.73	8.67	7.27
															Com.	40-DIP	PIC16F877-04/P-ND	8.73	5.59	5.11
															Ind.	40-DIP	PIC16F877-04I/P-ND	9.60	6.15	5.61
8K x 14	368	256	33	2/1	1 (AUSART)	1 (Master/ Slave)	1	—	2	8-ch. 10-bit	—	—	20	4.0 ~ 5.5	Com.	44-PLCC	PIC16F877-20/L-ND	10.45	8.13	7.07
															Ind.	44-PLCC	PIC16F877-20I/L-ND	11.50	9.30	7.78
															Com.	40-DIP	PIC16F877-20/P-ND	9.33	5.76	5.46
															Ind.	40-DIP	PIC16F877-20I/P-ND	10.28	6.34	6.00
8K x 14	368	256	33	2/1	1 (AUSART)	1 (Master/ Slave)	1	—	2	8-ch. 10-bit	—	—	4	2.0 ~ 5.5	Com.	44-PLCC	PIC16LF877-04/L-ND	10.28	8.31	6.95
															Ind.	44-PLCC	PIC16LF877-04I/L-ND	11.28	8.77	7.64
															Com.	40-DIP	PIC16LF877-04/P-ND	9.15	5.90	5.35
															Ind.	40-DIP	PIC16LF877-04I/P-ND	10.08	6.49	5.90
															Com.	44-PQFP	PIC16LF877-04/PQ-ND	11.65	7.46	6.81
															Ind.	44-PQFP	PIC16LF877-04I/PQ-ND	12.78	8.23	7.48
															Com.	44-TQFP	PIC16LF877-04/PT-ND	12.38	7.64	7.23
															Ind.	44-TQFP	PIC16LF877-04I/PT-ND	13.60	8.71	7.95
8K x 14	368	256	33	2/1	1 (AUSART)	1 (Master/ Slave)	1	—	2	8-ch. 10-bit	2	—	20	4.0 ~ 5.5	Ind.	44-PLCC	PIC16F877A-I/L-ND	8.98	5.93	5.51
																44-QFN	PIC16F877A-I/ML-ND	9.23	5.70	5.40
																40-DIP	PIC16F877A-I/P-ND	8.00	5.12	4.68
																44-TQFP	PIC16F877A-I/PT-ND	9.23	5.70	5.40
8K x 14	368	256	33	2/1	1 (AUSART)	1 (Master/ Slave)	1	—	2	8-ch. 10-bit	2	—	20	2.0 ~ 5.5	Ind.	44-PLCC	PIC16LF877A-I/L-ND	9.43	6.23	5.80
																44-QFN	PIC16LF877A-I/ML-ND	9.68	6.20	5.65
																40-DIP	PIC16LF877A-I/P-ND	8.43	5.20	4.92
																44-TQFP	PIC16LF877A-I/PT-ND	9.68	6.20	5.65

Note: **Operating Temperature Range:** • Industrial: -40° ~ 185°F (-40° ~ 85°C) • Commercial: 32° ~ 158°F (0° ~ 70°C) • Extended: -40° ~ 257°F (-40° ~ 125°C)

B

Z8 Encore!® and Z8 Encore! XP®
Flash Microcontrollers

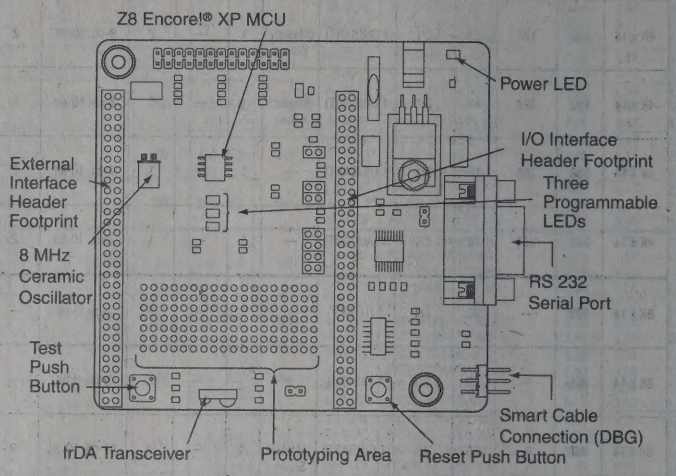
Whether your application is motor control, security systems, systems monitoring, personal electronic devices, home appliances, home automation, or any embedded control system, the Z8 Encore!® or Z8 Encore! XP® Development Kit is a complete development platform, including all the hardware and software you need to begin your design immediately. Every kit also includes a full-version ANSI C-Compiler at no extra cost. Evaluate, Design, Build — it's that simple. There's nothing else to buy.

Development Kit Contents:

Hardware
- ZiLOG Development Board
- Smart Cable (Serial or USB)
- 5VDC Universal Power Supply

Software
- ZDS II Integrated Development Environment (IDE)
- ANSI C-Compiler
- Sample Code

Documentation/CD-ROM
- Quick Start Guide
- Development Kit User Manual
- ZDS II User Manual
- eZ8 CPU User Manual
- Product Specification
- Product Briefs
- Application Notes



Z8 Encore!® and Z8 Encore! XP® Board Features

Z8 Encore!® and Z8 Encore! XP® Flash Microcontroller Supported Tools and Silicon

Z8 Encore!® Development Kits

269-3249-ND	Z8 Encore!® F642 Series Development Kit	$39.95
269-3183-ND	Z8 Encore!® 8K Series Development Kit	$39.95
269-3386-ND	Modular Development System GP Kit	$149.95
269-3248-ND	Smart Cable Accessory Kit	$19.95

Z8 Encore! XP® Development Kit

269-3307-ND	Z8 Encore! XP® 20 and 28-Pin Development Kit	$39.95

NOTE: For a complete listing of all ZiLOG part numbers, go to **www.digikey.com** (search by 6-digit device family — i.e. Z8F642)

Z8 Encore!® Silicon

Devices	Memory Flash (Bytes)	Memory RAM (Bytes)	Core Speed (MHz)	I/O Lines	Interrupts	16-Bit Timers w/PWMs	10-Bit A/D Channels	DMA Controller	SPI and I²C	UARTs	Operating Voltage	Extended Temp.	Pin Count	Development Kit
64K Series														
Z8F642	64K	4K	20	60	24	4	12	Yes	Yes	2	3.0V ~ 3.6V	-40° ~ 105°	40, 44, 64, 68, 80	Z8F64200100KIT
Z8F482	48K	4K	20	60	24	4	12	Yes	Yes	2	3.0V ~ 3.6V	-40° ~ 105°	40, 44, 64, 68, 80	Z8F64200100KIT
Z8F322	32K	2K	20	46	24	4	12	Yes	Yes	2	3.0V ~ 3.6V	-40° ~ 105°	40, 44, 64, 68	Z8F64200100KIT
Z8F242	24K	2K	20	46	24	4	12	Yes	Yes	2	3.0V ~ 3.6V	-40° ~ 105°	40, 44, 64, 68	Z8F64200100KIT
Z8F162	16K	2K	20	46	24	4	12	Yes	Yes	2	3.0V ~ 3.6V	-40° ~ 105°	40, 44, 64, 68	Z8F64200100KIT
8K Series														
Z8F081/82	8K	1K	20	19	19	2	12	Yes	Yes	1	2.7V ~ 3.6V	-40° ~ 105°	20, 28	Z8F08200100KIT
Z8F041/42	4K	1K	20	19	19	2	12	Yes	Yes	1	2.7V ~ 3.6V	-40° ~ 105°	20, 28	Z8F08200100KIT

MCU Features
- 20MHz Processor
- Up to 12-channel, 10-bit A/D Converter
- Up to 64KB of Flash
- Up to 4KB SRAM
- SPI and I²C Ports
- Up to two UARTs
- Up to 24 Interrupts
- Up to four, 16-bit Timers with PWMs
- Single-pin, On-chip Debugger
- 3-channel DMA (16-16KB parts only)

Z8 Encore! XP® Silicon

Devices	Memory Flash (Bytes)	Memory RAM (Bytes)	Core Speed (MHz)	I/O Lines	Interrupts	16-Bit Timers w/PWMs	10-Bit A/D Channels	DMA Controller	SPI and I²C	UARTs	Operating Voltage	Extended Temp.	Pin Count	Development Kit
4K Series														
Z8F042A	4K	1K	20	23	18	2	8	No	No	1	2.7V ~ 3.6V	-40° ~ 105°	8, 20, 28	Z8F04A28100KIT Z8F04A08100KIT
Z8F041A	4K	1K	20	25	17	2	—	No	No	1	2.7V ~ 3.6V	-40° ~ 105°	8, 20, 28	Z8F04A28100KIT Z8F04A08100KIT
Z8F022A	2K	512B	20	23	18	2	8	No	No	1	2.7V ~ 3.6V	-40° ~ 105°	8, 20, 28	Z8F04A28100KIT Z8F04A08100KIT
Z8F021A	2K	512B	20	25	17	2	—	No	No	1	2.7V ~ 3.6V	-40° ~ 105°	8, 20, 28	Z8F04A28100KIT Z8F04A08100KIT
Z8F012A	1K	256B	20	23	18	2	8	No	No	1	2.7V ~ 3.6V	-40° ~ 105°	8, 20, 28	Z8F04A28100KIT Z8F04A08100KIT
Z8F011A	1K	256B	20	25	17	2	—	No	No	1	2.7V ~ 3.6V	-40° ~ 105°	8, 20, 28	Z8F04A28100KIT Z8F04A08100KIT

MCU Features
- 20MHz Processor
- Up to 8-channel, 10-bit A/D Converter
- Up to 4KB of Flash
- Up to 1KB SRAM
- One UART
- Up to 18 Interrupts
- Up to two, 16-bit Timers with PWMs
- Single-pin, On-chip Debugger
- On-chip Temperature Sensor
- On-chip Analog Comparator

NEW! Crimzon™ Z8 OTP Microcontrollers

Features: • WDT • LV Detect • POR • 2 Comparators • HVD

OTP (KB)	RAM Bytes	Speed (MHz)	I/O Lines	Timers 8/16-bit	Operating Voltage	Temperature Range	Package	Digi-Key Part No.	Price Each 1	25	100	Zilog Part No.	Development Tools
8	237	8	16	1/1	2.0 ~ 3.6V	0° ~ 70°C	20-DIP	269-3422-ND	4.92	3.69	2.49	ZLP32300P2008C	269-3398-ND
							20-SOIC	269-3423-ND	4.56	3.42	2.09	ZLP32300S2008C	
							20-SSOP	269-3424-ND	4.56	3.42	2.09	ZLP32300H2008C	
			24	1/1	2.0 ~ 3.6V	0° ~ 70°C	28-DIP	269-3425-ND	5.31	3.99	2.42	ZLP32300P2808C	269-3398-ND
							28-SOIC	269-3426-ND	4.68	3.51	2.15	ZLP32300S2808C	
							28-SSOP	269-3427-ND	4.68	3.51	2.15	ZLP32300H2808C	
			32	1/1	2.0 ~ 3.6V	0° ~ 70°C	40-DIP	269-3428-ND	5.73	4.30	2.64	ZLP32300P4008C	269-3398-ND
							48-SSOP	269-3429-ND	4.71	3.54	2.16	ZLP32300H4808C	
16	237	8	16	1/1	2.0 ~ 3.6V	0° ~ 70°C	20-DIP	269-3406-ND	5.52	4.14	2.49	ZLP32300P2016C	269-3398-ND
							20-SOIC	269-3407-ND	4.86	3.65	2.19	ZLP32300S2016C	
							20-SSOP	269-3408-ND	5.16	3.87	2.19	ZLP32300H2016C	
			24	1/1	2.0 ~ 3.6V	0° ~ 70°C	28-DIP	269-3409-ND	5.61	4.21	2.53	ZLP32300P2816C	269-3398-ND
							28-SOIC	269-3410-ND	4.98	3.74	2.25	ZLP32300S2816C	
							28-SSOP	269-3411-ND	4.98	3.74	2.25	ZLP32300H2816C	
			32	1/1	2.0 ~ 3.6V	0° ~ 70°C	40-DIP	269-3412-ND	6.03	4.53	2.74	ZLP32300P4016C	269-3398-ND
							48-SSOP	269-3413-ND	5.01	3.76	2.26	ZLP32300H4816C	
32	237	8	16	1/1	2.0 ~ 3.6V	0° ~ 70°C	20-DIP	269-3414-ND	5.82	4.37	2.59	ZLP32300P2032C	269-3398-ND
							20-SOIC	269-3415-ND	5.16	3.87	2.29	ZLP32300S2032C	
							20-SSOP	269-3416-ND	5.16	3.87	2.29	ZLP32300H2032C	
			24	1/1	2.0 ~ 3.6V	0° ~ 70°C	28-DIP	269-3417-ND	5.91	4.44	2.63	ZLP32300P2832C	269-3398-ND
							28-SOIC	269-3418-ND	5.28	3.96	2.35	ZLP32300S2832C	
							28-SSOP	269-3419-ND	5.28	3.96	2.35	ZLP32300H2832C	
			32	1/1	2.0 ~ 3.6V	0° ~ 70°C	40-DIP	269-3420-ND	6.39	4.80	2.84	ZLP32300P4032C	269-3398-ND
							48-SSOP	269-3421-ND	5.31	3.99	2.36	ZLP32300H4832C	

NEW! Z8 GP™ OTP Microcontrollers

Features: • WDT • LV Detect • POR • 2 Comparators • HVD

Memory Size Program (Bytes)	RAM (Bytes)	I/O Pins	Operating Voltage	Speed (MHz)	Counters (8/16-bit)	Timer/ Operating Temperature	Package	Digi-Key Part No.	Price Each 1	25	100	Zilog Part No.	Development Tools
4K	237	16	2.0 ~ 5.5V	8	1/1	Extended	20-SSOP	269-3502-ND	3.57	2.68	1.75	ZGP323HEH2004C	269-3399-ND, 269-3390-ND
						Extended	20-DIP	269-3514-ND	4.11	3.09	2.01	ZGP323HEP2004C	
						Extended	20-SOIC	269-3526-ND	3.54	2.66	1.75	ZGP323HES2004C	
						Commercial	20-SSOP	269-3534-ND	3.45	2.59	1.71	ZGP323HSH2004C	
						Commercial	20-DIP	269-3549-ND	3.99	3.00	1.96	ZGP323HSP2004C	
						Commercial	20-SOIC	269-3561-ND	3.42	2.57	1.71	ZGP323HSS2004C	
		16	2.0 ~ 3.6V	8	1/1	Extended	20-SSOP	269-3569-ND	3.27	2.46	1.65	ZGP323LEH2004C	269-3399-ND, 269-3390-ND
						Extended	20-DIP	269-3581-ND	3.81	2.86	1.90	ZGP323LEP2004C	
						Extended	20-SOIC	269-3593-ND	3.24	2.43	1.65	ZGP323LES2004C	
						Commercial	20-SSOP	269-3601-ND	3.15	2.37	1.61	ZGP323LSH2004C	
						Commercial	20-DIP	269-3616-ND	3.66	2.75	1.86	ZGP323LSP2004C	
						Commercial	20-SOIC	269-3628-ND	3.12	2.34	1.61	ZGP323LSS2004C	
		24	2.0 ~ 5.5V	8	1/1	Extended	28-SSOP	269-3506-ND	3.66	2.75	1.80	ZGP323HEH2804C	269-3399-ND, 269-3390-ND
						Extended	28-DIP	269-3518-ND	4.17	3.13	2.04	ZGP323HEP2804C	
						Extended	28-SOIC	269-3530-ND	3.66	2.75	1.80	ZGP323HES2804C	
						Commercial	28-SSOP	269-3538-ND	3.51	2.64	1.76	ZGP323HSH2804C	
						Commercial	28-DIP	269-3553-ND	4.05	3.04	2.00	ZGP323HSP2804C	
						Commercial	28-SOIC	269-3565-ND	3.51	2.64	1.76	ZGP323HSS2804C	
		24	2.0 ~ 3.6V	8	1/1	Extended	28-SSOP	269-3573-ND	3.33	2.50	1.70	ZGP323LEH2804C	269-3399-ND, 269-3390-ND
						Extended	28-DIP	269-3585-ND	3.87	2.91	1.94	ZGP323LEP2804C	
						Extended	28-SOIC	269-3597-ND	3.33	2.50	1.70	ZGP323LES2804C	
						Commercial	28-SSOP	269-3605-ND	3.21	2.41	1.66	ZGP323LSH2804C	
						Commercial	28-DIP	269-3620-ND	3.75	2.82	1.90	ZGP323LSP2804C	
						Commercial	28-SOIC	269-3632-ND	3.21	2.41	1.66	ZGP323LSS2804C	
		32	2.0 ~ 5.5V	8	1/1	Extended	40-DIP	269-3522-ND	4.59	3.45	2.22	ZGP323HEP4004C	269-3399-ND, 269-3390-ND
						Commercial	40-DIP	269-3557-ND	4.47	3.36	2.18	ZGP323HSP4004C	
		32	2.0 ~ 3.6V	8	1/1	Extended	40-DIP	269-3589-ND	4.29	3.22	2.12	ZGP323LEP4004C	269-3399-ND, 269-3390-ND
						Commercial	40-DIP	269-3624-ND	4.17	3.13	2.07	ZGP323LSP4004C	
		32	2.0 ~ 5.5V	8	1/1	Extended	48-SSOP	269-3510-ND	3.66	2.75	1.81	ZGP323HEH4804C	269-3399-ND, 269-3390-ND
						Commercial	48-SSOP	269-3542-ND	3.54	2.66	1.77	ZGP323HSH4804C	
		32	2.0 ~ 3.6V	8	1/1	Extended	48-SSOP	269-3577-ND	3.36	2.52	1.71	ZGP323LEH4804C	269-3399-ND, 269-3390-ND
						Commercial	48-SSOP	269-3609-ND	3.24	2.43	1.67	ZGP323LSH4804C	
8K	237	16	2.0 ~ 5.5V	8	1/1	Extended	20-SSOP	269-3503-ND	3.69	2.77	1.79	ZGP323HEH2008C	269-3399-ND, 269-3390-ND
						Extended	20-DIP	269-3515-ND	4.23	3.18	2.05	ZGP323HEP2008C	
						Extended	20-SOIC	269-3527-ND	3.66	2.75	1.79	ZGP323HES2008C	
						Commercial	20-SSOP	269-3535-ND	3.57	2.68	1.75	ZGP323HSH2008C	
						Commercial	20-DIP	269-3550-ND	4.11	3.09	2.01	ZGP323HSP2008C	
						Commercial	20-SOIC	269-3562-ND	3.54	2.66	1.75	ZGP323HSS2008C	
		16	2.0 ~ 3.6V	8	1/1	Extended	20-SSOP	269-3570-ND	3.39	2.55	1.69	ZGP323LEH2008C	269-3399-ND, 269-3390-ND
						Extended	20-DIP	269-3582-ND	3.93	2.95	1.95	ZGP323LEP2008C	
						Extended	20-SOIC	269-3594-ND	3.36	2.52	1.69	ZGP323LES2008C	
						Commercial	20-SSOP	269-3602-ND	3.27	2.46	1.65	ZGP323LSH2008C	
						Commercial	20-DIP	269-3617-ND	3.81	2.86	1.90	ZGP323LSP2008C	
						Commercial	20-SOIC	269-3629-ND	3.24	2.43	1.65	ZGP323LSS2008C	
		24	2.0 ~ 5.5V	8	1/1	Extended	28-DIP	269-3519-ND	4.32	3.24	2.08	ZGP323HEP2808C	269-3399-ND, 269-3390-ND
						Extended	28-SSOP	269-3507-ND	3.78	2.84	1.84	ZGP323HEH2808C	
						Extended	28-SOIC	269-3531-ND	3.78	2.84	1.84	ZGP323HES2808C	
						Commercial	28-SSOP	269-3539-ND	3.66	2.75	1.80	ZGP323HSH2808C	
						Commercial	28-DIP	269-3554-ND	4.17	3.13	2.04	ZGP323HSP2808C	
						Commercial	28-SOIC	269-3566-ND	3.66	2.75	1.80	ZGP323HSS2808C	

(Continued)

Memory Size Program (Bytes)	RAM (Bytes)	I/O Pins	Operating Voltage	Speed (MHz)	Counters (8/16-bit)	Timer/ Operating Temperature	Package	Digi-Key Part No.	Price Each 1	25	100	Zilog Part No.	Development Tools
8K	237	24	2.0 ~ 3.6V	8	1/1	Extended	28-SSOP	269-3574-ND	3.48	2.61	1.74	ZGP323LEH2808C	269-3399-ND, 269-3390-ND
						Extended	28-DIP	269-3586-ND	3.99	3.00	1.98	ZGP323LEP2808C	
						Extended	28-SOIC	269-3598-ND	3.48	2.61	1.74	ZGP323LES2808C	
						Commercial	28-SSOP	269-3606-ND	3.33	2.50	1.70	ZGP323LSH2808C	
						Commercial	28-DIP	269-3621-ND	3.87	2.91	1.94	ZGP323LSP2808C	
						Commercial	28-SOIC	269-3633-ND	3.33	2.50	1.70	ZGP323LSS2808C	
		32	2.0 ~ 5.5V	8	1/1	Extended	40-DIP	269-3523-ND	4.71	3.54	2.26	ZGP323HEP4008C	269-3399-ND, 269-3390-ND
						Commercial	40-DIP	269-3558-ND	4.59	3.45	2.22	ZGP323HSP4008C	
		32	2.0 ~ 3.6V	8	1/1	Extended	40-DIP	269-3590-ND	4.41	3.31	2.16	ZGP323LEP4008C	269-3399-ND, 269-3390-ND
						Commercial	40-DIP	269-3625-ND	4.29	3.22	2.12	ZGP323LSP4008C	
		32	2.0 ~ 5.5V	8	1/1	Extended	48-SSOP	269-3511-ND	3.81	2.86	1.85	ZGP323HEH4808C	269-3399-ND, 269-3390-ND
						Commercial	48-SSOP	269-3543-ND	3.66	2.75	1.81	ZGP323HSH4808C	
		32	2.0 ~ 3.6V	8	1/1	Extended	48-SSOP	269-3578-ND	3.48	2.61	1.75	ZGP323LEH4808C	269-3399-ND, 269-3390-ND
						Commercial	48-SSOP	269-3610-ND	3.36	2.52	1.71	ZGP323LSH4808C	
16K	237	16	2.0 ~ 5.5V	8	1/1	Extended	20-SSOP	269-3504-ND	3.84	2.88	1.84	ZGP323HEH2016C	269-3399-ND, 269-3390-ND
						Extended	20-DIP	269-3516-ND	4.35	3.27	2.09	ZGP323HEP2016C	
						Extended	20-SOIC	269-3528-ND	3.81	2.86	1.84	ZGP323HES2016C	
						Commercial	20-SSOP	269-3536-ND	3.69	2.77	1.79	ZGP323HSH2016C	
						Commercial	20-DIP	269-3551-ND	4.23	3.18	2.05	ZGP323HSP2016C	
						Commercial	20-SOIC	269-3563-ND	3.66	2.75	1.79	ZGP323HSS2016C	
		16	2.0 ~ 3.6V	8	1/1	Extended	20-SSOP	269-3571-ND	3.51	2.64	1.73	ZGP323LEH2016C	269-3399-ND, 269-3390-ND
						Extended	20-DIP	269-3583-ND	4.05	3.04	1.99	ZGP323LEP2016C	
						Extended	20-SOIC	269-3595-ND	3.48	2.61	1.73	ZGP323LES2016C	
						Commercial	20-SSOP	269-3603-ND	3.39	2.55	1.69	ZGP323LSH2016C	
						Commercial	20-DIP	269-3618-ND	3.93	2.95	1.95	ZGP323LSP2016C	
						Commercial	20-SOIC	269-3630-ND	3.36	2.52	1.69	ZGP323LSS2016C	
		16-32	2.0 ~ 5.5V	8	1/1	Extended	28-SSOP	269-3508-ND	3.90	2.93	1.89	ZGP323HEH2816C	269-3399-ND, 269-3390-ND
						Extended	28-DIP	269-3520-ND	4.44	3.33	2.13	ZGP323HEP2816C	
						Extended	28-SOIC	269-3532-ND	3.90	2.93	1.89	ZGP323HES2816C	
						Commercial	28-SSOP	269-3540-ND	3.78	2.84	1.84	ZGP323HSH2816C	
						Commercial	28-DIP	269-3555-ND	4.32	3.24	2.08	ZGP323HSP2816C	
						Commercial	28-SOIC	269-3567-ND	3.78	2.84	1.84	ZGP323HSS2816C	
		16-32	2.0 ~ 3.6V	8	1/1	Extended	28-SSOP	269-3575-ND	3.60	2.70	1.79	ZGP323LEH2816C	269-3399-ND, 269-3390-ND
						Extended	28-DIP	269-3587-ND	4.14	3.11	2.02	ZGP323LEP2816C	
						Extended	28-SOIC	269-3599-ND	3.60	2.70	1.79	ZGP323LES2816C	
						Commercial	28-SSOP	269-3607-ND	3.48	2.61	1.74	ZGP323LSH2816C	
						Commercial	28-DIP	269-3622-ND	3.99	3.00	1.98	ZGP323LSP2816C	
						Commercial	28-SOIC	269-3634-ND	3.48	2.61	1.74	ZGP323LSS2816C	
		16-32	2.0 ~ 5.5V	8	1/1	Extended	40-DIP	269-3524-ND	4.86	3.65	2.30	ZGP323HEP4016C	269-3399-ND, 269-3390-ND
						Commercial	40-DIP	269-3559-ND	4.71	3.54	2.26	ZGP323HSP4016C	
		16-32	2.0 ~ 3.6V	8	1/1	Extended	40-DIP	269-3591-ND	4.53	3.40	2.20	ZGP323LEP4016C	269-3399-ND, 269-3390-ND
						Commercial	40-DIP	269-3626-ND	4.41	3.31	2.16	ZGP323LSP4016C	
		16-32	2.0 ~ 5.5V	8	1/1	Extended	48-SSOP	269-3512-ND	3.93	2.95	1.90	ZGP323HEH4816C	269-3399-ND, 269-3390-ND
						Commercial	48-SSOP	269-3544-ND	3.81	2.86	1.85	ZGP323HSH4816C	
		16-32	2.0 ~ 3.6V	8	1/1	Extended	48-SSOP	269-3579-ND	3.63	2.73	1.79	ZGP323LEH4816C	269-3399-ND, 269-3390-ND
						Commercial	48-SSOP	269-3611-ND	3.48	2.61	1.75	ZGP323LSH4816C	
32K	237	16-32	2.0 ~ 5.5V	8	1/1	Extended	20-SSOP	269-3505-ND	3.93	2.95	1.88	ZGP323HEH2032C	269-3399-ND, 269-3390-ND
						Extended	20-DIP	269-3517-ND	4.50	3.38	2.13	ZGP323HEP2032C	
						Extended	20-SOIC	269-3529-ND	3.93	2.95	1.88	ZGP323HES2032C	
						Commercial	20-SSOP	269-3537-ND	3.81	2.86	1.84	ZGP323HSH2032C	
						Commercial	20-CDIP	269-3546-ND	25.50	19.13	11.05	ZGP323HSK2032E	
						Commercial	20-DIP	269-3552-ND	4.35	3.27	2.09	ZGP323HSP2032C	
						Commercial	20-SOIC	269-3564-ND	3.81	2.86	1.84	ZGP323HSS2032C	
		16-32	2.0 ~ 3.6V	8	1/1	Extended	20-SSOP	269-3572-ND	3.63	2.73	1.78	ZGP323LEH2032C	269-3399-ND, 269-3390-ND
						Extended	20-DIP	269-3584-ND	4.17	3.13	2.03	ZGP323LEP2032C	
						Extended	20-SOIC	269-3596-ND	3.63	2.73	1.78	ZGP323LES2032C	
						Commercial	20-SSOP	269-3604-ND	3.48	2.61	1.73	ZGP323LSH2032C	
						Commercial	20-CDIP	269-3613-ND	25.50	19.13	11.05	ZGP323LSK2032E	
						Commercial	20-DIP	269-3619-ND	4.05	3.04	1.99	ZGP323LSP2032C	
						Commercial	20-SOIC	269-3631-ND	3.48	2.61	1.73	ZGP323LSS2032C	
		16-32	2.0 ~ 5.5V	8	1/1	Extended	28-SSOP	269-3509-ND	4.02	3.02	1.93	ZGP323HEH2832C	269-3399-ND, 269-3390-ND
						Extended	28-DIP	269-3521-ND	4.56	3.42	2.17	ZGP323HEP2832C	
						Extended	28-SOIC	269-3533-ND	4.02	3.02	1.93	ZGP323HES2832C	
						Commercial	28-SSOP	269-3541-ND	3.90	2.93	1.89	ZGP323HSH2832C	
						Commercial	28-CDIP	269-3547-ND	25.50	19.13	11.05	ZGP323HSK2832E	
						Commercial	28-DIP	269-3556-ND	4.44	3.33	2.13	ZGP323HSP2832C	
						Commercial	28-SOIC	269-3568-ND	3.90	2.93	1.89	ZGP323HSS2832C	
		16-32	2.0 ~ 3.6V	8	1/1	Extended	28-SSOP	269-3576-ND	3.72	2.79	1.83	ZGP323LEH2832C	269-3399-ND, 269-3390-ND
						Extended	28-DIP	269-3588-ND	4.26	3.20	2.07	ZGP323LEP2832C	
						Extended	28-SOIC	269-3600-ND	3.72	2.79	1.83	ZGP323LES2832C	
						Commercial	28-SSOP	269-3608-ND	3.60	2.70	1.79	ZGP323LSH2832C	
						Commercial	28-CDIP	269-3614-ND	25.50	19.13	11.05	ZGP323LSK2832E	
						Commercial	28-DIP	269-3623-ND	4.14	3.11	2.02	ZGP323LSP2832C	
						Commercial	28-SOIC	269-3635-ND	3.60	2.70	1.79	ZGP323LSS2832C	
		16-32	2.0 ~ 5.5V	8	1/1	Extended	40-DIP	269-3525-ND	4.98	3.74	2.35	ZGP323HEP4032C	269-3399-ND, 269-3390-ND
						Commercial	40-CDIP	269-3548-ND	25.50	19.13	11.05	ZGP323HSK4032E	
						Commercial	40-DIP	269-3560-ND	4.86	3.65	2.30	ZGP323HSP4032C	
		16-32	2.0 ~ 3.6V	8	1/1	Extended	40-DIP	269-3592-ND	4.68	3.51	2.24	ZGP323LEP4032C	269-3399-ND, 269-3390-ND
						Commercial	40-CDIP	269-3615-ND	25.50	19.13	11.05	ZGP323LSK4032E	
						Commercial	40-DIP	269-3627-ND	4.53	3.40	2.20	ZGP323LSP4032C	
		16-32	2.0 ~ 5.5V	8	1/1	Extended	48-SSOP	269-3513-ND	4.05	3.04	1.94	ZGP323HEH4832C	269-3399-ND, 269-3390-ND
						Commercial	48-SSOP	269-3545-ND	3.93	2.95	1.90	ZGP323HSH4832C	
		16-32	2.0 ~ 3.6V	8	1/1	Extended	48-SSOP	269-3580-ND	3.75	2.82	1.84	ZGP323LEH4832C	269-3399-ND, 269-3390-ND
						Commercial	48-SSOP	269-3612-ND	3.63	2.73	1.79	ZGP323LSH4832C	

Z8 Encore!® Flash MCU

Zilog redefines 8-bit with the new Z8 Encore! family of flash microcontrollers. Featuring flash memory and the high-performance register-to-register architecture, Z8 Encore! MCU accelerates design development while reducing total system cost. The same CPU core and peripheral interfaces ensure code compatibility across the entire family. Incorporate the Z8 Encore! into new designs, or upgrade from the existing Z8 architecture.
Features: • Program Memory Type: Flash • On-Chip Special Features: POR, VBO • WDT • COMM Interfaces: I2C, UART, OCD • Speed (20MHz) • Operating Temp.: Extended -40°C ~ 105°C, Commercial 0°C ~ 70°C

Memory Size Program (Bytes)	RAM (Bytes)	I/O Pins	Serial Communication	ADC	VCC	Clock Speed	Timer/ Counters (16-bit)	Operating Temp.	Package	Digi-Key Part No.	Price Each 1	25	100	Zilog Part No.	Development Tools
1K	256	16	1 UART, IrDA	—	2.7 ~ 3.6V	5MHz	2	Extended	20-SSOP	269-3430-ND **NEW!**	3.00	2.25	1.43	Z8F0113HH005EC	269-3389-ND
								Commercial	20-SSOP	269-3431-ND **NEW!**	2.85	2.14	1.36	Z8F0113HH005SC	
								Extended	20-DIP	269-3434-ND **NEW!**	3.36	2.52	1.60	Z8F0113PH005EC	
								Commercial	20-DIP	269-3435-ND **NEW!**	3.18	2.39	1.52	Z8F0113PH005SC	
								Extended	20-SOIC	269-3438-ND **NEW!**	3.00	2.25	1.43	Z8F0113SH005EC	
								Commercial	20-SOIC	269-3439-ND **NEW!**	2.85	2.14	1.36	Z8F0113SH005SC	
		24	1 UART, IrDA	—	2.7 ~ 3.6V	5MHz	2	Extended	28-SSOP	269-3432-ND **NEW!**	3.12	2.34	1.48	Z8F0113HJ005EC	269-3389-ND
								Commercial	28-SSOP	269-3433-ND **NEW!**	2.97	2.23	1.41	Z8F0113HJ005SC	
								Extended	28-DIP	269-3436-ND **NEW!**	3.57	2.68	1.69	Z8F0113PJ005EC	
								Commercial	28-DIP	269-3437-ND **NEW!**	3.39	2.55	1.61	Z8F0113PJ005SC	
								Extended	28-SOIC	269-3440-ND **NEW!**	3.12	2.34	1.48	Z8F0113SJ005EC	
								Commercial	28-SOIC	269-3441-ND **NEW!**	2.97	2.23	1.41	Z8F0113SJ005SC	
		16	1 UART, IrDA	7-ch 10 bit	2.7 ~ 3.6V	5MHz	2	Extended	20-SSOP	269-3442-ND **NEW!**	3.12	2.34	1.50	Z8F0123HH005EC	269-3389-ND
								Commercial	20-SSOP	269-3443-ND **NEW!**	3.00	2.25	1.43	Z8F0123HH005SC	
								Extended	20-DIP	269-3446-ND **NEW!**	3.51	2.64	1.67	Z8F0123PH005EC	
								Commercial	20-DIP	269-3447-ND **NEW!**	3.33	2.50	1.59	Z8F0123PH005SC	
								Extended	20-SOIC	269-3450-ND **NEW!**	3.15	2.37	1.50	Z8F0123SH005EC	
								Commercial	20-SOIC	269-3451-ND **NEW!**	3.00	2.25	1.43	Z8F0123SH005SC	
		22	1 UART, IrDA	8-ch 10 bit	2.7 ~ 3.6V	5MHz	2	Extended	28-SSOP	269-3444-ND **NEW!**	3.27	2.46	1.55	Z8F0123HJ005EC	269-3389-ND
								Commercial	28-SSOP	269-3445-ND **NEW!**	3.12	2.34	1.48	Z8F0123HJ005SC	
								Extended	28-DIP	269-3448-ND **NEW!**	3.69	2.77	1.77	Z8F0123PJ005EC	
								Commercial	28-DIP	269-3449-ND **NEW!**	3.54	2.66	1.68	Z8F0123PJ005SC	
								Extended	28-SOIC	269-3452-ND **NEW!**	3.27	2.46	1.55	Z8F0123SJ005EC	
								Commercial	28-SOIC	269-3453-ND **NEW!**	3.12	2.34	1.48	Z8F0123SJ005SC	
2K	512	16	1 UART, IrDA	—	2.7 ~ 3.6V	5MHz	2	Extended	20-SSOP	269-3454-ND **NEW!**	3.18	2.39	1.51	Z8F0213HH005EC	269-3389-ND
								Commercial	20-SSOP	269-3455-ND **NEW!**	3.00	2.25	1.44	Z8F0213HH005SC	
								Extended	20-DIP	269-3458-ND **NEW!**	3.54	2.66	1.68	Z8F0213PH005EC	
								Commercial	20-DIP	269-3459-ND **NEW!**	3.36	2.52	1.60	Z8F0213PH005SC	
								Extended	20-SOIC	269-3462-ND **NEW!**	3.18	2.39	1.51	Z8F0213SH005EC	
								Commercial	20-SOIC	269-3463-ND **NEW!**	3.00	2.25	1.44	Z8F0213SH005SC	
		24	1 UART, IrDA	—	2.7 ~ 3.6V	5MHz	2	Extended	28-SSOP	269-3456-ND **NEW!**	3.27	2.46	1.56	Z8F0213HJ005EC	269-3389-ND
								Commercial	28-SSOP	269-3457-ND **NEW!**	3.12	2.34	1.48	Z8F0213HJ005SC	
								Extended	28-DIP	269-3460-ND **NEW!**	3.75	2.82	1.78	Z8F0213PJ005EC	
								Commercial	28-DIP	269-3461-ND **NEW!**	3.57	2.68	1.70	Z8F0213PJ005SC	
								Extended	28-SOIC	269-3464-ND **NEW!**	3.27	2.46	1.56	Z8F0213SJ005EC	
								Commercial	28-SOIC	269-3465-ND **NEW!**	3.12	2.34	1.48	Z8F0213SJ005SC	
		16	1 UART, IrDA	7-ch 10 bit	2.7 ~ 3.6V	5MHz	2	Extended	20-SSOP	269-3466-ND **NEW!**	3.33	2.50	1.58	Z8F0223HH005EC	269-3389-ND
								Commercial	20-SSOP	269-3467-ND **NEW!**	3.18	2.39	1.51	Z8F0223HH005SC	
								Extended	20-DIP	269-3470-ND **NEW!**	3.69	2.77	1.75	Z8F0223PH005EC	
								Commercial	20-DIP	269-3471-ND **NEW!**	3.51	2.64	1.67	Z8F0223PH005SC	
								Extended	20-SOIC	269-3474-ND **NEW!**	3.33	2.50	1.58	Z8F0223SH005EC	
								Commercial	20-SOIC	269-3475-ND **NEW!**	3.18	2.39	1.51	Z8F0223SH005SC	
		22	1 UART, IrDA	8-ch 10-bit	2.7 ~ 3.6V	5MHz	2	Extended	28-SSOP	269-3468-ND **NEW!**	3.42	2.57	1.63	Z8F0223HJ005EC	269-3389-ND
								Commercial	28-SSOP	269-3469-ND **NEW!**	3.27	2.46	1.56	Z8F0223HJ005SC	
								Extended	28-DIP	269-3472-ND **NEW!**	3.90	2.93	1.86	Z8F0223PJ005EC	
								Commercial	28-DIP	269-3473-ND **NEW!**	3.72	2.79	1.77	Z8F0223PJ005SC	
								Extended	28-SOIC	269-3476-ND **NEW!**	3.42	2.57	1.63	Z8F0223SJ005EC	
								Commercial	28-SOIC	269-3477-ND **NEW!**	3.27	2.46	1.56	Z8F0223SJ005SC	
4K	1K	11	UART, I2C, IrDA	—	2.7 ~ 3.6V	20MHz	2	Extended	20-DIP	269-3208-ND	3.60	2.70	1.72	Z8F0411PH020EC	269-3183-ND
								Commercial	20-DIP	269-3209-ND	3.42	2.57	1.64	Z8F0411PH020SC	
								Extended	20-SSOP	269-3206-ND	3.21	2.41	1.53	Z8F0411HH020EC	
								Commercial	20-SSOP	269-3207-ND	3.06	2.30	1.45	Z8F0411HH020SC	
		19	UART, I2C, SPI, IrDA	—	2.7 ~ 3.6V	20MHz	2	Extended	28-DIP	269-3210-ND	3.84	2.88	1.83	Z8F0412PJ020EC	269-3183-ND
								Commercial	28-DIP	269-3211-ND	3.66	2.75	1.74	Z8F0412PJ020SC	
								Extended	28-SOIC	269-3212-ND	3.33	2.50	1.58	Z8F0412SJ020EC	
								Commercial	28-SOIC	269-3213-ND	3.18	2.39	1.51	Z8F0412SJ020SC	
		16	1 UART, IrDA	—	2.7 ~ 3.6V	5MHz	2	Extended	20-SSOP	269-3478-ND **NEW!**	3.33	2.50	1.59	Z8F0413HH005EC	269-3389-ND
								Commercial	20-SSOP	269-3479-ND **NEW!**	3.18	2.39	1.51	Z8F0413HH005SC	
								Extended	20-DIP	269-3482-ND **NEW!**	3.72	2.79	1.77	Z8F0413PH005EC	
								Commercial	20-DIP	269-3483-ND **NEW!**	3.54	2.66	1.68	Z8F0413PH005SC	
								Extended	20-SOIC	269-3486-ND **NEW!**	3.33	2.50	1.59	Z8F0413SH005EC	
								Commercial	20-SOIC	269-3487-ND **NEW!**	3.18	2.39	1.51	Z8F0413SH005SC	
		24	1 UART, IrDA	—	2.7 ~ 3.6V	5MHz	2	Extended	28-SSOP	269-3480-ND **NEW!**	3.45	2.59	1.64	Z8F0413HJ005EC	269-3389-ND
								Commercial	28-SSOP	269-3481-ND **NEW!**	3.27	2.46	1.56	Z8F0413HJ005SC	
								Extended	28-DIP	269-3484-ND **NEW!**	3.93	2.95	1.88	Z8F0413PJ005EC	
								Commercial	28-DIP	269-3485-ND **NEW!**	3.75	2.82	1.79	Z8F0413PJ005SC	
								Extended	28-SOIC	269-3488-ND **NEW!**	3.45	2.59	1.64	Z8F0413SJ005EC	
								Commercial	28-SOIC	269-3489-ND **NEW!**	3.27	2.46	1.56	Z8F0413SJ005SC	
		11	UART, I2C, IrDA	2-ch 10 bit	2.7 ~ 3.6V	20MHz	2	Extended	20-DIP	269-3216-ND	3.78	2.84	1.79	Z8F0421PH020EC	269-3183-ND
								Commercial	20-DIP	269-3217-ND	3.60	2.70	1.71	Z8F0421PH020SC	
								Extended	20-SSOP	269-3214-ND	3.36	2.52	1.60	Z8F0421HH020EC	
								Commercial	20-SSOP	269-3215-ND	3.21	2.41	1.53	Z8F0421HH020SC	
		19	UART, I2C, SPI, IrDA	5-ch 10-bit	2.7 ~ 3.6V	20MHz	2	Extended	28-DIP	269-3218-ND	4.02	3.02	1.91	Z8F0422PJ020EC	269-3183-ND
								Commercial	28-DIP	269-3219-ND	3.81	2.86	1.82	Z8F0422PJ020SC	
								Extended	28-SOIC	269-3220-ND	3.48	2.61	1.66	Z8F0422SJ020EC	
								Commercial	28-SOIC	269-3221-ND	3.33	2.50	1.58	Z8F0422SJ020SC	

(Continued)

Memory Size Program (Bytes)	RAM (Bytes)	I/O Pins	Serial Communication	ADC	VCC	Clock Speed	Timer/ Counters (16-bit)	Operating Temp.	Package	Digi-Key Part No.	Price Each 1	25	100	Zilog Part No.	Development Tools
4K	1K	16	1 UART, IrDA	7-ch- 10-bit	2.7 ~ 3.6V	5MHz	2	Extended	20-SSOP	269-3490-ND NEW!	3.51	2.64	1.67	Z8F0423HH005EC	269-3389-ND
								Commercial	20-SSOP	269-3491-ND NEW!	3.33	2.50	1.59	Z8F0423HH005SC	
								Extended	20-DIP	269-3494-ND NEW!	3.87	2.91	1.85	Z8F0423PH005EC	
								Commercial	20-DIP	269-3495-ND NEW!	3.69	2.77	1.76	Z8F0423PH005SC	
								Extended	20-SOIC	269-3498-ND NEW!	3.51	2.64	1.67	Z8F0423SH005EC	
								Commercial	20-SOIC	269-3499-ND NEW!	3.33	2.50	1.59	Z8F0423SH005SC	
		22	1 UART, IrDA	8-ch 10-bit	2.7 ~ 3.6V	5MHz	2	Extended	28-SSOP	269-3492-ND NEW!	3.60	2.70	1.72	Z8F0423HJ005EC	269-3389-ND
								Commercial	28-SSOP	269-3493-ND NEW!	3.45	2.59	1.64	Z8F0423HJ005SC	
								Extended	28-DIP	269-3496-ND NEW!	4.11	3.09	1.96	Z8F0423PJ005EC	
								Commercial	28-DIP	269-3497-ND NEW!	3.90	2.93	1.86	Z8F0423PJ005SC	
								Extended	28-SOIC	269-3500-ND NEW!	3.60	2.70	1.72	Z8F0423SJ005EC	
								Commercial	28-SOIC	269-3501-ND NEW!	3.45	2.59	1.64	Z8F0423SJ005SC	
8K	1K	11	UART, I2C, IrDA	—	2.7 ~ 3.6V	20MHz	2	Extended	20-DIP	269-3224-ND	4.38	3.29	2.08	Z8F0811PH020EC	269-3183-ND
								Commercial	20-DIP	269-3225-ND	4.17	3.13	1.98	Z8F0811PH020SC	
								Extended	20-SSOP	269-3222-ND	3.96	2.97	1.89	Z8F0811HH020EC	
								Commercial	20-SSOP	269-3223-ND	3.78	2.84	1.80	Z8F0811HH020SC	
		19	UART, I2C, SPI, IrDA	—	2.7 ~ 3.6V	20MHz	2	Extended	28-DIP	269-3226-ND	4.62	3.47	2.19	Z8F0812PJ020EC	269-3183-ND
								Commercial	28-DIP	269-3227-ND	4.38	3.29	2.09	Z8F0812PJ020SC	
								Extended	28-SOIC	269-3228-ND	4.08	3.06	1.94	Z8F0812SJ020EC	
								Commercial	28-SOIC	269-3229-ND	3.90	2.93	1.85	Z8F0812SJ020SC	
		11	UART, I2C, IrDA	2-ch 10-bit	2.7 ~ 3.6V	20MHz	2	Extended	20-DIP	269-3232-ND	4.56	3.42	2.17	Z8F0821PH020EC	269-3183-ND
								Commercial	20-DIP	269-3233-ND	4.35	3.27	2.07	Z8F0821PH020SC	
								Extended	20-SSOP	269-3230-ND	4.17	3.13	1.98	Z8F0821HH020EC	
								Commercial	20-SSOP	269-3231-ND	3.96	2.97	1.89	Z8F0821HH020SC	
		19	UART, I2C, SPI, IrDA	5-ch 10-bit	2.7 ~ 3.6V	20MHz	2	Extended	28-DIP	269-3234-ND	4.80	3.60	2.29	Z8F0822PJ020EC	269-3183-ND
								Commercial	28-DIP	269-3235-ND	4.59	3.45	2.18	Z8F0822PJ020SC	
								Extended	28-SOIC	269-3236-ND	4.29	3.22	2.04	Z8F0822SJ020EC	
								Commercial	28-SOIC	269-3237-ND	4.08	3.06	1.94	Z8F0822SJ020SC	
16K	2K	31	2 UARTS, I2C, SPI, IrDA	8-ch 10-bit	3.0 ~ 3.6V	20MHz	3	Extended	40-DIP	269-3194-ND	12.69	9.52	7.05	Z8F1601PM020EC	—
								Commercial	40-DIP	269-3128-ND	11.55	8.67	6.41	Z8F1601PM020SC	
								Extended	44-PLCC	269-3195-ND	12.69	9.52	7.05	Z8F1601VN020EC	
								Extended	44-LQFP	269-3192-ND	12.63	9.48	7.01	Z8F1601AN020EC	
								Commercial	44-LQFP	269-3127-ND	11.49	8.62	6.38	Z8F1601AN020SC	
		46	2 UARTS, I2C, SPI, IrDA	12-ch 10-bit	3.0 ~ 3.6V	20MHz	4	Extended	64-LQFP	269-3193-ND	13.20	9.90	7.33	Z8F1602AR020EC	—
								Extended	68-PLCC	269-3190-ND	13.32	9.99	7.40	Z8F1602VS020EC	
		31	2 UARTS, I2C, SPI, IrDA	8-ch 10-bit	3.0 ~ 3.6V	20MHz	3	Extended	40-DIP	269-3255-ND	6.69	5.02	3.19	Z8F1621PM020EC	269-3249-ND
								Commercial	40-DIP	269-3256-ND	6.36	4.77	3.03	Z8F1621PM020SC	
								Extended	44-LQFP	269-3253-ND	6.66	5.00	3.17	Z8F1621AN020EC	
								Commercial	44-LQFP	269-3254-ND	6.33	4.75	3.02	Z8F1621AN020SC	
								Extended	44-PLCC	269-3257-ND	6.45	4.84	3.07	Z8F1621VN020EC	
								Commercial	44-PLCC	269-3258-ND	6.15	4.62	2.93	Z8F1621VN020SC	
		46	2 UARTS, I2C, SPI, IrDA	12-ch 10-bit	3.0 ~ 3.6V	20MHz	4	Extended	64-LQFP	269-3259-ND	7.17	5.38	3.42	Z8F1622AR020EC	269-3249-ND
								Commercial	64-LQFP	269-3260-ND	6.84	5.13	3.25	Z8F1622AR020SC	
								Commercial	64-LQFP	269-3640-ND NEW!	6.84	4.56	3.25	Z8F1622AR020SC2104	
								Extended	68-PLCC	269-3261-ND	7.14	5.36	3.40	Z8F1622VS020EC	
								Commercial	68-PLCC	269-3262-ND	6.81	5.11	3.24	Z8F1622VS020SC	
24K	2K	31	2 UARTS, I2C SPI, IrDA	8-ch 10-bit	3.0 ~ 3.6V	20MHz	3	Extended	40-DIP	269-3189-ND	14.64	10.98	8.14	Z8F2401PM020EC	—
								Extended	44-PLCC	269-3180-ND	14.64	10.98	8.14	Z8F2401VN020EC	
								Extended	44-LQFP	269-3196-ND	14.55	10.92	8.09	Z8F2401AN020EC	
		46	2 UARTS, I2C SPI, IrDA	12-ch 10-bit	3.0 ~ 3.6V	20MHz	4	Extended	64-LQFP	269-3179-ND	15.15	11.37	8.41	Z8F2402AR020EC	—
								Extended	68-PLCC	269-3171-ND	15.27	11.46	8.48	Z8F2402VS020EC	
		31	2 UARTS, I2C, SPI, IrDA	8-ch 10-bit	3.0 ~ 3.6V	20MHz	3	Extended	40-DIP	269-3265-ND	7.65	5.74	3.65	Z8F2421PM020EC	269-3249-ND
								Commercial	40-DIP	269-3266-ND	7.29	5.47	3.47	Z8F2421PM020SC	
								Extended	44-LQFP	269-3263-ND	7.62	5.72	3.63	Z8F2421AN020EC	
								Commercial	44-LQFP	269-3264-ND	7.26	5.45	3.46	Z8F2421AN020SC	
								Extended	44-PLCC	269-3267-ND	7.41	5.56	3.53	Z8F2421VN020EC	
								Commercial	44-PLCC	269-3268-ND	7.05	5.29	3.36	Z8F2421VN020SC	
		46	2 UARTS, I2C, SPI, IrDA	12-ch 10-bit	3.0 ~ 3.6V	20MHz	4	Extended	64-LQFP	269-3269-ND	8.13	6.10	3.88	Z8F2422AR020EC	269-3249-ND
								Commercial	64-LQFP	269-3270-ND	7.74	5.81	3.69	Z8F2422AR020SC	
								Extended	68-PLCC	269-3271-ND	8.10	6.08	3.86	Z8F2422VS020EC	
								Commercial	68-PLCC	269-3272-ND	7.71	5.79	3.67	Z8F2422VS020SC	
32K	2K	31	2 UARTS, I2C, SPI, IrDA	8-ch 10-bit	3.0 ~ 3.6V	20MHz	3	Extended	40-DIP	269-3173-ND	15.63	11.73	8.68	Z8F3201PM020EC	—
								Extended	44-LQFP	269-3175-ND	15.54	11.66	8.63	Z8F3201AN020EC	
								Extended	44-PLCC	269-3186-ND	15.63	11.73	8.68	Z8F3201VN020EC	
		46	2 UARTS, I2C, SPI, IrDA	12-ch 10-bit	3.0 ~ 3.6V	20MHz	4	Extended	64-LQFP	269-3184-ND	16.11	12.09	8.95	Z8F3202AR020EC	—
								Commercial	64-LQFP	269-3140-ND	14.64	10.98	8.14	Z8F3202AR020SC	
								Extended	68-PLCC	269-3177-ND	16.23	12.18	9.02	Z8F3202VS020EC	
		31	2 UARTS, I2C, SPI, IrDA	8-ch 10-bit	3.0 ~ 3.6V	20MHz	3	Extended	40-DIP	269-3275-ND	8.76	6.57	4.17	Z8F3221PM020EC	269-3249-ND
								Commercial	40-DIP	269-3276-ND	8.34	6.26	3.98	Z8F3221PM020SC	
								Extended	44-LQFP	269-3273-ND	8.73	6.55	4.15	Z8F3221AN020EC	
								Commercial	44-LQFP	269-3274-ND	8.31	6.24	3.96	Z8F3221AN020SC	
								Extended	44-PLCC	269-3277-ND	8.52	6.39	4.06	Z8F3221VN020EC	
								Commercial	44-PLCC	269-3278-ND	8.13	6.10	3.87	Z8F3221VN020SC	
		46	2 UARTS, I2C, SPI, IrDA	12-ch 10-bit	3.0 ~ 3.6V	20MHz	4	Extended	64-LQFP	269-3279-ND	9.24	6.93	4.40	Z8F3222AR020EC	269-3249-ND
								Commercial	64-LQFP	269-3280-ND	8.82	6.62	4.19	Z8F3222AR020SC	
								Extended	68-PLCC	269-3281-ND	9.21	6.91	4.38	Z8F3222VS020EC	
								Commercial	68-PLCC	269-3282-ND	8.76	6.57	4.18	Z8F3222VS020SC	

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Memory Size Program (Bytes)	RAM (Bytes)	I/O Pins	Serial Communication	ADC	VCC	Clock Speed	Timer/ Counters (16-bit)	Operating Temp.	Package	Digi-Key Part No.	Price Each 1	25	100	Zilog Part No.	Development Tools
48K	4K	31	2 UARTS, I2C, SPI, IrDA	8-ch 10-bit	3.0 ~ 3.6V	20MHz	3	Extended	40-DIP	269-3172-ND	17.58	13.19	9.76	Z8F4801PM020EC	—
								Commercial	40-DIP	269-3143-ND	15.99	12.00	8.88	Z8F4801PM020SC	
								Extended	44-PLCC	269-3176-ND	17.58	13.19	9.76	Z8F4801VN020EC	
								Extended	44-LQFP	269-3197-ND	17.49	13.12	9.72	Z8F4801AN020EC	
		46	2 UARTS, I2C, SPI, IrDA	12-ch 10-bit	3.0 ~ 3.6V	20MHz	4	Extended	64-LQFP	269-3187-ND	18.06	13.55	10.04	Z8F4802AR020EC	—
								Commercial	64-LQFP	269-3145-ND	18.06	13.55	10.04	Z8F4802AR020SC	
								Extended	68-PLCC	269-3191-ND	18.18	13.64	10.11	Z8F4802VS020EC	
		60	2 UARTS, I2C, SPI, IrDA	12-ch 10-bit	3.0 ~ 3.6V	20MHz	4	Extended	80-QFP	269-3185-ND	18.60	13.95	10.34	Z8F4803FT020EC	—
		31	2 UARTS, I2C, SPI, IrDA	8-ch 10-bit	3.0 ~ 3.6V	20MHz	3	Extended	40-DIP	269-3285-ND	10.02	7.52	4.77	Z8F4821PM020EC	269-3249-ND
								Commercial	40-DIP	269-3286-ND	9.54	7.16	4.54	Z8F4821PM020SC	
								Extended	44-PLCC	269-3287-ND	9.78	7.34	4.65	Z8F4821VN020EC	
								Commercial	44-PLCC	269-3288-ND	9.30	6.98	4.43	Z8F4821VN020SC	
								Extended	44-LQFP	269-3283-ND	9.96	7.47	4.75	Z8F4821AN020EC	
								Commercial	44-LQFP	269-3284-ND	9.48	7.11	4.52	Z8F4821AN020SC	
		46	2 UARTS, I2C, SPI, IrDA	12-ch 10-bit	3.0 ~ 3.6V	20MHz	4	Extended	64-LQFP	269-3289-ND	10.50	7.88	5.00	Z8F4822AR020EC	269-3249-ND
								Commercial	64-LQFP	269-3290-ND	9.99	7.50	4.76	Z8F4822AR020SC	
								Extended	68-PLCC	269-3291-ND	10.44	7.83	4.98	Z8F4822VS020EC	
								Commercial	68-PLCC	269-3192-ND	12.63	9.48	7.01	Z8F4822VS020SC	
		60	2 UARTS, I2C, SPI, IrDA	12-ch 10-bit	3.0 ~ 3.6V	20MHz	4	Extended	80-QFP	269-3293-ND	10.56	7.92	5.03	Z8F4823FT020EC	269-3249-ND
								Commercial	80-QFP	269-3294-ND	10.08	7.56	4.80	Z8F4823FT020SC	
64K	4K	31	2 UARTS, I2C, SPI, IrDA	8-ch 10-bit	3.0 ~ 3.6V	20MHz	3	Extended	40-DIP	269-3174-ND	19.53	14.65	10.85	Z8F6401PM020EC	—
								Commercial	40-DIP	269-3149-ND	17.76	13.32	9.86	Z8F6401PM020SC	
								Extended	44-PLCC	269-3178-ND	19.53	14.65	10.85	Z8F6401VN020EC	
								Commercial	44-PLCC	269-3150-ND	17.76	13.32	9.86	Z8F6401VN020SC	
								Extended	44-LQFP	269-3181-ND	19.44	14.58	10.80	Z8F6401AN020EC	
		46	2 UARTS, I2C, SPI, IrDA	12-ch 10-bit	3.0 ~ 3.6V	20MHz	4	Extended	64-LQFP	269-3203-ND	20.01	15.01	11.12	Z8F6402AR020EC	—
								Commercial	64-LQFP	269-3151-ND	18.21	13.66	10.11	Z8F6402AR020SC	
								Extended	68-PLCC	269-3188-ND	20.16	15.12	11.19	Z8F6402VS020EC	
								Commercial	68-PLCC	269-3152-ND	18.33	13.75	10.18	Z8F6402VS020SC	
		60	2 UARTS, I2C, SPI, IrDA	12-ch 10-bit	3.0 ~ 3.6V	20MHz	4	Extended	80-QFP	269-3182-ND	20.55	15.42	11.42	Z8F6403FT020EC	—
								Commercial	80-QFP	269-3153-ND	18.69	14.02	10.38	Z8F6403FT020SC	
		31	2 UARTS, I2C, SPI, IrDA	8-ch 10-bit	3.0 ~ 3.6V	20MHz	3	Extended	40-DIP	269-3297-ND	10.89	8.17	5.18	Z8F6421PM020EC	269-3249-ND
								Commercial	40-DIP	269-3298-ND	10.38	7.79	4.94	Z8F6421PM020SC	
								Extended	44-PLCC	269-3299-ND	10.65	7.99	5.07	Z8F6421VN020EC	
								Commercial	44-PLCC	269-3300-ND	10.14	7.61	4.83	Z8F6421VN020SC	
								Extended	44-LQFP	269-3295-ND	10.83	8.13	5.16	Z8F6421AN020EC	
								Commercial	44-LQFP	269-3296-ND	10.32	7.74	4.92	Z8F6421AN020SC	
		46	2 UARTS, I2C, SPI, IrDA	12-ch 10-bit	3.0 ~ 3.6V	20MHz	4	Extended	64-LQFP	269-3301-ND	11.37	8.53	5.41	Z8F6422AR020EC	269-3249-ND
								Commercial	64-LQFP	269-3302-ND	10.83	8.13	5.16	Z8F6422AR020SC	
								Commercial	64-LQFP	269-3641-ND **NEW!**	10.83	7.22	5.16	Z8F6422AR020SC2104	
								Extended	68-PLCC	269-3303-ND	11.34	8.51	5.39	Z8F6422VS020EC	
								Commercial	68-PLCC	269-3304-ND	10.80	8.10	5.14	Z8F6422VS020SC	
		60	2 UARTS, I2C, SPI, IrDA	12-ch 1-bit	3.0 ~ 3.6V	20MHz	4	Extended	80-QFP	269-3305-ND	11.46	8.60	5.45	Z8F6423FT020EC	269-3249-ND
								Commercial	80-QFP	269-3306-ND	10.89	8.17	5.19	Z8F6423FT020SC	

Z8 Encore! XP® Flash Microcontrollers 4K Series

he Z8 Encore!® MCU family of products are the first in a line of ZiLOG microcontroller products based upon e 8-bit eZ8 CPU. The Z8 Encore! XP 4K Series products expand upon ZiLOG's extensive line of 8-bit icrocontrollers. The Flash in-circuit programming capability allows for faster development time and program anges in the field. The new eZ8 CPU is upward compatible with existing Z8 instructions. The rich peripheral t of the Z8 Encore! family makes it suitable for a variety of applications including motor control, security systems, home appliances, personal electronic devices and sensors.

Features: • Program Memory Type: Flash • On-Chip Special Features: POR, VBO, Temperature Sensor, Analog Comparator, Current Sense Amplifier, Up to 18 vectored interrupts • WDT • COMM Interfaces: UART, OCD • Operating Temperature: Extended -40°C ~ 105° C, Commercial 0°C ~ 70°C

Memory Size Program (Bytes)	RAM (Bytes)	I/O Pins	NVDS (Bytes)	Serial Communication	ADC	VCC	Clock Speed	Timer/ Counters (16-bit)	Operating Temp.	Package	Digi-Key Part No.	Price Each 1	25	100	Zilog Part No.	Development Tool
1K	256	6	16	UART	—	2.7 ~ 3.6	20MHz	2	Extended	8-DIP	269-3642-ND **NEW!**	3.39	3.11	1.70	Z8F011APB020EC	269-3307-ND, 269-3638-ND
									Commercial	8-DIP	269-3643-ND **NEW!**	3.30	3.03	1.65	Z8F011APB020SC	
									Extended	8-MLF	269-3644-ND **NEW!**	3.54	3.25	1.77	Z8F011AQB020EC	
									Commercial	8-MLF	269-3645-ND **NEW!**	3.42	3.14	1.71	Z8F011AQB020SC	
									Extended	8-SOIC	269-3646-ND **NEW!**	3.36	3.08	1.68	Z8F011ASB020EC	
									Commercial	8-SOIC	269-3647-ND **NEW!**	3.24	2.97	1.62	Z8F011ASB020SC	
		17	16	UART	—	2.7 ~ 3.6	20MHz	2	Extended	20-SSOP	269-3308-ND	3.18	2.65	1.51	Z8F011AHH020EC	269-3307-ND, 269-3638-ND
									Commercial	20-SSOP	269-3309-ND	3.03	2.53	1.44	Z8F011AHH020SC	
									Extended	20-DIP	269-3312-ND	3.54	2.95	1.69	Z8F011APH020EC	
									Commercial	20-DIP	269-3313-ND	3.36	2.80	1.61	Z8F011APH020SC	
									Extended	20-SOIC	269-3316-ND	3.18	2.65	1.51	Z8F011ASH020EC	
									Commercial	20-SOIC	269-3317-ND	3.03	2.53	1.44	Z8F011ASH020SC	
		25	16	UART	—	2.7 ~ 3.6	20MHz	2	Extended	28-SSOP	269-3310-ND	3.30	2.75	1.57	Z8F011AHJ020EC	269-3307-ND, 269-3638-ND
									Commercial	28-SSOP	269-3311-ND	3.12	2.60	1.49	Z8F011AHJ020SC	
									Extended	28-DIP	269-3314-ND	3.75	3.13	1.79	Z8F011APJ020EC	
									Commercial	28-DIP	269-3315-ND	3.57	2.98	1.71	Z8F011APJ020SC	
									Extended	28-SOIC	269-3318-ND	3.30	2.75	1.57	Z8F011ASJ020EC	
									Commercial	28-SOIC	269-3319-ND	3.12	2.60	1.49	Z8F011ASJ020SC	
		6	16	UART	7-ch 10-bit	2.7 ~ 3.6	20MHz	2	Extended	8-DIP	269-3648-ND **NEW!**	3.60	3.30	1.80	Z8F012APB020EC	269-3307-ND, 269-3638-ND
									Commercial	8-DIP	269-3649-ND **NEW!**	3.48	3.19	1.74	Z8F012APB020SC	
									Extended	8-MLF	269-3650-ND **NEW!**	3.72	3.41	1.86	Z8F012AQB020EC	
									Commercial	8-MLF	269-3651-ND **NEW!**	3.63	3.33	1.82	Z8F012AQB020SC	
									Extended	8-SOIC	269-3652-ND **NEW!**	3.54	3.25	1.77	Z8F012ASB020EC	
									Commercial	8-SOIC	269-3653-ND **NEW!**	3.45	3.17	1.73	Z8F012ASB020SC	

(Continued)

Memory Size Program (Bytes)	RAM (Bytes)	I/O Pins	NVDS (Bytes)	Serial Communication	ADC	VCC	Clock Speed	Timer/ Counters (16-bit)	Operating Temp.	Package	Digi-Key Part No.	Price Each 1	25	100	Zilog Part No.	Development Tool
1K	256	17	16	UART	7-ch 10-bit	2.7 ~ 3.6	20MHz	2	Extended	20-SSOP	269-3320-ND	3.30	2.75	1.59	Z8F012AHH020EC	
									Commercial	20-SSOP	269-3321-ND	3.18	2.65	1.51	Z8F012AHH020SC	
									Extended	20-DIP	269-3324-ND	3.69	3.08	1.76	Z8F012APH020EC	269-3307-ND,
									Commercial	20-DIP	269-3325-ND	3.54	2.95	1.68	Z8F012APH020SC	269-3638-ND
									Extended	20-SOIC	269-3328-ND	3.33	2.78	1.59	Z8F012ASH020EC	
									Commercial	20-SOIC	269-3329-ND	3.18	2.65	1.51	Z8F012ASH020SC	
		23	16	UART	8-ch 10-bit	2.7 ~ 3.6	20MHz	2	Extended	28-SSOP	269-3322-ND	3.45	2.88	1.64	Z8F012AHJ020EC	
									Commercial	28-SSOP	269-3323-ND	3.27	2.73	1.56	Z8F012AHJ020SC	
									Extended	28-DIP	269-3326-ND	3.90	3.25	1.87	Z8F012APJ020EC	269-3307-ND,
									Commercial	28-DIP	269-3327-ND	3.72	3.10	1.78	Z8F012APJ020SC	269-3638-ND
									Extended	28-SOIC	269-3330-ND	3.45	2.88	1.64	Z8F012ASJ020EC	
									Commercial	28-SOIC	269-3331-ND	3.27	2.73	1.56	Z8F012ASJ020SC	
2K	512	6	64	UART	—	2.7 ~ 3.6	20MHz	2	Extended	8-DIP	269-3654-ND **NEW!**	3.99	3.66	2.00	Z8F021APB020EC	
									Commercial	8-DIP	269-3655-ND **NEW!**	3.87	3.55	1.94	Z8F021APB020SC	
									Extended	8-MLF	269-3656-ND **NEW!**	4.11	3.77	2.06	Z8F021AQB020EC	269-3307-ND,
									Commercial	8-MLF	269-3657-ND **NEW!**	4.02	3.69	2.01	Z8F021AQB020SC	269-3638-ND
									Extended	8-SOIC	269-3658-ND **NEW!**	3.93	3.61	1.97	Z8F021ASB020EC	
									Commercial	8-SOIC	269-3659-ND **NEW!**	3.84	3.52	1.92	Z8F021ASB020SC	
		17	64	UART	—	2.7 ~ 3.6	20MHz	2	Extended	20-SSOP	269-3332-ND	3.36	2.80	1.59	Z8F021AHH020EC	
									Commercial	20-SSOP	269-3333-ND	3.18	2.65	1.52	Z8F021AHH020SC	
									Extended	20-DIP	269-3336-ND	3.72	3.10	1.78	Z8F021APH020EC	269-3307-ND,
									Commercial	20-DIP	269-3337-ND	3.54	2.95	1.69	Z8F021APH020SC	269-3638-ND
									Extended	20-SOIC	269-3340-ND	3.36	2.80	1.59	Z8F021ASH020EC	
									Commercial	20-SOIC	269-3341-ND	3.18	2.65	1.52	Z8F021ASH020SC	
		25	64	UART	—	2.7 ~ 3.6	20MHz	2	Extended	28-SSOP	269-3334-ND	3.45	2.88	1.65	Z8F021AHJ020EC	
									Commercial	28-SSOP	269-3335-ND	3.30	2.75	1.57	Z8F021AHJ020SC	
									Extended	28-DIP	269-3338-ND	3.96	3.30	1.89	Z8F021APJ020EC	269-3307-ND,
									Commercial	28-DIP	269-3339-ND	3.78	3.15	1.80	Z8F021APJ020SC	269-3638-ND
									Extended	28-SOIC	269-3342-ND	3.45	2.88	1.65	Z8F021ASJ020EC	
									Commercial	28-SOIC	269-3343-ND	3.30	2.75	1.57	Z8F021ASJ020SC	
		6	64	UART	7-ch 10-bit	2.7 ~ 3.6	20MHz	2	Extended	8-DIP	269-3660-ND **NEW!**	4.17	3.83	2.09	Z8F022APB020EC	
									Commercial	8-DIP	269-3661-ND **NEW!**	4.08	3.74	2.04	Z8F022APB020SC	
									Extended	8-MLF	269-3662-ND **NEW!**	4.32	3.96	2.16	Z8F022AQB020EC	269-3307-ND,
									Commercial	8-MLF	269-3663-ND **NEW!**	4.23	3.88	2.12	Z8F022AQB020SC	269-3638-ND
									Extended	8-SOIC	269-3664-ND **NEW!**	4.14	3.80	2.07	Z8F022ASB020EC	
									Commercial	8-SOIC	269-3665-ND **NEW!**	4.05	3.72	2.03	Z8F022ASB020SC	
		17	64	UART	7-ch 10-bit	2.7 ~ 3.6	20MHz	2	Extended	20-SSOP	269-3344-ND	3.51	2.93	1.67	Z8F022AHH020EC	
									Commercial	20-SSOP	269-3345-ND	3.36	2.80	1.59	Z8F022AHH020SC	
									Extended	20-DIP	269-3348-ND	3.90	3.25	1.86	Z8F022APH020EC	269-3307-ND,
									Commercial	20-DIP	269-3349-ND	3.72	3.10	1.77	Z8F022APH020SC	269-3638-ND
									Extended	20-SOIC	269-3352-ND	3.51	2.93	1.67	Z8F022ASH020EC	
									Commercial	20-SOIC	269-3353-ND	3.36	2.80	1.59	Z8F022ASH020SC	
		23	64	UART	8-ch 10-bit	2.7 ~ 3.6	20MHz	2	Extended	28-SSOP	269-3346-ND	3.63	3.03	1.73	Z8F022AHJ020EC	
									Commercial	28-SSOP	269-3347-ND	3.45	2.88	1.65	Z8F022AHJ020SC	
									Extended	28-DIP	269-3350-ND	4.14	3.45	1.97	Z8F022APJ020EC	269-3307-ND,
									Commercial	28-DIP	269-3351-ND	3.93	3.28	1.87	Z8F022APJ020SC	269-3638-ND
									Extended	28-SOIC	269-3354-ND	3.63	3.03	1.73	Z8F022ASJ020EC	
									Commercial	28-SOIC	269-3355-ND	3.45	2.88	1.65	Z8F022ASJ020SC	
4K	1K	6	128	UART	—	2.7 ~ 3.6	20MHz	2	Extended	8-DIP	269-3666-ND **NEW!**	4.59	4.21	2.30	Z8F041APB020EC	
									Commercial	8-DIP	269-3667-ND **NEW!**	4.47	4.10	2.24	Z8F041APB020SC	
									Extended	8-MLF	269-3668-ND **NEW!**	4.71	4.32	2.36	Z8F041AQB020EC	269-3307-ND,
									Commercial	8-MLF	269-3669-ND **NEW!**	4.62	4.24	2.31	Z8F041AQB020SC	269-3638-ND
									Extended	8-SOIC	269-3670-ND **NEW!**	4.53	4.16	2.27	Z8F041ASB020EC	
									Commercial	8-SOIC	269-3671-ND **NEW!**	4.44	4.07	2.22	Z8F041ASB020SC	
		17	128	UART	—	2.7 ~ 3.6	20MHz	2	Extended	20-SSOP	269-3356-ND	3.51	2.93	1.68	Z8F041AHH020EC	
									Commercial	20-SSOP	269-3357-ND	3.36	2.80	1.60	Z8F041AHH020SC	
									Extended	20-DIP	269-3360-ND	3.93	3.28	1.87	Z8F041APH020EC	269-3307-ND,
									Commercial	20-DIP	269-3361-ND	3.75	3.13	1.78	Z8F041APH020SC	269-3638-ND
									Extended	20-SOIC	269-3364-ND	3.51	2.93	1.68	Z8F041ASH020EC	
									Commercial	20-SOIC	269-3365-ND	3.36	2.80	1.60	Z8F041ASH020SC	
		25	128	UART	—	2.7 ~ 3.6	20MHz	2	Extended	28-SSOP	269-3358-ND	3.63	3.03	1.74	Z8F041AHJ020EC	
									Commercial	28-SSOP	269-3359-ND	3.48	2.90	1.65	Z8F041AHJ020SC	
									Extended	28-DIP	269-3362-ND	4.17	3.48	1.98	Z8F041APJ020EC	269-3307-ND,
									Commercial	28-DIP	269-3363-ND	3.96	3.30	1.89	Z8F041APJ020SC	269-3638-ND
									Extended	28-SOIC	269-3366-ND	3.63	3.03	1.74	Z8F041ASJ020EC	
									Commercial	28-SOIC	269-3367-ND	3.48	2.90	1.65	Z8F041ASJ020SC	
		6	128	UART	7-ch 10-bit	2.7 ~ 3.6	20MHz	2	Extended	8-DIP	269-3672-ND **NEW!**	4.77	4.38	2.39	Z8F042APB020EC	
									Commercial	8-DIP	269-3673-ND **NEW!**	4.68	4.29	2.34	Z8F042APB020SC	
									Extended	8-MLF	269-3674-ND **NEW!**	4.92	4.51	2.46	Z8F042AQB020EC	269-3307-ND,
									Commercial	8-MLF	269-3675-ND **NEW!**	4.83	4.43	2.42	Z8F042AQB020SC	269-3638-ND
									Extended	8-SOIC	269-3676-ND **NEW!**	4.74	4.35	2.37	Z8F042ASB020EC	
									Commercial	8-SOIC	269-3677-ND **NEW!**	4.65	4.27	2.33	Z8F042ASB020SC	
		17	128	UART	7-ch 10-bit	2.7 ~ 3.6	20MHz	2	Extended	20-SSOP	269-3368-ND	3.69	3.08	1.76	Z8F042AHH020EC	
									Commercial	20-SSOP	269-3369-ND	3.51	2.93	1.68	Z8F042AHH020SC	
									Extended	20-DIP	269-3372-ND	4.11	3.43	1.95	Z8F042APH020EC	269-3307-ND,
									Commercial	20-DIP	269-3373-ND	3.90	3.25	1.86	Z8F042APH020SC	269-3638-ND
									Extended	20-SOIC	269-3376-ND	3.69	3.08	1.76	Z8F042ASH020EC	
									Commercial	20-SOIC	269-3377-ND	3.51	2.93	1.68	Z8F042ASH020SC	

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Flash Programmable System Devices with 8032 Microcontroller Core

The UPSD32XX Devices combine a Flash PSD architecture with an 8032 microcontroller core. The UPSD32XX Devices for Flash PSDs feature dual banks of Flash memory, SRAM, general purpose I/O and programmable logic, supervisory functions and access via I2C, ADC and PWM channels, and an on-board 8032 microcontroller core, with two UARTs, three 16-bit Timer/Counters and two External Interrupts. As with other Flash PSD families, the UPSD32XX Devices are also in-system programmable (ISP) via a JTAG ISP interface. **Features:** • Content Security: Block access to Flash memory • Programmable Decode PLD for flexible address mapping of all memories within 8032 space. • I2C interface for peripheral connections • 5 Pulse Width Modulator (PWM) channels • Analog-to-Digital Converter (ADC) • 3000 gate PLD with 16 macrocells • In-System Programming (ISP) via JTAG **Operating Temperature Range:** -40°C ~ 85°C

Flash Size (Kbit)	Main Flash (Bytes)	SRAM (Bytes)	Device Speed (MHz)	Number of I/O Pins	Timer/ Counters	Operating Supply Voltage	Package	Digi-Key Part No.	Price Each 1	10	100	STMicroelectronics Part No.
512	64K	2K	40	37	3	5.0	52-TQFP	497-2363-ND	9.41	8.59	6.79	UPSD3212C-40T6
	64K	2K	40	46	3	5.0	80-TQFP	497-2364-ND	9.98	9.12	7.21	UPSD3212C-40U6
	64K	2K	24	37	3	3.0	52-TQFP	497-2365-ND	9.41	8.59	6.79	UPSD3212CV-24T6
	64K	2K	24	46	3	3.0	80-TQFP	497-2366-ND	9.98	9.12	7.21	UPSD3212CV-24U6
1K	128K	8K	40	37	3	5.0	52-TQFP	497-2367-ND	10.26	9.50	7.19	UPSD3233B-40T6
	128K	8K	40	46	3	5.0	80-TQFP	497-2368-ND	11.00	10.18	7.70	UPSD3233B-40U6
	128K	8K	24	37	3	3.0	52-TQFP	497-2369-ND	10.26	9.50	7.19	UPSD3233BV-24T6
	128K	8K	24	46	3	3.0	80-TQFP	497-2370-ND	11.00	10.18	7.70	UPSD3233BV-24U6
	128K	32K	40	37	3	5.0	52-TQFP	497-2374-ND	12.36	11.44	8.66	UPSD3253B-40T6
	128K	32K	24	37	3	3.0	52-TQFP	497-2375-ND	12.36	11.44	8.66	UPSD3253BV-24T6
2K	256K	8K	40	37	3	5.0	52-TQFP	497-2371-ND	11.52	10.66	8.07	UPSD3234A-40T6
	256K	8K	40	46	3	5.0	80-TQFP	497-2372-ND	12.26	11.35	8.59	UPSD3234A-40U6
	256K	8K	24	46	3	3.0	80-TQFP	497-2373-ND	11.56	10.70	8.10	UPSD3234BV-24U6
	256K	32K	40	37	3	5.0	52-TQFP	497-2376-ND	13.62	12.60	9.54	UPSD3254A-40T6
	256K	32K	40	46	3	5.0	80-TQFP	497-2377-ND	14.38	13.31	10.07	UPSD3254A-40U6
	256K	32K	24	46	3	3.0	80-TQFP	497-2378-ND	13.66	12.64	9.57	UPSD3254BV-24U6

Microcontrollers and Other Programmable Devices

For the mass market ST offers several families of microcontrollers, e.g. the ST62, the ST7 and the ST9 ranges, with the result that there is a ST microcontroller to suit every kind of application, from those where minimum cost is the primary requirement to those that need powerful real-time performance and high-level language support. The recently introduced ST FIVE family integrates all the benefits of microcontrollers, together with a dedicated architecture, the "Decision Processor", oriented to high-level algorithms and a visual programming approach. ST also offers the innovative Programmable System Memory (FlashPSD, DSM) products, which combine memory functions such as Flash, EEPROM and SRAM with programmable logic on a single chip. Designed to interface with all standard microcontrollers to provide a complete system implementation, Programmable System Memories can be quickly and easily programmed without special manufacturing equipment, even in the field.

Bit Size	Flash (Bytes)	RAM (Bytes)	Timers	Number of I/O Pins	A/D	Operating Supply Voltage	Clock Frequency (MHz)	Operating Temperature Range	Package	Digi-Key Part No.	Price Each 1	10	100	STMicroelectronics Part No.
8	256K	8K	Yes	80	16-Ch., 10-Bit	4.5 ~ 5.5	24	-40°C ~ 105°C	100-TQFP	497-2140-ND	15.82	14.64	11.08	ST92F250CV2TB
	256K	8K	Yes	80	16-Ch., 10-Bit	4.5 ~ 5.5	24	-40°C ~ 105°C	100-PQFP	497-2139-ND	16.30	15.08	11.41	ST92F250CV2QB
	128K	6K	Yes	77	16-Ch., 10-Bit	4.5 ~ 5.5	24	-40°C ~ 125°C	100-TQFP	497-2138-ND	15.82	14.64	11.08	ST92F150JDV1TC
	128K	6K	Yes	77	16-Ch., 10-Bit	4.5 ~ 5.5	24	-40°C ~ 125°C	100-PQFP	497-2137-ND	16.38	15.16	11.47	ST92F150JDV1QC
	128K	4K	Yes	48	8-Ch., 10-Bit	4.5 ~ 5.5	24	-40°C ~ 125°C	64-TQFP	497-2136-ND	13.14	12.16	9.20	ST92F150CR1TC
	8K	384	Yes	15	7-Ch., 10-Bit	2.4 ~ 5.5	8	-40°C ~ 85°C	20-SOIC	497-2135-5-ND	4.64	4.05	3.01	ST7FLITE29F2M6
	8K	384	Yes	15	7-Ch., 10-Bit	2.4 ~ 5.5	8	-40°C ~ 85°C	20-DIP	497-2134-5-ND	4.64	4.05	3.01	ST7FLITE29F2B6
	4K	256	Yes	15	7-Ch., 10-Bit	2.4 ~ 5.5	8	-40°C ~ 85°C	20-SOIC	497-2133-5-ND	4.21	3.67	2.73	ST7FLITE19F1M6
	4K	256	Yes	15	7-Ch., 10-Bit	2.4 ~ 5.5	8	-40°C ~ 85°C	20-DIP	497-2132-5-ND	4.21	3.67	2.73	ST7FLITE19F1B6
	8K	384	Yes	15	7-Ch., 10-Bit	2.4 ~ 5.5	16	-40°C ~ 85°C	20-SOIC	497-2131-5-ND	5.27	4.59	3.42	ST7FDALIF2M6
	8K / OTP	256	Yes	14	8-Ch., 8-Bit	4.0 ~ 5.5	8	-40°C ~ 85°C	34-SOIC	497-2117-5-ND	7.48	6.83	5.40	ST72T141K2M6
	8K / OTP	256	Yes	14	8-Ch., 8-Bit	4.0 ~ 5.5	8	-40°C ~ 85°C	32-DIP	497-2116-5-ND	8.03	7.33	5.80	ST72T141K2B6
	16K	512	Yes	19	8-Ch., 8-Bit	4.0 ~ 5.5	8	0°C ~ 70°C	34-SOIC	497-2115-5-ND	6.35	5.53	4.12	ST72F63BK4M1
	8K	384	Yes	11	3-Ch., 10-Bit	4.0 ~ 5.5	8	0°C ~ 70°C	20-SOIC	497-2114-5-ND	6.62	5.76	4.29	ST72F623F2M1
	8K	384	Yes	23	8-Ch., 10-Bit	4.0 ~ 5.5	8	0°C ~ 70°C	34-SOIC	497-2113-5-ND	5.48	4.78	3.56	ST72F622L2M1
	16K	768	Yes	23	8-Ch., 10-Bit	4.0 ~ 5.5	8	0°C ~ 70°C	34-SOIC	497-2112-5-ND	6.92	6.33	5.00	ST72F621L4M1
	16K	768	Yes	31	8-Ch., 10-Bit	4.0 ~ 5.5	8	0°C ~ 70°C	44-TQFP	497-2111-ND	8.51	7.77	6.15	ST72F621J4T1
	16K	768	Yes	31	8-Ch., 10-Bit	4.0 ~ 5.5	8	0°C ~ 70°C	42-DIP	497-2110-5-ND	8.51	7.77	6.15	ST72F621J4B1
	32K	1K	Yes	32	8-Ch., 10-Bit	3.8 ~ 5.5	8	-40°C ~ 85°C	32-TQFP	497-2109-ND	6.37	5.55	4.13	ST72F324K6T6
	32K	1K	Yes	32	12-Ch., 10-Bit	3.8 ~ 5.5	8	-40°C ~ 85°C	44-TQFP	497-2108-ND	5.80	5.30	4.19	ST72F324J6T6
	32K	1K	Yes	32	12-Ch., 10-Bit	3.8 ~ 5.5	8	-40°C ~ 85°C	42-DIP	497-2107-5-ND	5.94	5.17	3.85	ST72F324J6B6
	8K	256	Yes	22	6-Ch., 10-Bit	2.4 ~ 5.5	8	-40°C ~ 85°C	28-SOIC	497-2106-5-ND	5.67	4.94	3.68	ST72F264G2M6
	4K	256	Yes	22	6-Ch., 10-Bit	2.4 ~ 5.5	8	-40°C ~ 85°C	28-SOIC	497-2105-5-ND	3.92	3.41	2.54	ST72F264G1M6

Bit Size	Program Memory / Type (Bytes)	RAM (Bytes)	Timers	Number of I/O Pins	A/D	Operating Supply Voltage	Clock Frequency (MHz)	Operating Temperature Range	Package	Digi-Key Part No.	Price Each 1	10	100	STMicroelectronics Part No.
8	3K / OTP	128	Yes	21	13-Ch., 8-Bit	3.0 ~ 6.0	8	-40°C ~ 85°C	28-SOIC	497-2103-5-ND	4.83	4.21	3.14	ST62T65CM6
	3K / OTP	128	Yes	13	7-Ch., 8-Bit	3.0 ~ 6.0	8	-40°C ~ 85°C	20-SOIC	497-2102-5-ND	4.67	4.07	3.03	ST62T60CM6
	4K / OTP	64	Yes	20	16-Ch., 8-Bit	3.0 ~ 6.0	8	-40°C ~ 85°C	28-SOIC	497-2101-5-ND	5.64	4.92	3.66	ST62T25CM6
	4K / OTP	64	Yes	20	16-Ch., 8-Bit	3.0 ~ 6.0	8	-40°C ~ 85°C	28-DIP	497-2100-5-ND	5.64	4.92	3.66	ST62T25CB6
	4K / OTP	64	Yes	12	8-Ch., 8-Bit	3.0 ~ 6.0	8	-40°C ~ 85°C	20-SOIC	497-2099-5-ND	3.08	2.68	2.00	ST62T20CM6
	4K / OTP	64	Yes	12	8-Ch., 8-Bit	3.0 ~ 6.0	8	-40°C ~ 85°C	20-DIP	497-2098-5-ND	3.08	2.68	2.00	ST62T20CB6
	2K / OTP	64	Yes	12	8-Ch., 8-Bit	3.0 ~ 6.0	8	-40°C ~ 85°C	20-SOIC	497-2097-5-ND	2.97	2.48	2.08	ST62T10CM6
	2K / OTP	64	Yes	12	8-Ch., 8-Bit	3.0 ~ 6.0	8	-40°C ~ 85°C	20-DIP	497-2096-5-ND	2.97	2.48	2.08	ST62T10CB6
	2K / OTP	64	Yes	9	4-Ch., 8-Bit	3.0 ~ 6.0	8	-40°C ~ 85°C	16-SOIC	497-2095-5-ND	2.73	2.28	1.92	ST62T01CM6
	2K / OTP	64	Yes	9	4-Ch., 8-Bit	3.0 ~ 6.0	8	-40°C ~ 85°C	16-DIP	497-2094-5-ND	2.73	2.28	1.92	ST62T01CB6
	1K / OTP	64	Yes	9	4-Ch., 8-Bit	3.0 ~ 6.0	8	-40°C ~ 85°C	16-DIP	497-2093-5-ND	2.22	1.85	1.56	ST62T00CB6
16	Romless	1K	Yes	77	—	3.3	50	-40°C ~ 85°C	100-TQFP	497-2045-ND	8.63	7.88	6.23	ST10R272LT6
	Romless	1K	Yes	77	—	3.3	50	-40°C ~ 85°C	100-TQFP	497-2044-ND	8.21	7.50	5.93	ST10R172LT6
	Romless	2K	Yes	111	16-Ch., 10-Bit	5.0	25	-40°C ~ 125°C	144-PQFP	497-2043-ND	19.69	16.88	14.97	ST10R167-Q3
	Romless	12K	Yes	111	16-Ch., 10-Bit	5.0	40	-40°C ~ 125°C	144-PQFP	497-2042-ND	31.50	27.00	23.94	ST10F269Z2Q3

Low Cost Field Programmable Microcontroller Peripherals

The low cost PSD3XX family integrates high-performance and user-configurable blocks of EPROM, programmable logic and optional SRAM into one part. The PSD3XX products also provide a powerful microcontroller interface that eliminates the need for external "glue logic". The part's integration, small form factor, low power consumption and ease of use make it ideal for interfacing to virtually any microcontroller.

Major functional blocks of the PSD3XX: • Two programmable logic arrays • 256Kb to 1Mb of EPROM • Optional 16Kb SRAM • Input latches • Programmable I/O ports • Page logic • Programmable security

The ZPSD3XX has improved technology that helps reduce current consumption using the Turbo bit. Excellent if you require a 5V version of the PSD3XX that uses less power.

Speed: -70 = 70ns, -90 = 90ns

No. PLD Inputs	EPROM Size	SRAM Size	Page Reg.	Voltage	Turbo Bit	Bus Width	Typical Standby Current	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	STMicroelectronics Part No.
14	256Kb	16Kb	—	5V	—	x8	50µA	497-3691-ND	10.70	9.90	7.49	PSD311B-70J
14	256Kb	16Kb	—	5V	—	x8	50µA	497-3692-ND	10.90	10.09	7.63	PSD311B-90JI
18	512Kb	16Kb	Yes	5V	—	x8	50µA	497-3693-ND	12.48	11.55	8.74	PSD312B-70J
18	512Kb	16Kb	Yes	5V	—	x8	50µA	497-3694-ND	12.72	11.77	8.91	PSD312B-90JI
18	1Mb	16Kb	Yes	5V	—	x8	50µA	497-3695-ND	14.38	13.31	10.07	PSD313B-70J
18	1Mb	16Kb	Yes	5V	—	x8	50µA	497-3696-ND	14.64	13.55	10.25	PSD313B-90JI
14	256Kb	16Kb	—	5V	Yes	x8 or x16	10µA	497-3697-ND	12.68	11.73	8.88	ZPSD301B-70J
14	256Kb	16Kb	—	5V	Yes	x8 or x16	10µA	497-3698-ND	12.92	11.96	9.05	ZPSD301B-90JI
18	512Kb	16Kb	Yes	5V	Yes	x8 or x16	10µA	497-3699-ND	14.80	13.69	10.36	ZPSD302B-70J
18	512Kb	16Kb	Yes	5V	Yes	x8 or x16	10µA	497-3700-ND	15.06	13.94	10.55	ZPSD302B-90JI
18	1Mb	16Kb	Yes	5V	Yes	x8 orx16	10µA	497-3701-ND	17.34	16.04	12.14	ZPSD303B-90JI

NEW! ARM7

The STR7 is a range of innovative 32 bit microcontrollers built on the industry standard ARM7 RISC core.

The STR7 devices include high quality embedded Flash and feature powerful peripheral functions including USB and CAN. They are ideal for embedded applications requiring a compact yet powerful MCU and a versatile scalable solution. STR7 are used in various applications like user interfaces, factory automation systems, point of sale, appliances and many others.

Built on the leading ARM™ architecture, STR7 allows fast response to emerging requirements, enabling the rapid implementation of changes at low cost. The flexibility of the family, with its rich options for Flash, RAM, the largest peripherals set and its versatile package options helps you reuse it for a whole range of products, optimizing your developments. It helps you build cost effective and powerful solutions that bring innovation in your market.

ARM core with embedded Flash and RAM.

The STR71xF series is a family of ARM powered 16/32-bit Microcontrollers with embedded Flash and RAM. It contains the high performance ARM7TDMI CPU with an extensive range of peripheral functions and enhanced I/O capabilities.

All devices have on-chip high speed single voltage FLASH memory and high speed RAM. The STR71xF family has an embedded ARM core and is therefore compatible with all ARM tools and software.

For more information on the ARM Realview Developer Kit for ST and third party development tools, please refer to the www.st.com/mcu

Internal ROM Type	Internal ROM Size	Internal RAM Size	EMI	USB	CAN	I/O Ports	Package	Temperature Range	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	STMicroelectronics Part No.
Mask ROM	128K	32K	Yes	Yes	Yes	48	144-TQFP	-40°C~85°C	497-4510-ND	16.24	15.03	11.37	STR710FZ1T6
Mask ROM	256K	64K	Yes	Yes	Yes	48	144-TQFP	-40°C~85°C	497-4511-ND	17.36	16.06	12.16	STR710FZ2T6
Flash	128K	32K	No	Yes	No	30	64-TQFP	-40°C~85°C	497-4512-ND	12.60	11.66	8.82	STR711FR1T6
Flash	256K	64K	No	Yes	No	30	64-TQFP	-40°C~85°C	497-4513-ND	15.40	14.25	10.78	STR711FR2T6
Flash	128K	32K	No	No	Yes	32	64-TQFP	-40°C~85°C	497-4514-ND	12.60	11.66	8.82	STR712FR1T6
Flash	256K	64K	No	No	Yes	32	64-TQFP	-40°C~85°C	497-4515-ND	15.40	14.25	10.78	STR712FR2T6

NEW! STR7-RVDK

The ARM RealView Developer Kit for STMicroeletronics 2.1 offers a powerful, flexible and affordable solution for development on ST ARM core based microcontrollers. It provides you with complete software and hardware solution for building and debugging your application and programming any STR710 or STR720 microcontrollers.

STMicroelectronics partners with ARM to offer the ARM RealView Developer Kit for ST as a complete, cost effective development microcontrollers.

The STMicroelectronics new generation of super integrated single chip devices based on ARM code technology.

RealView Developer Kit for STMicroelectronics provides a complete environment for the development and debug of ST ARM core based Compiler, GUI debugger and the ST specific RealView ICE Micro Edition (RVICE-ME) JTAG run control device.

While the RealView Developer provides the same compiler optimization and debug facilities as the RealView Developer Suite.

You can use this kit with your application board, or with any of the evaluation platforms from STMicroelectronics for the ARM core based microcontrollers.

System Requirements: • Intel® Pentium® or compatible processor • Windows XP® Professional, or Windows® 2000 Service Pack 2 or later versions.

Software installation and licensing: Upon installation, you must obtain a license file from ARM for your Arm RealView Developer Kit for ST. This is a Windows node locked license, intended for a single user environment on one machine. It is obtained using the serial number found on the cover of your CD-ROM. Only one license is permitted per serial number.

Digi-Key Part No.	Price Each	STMicroelectronics Part No.
497-4517-ND	2080.00	STR7-RVDK

NEW! STR710-EVAL

The STR710-EVAL board is a complete evaluation platform for the STR71x series.

The STR710-EVAL board is a cost effective, flexible and open design to demonstrate the capability of the STR71x series of flash microcontrollers and to enable rapid evaluation of the STR71x devices and available peripherals.

It includes the high performance STR710FZ2T6 ARM7TDMITM device that boasts 256 Kbytes embedded flash with best in class random access time, 64 Kbytes on chip high speed SRAM as well as up to 10 serial communication interfaces, including USB and CAN.

The STR710-EVAL board includes SRAM and flash memory on the EMI to enable full freedom in development of large programs before custom hardware is designed.

It integrates a 2X16 LCD, LED's, UART, CAN, USB interfaces, piezo buzzer and test buttons to create a versatile stand alone test platform.

A wide choice of development tool support is readily available, including tools from: STMicroelectronics, ARM, Ashling, Green Hills, Hitex, IAR and PLS.

Main Components: • STR710F Processor running at 48 MHz • EMI SRAM 4 Mbytes (2Mx16) • EMI flash 4 Mbytes (2Mx16) • SPI serial flash • I2C EEPROM • LCD display

Features: • Support for the following interfaces: USB, CAN, RS232, LED displays, Buzzer, Test Buttons and JTAG connector

Digi-Key Part No.	Price Each	STMicroelectronics Part No.
497-4516-ND	754.00	STR710-EVAL

More Product Available Online: www.digikey.com
Toll-Free: 1-800-344-4539 • Phone: 218-681-6674 • Fax: 218-681-3380

ST7 Programmers

The ST7 EPB series of programming boards is able to program all ST7 microcontrollers with OTP, EPROM, EEPROM or FLASH memories, regardless of the socket type. Certain programming boards also support In-Situ Programming (ISP) or In-Circuit Programming (ICP). These boards are driven by ST programming software: ST7 Visual Programmer (STVP7), which includes all useful functions such as Verify, Blank Check, Read Master and others.

FEATURES:
- ISP/ICP Programming
- Handled Formats: *Intel HEX*
- Host Interface: *Parallel Port (LPT)*
- Power Supply: *Delivered inside the package*
- User Manual

Software: • STVP7 (Free, available on ST CD-ROM and web site)

Devices Supported*	Digi-Key Part No.	Price Each	STMicroelectronics Part No.
ST7LITE0x, ST7LITE2x, ST7226x	497-2896-ND	340.60	ST7MDT10-EPB/US
ST72321(64 pins), ST72521	497-2900-ND	353.60	ST7MDT20M-EPB/US
ST7262x	497-2901-ND	468.00	ST7MDTU2-EPB/US
ST7263B	497-2902-ND	468.00	ST7MDTU3-EPB/US

*Socket: All packages except TQFP64 10*10

Low Cost Programmer For ST7

ST In-Circuit Communication Kit (STICK) is an ideal introduction to the easy-to-use world of ST7 Flash MCUs. ST7 Flash STICK is low-cost, powerful and easy-to-use. STICK connects your PC to the ST7 Flash MCUs soldered on your application board. It takes advantage of the advanced In-Circuit-Communication (ICC) protocol developed by STMicroelectronics, which allows you to communicate with the ST7 through a limited number of signals.

FEATURES:
- Low cost and easy-to-use kit
- In-Circuit Programming (ICP)
- ICP support for all ST72Fxxx MCUs except ST72F6xx (USB)
- ST7 Visual Programmer graphical user interface

Hardware:
- ICC Interface
- Host Interface: *Parallel Port*
- HW Compatibility: *ST7 Evaluation Board*

Devices Supported: ST7LITE2x, ST7DALI, ST72264, ST72321, ST72324, ST7521 and ST72561

Digi-Key Part No.	Price Each	STMicroelectronics Part No.
497-2904-ND	93.60	ST7-STICK/US

ST9 Emulator

The ST92F150-EMU2 Emulator is built around the ST92F150 device and can be used to emulate any of the ST92F124/ F150/F250 family of devices. When debugging the application, the emulator reproduces the behavior and functionality of the ST9 microcontroller (MCU) in real time while connected to the application board in place of the MCU. It provides access to the MCU's internal resources (such as registers and memories) and provides powerful debugging capabilities such as management of break points and applications code trace. The emulator is composed of three parts: • ST9 Visual Debug Integrated Development Environment (IDE), running on your host PC • The ST9 HDS2V2 main board, connected to the host via a parallel cable, containing all emulation resources and communicating with the PC via a master microcontroller • A probe specific to the microcontroller and its package that is connected to the main board casing via 3 flat cables. The probe contains the emulated ST9 microcontroller, which runs the application program using its internal peripherals. The probe is connected to the application board via the ST9 microcontroller's socket.

FEATURES: Hardware: • Clock source selectable • Application power up detection • 9 External input triggers • 2 Output triggers (TTL levels)

SPECIFICATIONS: Host PC System Requirements: • One of the following operating systems: Microsoft Windows® 95, 98, 2000 or NT • Intel Pentium (or compatible) processor with minimum speed of 133MHz • Minimum RAM of 32MB (64MB recommended) • 50MB of free hard disk space to install all of the ST9 tools

APPLICATIONS: ST92F124, ST92F150, ST92F250

497-3101-ND **$5633.33**

ST9 Programmer

The ST92F150-EPB/US is a programming board kit which allows programming of ST9F150x1, x9 and ST92F124x1, x9 microcontrollers having EEPROM and FLASH memories. In-Situ Programming (ISP) is available for the FLASH devices. It is designed for programming prototypes or small quantities of microcontrollers. For mass production, using the appropriate gang programmer is recommended. This programmer can operate in remote mode under control of a Windows® 95/98/NT/2000 computer using a standard PC parallel port. Object code in either Intel HEX or Motorola S19 format is read from the disk file to program the target device. The menu-driven software also offers VERIFY, BLANK CHECK, READ, ERASE master and other utility functions.

FEATURES: Software: A host PC running the ST9 is the control interface for the ST9 EPB. STVP9 is a graphical Windows® interface which allows the user to: • Read, view, edit and save executable files in the Intel HEX and Motorola S19 formats, generated by the Assembler, Linker or C Compiler for ST microcontrollers • Program executable files into ST microcontrollers • View and verify a microcontroller's memory contents • Either create a project that defines how to program the microcontroller(s) or load the files whose contents you want to program and then execute the program

Kit Includes: • One ST9 EPB Eprom Programming Board • One power supply • One parallel cable • One "MCU on CD" CD-ROM containing the STVP9 software • One 14-pin HE10 type ribbon cable for ISP mode

APPLICATIONS: ST92F150x1, ST92F150x9, ST92F124x1 and ST92F124x9

497-3100-ND **$812.50**

ST9 Evaluation Board

ST92F150-EVAL: The aim of this Evaluation Board is to provide the user with a ready-to-use hardware environment for ST9 general purpose microcontrollers. The kit contains the hardware required for testing the principal peripherals, such as timers, SPI and SCI interfaces, A/D converters and I/O Ports. This kit does not cover CAN and J1850 devices, but a wire-wrap area available for connecting specific components is included and can be used to connect CAN or J1850 transceivers. If the same peripheral is present several times on the MCU (e.g. the multifunction timer on the ST92F120/F124/F150/F250), the board may be used to test at least one of them, but not always all of them.

Kit Includes:
- Motherboard for ST9 Evaluation Board
- ST92F120-PQFP100 Daughterboard
- ST92F150-TQFP64 Daughterboard
- AC/DC adapter
- RS232 serial cable (male-male)

497-2905-ND **$1168.70**

ST6 Starter Kits

This Starter Kit provides you with everything you need to immediately start designing, developing and evaluating applications designed for ST62 microcontrollers. Each starter kit comes with a preprogrammed device. It demonstrates ST6 features using the on-board hardware resources (pushbuttons, LEDs, trimmer, buzzer, RS232, etc.). Please note that a starter kit is not an emulator. Instructions are performed on the PC, I/Os on the Starter Kit. Therefore, the timing of the program execution is much slower than on the real device.

FEATURES:

Hardware:
- Immediate evaluation of ST62 devices, with demonstration examples
- Simulation/debugging within the user's real application environment
- In-socket/on-board programming (DIP or QFP socket)
- In-circuit programming

Software:
- Assembler, linker, debugger/simulator
- EPROM/OTP programming utilities
- Application examples and demonstrations

Devices Supported	Digi-Key Part No.	Price Each	STMicroelectronics Part No.
ST620x, ST621x, ST622x	497-2907-ND	152.10	ST622XC-KIT/110
ST625x, ST626x	497-2908-ND	206.70	ST626XC-KIT/US

ST7 Evaluation Boards

ST7FOPTIONS-EVAL:

The Safe ST7 Evaluation Board is intended for starting with the ST72F264 microcontroller and evaluating the features of the ST7 Flash family. The ST72F264 sample installed on-board is programmed with an example software application.

FEATURES: Evaluate ST72F264: • Integrated Low Voltage Detector/Auxiliary Voltage Detector (LVD/AVD) • Safe backup clock (CSS: Clock Security System) • High Sink I/Os • In-Application Programming (IAP) • In-Circuit Programming (ICP) • Nested Interrupts

Develop your own application using:

• I/O port connectors • Wire-wrap area • LEDs, 7-segment displays, buzzer • EEPROMs (SPI, I²C) • Trimmers and buttons for reset and interrupts

Standalone Board:

• A 9V battery is provided • Input connecter for external power

Devices Supported: ST72F26x

Contents:

• Safe ST7 Evaluation Board • 9V Battery • One ST72F264 MCU programmed with the example software application code • CD-ROMs • User Manual • Selection Guide • Documentation

ST7MDTULS-EVAL:

FEATURES:

• Low-speed USB Evaluation Board • Can be used to develop USB Class applications: In-Application Programming (IAP) hardware support Device Firmware Upgrade (DFU) and Human Interface Device (HID) application demonstrator (LEDs, buttons, trimmer) • ST72F61/62/63B MCU Family support • Wrapping area • Windows 98 applet, as well as USB firmware libraries for running the peripheral device

Devices Supported: ST72611, ST7262, ST263B

Contents:

• Two ST7 Low-speed USB microcontroller devices: ST72F62 in SDIP42 package and ST72F63B in SDIP32 package • One USB evaluation board • CD-ROMs

ST7MDT20-EVY/US and ST7MDT20-EVC/US:

These boards have been designed to help people begin working with ST7 devices or perform some tests and peripheral evaluation (SPI, I²C, ADC...). They can be used with a device, the emulator or development kit.

FEATURES:

• LEDs • Trimmer • ISP connector for Flash devices programming • Reset button • External Interrupt Management • Buzzer • SPI, I²C, EEPROM • CAN communication

Devices Supported: ST72124, ST72311, ST72311Rx, ST72314, ST72321, ST72324, ST72331, ST72334, ST7251x, ST72521 in QFP64

Contents:

• MDT20 board • Power Supply • ISP/ICP Connector for Flash devices programming • Exercise manual (with detailed description of the board)

Description	Digi-Key Part No.	Price Each	STMicroelectronics Part No.
Evaluation Board for ST7 Series	497-2895-ND	328.90	ST7FOPTIONS-EVAL
Low-Speed USB Evaluation Board	497-2903-ND	119.60	ST7MDTULS-EVAL
Evaluation Board for Training	497-2898-ND	634.40	ST7MDT20-EVY/US
Evaluation Board for Training	497-2897-ND	910.00	ST7MDT20-EVC/US

DK3300-ELCD Development Kit

The DK3300-ELCD board is a demo board for the uPSD3300 family which is a series of 8051 class microcontrollers (MCUs) that contain a new fast Turbo 8032 core with a large Dual Bank Flash memory, a large SRAM, many peripherals, programmable logic and a JTAG Debug / In System Programming (ISP) port.

The DK3300-ELCD contains all the items needed to explore the Turbo uPSD3300 MCU. Included in the kit are demonstration application examples along with an evaluation copy of the tools needed to develop and compile code for the uPSD3300. The kit also contains the adapters necessary for programming the Flash inside the uPSD and for accessing the built-in JTAG debug port.

497-3750-ND **$193.70**

DK900 Development Kit

Kit Includes:

• DK900 Evaluation Board with an 8051 MCU • FlashLINK JTAG In-System Programmer (ISP) • Detailed DK900 Manual for the 8051 MCU • Flash PSD sample in PLCC52 • UART and JTAG cables • 110V power supply

Download Software:

• PSDsoft Express • PSDload (version 1.10) - A Windows serial communications program (download self extracting archive load.exe) • DK900 8051 Demo contains demos for 8051 and 8051XA implementations • PSDstep - Serial communications protocol manual (MS Word doc format) • PSDloadman - Serial communications reference document (MS Word doc format)

497-2380-ND **$102.96**

DK3200 Development Kit

Features: • Flexing and Debugging • Keil ISD51 background debugger runs on UART • Easily connect In-Circuit Emulator with no adapter needed • Connect HP logic analyzer cables directly to expansion connectors Reliable 0.15µm NOR Flash Technology

497-2379-ND **$156.00**

EK3L02AQ Evaluation Board

Helps you in evaluating the LIS3L02AQ MEMS accelerometers in QFN package with the analog output. It implements a typical application composed by the accelerometer and the rail to rail precision buffer TS924. The supply voltage is generated through a LE00AB/C voltage regulator, it manages the correct power supply allowed by the LIS3L02AQ product. All parts on board of the EK3L02AQ evaluation kit are STMicroelectronics components.

497-3588-ND **$52.00**

EK3L02AS4 Evaluation Board

Helps you in evaluating the LIS3L02AS4 MEMS accelerometers in SO24 package with the analog output. It implements a typical application composed by the accelerometer and the rail to rail precision buffer TS924. The supply voltage is generated through a LE00AB/C voltage regulator, it manages the correct power supply allowed by the LIS3L02AS4 product. All parts on board of the EK3L02AS4 evaluation kit are STMicroelectronics components.

497-3589-ND **$52.00**

NEW! EK3L02DQ Evaluation Board

Helps you in evaluating the LIS3L02DQ MEMS accelerometers in QFN package with the digital output. It implements a typical application enabling user to acquire acceleration data sensed by the LIS3L02DQ product and they are output through the SPI interface embedded into the LIS3L02DQ product.

On the EK3L02DQ board there is also the ST72264 micro controller which acquires acceleration data at their maximum resolution at a sampling rate of 280Hz. The acceleration data will be then communicated to the external host through an RS232/UART standard interface connection and it is granted by the ST3232 controller integrated on the EK3L02DQ board.

497-4126-ND **$91.00**

NEW! Accelerometers for EK3L02DQ

497-4129-ND	Inertial Sensor: 3Axis - 2g Digital Output Linear Accelerometer	**$19.25**
497-4127-ND	Inertial Sensor: 3Axis - 2g/6g Linear Accelerometer	**$15.50**
497-4128-5-ND	Inertial Sensor: 2Axiz - 2g/6g Linear Accelerometer	**$19.90**

SofTec MICROSYSTEMS — ST5 and ST7 Development Kits

Development Tools for the Embedded World

The easy-to-use inDART series development kits are powerful entry-level tools for ST5 and ST7 based systems. These kits give you the ability to write, compile, download and in-circuit emulate and debug your code. Supports ISP (in-system programming) to program the flash on the target MCU.

Features: • Low cost and easy to use • ISP/ICP programming • USB Interface • In-circuit debug

Kit Includes: • inDART board, Demo board, Starter guide, CodeWarrior, STVD7 (ST Visual Debug) and DataBlaze software

Description	Digi-Key Part No.	Price Each	SofTec Part No.
ST52F Design Kit	520-1018-ND	299.00	INDART-STX/500
ST72F6 Design Kit	520-1019-ND	299.00	INDART-STX/264
ST72F321, F521 Design Kit	520-1020-ND	349.00	INDART-STX/521
ST7FLITE0 Design Kit	520-1021-ND	299.00	INDART-STX/LITE0
ST7FLITE1x, ST7FLITE2x Design Kit	520-1022-ND	299.00	INDART-STX/LITE2
ST72C1xx, 2xx Design Kit	520-1024-ND	249.00	INDART-ST72C254
ST72C3xx Design Kit	520-1025-ND	249.00	INDART-ST72C334

ST5 and ST7 Tools

INDART-STX/D:

• Powerful tool for in-circuit programming/debugging • Large device support • USB interface

Kit Includes: • Development board • CodeWarrior, STVD7 and DataBlaze software • Starter guide

IPL-ST7: • This Dynamic Link Library includes all low-level functions that allow users to set up and perform commands and functions from the DataBlaze user interface within their own windows application

INDART-ST72C/SK: • Low cost solution for writing, compiling, downloading and in-circuit debugging user code • Full speed program execution allows for software and hardware testing in real-time

Kit Includes: • Evaluation board • STVD7 (ST Visual Debug) and DataBlaze software • Starter guide

PK-ST7FLITE2: Entry level tool which allows you to get started with the ST7FLITE2 MCU. **Features:** • Real-time code execution • In-circuit debugging • In-system programming and debugging • Demo area • Prototyping area

Kit Includes: • Evaluation board • USB cable • STVD7, CodeWarrior, and Cosmic C Software • "Quickstart" poster • User's manual

AK-ST7FMC: Demonstrates how effectively the ST7FMC of microcontrollers can be used in real-world motor control applications.

Kit Includes: • Motor control board • BLDC Motor • In-Circuit debugger/programmer • Optoisolation board • Motor cable, power supply cable, USB cable, ISP Cables • "System Software" CD-ROM • "Quickstart" poster • User's manual

Description	Digi-Key Part No.	Price Each	SofTec Part No.
ST5/ST7 In-Circuit Debug Kit	520-1017-ND	249.00	INDART-STX/D
Programming Library for ST7	520-1026-ND	360.00	IPL-ST7
ST72C Starter Kit	520-1023-ND	149.00	INDART-ST72C/SK
ST7FLITE2 Starter Kit	520-1030-ND	49.00	PK-ST7FLITE2
ST7MC Application Kit	520-1031-ND	695.00	AK-ST7FMC

inDART Series and Starter Kits

inDART SERIES: They are a powerful entry-level tool for Freescale Semiconductor, Inc. (Formerly Motorola SPS) MCU-based systems. InDART takes advantage of Metroworks CodeWarrior Integrated Development environment and the ISP (In-System Programming) feature to program the flash memory of the Freescale family of MCU's. InDART provides you with everything you need to download (program), in-circuit emulate and debug end-user code. Full speed program execution allows you to perform hardware and software testing in real-time.

Features: • Low cost and easy to use kits • ISP/ICP programming • USB interface • In-circuit debugging **Kit Includes:** • inDART board and demo board with prototyping area • USB Cable • Software CodeWarrior CD and Softec System CD) • Getting started guide

STARTER KITS: These starter kits are entry-level tools which allow you to get familiar with the different Freescale Semiconductor, Inc. (formerly Motorola SPS) microcontrollers. These kits along with the included CodeWarrior software allow for easy write, compile, download, in-circuit emulation and debug of user code. Includes a prototyping area to develop your own small applications.

Features: • Low cost and easy to use kits • Full-speed program execution for hardware and software testing • In-circuit debug and emulation • Serial interface **Kit Includes:** • Evaluation board with prototyping area • Starter guide • Serial cable

APPLICATION KIT: Integrated system designed to provide the user with a complete, embedded Ethernet application.

Features: • MC9S12NE64 microcontroller • 10/100 BaseT • 8Mbit serial FLASH memory • 4Kbit serial EEPROM • BDM connector for in-circuit debugging • RS-232 connector with transceiver • 8 user LEDs • LAN status LEDs • Speaker • Temperature Sensor • 12V DC Motor with MC33887 H-bridge driver • Prototype area **Kit Includes:** • Evaluation Board • Ethernet core module • AC Adapter • Ethernet cross cable and a serial cable • "System Software" CD-ROM • CodeWarrior CD-ROM • User's Manual

Devices Supported	Digi-Key Part No.	Price Each	SofTec Part No.
HC08			
MC68HC908xx, MC68HLC908xx	520-1000-ND	249.00	INDART-HC08/D
MC68HC908GPxx, MC68HC908GTxx	520-1001-ND	299.00	INDART-HC08/GP
MC68HC908GRxx, MC68HC908GZxx	520-1002-ND	299.00	INDART-HC08/GZ
MC68HC908GZ32, 48, 60	520-1003-ND	299.00	INDART-HC08/GZ64
MC68HC908JKxx	520-1004-ND	299.00	INDART-HC08/JK
MC68HC908JLxx	520-1005-ND	299.00	INDART-HC08/JL
MC68HC908QBxx, MC68HLC908QYxx	520-1006-ND	299.00	INDART-HC08/QY
MC68HC908APxx	520-1007-ND	299.00	INDART-HC08/AP
HCS08			
MC9S08xx	520-1008-ND	249.00	INDART-HCS08/D
MC9S08GB60	520-1009-ND	299.00	INDART-HCS08/GB
MC9S08RG60	520-1029-ND	299.00	INDART-HCS08/RG60
HCS12			
MC9S12xx	520-1010-ND	449.00	INDART-HCS12/D
MC9S12C32	520-1011-ND	499.00	INDART-HCS12/C32
MC9S12DP256	520-1012-ND	499.00	INDART-HCS12/DP256
MC9S12E128	520-1013-ND	499.00	INDART-HCS12/E128
PK Series — Starter Kits			
MC68HC908QY4	520-1028-ND	99.00	PK-HC08QY4
MC9S08GB60	520-1014-ND	99.00	PK-HCS08GB60
MC9S12C32	520-1015-ND	99.00	PK-HCS12C32
MC9S12E128	520-1016-ND	99.00	PK-HCS12E128
NEW! Application Kit			
MC9S12NE64	520-1027-ND	449.00	AK-S12NE64-A

More Product Available Online: www.digikey.com
Toll-Free: 1-800-344-4539 • Phone: 218-681-6674 • Fax: 218-681-3380

Microcontrollers – 8 and 16 Bit

HC705 Family — 8-Bit

Features: • 68HC05 CPU with the addition of EPROM memory • Fully static design allowing operation down to DC • 8-bit accumulator • 8-bit index register • 16-bit stack pointer • On-chip oscillator • 16-bit timer with built in prescaler, or 15-bit MFT timer • COP watchdog protection • Low power STOP and WAIT modes • Available SPI, SCI or SIOP • Eight addressing modes

RAM (Bytes)	EEPROM (Bytes)	EPROM/ OTP (Bytes)	I/O	A/D	Timer	Serial	PWM	COP	Operating Voltage (V)	Max. Bus Freq. (MHz)	Temp. (°C)	Package	Digi-Key Part No.	Price Each 1	25	100	Freescale Part No.
64	—	1.2K	10	—	MFT, RTI	—	—	Y	3.3, 5.0	4.0	-40–85	16-SOIC	MC68HC705KJ1CDW-ND	2.67	1.63	1.41	MC68HC705KJ1CDW
64	—	1.2K	14	—	MFT, RTI	—	—	Y	3.3, 5.0	4.0	-40–85	20-Dip	MC68HC705J1ACP-ND	3.50	2.25	2.03	MC68HC705J1ACP
64	—	1.2K	14	—	MFT, RTI	—	—	Y	3.3, 5.0	4.0	-40–85	20-SOIC	MC68HC705J1ACDW-ND	3.50	2.25	2.03	MC68HC705J1ACDW
176	—	4.5K	21	4-Ch., 8-Bit	16-Bit, 1 IC, 1 OC	SIOP	—	Y	3.3, 5.0	2.1	-40–85	28-Dip	MC68HC705P6ACP-ND	5.20	3.16	3.02	MC68HC705P6ACP
176	—	4.5K	21	4-Ch., 8-Bit	16-Bit, 1 IC, 1 OC	SIOP	—	Y	3.3, 5.0	2.1	-40–85	28-SOIC	MC68HC705P6ACDW-ND	5.20	3.16	3.02	MC68HC705P6ACDW
192	—	3.75K	32	4-Ch., 8-Bit	8-Bit	—	—	—	3.3, 5.0	2.1	-40–85	40-Dip	MC68HC705SR3CP-ND	14.23	10.76	9.92	MC68HC705SR3CP
224	—	6.0K	14	4-Ch., 12-Bit	16-Bit	SIOP	—	Y	3.3, 5.0	2.1	-40–85	20-SOIC	MC68HC705JJ7CDW-ND	6.03	3.66	3.49	MC68HC705JJ7CDW
224	—	6.0K	22	4-Ch., 12-Bit	16-Bit	SIOP	—	Y	3.3, 5.0	2.1	-40–85	28-SOIC	MC68HC705JP7CDW-ND	5.35	3.83	3.48	MC68HC705JP7CDW
304	—	8.0K	31	—	16-Bit, 1 IC, 1 OC	SCI, SPI	—	Y	3.3, 5.0	4.0	-40–85	40-Dip	MC68HC705C8ACP-ND	9.24	6.30	6.00	MC68HC705C8ACP
304	—	8.0K	31	—	16-Bit, 1 IC, 1 OC	SCI, SPI	—	Y	3.3, 5.0	4.0	-40–85	44-PLCC	MC68HC705C8ACFN-ND	9.24	6.30	6.00	MC68HC705C8ACFN
304	—	8.0K	31	—	16-Bit, 1 IC, 1 OC	SCI, SPI	—	Y	3.3, 5.0	4.0	-40–85	44-QFP	MC68HC705C8ACFB-ND	9.24	6.30	6.00	MC68HC705C8ACFB
352	—	16K	31	—	16-Bit, 1 IC, 1 OC	SCI, SPI	—	Y	3.3, 5.0	2.1	-40–85	40-Dip	MC68HC705C9ACP-ND	10.44	7.90	7.28	MC68HC705C9ACP
352	—	16K	31	—	16-Bit, 1 IC, 1 OC	SCI, SPI	—	Y	3.3, 5.0	2.1	-40–85	44-PLCC	MC68HC705C9ACFN-ND	10.44	7.90	7.28	MC68HC705C9ACFN
352	—	16K	31	—	16-Bit, 1 IC, 1 OC	SCI, SPI	—	Y	3.3, 5.0	2.1	-40–85	44-QFP	MC68HC705C9ACFB-ND	9.49	7.08	6.62	MC68HC705C9ACFB
352	256	15K	32	8-Ch., 8-Bit	16-Bit, 2 IC, 2 OC	SCI	2-Ch., 8-Bit	Y	3.3, 5.0	2.1	-40–85	52-PLCC	MC68HC705B16NCFN-ND	13.60	10.29	9.48	MC68HC705B16NCFN
528	256	32K	32	8-Ch.	4-Ch.	SCI	2-Ch., 8-Bit	Y	3.3, 5.0	2.1	-40–85	56-Dip	XC68HC705B32CB-ND	21.17	16.61	15.65	XC68HC705B32CB
528	256	32K	32	8-Ch.	4-Ch.	SCI	2-Ch., 8-Bit	Y	3.3, 5.0	2.1	-40–85	52-PLCC	XC68HC705B32CFN-ND	21.17	16.61	15.65	XC68HC705B32CFN
304	—	8K + 8K	31	—	2-Ch.	SCI, SPI	—	Y	3.3, 5.0	2.1	-40–85	42-Dip	MC68HC705C8AB-ND	9.24	6.30	6.00	MC68HC705C8AB
176	—	4.6K	21	4-Ch., 8-Bit	2-Ch.	SIOP	—	Y	3.3, 5.0	2.1	-40–85	28-SOIC	MC68HC705P6AMDW-ND	5.70	3.46	3.31	MC68HC705P6AMDW
64	—	1.2K	10	—	2-Ch., 16-Bit	—	—	Y	3.3, 5.0	2.1	-40–85	16-Dip	MC68HRC705KJ1CP-ND	2.66	1.62	1.40	MC68HRC705KJ1CP

HC711 Family — 8-Bit

atures: • 68HC11 CPU with the addition of EPROM memory • Fully static design allowing operation down to DC • Two 8-bit accumulators • Two 16-bit index registers • 16-bit stack pointer • 16-bit timer with built in prescaler • COP watchdog rotection • Low power STOP and WAIT modes • SPI, SCI • Six addressing modes (immediate, direct, extended, indexed, inherent, and relative) • 16/16 integer and fractional divides • 8 x 8 multiply

RAM Bytes)	EEPROM (Bytes)	EPROM/OTP (Bytes)	Timer	I/O	A/D	Operating Volt. (V)	Max. Bus Freq. (MHz)	Temp. (°C)	Package	Digi-Key Part No.	Price Each 1	25	100	Freescale Part No.
192	—	4K	16-Bit, RTI	32	—	5.0	2.0	-40–85	44-PLCC	MC68HC711D3CFN2-ND	9.86	7.46	6.88	MC68HC711D3CFN2
786	512	20K	16-Bit, RTI	38	8-Ch., 8-Bit	5.0	3.0	-40–85	52-PLCC	MC68HC711E20CFN3-ND	23.00	18.04	17.00	MC68HC711E20CFN3
512	512	12K	8-Ch., 16 Bit	38	8-Ch., 8-Bit	5.0	2.0	-40–85	52-PLCC	MC68S711E9CFN2-ND	18.36	13.89	12.81	MC68S711E9CFN2
512	512	12K	16-Bit, RTI	38	8-Ch., 8-Bit	5.0	3.0	-40–85	52-PLCC	MC68HC711E9CFN3-ND	17.54	13.27	12.23	MC68HC711E9CFN3
768	512	20K	16-Bit, RTI	38	8-Ch., 8-Bit	5.0	2.0	-40–85	52-PLCC	MC68HC711E20CFN2-ND	21.91	17.19	16.19	MC68HC711E20CFN2
512	512	12K	16-Bit, RTI	38	8-Ch., 8-Bit	5.0	2.0	-40–85	52-PLCC	MC68HC711E9CFN2-ND	16.70	12.63	11.65	MC68HC711E9CFN2
768	640	24K	16-Bit, RTI	62	8-Ch., 8-Bit	5.0	4.0	-40–85	80-QFP	MC68HC711K4CFU4-ND	27.57	21.63	20.37	MC68HC711K4CFU4
768	512	20K	8-Ch., 16 Bit	38	8-Ch., 8-Bit	5.0	4.0	-40–85	52-PLCC	MC68HC711E20CFN4-ND	24.11	18.91	17.81	MC68HC711E20CFN4
512	512	12K	8-Ch., 16 Bit	38	8-Ch., 8-Bit	5.0	2.0	-40–85	64-QFP	MC68HC711E9CFU2-ND	16.70	12.63	11.65	MC68HC711E9CFU2
512	512	24K	8-Ch., 16 Bit	38	8-Ch., 8-Bit	5.0	2.0	-40–85	52-PLCC	MC68HC711E9VFN2-ND	17.54	13.27	12.23	MC68HC711E9VFN2
768	640	24K	8-Ch., 16 Bit	62	8-Ch., 8-Bit	5.0	4.0	-40–85	84-PLCC	MC68HC711K4CFN4-ND	27.57	21.63	20.37	MC68HC711K4CFN4
1K	640	32K	8-Ch., 16 Bit	62	8-Ch., 8-Bit	5.0	4.0	-40–85	84-PLCC	MC68HC711P2CFN4-ND	43.84	33.31	32.39	MC68HC711P2CFN4

HC11 Family — 8-Bit

atures: • Fully static design allowing operation down to DC • Two 8-bit accumulators • Two 16-bit index registers • 16-bit stack pointer • 16-bit timer with built in prescaler • COP watchdog protection • Low power STOP and WAIT modes • SPI, CI • Six addressing modes (immediate, direct, extended, indexed, inherent, and relative) • 16/16 integer and fractional divides • 8 x 8 multiply

RAM (Bytes)	EEPROM (Bytes)	PWM	Timer	I/O	A/D	Operating Volt. (V)	Max. Bus Freq. (MHz)	Temp. (°C)	Package	Digi-Key Part No.	Price Each 1	25	100	Freescale Part No.
512	512	—	16-Bit, RTI, PWM	38	8-Ch., 8-Bit	5.0	3.0	-40–85	52-PLCC	MC68HC11E1CFN3-ND	10.75	8.04	7.51	MC68HC11E1CFN3
	—	—	16-Bit, RTI, PWM	38	8-Ch., 8-Bit	5.0	2.0	-40–85	52-PLCC	MC68HC11E0CFN2-ND	9.96	7.53	6.95	MC68HC11E0CFN2
	512	—	16-Bit, RTI, PWM	38	8-Ch., 8-Bit	5.0	2.0	-40–85	52-PLCC	MC68HC11E1CFN2-ND	10.28	7.78	7.17	MC68HC11E1CFN2
	512	—	16-Bit, RTI, PWM	38	8-Ch., 8-Bit	5.0	2.0	-40–85	52-PLCC	MC68HC11E1CFN2TR-ND	3159.45/450			MC68HC11E1CFN2R2
768	640	4-Ch., 8-Bit or 2-Ch., 16-Bit	16-Bit, RTI, PWM	37	8-Ch., 8-Bit	5.0	4.0	-40–85	84-PLCC	MC68HC11K1CFN4-ND	18.38	13.91	12.82	MC68HC11K1CFN4
1K	512	—	8-Ch., 8-Bit	16-Bit, RTI, PWM	30	—	5.0	2.0	-40–85	68-PLCC	MC68HC11F1CFN2-ND	11.34	8.58	7.91	MC68HC11F1CFN2
	512	—	8-Ch., 8-Bit	16-Bit, RTI, PWM	30	—	5.0	3.0	-40–85	68-PLCC	MC68HC11F1CFN3-ND	11.87	8.98	8.28	MC68HC11F1CFN3
	512	—	8-Ch., 8-Bit	16-Bit, RTI, PWM	30	—	5.0	3.0	-40–85	68-PLCC	MC68HC11F1CFN3TR-ND	2109.25/250			MC68HC11F1CFN3R2
	512	—	8-Ch., 8-Bit	16-Bit, RTI, PWM	30	—	5.0	4.0	-40–85	68-PLCC	MC68HC11F1CFN4-ND	12.45	9.42	8.68	MC68HC11F1CFN4
	512	—	8-Ch., 8-Bit	16-Bit, RTI, PWM	30	—	5.0	4.0	-40–85	80-LQFP	MC68HC11F1CPU4-ND	12.45	9.42	8.68	MC68HC11F1CPU4
	512	—	8-Ch., 8-Bit	16-Bit, RTI, PWM	30	8-Ch., 8-Bit	5.0	4.0	-40–85	68-PLCC	MC68HC11F1CFN4RCT-ND	11.85	8.97	8.27	MC68HC11F1CFN4R2
	512	—	8-Ch., 8-Bit	16-Bit, RTI, PWM	30	8-Ch., 8-Bit	5.0	4.0	-40–85	68-PLCC	MC68HC11F1CFN4RTR-ND	2209.75/250			MC68HC11F1CFN4R2

M68HC908QT/QY — 8-Bit

he MC68HC08 Family is a low cost, high performance, Complex Instruction Set Computer (CISC) with a Von Neumann rchitecture. **Features:** • Enhanced HC05 Programming Model • Extensive loop control functions • 16 Addressing modes 16-bit Index Register and Stack Pointer • Memory to memory data transfers • Object-code compatible with Freescale's 3HC05 architecture for easy migration • Designed to allow efficient, compact modular coding in assembly or C with full 16- t Stack Pointer and stack relative addressing • Efficient instruction set with multiply and divide that is easy to learn and use **emory:** • In-application, In-circuit Re-Programmable Flash Memory (1.5K to 4K Bytes) • 128 Bytes of random access emory (RAM) **Peripherals:** • Two-Channel, 16-bit Timer with selectable input capture, output compare or pulse width odulation (PWM) • Internal Clock Oscillator reduces board space and system costs by eliminating external components • Flexible I/O allows direct drive of LED and other circuits to eliminate external drivers and help reduce system costs • System Protection features, including Watchdog Timer and On-chip Low Voltage Detect/Reset to help reduce cost and increase reliability **68HC908QT4 Demonstration Board (M68DEMO908QT4)**

This demo board enables you to use the included CodeWarrior Development Studio Special Edition to modify demo code or develop new code using ASM or C, then program the Flash, and debug in real time all with no additional hardware. **Features:** • Battery-Powered 8-pin QT4 Device • LEDs for user feedback • Potentiometer for A/D Input • Push Buttons for user Input • Access to all I/O for user-provided prototyping • Software demo with application code utilizing the A/D, timers, and I/O

RAM (Bytes)	Flash (Bytes)	Timer	I/O	A/D	Operating Voltage (V)	Maximum Bus Frequency @5.0V (MHz)	Temperature (°C)	Package*	Digi-Key Part No.	Price Each 1	25	100	Freescale Part No.
	1.5K	2-Ch., 16-Bit	5	—	3.0-5.0	8	-40–85	8-Dip	MC68HC908QT1CP-ND	2.02	1.23	1.07	MC68HC908QT1CP
	1.5K	2-Ch., 16-Bit	5	—	3.0-5.0	8	-40–85	8-SOIC	MC68HC908QT1CDW-ND	2.02	1.23	1.07	MC68HC908QT1CDW
	1.5K	2-Ch., 16-Bit	5	4-Ch., 8-Bit	3.0-5.0	8	-40–85	8-Dip	MC68HC908QT2CP-ND	2.43	1.48	1.28	MC68HC908QT2CP
	1.5K	2-Ch., 16-Bit	5	4-Ch., 8-Bit	3.0-5.0	8	-40–85	8-SOIC	MC68HC908QT2CDW-ND	2.43	1.48	1.28	MC68HC908QT2CDW
	4K	2-Ch., 16-Bit	5	4-Ch., 8-Bit	3.0-5.0	8	-40–85	8-Dip	MC68HC908QT4CP-ND	2.86	1.74	1.51	MC68HC908QT4CP
	4K	2-Ch., 16-Bit	5	4-Ch., 8-Bit	3.0-5.0	8	-40–85	8-SOIC	MC68HC908QT4CDW-ND	2.86	1.74	1.51	MC68HC908QT4CDW
	1.5K	2-Ch., 16-Bit	13	—	3.0-5.0	8	-40–85	16-Dip	MC68HC908QY1CP-ND	2.28	1.39	1.20	MC68HC908QY1CP
	1.5K	2-Ch., 16-Bit	13	—	3.0-5.0	8	-40–85	16-SOIC	MC68HC908QY1CDW-ND	2.28	1.39	1.20	MC68HC908QY1CDW
128K	1.5K	2-Ch., 16-Bit	13	—	3.0-5.0	8	-40–85	16-TSSOP	MC68HC908QY1CDT-ND	2.54	1.55	1.34	MC68HC908QY1CDT
	1.5K	2-Ch., 16-Bit	13	4-Ch., 8-Bit	3.0-5.0	8	-40–85	16-Dip	MC68HC908QY2CP-ND	2.69	1.64	1.41	MC68HC908QY2CP
	1.5K	2-Ch., 16-Bit	13	4-Ch., 8-Bit	3.0-5.0	8	-40–85	16-SOIC	MC68HC908QY2CDW-ND	2.69	1.64	1.41	MC68HC908QY2CDW
	1.5K	2-Ch., 16-Bit	13	4-Ch., 8-Bit	3.0-5.0	8	-40–85	16-TSSOP	MC68HC908QY2CDT-ND	2.86	1.74	1.51	MC68HC908QY2CDT
	4K	2-Ch., 16-Bit	13	4-Ch., 8-Bit	3.0-5.0	8	-40–85	16-Dip	MC68HC908QY4CP-ND	3.03	1.94	1.76	MC68HC908QY4CP
	4K	2-Ch., 16-Bit	13	4-Ch., 8-Bit	3.0-5.0	8	-40–85	16-SOIC	MC68HC908QY4CDW-ND	3.03	1.94	1.76	MC68HC908QY4CDW
	4K	2-Ch., 16-Bit	13	4-Ch., 8-Bit	3.0-5.0	8	-40–85	16-TSSOP	MC68HC908QY4CDT-ND	3.33	2.14	1.93	MC68HC908QY4CDT
	4K	2-Ch., 16-Bit	13	4-Ch., 8-Bit	2.2, 3.6	2.0	0–70	32-LQFP	MC908QF4FJ-ND **NEW!**	5.48	3.32	3.18	MC908QF4FJ
	4k	2-Ch., 16-Bit	13	4-Ch., 8-Bit	2.2, 3.6	2.0	-40–85	32-LQFP	MC908QF4CFJ-ND **NEW!**	5.48	3.32	3.18	MC908QF4CFJ
	4K	2-Ch., 16-Bit	13	6-Ch., 10-Bit	3.3-5.0	8	-40–125	16-SOIC	MC908QL4MDW-ND **NEW!**	5.48	3.32	3.18	MC908QL4MDW
	4K	2-Ch., 16-Bit	13	6-Ch., 10-Bit	3.3-5.0	8	-40–125	16-TSSOP	MC908QL4MDT-ND **NEW!**	5.75	3.49	3.34	MC908QL4MDT

8-Pin packages have 5 I/O and 16-Pin have 13 I/O

(Continued)

M68HC908QT/QY — 8-Bit (Cont.)

RAM (Bytes)	Flash (Bytes)	Timer	I/O	A/D	Operating Voltage (V)	Maximum Bus Frequency @5.0V (MHz)	Temperature (°C)	Package*	Digi-Key Part No.	Price Each 1	25	100	Freescale Part No.
128K	4K	2-Ch., 16-Bit	14	4-Ch., 8-Bit	3.0-5.0	8	-40~85	16-TSSOP	MC68HC908QY4MDT-ND	3.65	2.35	2.12	MC68HC908QY4MDT
	4K	2-Ch., 16-Bit	14	4-Ch., 8-Bit	3.0-5.0	8	-40~85	16-TSSOP	MC68HC908QY4VDT-ND	3.50	2.25	2.03	MC68HC908QY4VDT
Accessories													
Demo Board for 908Q MCU 68HC08 Series									M68DEM0908QT4-ND	28.26	26.57	25.50	M68DEM0908QT4
Evaluation Board for MC908QL4									M68EVB908QL4-ND **NEW!**	245.00	212.52	203.04	M68EVB908QL4
Evaluation Board for 908QF4									SCEB08QF4-ND **NEW!**	96.65	82.75	78.23	SCEB08QF4

* 8-Pin packages have 5 I/O and 16-Pin have 13 I/O

HC908 Family — 8-Bit

Features: • 68HC08 CPU with Flash memory • Fully upward code compatible with the 68HC05 family for easy migration • Fully static design allowing operation down to DC • 16-bit index register • 16-bit stack pointer • 4 or 6 channel 16-bit timers with built in prescalers • COP watchdog protection • Low-power STOP and WAIT modes • Available USB, SPI, SCI, and CAN2 • Available A/D converter • 16 addressing modes • LVI (Low Voltage Inhibit) supply voltage monitor • 16/8 divide • 8 x 8 multiply

68HC908AZ additional feature: MSCAN (Motorola Scalable Controller Area Network) interface conforms to CAN 2.0B

FLASH (Bytes)	RAM (Bytes)	EEPROM (Bytes)	I/O	A/D	Timer (s) 16-Bit	Serial	PWM	Operating Voltage (V)	Max. Bus Freq. (MHz)	Temp. (°C)	Package	Digi-Key Part No.	Price Each 1	25	100	Freescale Part No.
1.5K	128	—	15	10-Ch., 8-Bit	2-Ch.	—	See Timer	3.3, 5.0	8.0	-40~85	20-SOIC	MC68HC908JK1CDW-ND	2.99	1.97	1.79	MC68HC908JK1CDW
	128	—	15	10-Ch., 8-Bit	2-Ch.	—	See Timer	3.3, 5.0	8.0	-40~85	20-Dip	MC68HC908JK1CP-ND	2.99	1.97	1.79	MC68HC908JK1CP
	128	—	15	10-Ch., 8-Bit	2-Ch.	—	See Timer	3.0, 5.0	8.0	-40~85	20-SOIC	MC68HC908JK1ECDW-ND	3.13	2.01	1.81	MC68HC908JK1ECDW
	128	—	15	10-Ch., 8-Bit	2-Ch.	—	See Timer	3.0, 5.0	8.0	-40~85	20-SOIC	MC68HRC908JK1CDW-ND	3.13	2.01	1.81	MC68HRC908JK1CDW
	128	—	15	10-Ch., 8-Bit	2-Ch.	—	See Timer	3.0, 5.0	8.0	-40~85	20-Dip	MC68HRC908JK1CP-ND	3.13	2.01	1.81	MC68HRC908JK1CP
2K	128	—	12	—	2-Ch.	—	See Timer	2.0	4.0	-40~85	32-LQFP	MC68HC908RF2MFA-ND	6.88	4.92	4.47	MC68HC908RF2MFA
	192	—	13	4-Ch., 8-Bit	2-Ch.	SCI	See Timer	3.0, 5.0	8.0	-40~85	16-SOIC	MC68HC908KX2CDW-ND	4.88	3.13	2.83	MC68HC908KX2CDW
4K	128	—	15	10-Ch., 8-Bit	2-Ch.	—	See Timer	3.3, 5.0	8.0	-40~85	20-SOIC	MC68HC908JK3CDW-ND	3.76	2.54	2.33	MC68HC908JK3CDW
	128	—	15	10-Ch., 8-Bit	2-Ch.	—	See Timer	3.3, 5.0	8.0	-40~85	20-Dip	MC68HC908JK3CP-ND	3.76	2.54	2.33	MC68HC908JK3CP
	128	—	15	10-Ch., 8-Bit	2-Ch.	—	See Timer	3.0, 5.0	8.0	-40~85	20-SOIC	MC68HC908JK3ECDW-ND	4.13	2.65	2.39	MC68HC908JK3ECDW
	128	—	15	10-Ch., 8-Bit	2-Ch.	—	See Timer	5.0	8.0	-40~85	20-Dip	MC68HC908JK3ECP-ND	4.13	2.65	2.39	MC68HC908JK3ECP
	128	—	15	10-Ch., 8-Bit	2-Ch.	—	See Timer	3.0, 5.0	8.0	-40~85	20-SOIC	MC68HRC908JK3CDW-ND	3.76	2.54	2.33	MC68HRC908JK3CDW
	128	—	15	10-Ch., 8-Bit	2-Ch.	—	See Timer	3.0, 5.0	8.0	-40~85	28-Dip	MC68HRC908JK3CP-ND	4.13	2.65	2.39	MC68HRC908JK3CP
	384	—	21	6-Ch., 8-Bit	3-Ch.	SCI, SPI	See Timer	3.0, 5.0	8.2	-40~85	32-LQFP	MC68HC908GR4CFA-ND	5.63	3.42	3.26	MC68HC908GR4CFA
	128	—	23	12-Ch., 8-Bit	2-Ch.	—	See Timer	3.3, 5.0	8.0	-40~85	28-SOIC	MC68HC908JL3CDW-ND	4.59	3.18	2.92	MC68HC908JL3CDW
	128	—	23	12-Ch., 8-Bit	2-Ch.	—	See Timer	3.0	8.0	-40~85	28-Dip	MC68HC908JL3ECP-ND	5.25	3.37	3.05	MC68HC908JL3ECP
	128	—	23	12-Ch., 8-Bit	2-Ch.	—	See Timer	3.0, 5.0	8.0	-40~85	28-Dip	MC68HC908JL3CP-ND	4.59	3.18	2.92	MC68HC908JL3CP
	128	—	23	10-Ch., 8-Bit	2-Ch.	—	See Timer	3.0, 5.0	8.0	-40~85	28-SOIC	MC68HC908JL3ECDW-ND	5.25	3.19	3.05	MC68HC908JL3ECDW
	128	—	23	10-Ch., 8-Bit	2-Ch.	—	See Timer	3.0, 5.0	8.0	-40~85	48-LQFP	MC68HC908JL3ECFA-ND	5.63	3.42	3.26	MC68HC908JL3ECFA
8K	192	—	13	4-Ch., 8-Bit	2-Ch.	SCI	See Timer	3.0, 5.0	8.0	-40~85	16-SOIC	MC68HC908KX8CDW-ND	5.66	4.01	3.71	MC68HC908KX8CDW
	192	—	13	4-Ch., 8-Bit	2-Ch.	SCI	See Timer	3.0, 5.0	8.0	-40~85	16-Dip	MC68HC908KX8CP-ND	5.66	4.01	3.71	MC68HC908KX8CP
	256	—	21	—	2-Ch.	USB1.1	See Timer	5.0	3.0	-40~85	28-SOIC	MC68HC908JB8ADW-ND	5.48	3.88	3.58	MC68HC908JB8ADW
	256	—	37	—	2-Ch.	USB1.1	See Timer	5.0	3.0	-40~85	44-QFP	MC68HC908JB8FB-ND	5.52	3.95	3.59	MC68HC908JB8FB
	256	—	13	—	1-Ch.	USB1.1	See Timer	5.0	3.0	-40~85	20-SOIC	MC68HC908JB8JDW-ND	5.52	3.95	3.59	MC68HC908JB8JDW
	256	—	37	—	2-Ch.	USB1.1	See Timer	4.0-5.5	6.0	-40~85	20-Dip	MC68HC908JB8JP-ND	5.52	3.95	3.59	MC68HC908JB8JP
	256	—	15	10-Ch., 8-Bit	2-Ch.	SCI	See Timer	3.0, 5.0	8.0	-40~85	20-SOIC	MC68HC908JK8CDW-ND	5.84	4.17	3.79	MC68HC908JK8CDW
	256	—	23	10-Ch., 8-Bit	2-Ch.	—	See Timer	3.0, 5.0	8.0	-40~85	28-SOIC	MC68HC908JL8CDW-ND	6.26	4.48	4.07	MC68HC908JL8CDW
	256	—	23	10-Ch., 8-Bit	2-Ch.	—	See Timer	3.0, 5.0	8.0	-40~85	48-LQFP	MC68HC908JL8CFA-ND	6.86	4.90	4.46	MC68HC908JL8CFA
	256	—	12	7-Ch., 10-Bit	Dual 2-Ch.	SCI	6-Ch., 12-Bit	5.0	8.0	-40~85	28-SOIC	MC68HC908MR8CDW-ND	7.64	5.46	4.97	MC68HC908MR8CDW
	256	—	12	7-Ch., 10-Bit	Dual 2-Ch.	SCI	6-Ch., 12-Bit	5.0	8.0	-40~85	28-Dip	MC68HC908MR8CP-ND	7.64	5.46	4.97	MC68HC908MR8CP
	256	—	23	12-Ch., 8-Bit	2-Ch.	—	See Timer	3.0, 5.0	8.0	-40~85	28-Dip	MC68HC908JL8CP-ND	6.26	4.48	4.07	MC68HC908JL8CP
	256	—	23	12-Ch., 8-Bit	2-Ch.	—	See Timer	3.0, 5.0	8.0	-40~85	32-Dip	MC68HC908JL8CSP-ND	6.90	4.93	4.48	MC68HC908JL8CSP
	384	—	21	8-Ch., 8-Bit	2-Ch. + 1-Ch.	SCI, SPI	See Timer	3.0, 5.0	8.0	-40~85	28-SOIC	MC68HC908GR8CDW-ND	7.01	5.01	4.55	MC68HC908GR8CDW
	512	—	36	8-Ch., 8-Bit	Dual 2-Ch.	SCI, SPI	See Timer	3.0, 5.0	8.0	-40~85	44-QFP	MC68HC908GT8CFB-ND	7.43	5.31	4.83	MC68HC908GT8CFB
	512	—	34	8-Ch., 8-Bit	2-Ch.	ESCI, SPI	See Timer	5.0	8.0	-40~85	42-Dip	MC68HC908GT8CB-ND	7.43	5.31	4.83	MC68HC908GT8CB
	1K	—	37	8-Ch., 10-Bit	Dual 2-Ch.	SCI, SPI, CAN2	See Timer	5.0	8.0	-40~85	48-LQFP	MC68HC908GZ8CFA-ND	7.64	5.46	4.97	MC68HC908GZ8CFA
12K	512	—	30	11-Ch., 10-Bit	4-Ch.	IIC, SPI	See Timer	3.0, 5.0	8.0	-40~85	42-Dip	MC68HC908SR12CB-ND	8.49	5.80	5.52	MC68HC908SR12CB
	512	—	20	4-Ch., 10-Bit	2-Ch.	SCI	See Timer	3.0, 5.0	4.0	-40~85	52-QFP	MC68HC908LJ12CFB-ND	8.85	6.04	5.75	MC68HC908JL12CFB
	512	—	32	6-Ch., 10-Bit	4-Ch.	SCI, SPI	See Timer	3.0, 5.0	8.0	-40~85	64-QFP	MC68HC908LJ12CFU-ND	8.85	6.04	5.75	MC68HC908LJ12CFU
15K	512	—	24	8-Ch., 10-Bit	2-Ch.	ESCI, SCI, SPI	See Timer	5.0	8.0	-40~85	32-LQFP	MC68HC908EY16VFA-ND	8.81	6.01	5.72	MC68HC908EY16VFA
16K	768	—	44	10-Ch., 10-Bit	4-Ch. + 2-Ch.	SCI, SPI	See Timer +6-Ch., 12-Bit	5.0	8.0	-40~85	64-QFP	MC68HC908MR16CFU-ND	8.74	6.48	6.04	MC68HC908MR16CFU
	768	—	37	9-Ch., 10-Bit	2-Ch.	SCI, SPI	See Timer	5.0	8.2	-40~85	56-Dip	MC68HC908MR16CB-ND	9.55	6.52	6.21	MC68HC908MR16CB
	1K	—	21	8-Ch., 10-Bit	Dual 2-Ch.	SCI, SPI, CAN2	See Timer	3.3, 5.0	8.0	-40~85	32-LQFP	MC68HC908GZ16CFJ-ND	8.92	6.09	5.79	MC68HC908GZ16CFJ
	1K	—	37	8-Ch., 10-Bit	Dual 2-Ch.	SCI, SPI, CAN2	See Timer	3.3, 5.0	8.0	-40~85	48-LQFP	MC68HC908GZ16CFA-ND	8.92	6.09	5.79	MC68HC908GZ16CFA
	1K	—	21	8-Ch., 10-Bit	Dual 2-Ch.	SCI, SPI	See Timer	3.3, 5.0	8.0	-40~85	32-LQFP	MC68HC908GR16CFJ-ND	8.49	5.80	5.52	MC68HC908GR16CFJ
	1K	—	37	8-Ch., 10-Bit	Dual 2-Ch.	SCI, SPI	See Timer	3.3, 5.0	8.0	-40~85	48-LQFP	MC68HC908GR16CFA-ND	8.49	5.80	5.52	MC68HC908GR16CFA
	512	—	33	8-Ch., 8-Bit	Dual 2-Ch.	SCI, SPI	See Timer	3.0, 5.0	8.0	-40~85	44-QFP	MC68HC908GP32CFB-ND	10.40	7.82	7.32	MC68HC908GP32CFB
	512	—	33	8-Ch., 8-Bit	Dual 2-Ch.	SCI, SPI	See Timer	3.0, 5.0	8.0	-40~85	40-Dip	MC68HC908GP32CP-ND	10.40	7.82	7.32	MC68HC908GP32CP
	512	—	33	8-Ch., 8-Bit	4-Ch.	SCI, SPI	See Timer	3.0, 5.0	8.2	-40~85	44-QFP	MC908GP32CFBR2CT-ND	10.76	8.14	7.51	MC908GP32CFBR2
	512	—	33	8-Ch., 8-Bit	4-Ch.	SCI, SPI	See Timer	3.0, 5.0	8.2	-40~85	44-QFP	MC908GP32CFBR2TR-ND		5294.25/750		MC908GP32CFBR2
	512	—	31	8-Ch., 8-Bit	4-Ch.	SCI, SPI	See Timer	3.0, 5.0	8.0	-40~85	42-Dip	MC68HC908GP32CB-ND	10.53	7.97	7.35	MC68HC908GP32CB
32K	768	—	44	10-Ch., 10-Bit	4-Ch. + 2-Ch.	SCI, SPI	See Timer +6-Ch., 12-Bit	5.0	8.0	-40~85	64-QFP	MC68HC908MR32CFU-ND	11.30	8.56	8.02	MC68HC908MR32CFU
	768	—	36	9-Ch., 10-Bit	2-Ch.	SCI, SPI	See Timer	5.0	8.2	-40~85	56-Dip	MC68HC908MR32CB-ND	11.59	8.77	8.08	MC68HC908MR32CB
	1K	512	51	8-Ch., 8-Bit	8-Ch.	SCI, SPI	See Timer	5.0	8.0	-40~85	64-QFP	MC68HC908AB32CFU-ND	11.13	8.43	7.89	MC68HC908AB32CFU
	1K	512	51	8-Ch., 8-Bit	8-Ch.	SCI, SPI	See Timer	5.0	8.0	-40~85	64-QFP	MCHC908AB32CFURCT-ND	11.68	8.84	8.15	MCHC908AB32CFUR2
	1K	512	51	8-Ch., 8-Bit	8-Ch.	SCI, SPI	See Timer	5.0	8.0	-40~85	64-QFP	MCHC908AB32CFURTR-ND		5746.50/750		MCHC908AB32CFUR2
	1K	512	50	15-Ch., 8-Bit	6-Ch.	SCI, SPI	See Timer	5.0	8.4	-40~85	64-QFP	MC908AZ32ACFU-ND	11.39	8.62	7.95	MC908AZ32ACFU
	2K	1K	42	15-Ch., 8-Bit	6-Ch.	SCI, SPI	See Timer	5.0	8.4	-40~85	52-PLCC	MC908AS60ACFN-ND	16.76	12.67	11.69	MC908AS60ACFN
	2K	1K	50	15-Ch., 8-Bit	6-Ch. + 2-Ch.	SCI, SPI	See Timer	5.0	8.4	-40~85	64-QFP	MC908AZ60ACFU-ND	16.76	12.67	11.69	MC908AZ60ACFU
60K	2K	1K	50	15-Ch., 8-Bit	6-Ch. + 2-Ch.	SCI, SPI	See Timer	5.0	8.4	-40~125	64-QFP	MC908AZ60AMFU-ND	18.42	13.93	12.85	MC908AZ60AMFU
61K	2K	1K	52	15-Ch., 8-Bit	8-Ch.	MSCAN12, SCI, SPI	See Timer	5.0	8.4	-40~85	64-QFP	MC908AZ60AVFUR2CT-ND	17.89	13.53	12.47	MC908AZ60AVFUR2
	2K	1K	52	15-Ch., 8-Bit	8-Ch.	MSCAN12, SCI, SPI	See Timer	5.0	8.4	-40~85	64-QFP	MC908AZ60AVFUR2TR-ND		8595.00/750		MC908AZ60AVFUR2
	2K	1K	52	15-Ch., 8-Bit	8-Ch.	MSCAN12, SCI, SPI	See Timer	5.0	8.4	-40~85	64-QFP	MC908AZ60AVFU-ND	17.58	13.30	12.26	MC908AZ60AVFU
7680	384	—	21	8-Ch., 8-Bit	2-Ch. + 1-Ch.	SCI, SPI	See Timer	3.0, 5.0	8.0	-40~85	32-QFP	MC68HC908GR8CFA-ND	7.01	5.01	4.55	MC68HC908GR8CFA
	384	—	21	8-Ch., 8-Bit	2-Ch. + 1-Ch.	SCI, SPI	See Timer	3.0, 5.0	8.0	-40~85	28-Dip	MC68HC908GR8CP-ND	7.01	5.01	4.55	MC68HC908GR8CP
HC9S08																
4K	128	—	15	10-Ch., 8-Bit	2-Ch.	—	See Timer	5.0	8.0	-40~85	20-SOIC	MC68HRC98JK3ECDW-ND	4.13	2.65	2.39	MC68HRC98JK3ECDW
	128	—	23	12-Ch., 8-Bit	2-Ch.	—	See Timer	3.0	8.0	-40~85	28-SOIC	MC68HRC98JL3ECDW-ND	5.25	3.19	3.05	MC68HRC98JL3ECDW
32K	2K	—	36	8-Ch., 10-Bit	Dual 2-Ch.	SCI, SPI	See Timer	3.6	8.0	-40~85	44-QFP	MC9S08GT32CFB-ND	8.17	5.84	5.31	MC9S08GT32CFB
	2K	—	56	8-Ch., 10-Bit	3-Ch. + 5-Ch.	SCI, SPI	See Timer	3.6	20	-40~85	64-LQFP	MC9S08GB32CFU-ND	8.81	6.01	5.72	MC9S08GB32CFU
60K	4K	—	36	8-Ch., 10-Bit	Dual 2-Ch.	SCI, SPI	See Timer	3.6	8.0	-40~85	44-QFP	MC9S08GT60CFB-ND	10.51	7.17	6.83	MC9S08GT60CFB
	4K	—	56	8-Ch., 10-Bit	3-Ch. + 5-Ch.	SCI, SPI	See Timer	3.6	8.0	-40~85	64-LQFP	MC9S08GB60CFU-ND	10.05	7.61	7.01	MC9S08GB60CFU
Demo Boards																
Evaluation Board for MC9S08GB60												M68EVB908GB60-ND		$265.90 /1		M68EVB908GB60
Demo Board for MC9S08GB60												M68DEM0908GB60-ND		$55.39 /1		M68DEM0908GB60

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HC912 Family — 16-Bit

The 68HC12 CPU is upwardly compatible with the 68HC11 core and supports all registers, instructions, addressing modes and operating modes of the 68HC11.

Features:

Fully static design allowing operation down to DC • 16-bit Accumulator • 20-bit ALU • 16-bit Timer with built-in prescaler • BDM (Background Debug Module) for faster debugging and non-intrusive, real time read/write capability to the memory and registers • SAE J1850 BDLC-D (Byte Data Link Control Module) for single wire communication with other BDLC MCUs • COP Watchdog Timer • Low power STOP and WAIT modes • SPI, SCI • High-level language optimization • 32/16 Divide • 16 x 16 Multiply

Flash (Bytes)	RAM (Bytes)	EEPROM (Bytes)	Timer	PWM	I/O	A/D	Features	Operating Voltage (V)	Max. Bus Freq. (MHz)	Temp. (°C)	Package	Digi-Key Part No.	Price Each 1	25	100	Freescale Part No.
32K	1K	768	8-Ch., 16-Bit	4-Ch., 8-Bit or 2-Ch., 16-Bit	63	8-Ch.,10-Bit	—	5.0	8.0	-40~85	80-QFP	MC68HC912B32CFU8-ND	19.26	15.21	14.34	MC68HC912B32CFU8
60K	2K	1K	8-Ch., 16 Bit	4-Ch., 8-Bit	48	8-Ch.,10-Bit	CAN2.0	5.0	8.0	-40~85	80-QFP	MC912D60ACFU8-ND	17.71	13.40	12.35	MC912D60ACFU8
							HC9S12									
6K	2K	1K	8-Ch., 16-Bit	4-Ch., 16-Bit	16	8-Ch, 10-Bit	CAN 2.0	5.0	8.0	-40~85	112-LQFP	MC912D60ACPV8-ND	17.71	13.40	12.35	MC912D60ACPV8
32K	2K	—	8-Ch., 16-Bit	See Timer	60	8-Ch., 10-Bit	CAN 2.0	3.15-5.55	25.0	-40~125	80-QFP	MC9S12C32MFU25-ND	11.28	8.53	7.87	MC9S12C32MFU25
		—	8-Ch., 16-Bit	See Timer	60	8-Ch., 10-Bit	CAN 2.0	3.15-5.55	25.0	-40~125	52-LQFP	MC9S12C32MPB25-ND	10.65	8.06	7.43	MC9S12C32MPB25
		1K	8-Ch., 16-Bit	4-Ch., 16-Bit	59	8-Ch., 10-Bit	CAN 2.0	5.0	25.0	-40~85	80-QFP	MC9S12D64CFU-ND	15.03	11.37	10.48	MC9S12D64CFU
		1K	8-Ch., 16-Bit	4-Ch., 16-Bit	59	8-Ch., 10-Bit	CAN 2.0	5.0	25.0	-40~125	80-QFP	MC9S12D64MFU-ND	16.55	12.52	11.54	MC9S12D64MFU
	4K	1K	8-Ch., 16-Bit	4-Ch., 16-Bit	59	8-Ch., 10-Bit	CAN 2.0	5.0	25.0	-40~125	112-LQFP	MC9S12D64MPV-ND	17.06	12.91	11.90	MC9S12D64MPV
64K		1K	8-Ch., 16-Bit	4-Ch., 16-Bit	59	8-Ch., 10Bit	CAN 2.0	5.0	25.0	-40~105	80-QFP	MC9S12D64VFU-ND	15.78	11.94	11.01	MC9S12D64VFU
		—	(3) 4-Ch., 16-Bit	See Timer	90	16-Ch., 10-Bit	—	3.3-5.0	25.0	-40~85	80-QFP	MC9S12E64CFU-ND	12.26	9.27	8.55	MC9S12E64CFU
	8K	—	4-Ch., 16-Bit	See Timer	36	8-Ch., 10-Bit	Ethernet	3.3-5.0	25.0	-40~105	80-TQFP	MC9S12NE64VTU-ND	17.24	13.04	12.02	MC9S12NE64VTU
	8K	—	4-Ch., 16-Bit	See Timer	70	8-Ch., 10-Bit	Ethernet	3.3-5.0	25.0	-40~85	112-LQFP	MC9S12NE64CPV-ND	17.81	13.47	12.42	MC9S12NE64CPV
	12K	—	(3) 4-Ch., 16-Bit	See Timer	90	16-Ch., 10-Bit	—	3.3-5.0	25.0	-40~125	80-QFP	MC9S12E64MFU-ND	13.48	10.20	9.40	MC9S12E64MFU
			8-Ch., 16 Bit	8-Ch., 8-Bit	59	2, 8-Ch.,10-Bit	—	3.0	25.0	-40~85	80-QFP	MC9S12A128BCFU-ND	17.62	13.33	12.29	MC9S12A128BCFU
			8-Ch., 16 Bit	8-Ch., 8-Bit	91	2, 8-Ch.,10-Bit	—	3.0	25.0	-40~85	112-LQFP	MC9S12A128BCPV-ND	18.19	13.76	12.69	MC9S12A128BCPV
	8K	2K	8-Ch., 16-Bit	8-Ch., 8-Bit	91	2, 8-Ch.,10-Bit	2-CAN2.0	5.0	25.0	-40~85	112-LQFP	MC9S12DB128BCPV-ND	18.45	14.47	13.63	MC9S12DB128BCPV
			8-Ch., 16-Bit	8-Ch., 8-Bit	59	2, 8-Ch.,10-Bit	2-CAN2.0	5.0	25.0	-40~85	80-QFP	MC9S12DG128BCFU-ND	18.38	13.91	12.82	MC9S12DG128BCFU
			8-Ch., 16-Bit	8-Ch., 8-Bit	91	2, 8-Ch.,10-Bit	2-CAN2.0	5.0	25.0	-40~85	112-LQFP	MC9S12DG128BCPV-ND	18.96	14.34	13.22	MC9S12DG128BCPV
			8-Ch., 16-Bit	8-Ch., 8-Bit	59	2, 8-Ch.,10-Bit	2-CAN2.0	5.0	25.0	-40~85	80-QFP	MC9S12DJ128BCFU-ND	18.86	14.27	13.15	MC9S12DJ128BCFU
			8-Ch., 16-Bit	8-Ch., 8-Bit	91	2, 8-Ch.,10-Bit	2-CAN2.0	5.0	25.0	-40~85	112-LQFP	MC9S12DJ128BCPV-ND	17.83	13.99	13.18	MC9S12DJ128BCPV
	8K	2K	8-Ch., 16-Bit	8-Ch., 8-Bit	91	2, 8-Ch.,10-Bit	3-CAN2.0	5.0	25.0	-40~85	112-LQFP	MC9S12DT128BCPV-ND	17.92	14.06	13.24	MC9S12DT128BCPV
			8-Ch., 16-Bit	4-Ch., 16-Bit	91	(2) 8-Ch., 10-Bit	CAN 2.0	5.0	25.0	-40~85	112-LQFP	MC9S12DB128CPV-ND	18.45	14.47	13.63	MC9S12DB128CPV
28K			8-Ch., 16-Bit	4-Ch., 16-Bit	91	(2) 8-Ch., 10-Bit	(2) CAN 2.0	5.0	25.0	-40~85	112-LQFP	MC9S12DG128CPV-ND	18.96	14.34	13.22	MC9S12DG128CPV
			8-Ch., 16-Bit	4-Ch., 16-Bit	91	(2) 8-Ch., 10-Bit	(2) CAN 2.0	5.0	25.0	-40~125	112-LQFP	MC9S12DG128MPV-ND	19.13	15.01	14.14	MC9S12DG128MPV
			8-Ch., 16-Bit	4-Ch., 16-Bit	91	(2) 8-Ch.,10-Bit	(2) CAN 2.0	5.0	25.0	-40~125	112-LQFP	MC9S12DG128MPVRCT-ND	19.13	15.01	14.14	MC9S12DG128MPVR2
	8K	2K	8-Ch., 16-Bit	4-Ch., 16-Bit	91	(2) 8-Ch.,10-Bit	(2) CAN 2.0	5.0	25.0	-40~125	112-LQFP	MC9S12DG128MPVRTR-ND		6681.00/500		MC9S12DG128MPVR2
			8-Ch., 16-Bit	4-Ch., 16-Bit	91	(2) 8-Ch., 10-Bit	(2) CAN 2.0	5.0	25.0	-40~105	112-LQFP	MC9S12DG128VPV-ND	18.27	14.34	13.50	MC9S12DG128VPV
			8-Ch., 16-Bit	4-Ch, 16-Bit	91	(2) 8-Ch., 10-Bit	(3) CAN 2.0	5.0	25.0	-40~85	112-LQFP	MC9S12DT128CPV-ND	25.50	14.06	13.24	MC9S12DT128CPV
		—	(3) 4-Ch., 16-Bit	See Timer	59	16-Ch., 10-Bit	—	3.3-5.0	25.0	-40~85	80-QFP	MC9S12E128CFU-ND	15.32	11.59	10.68	MC9S12E128CFU
	8K	—	(3) 4-Ch., 16-Bit	See Timer	59	16-Ch., 10-Bit	—	3.3-5.0	25.0	-40~125	80-QFP	MC9S12E128MFU-ND	16.85	12.75	11.75	MC9S12E128MFU
		2K	8-Ch., 16-Bit	4-Ch., 16-Bit	69	8-Ch., 10-Bit	CAN 2.0	5.0	8.0	-40~85	12-LQFP	MC912DG128ACPV-ND	28.20	22.12	20.84	MC912DG128ACPV
			8-Ch., 16 Bit	8-Ch., 8-Bit	59	2, 8-Ch.,10-Bit	—	5.0	25.0	-40~85	80-QFP	MC9S12A256BCFU-ND	20.21	15.85	14.93	MC9S12A256BCFU
			8-Ch., 16 Bit	8-Ch., 8-Bit	91	2, 8-Ch.,10-Bit	—	5.0	25.0	-40~85	112-LQFP	MC9S12A256BCPV-ND	20.73	16.27	15.32	MC9S12A256BCPV
	12K	4K	8-Ch., 16 Bit	8-Ch., 8-Bit	59	2, 16-Ch.,10-Bit	2-CAN2.0	5.0	25.0	-40~85	80-QFP	MC9S12DG256CCFU-ND	21.31	16.72	15.75	MC9S12DG256CCFU
			8-Ch., 16 Bit	8-Ch., 8-Bit	91	2, 16-Ch.,10-Bit	2-CAN2.0	5.0	25.0	-40~85	112-LQFP	MC9S12DG256CCPV-ND	21.84	17.13	16.14	MC9S12DG256CCPV
			8-Ch., 16 Bit	8-Ch., 8-Bit	59	2, 8-Ch.,10-Bit	2-CAN2.0	5.0	25.0	-40~85	80-QFP	MC9S12DJ256CCFU-ND	23.00	18.04	17.00	MC9S12DJ256CCFU
			8-Ch., 16 Bit	8-Ch., 8-Bit	91	2, 8-Ch.,10-Bit	2-CAN2.0	5.0	25.0	-40~85	112-LQFP	MC9S12DJ256CCPV-ND	23.58	18.50	17.42	MC9S12DJ256CCPV
			8-Ch., 16 Bit	8-Ch., 8-Bit	91	2, 8-Ch.,10-Bit	2-CAN2.0	5.0	25.0	-40~85	112-LQFP	MC9S12DP256CCPV-ND	24.74	19.41	18.28	MC9S12DP256CCPV
256K	12K	4K	8-Ch., 16 Bit	8-Ch., 8-Bit	91	2, 8-Ch.,10-Bit	3-CAN2.0	5.0	25.0	-40~85	112-LQFP	MC9S12DT256CCPV-ND	23.30	18.28	17.22	MC9S12DT256CCPV
			8-Ch., 16-Bit	4-Ch., 16-Bit	59	8-Ch., 10-Bit	(2) CAN 2.0	5.0	25.0	-40~85	80-QFP	MC9S12DG256BCFU-ND	21.31	16.72	15.75	MC9S12DG256BCFU
			8-Ch., 16-Bit	4-Ch., 16-Bit	91	(2) 8-Ch., 10-Bit	(2) CAN 2.0	5.0	25.0	-40~85	112-LQFP	MC9S12DG256BCPV-ND	21.84	17.13	16.14	MC9S12DG256BCPV
			8-Ch., 16-Bit	4-Ch., 16-Bit	91	(2) 8-Ch., 10-Bit	(2) CAN 2.0	5.0	25.0	-40~125	112-LQFP	MC9S12DG256BMPV-ND	25.11	19.70	18.55	MC9S12DG256BMPV
	12K	4K	8-Ch., 16-Bit	4-Ch., 16-Bit	91	(2) 8-Ch., 10-Bit	(2) CAN 2.0	5.0	25.0	-40~105	112-LQFP	MC9S12DG256BVPV-ND	24.02	18.84	17.75	MC9S12DG256BVPV
			8-Ch., 16-Bit	4-Ch., 16-Bit	91	(2) 8-Ch., 10-Bit	(5) CAN 2.0	5.0	25.0	-40~125	112-LQFP	MC9S12DP256BMPV-ND	27.22	21.35	20.11	MC9S12DP256BMPV
			8-Ch., 16-Bit	4-Ch., 16-Bit	91	(2) 8-Ch., 10-Bit	(3) CAN 2.0	5.0	25.0	-40~125	112-LQFP	MC9S12DT256BMPV-ND	26.27	20.61	19.41	MC9S12DT256BMPV
512K	14K	4K	8-Ch., 16-Bit	8-Ch., 8-Bit	89	2, 8-Ch.,10-Bit	5-CAN2.0	5.0	25.0	-40~85	112-LQFP	MC9S12DP512CPV-ND	25.48	19.99	18.83	MC9S12DP512CPV

Demo Boards

Evaluation Board for MCS12	M68DKIT912C32-ND	$68.06 /1	M68DKIT912C32
Evaluation Board for MC9S12C32	M68EVB912C32-ND	$184.62 /1	M68EVB912C32
Evaluation Board for MC9S12E128/64	M68EVB912E128-ND	$183.46 /1	M68EVB912E128
Evaluation Board for NE64	EVB9S12NE64-ND	$281.56 /1	EVB9S12NE64
Demo Kit for NE64	DEMO9S12NE64-ND	$84.79 /1	DEMO9S12NE64

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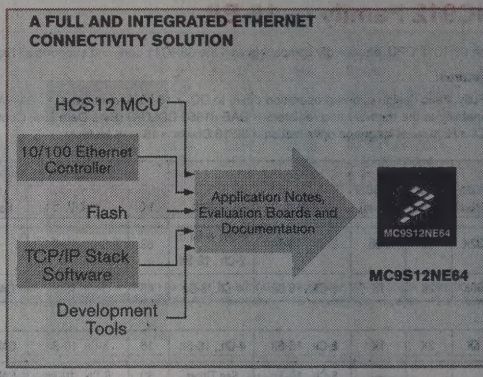
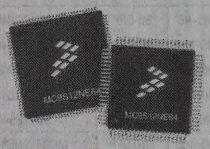
- Vending machines
- Home/office automation



MC9S12NE64 — One Chip Does it All



The MC9S12NE64 is based on the powerful HCS12 core, which integrates third generation Flash technology. Its rich offering of Ethernet connectivity features makes the MC9S12NE64 the odds-on favorite to replace noisy, multichip solutions with full-featured Ethernet connectivity.

- Object code compatible with the 8-bit 68HC11 and 68HC12 families
- Compact code optimized for C
- Up to 25 MHz bus rate (40 ns minimum instruction cycle)
- Flexible addressing modes for efficient pointer manipulation and looping control

Serial, real-time emulation is now standard operating procedure over a single debug pin. The on-chip module has a trace and trigger capability that was once the province of expensive emulators. But the advantages of on-chip debug doesn't stop there.

- Virtually no limitations on frequency or voltage like traditional emulators; real-time emulation of all MCU functions is possible at full operating voltage and frequency range.
- Four bus capture modes provide flexible data acquisition.
- Instead of cumbersome emulator cables, a single, dedicated pin provides non-intrusive debugging.
- The emulator's expensive bus analyzer is replaced by nine flexible triggers and buffer hardware.
- Internal registers and memory can be viewed and changed while running application code.
- Single-step, run or trace application code on the target processor.

Development Tools

DEMO9S12NE64-ND

MC9S12NE64 demonstration board in an enclosed plastic case with 10/100 base-T Ethernet port, serial port, switches, LEDs, potentiometer and demo software including application code.

EVB9S12NE64-ND

MC9S12NE64 evaluation board with 10/100 base-T Ethernet port, dual serial ports, switches, LEDs, potentiometer, LCD port, keyboard port, and demo software including application code.

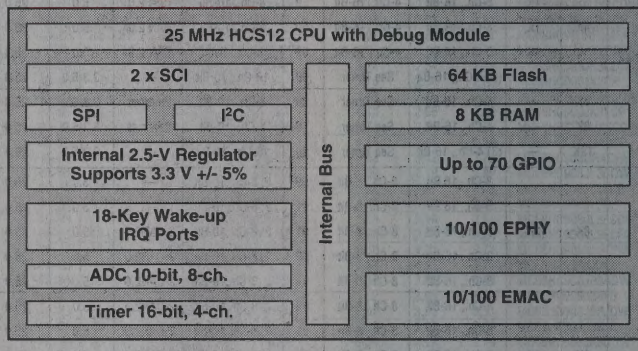
USBMULTILINKBDM-ND

Universal HC12/HCS12 in-circuit emulator, debugger and Flash programmer through BDM interface.

CodeWarrior™ Development Studio

For HCS12 with Processor Expert™ autocode generator, full-chip simulation, assembler, linker and C Compiler. 16KB code limited version free of charge.

Block Diagram



Part No.: MC9S12NE64VTU-ND
Package: 80 TQFP-EP
Temp: -40°C to 105°C

Part No.: MC9S12NE64CPV-ND
Package: 112 LQFP
Temp: -40°C to 85°C

TCP/IP Third Party Stack Vendors:

Open TCP: Viola Systems, Inc.

- Open source
- Active SourceForge Community
- Free, simple license terms, no royalties

Mid Range: CMX Systems, Inc.

- Evaluation version available
- Available with CM-RTX (RTOS)
- Optimized for resource-constrained embedded systems
- Per project license fee with no royalties

High-end: Treck, Inc.

- Evaluation version available
- Standard BSD socket programming
- Scalable, user selectable options, IPv6 available
- Flexible licensing

All TCP/IP Stacks available via the MC9S12NE64 Virtual Lab environment.

MC9S12NE64 Virtual Lab

Avoid the hassles of shipping, installation and configuration until you hav evaluated the solution you really need. Run the available demos, go throug tutorials, and try out your own code.

Virtual Labs can be used on demand when available or reserved for use at specific time.

Find quick start guides, development board information, manuals, produc information, product summary, schematics tools, demos, tools and software.

4 Clicks Gets You There

Login at: **www.embeddedlearning.com**
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Click: 16-bit
Click: NE64

More Product Available Online: www.digikey.com
Toll-Free: 1-800-344-4539 • Phone: 218-681-6674 • Fax: 218-681-3380

8-16 Bit Development Tools

In-Circuit Simulator (ICS)

Economical, Integrated Developing and Debugging Freescale's In-Circuit Simulator Kits are low cost tools for developing and debugging target systems incorporating Freescale's most popular 68HC05s and 68HC08s. They provide an innovative interface to a user's target system for Windows based editing, assembly, software simulation, programming, and In-Circuit Simulation. In-Circuit Simulation allows you to use the actual inputs and outputs of your target during simulation of your code.

Features: • Windows Based Integrated Development Environment (IDE) with editor, assembler, debugger, and simulator: Run under Windows®3.x and Windows® 98. Examine and modify memory, registers, and I/O. Up to 64 instruction and register (accumulator, stack, index) break points. Several single stepping and run modes of execution. Trace buffer holds previously executed instructions and variables. Data variable display window. Simulates all I/O, interrupts, timers, and other on-chip hardware. Detects attempted use of uninitialized or unimplemented locations. Data logging and script commands for recording and automatic execution of a sequence of commands. On screen context-sensitive windows help. • In-Circuit Simulation: Emulation cable for connection to target system. Non-Realtime In-Circuit Emulation. • Program EPROM, OTP, EEPROM, and FLASH microcontrollers

Contents: • Windowed EPROM or FLASH MCU sample • Comprehensive Documentation: MCU Technical Data Books, Software and Hardware User's Manual, Application Guide/Text Book. MCU Technical Documentation CD-ROM • Serial Cable for PC to ICS connection • Wall Mount Power Supply • The 68HC08 In-Circuit Simulator Kits add the following capabilities: Real-time In-Circuit Emulation available except for clock control and communication, Real-time In-Circuit debug using the 68HC08s MON08 serial debug/breakpoint capability, Runs under Windows NT and Windows 98.

Description	Digi-Key Part No.	Price Each
Simulator/Programmer for 68HC705B16	M68ICS05B-ND	111.72
Simulator/Programmer for 68HC705C8A/C9A	M68ICS05C-ND	111.72
Simulator/Programmer for 68HC705JP7/JJ7	M68ICS05JP-ND	111.72
Simulator/Programmer for 68HC705KJ1/J1A	M68ICS05KJ-ND	111.72
Simulator/Programmer for 68HC705P6A	M68ICS05P-ND	111.72
Simulator/Programmer for 68HC908JL3/JK3/JK1	M68ICS08JLJK-ND	333.83
Simulator/Programmer for 68HC908MR16/MR32	M68ICS08MR-ND	333.83
Simulator/Programmer for 68HC908RK2	M68ICS08RK2-ND	333.83
Simulator/Programmer for 68HC908JB8	M68ICS08JB-ND	333.83
Simulator/Programmer for 68HC908AB32	M68ICS08AB-ND	333.83
Simulator/Programmer for 68HC908KX8/KX2	M68ICS08KX-ND	333.83

Modular Evaluation System (MMEVS)

Contents: • MMEVS Platform Board: IDE (including editor, assembler, debugger), 9-Lead RS-232 Serial Cable, 9-to-25-Pin Serial Cable Adapter, MMEVS User Manuals, Power Supply • Device Specific Emulation Module

Description	Digi-Key Part No.	Price Each
Evaluation System for 68HC705JP7/JJ7	KITMMEVS05JP-ND	1057.53
Evaluation System for 68HC705KJ1/J1A	KITMMEVS05KJ-ND	1057.53
Evaluation System for 68HC908JL3/JK3/JK1	KITMMEVS08JL-ND	1587.80
Evaluation System for 68HC908JB8	KITMMEVS08JB8-ND	1587.80
Evaluation System for 68HC908AB32	KITMMEVS08AB32-ND	1587.80
Evaluation System for 68HC908MR32/MR16	KITMMEVS08MR32-ND	1587.80
Evaluation System for 68HC908KX8/KX2	KITMMEVS08KX-ND	1587.80
Evaluation System for 68HC908QT/QY	KITMMEVS08QTQY-ND	1600.43
Evaluation System for 68HC05/08	M68MMPFB0508-ND	456.52

Modular Development System (MMDS)

Contents: • Station Module with Built-in Power Supply: Compact: 15.38" D x 10.19" W x 2.75" H (39cm D x 25.9cm W x 7cm H). Lightweight: 6lbs. (2.7kg). Built-In Power: 85 to 264 VAC. Device-specific Emulator Module and flexible Target System Cable • Two Logic Clip Cable Assemblies • 9-lead RS-232 Serial Cable • 9 to 25 pin Serial Cable Adapter • IDE with Editor, Assembler, and Debugger • MMDS User Manuals • MMDS tutorial

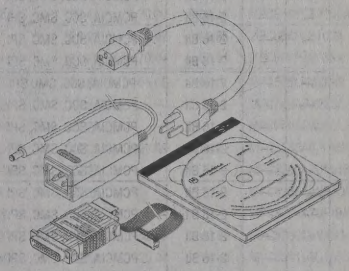
Description	Digi-Key Part No.	Price Each
Modular Development Kit for 68HC705B16	KITMMDS05B-ND	3662.53
Modular Development Kit for 68HC705JP7/JJ7	KITMMDS05JP-ND	3662.53
Modular Development Kit for 68HC705KJ1/J1A	KITMMDS05KJ-ND	3662.53
Modular Development Kit for 68HC908JL3/JK3/JK1	KITMMDS08JL-ND	4174.09
Modular Development Kit for 68HC908JB8	KITMMDS08JB8-ND	4174.09
Modular Development Kit for 68HC908AB32	KITMMDS08AB32-ND	4174.09
Modular Development Kit for 68HC908MR32/MR16	KITMMDS08MR32-ND	4174.09
Modular Development Kit for 68HC908KX8/KX2	KITMMDS08KX-ND	4174.09
Modular Development Kit for 68HC05/08	M68MMDS0508-ND	3148.62

MultiLink and CyclonePro

The MultiLink is an easy-to-use, low cost development tool for the Freescale HC(S)08 and HC(S)12 MCUs. It provides In-Circuit emulation, debugging and programming through the MON08 (HC08) and BDM (HC12, HCS08) interfaces.

Features:

• Universal development tool for HC(S)08 and HC(S)12 MCUs • Real-Time In-Circuit emulation and debug • Fast In-Circuit programming • Auto-detects baud rate and frequency • Provides optional overdrive clock to target • Small size • Supports 2V to 5.5V • Auto-cycle power for security checks (up to 125mA) • Universal power supply (included). The M68CYCLONEPRO provides all the same capabilities of the MultiLinks, with the ability to function as a standalone programmer, with pushbuttons and LEDs to control operation. Also provides support for 1.8V operation.



M68MULTILINK08-ND	HC08s, Parallel (as shown)	$180.00
M68CYCLONEPRO-ND	HC(S)08, HC(S)12, USB	$519.40
USBMULTILINK08-ND	HC08s, USB	$128.86
USBMULTILINKBDM-ND ***NEW!***	HC(S)08, HC(S)12, USB	$127.57

32-Bit Microcontrollers

ColdFire™ the highly integrated ColdFire series of processors allow for advanced performance at low cost. Rich peripheral sets and development tools make these processors both easy to use and highly functional. The variable length RISC architecture enable this processor to save system memory and cost. **PowerPC** series of processors from Freescale Semiconductor, Inc. are the ideal foundation for RISC embedded applications. Features include high scalability and code compatibility over the entire line. **M-Core** with an emphasis on low power consumption, the M-CORE series of processors are the ideal match for handheld and other low-power applications, which require high performance. **68K** series of processors are ideal for the engineer looking for high performance at a reduced cost. The wide array of 68K processors can suit most any application.

RAM (Bytes)	SRAM (Bytes)	Flash (Bytes)	Timer	Serial	A/D	PWM	Operating Voltage (V)	Oper. Freq. (MHz)	Temp. (°C)	Package	Digi-Key Part No.	Price Each 1	25	100	Freescale Part No.
ColdFire™ Processors															
	64K	256K	8+4 DmA	3 Asynch., QSPI	8-Ch., 10-Bit QADC	—	3.3, 5.0	66	0–70	256-MAPBGA	MCF5214CVF66-ND	26.14	20.51	19.32	MCF5214CVF66
	64K	—	8	3 Asynch., QSPI, CAN 2.0b, IIC	8-Ch., 10 Bit QADC	See Timer	3.3, 5.0	66	-40–85	256-MAPBGA	MCF5280CVF66-ND	28.80	22.59	21.28	MCF5280CVF66
2K	64K	—	8	3 Asynch., QSPI, CAN 2.0b, IIC	8-Ch., 10-Bit QADC	See Timer	3.3, 5.0	80	-40–85	256-MAPBGA	MCF5280CVF80-ND	34.56	27.11	25.54	MCF5280CVF80
	64K	256K	8	3 Asynch., QSPI, CAN 2.0b, IIC	8-Ch., 10-Bit QADC	See Timer	3.3, 5.0	66	-40–85	256-MAPBGA	MCF5281CVF66-ND	32.29	25.33	23.86	MCF5281CVF66
	64K	256K	8	3 Asynch., QSPI, CAN 2.0b, IIC	8-Ch., 10-Bit QADC	See Timer	3.3, 5.0	80	-40–85	256-MAPBGA	MCF5281CVF80-ND	38.76	29.45	28.64	MCF5281CVF80
	64K	512K	8+4 DmA	3 Asynch., QSPI	8-Ch., 10-Bit QADC	—	3.3, 5.0	66	-40–85	256-MAPBGA	MCF5216CVF66-ND	29.25	22.95	21.62	MCF5216CVF66
4K	8K	—	2	2 Asynch.	—	—	3.3	40	0–70	160-QFP	MCF5206ECFT40-ND	19.50	15.30	14.41	MCF5206ECFT40
	8K	—	2	2 Asynch.	—	—	3.3	40	0–70	160-QFP	MCF5206EFT40-ND	17.16	12.98	11.97	MCF5206EFT40
	8K	—	2	2 Asynch.	—	—	3.3	54	0–70	160-QFP	MCF5206EFT54-ND	19.50	15.30	14.41	MCF5206EFT54
	64K	—	24	3 Asynch., QSPI, CAN 2.0b	—	—	1.5, 3.3	80	-40–85	160-QFP	MCF5232CAB80-ND	19.66	15.42	14.53	MCF5232CAB80
	64K	—	24	3 Asynch., QSPI, CAN 2.0b	—	—	1.5, 3.3	100	-40–85	196-MAPBGA	MCF5232CVM100-ND	19.66	15.42	14.53	MCF5232CVM100
	64K	—	24	3 Asynch., QSPI, CAN 2.0b	—	—	1.5, 3.3	150	-40–85	196-MAPBGA	MCF5232CVM150-ND	26.00	20.40	19.22	MCF5232CVM150
8K	64K	—	40	3 Asynch., QSPI, 2-CAN 2.0b	—	—	1.5, 3.3	100	-40–85	256-MAPBGA	MCF5233CVM100-ND	26.53	20.81	19.60	MCF5233CVM100
	64K	—	40	3 Asynch., QSPI, 2-CAN 2.0b	—	—	1.5, 3.3	150	-40–85	256-MAPBGA	MCF5233CVM150-ND	32.87	25.79	24.29	MCF5233CVM150
	64K	—	24	3 Asynch. QSPI, IIC	—	—	1.5, 3.3	100	-40–85	256-MAPBGA	MCF5234CVM100-ND	25.55	20.04	18.88	MCF5234CVM100
	64K	—	24	3 Asynch, QSPI, IIC	—	—	1.5, 3.3	150	-40–85	256-MAPBGA	MCF5234CVM150-ND	31.89	25.02	23.56	MCF5234CVM150

'4-Channel DMA

(Continued)

B

RAM (Bytes)	SRAM (Bytes)	Flash (Bytes)	Timer	Serial	A/D	PWM	Operating Voltage (V)	Oper. Freq. (MHz)	Temp. (°C)	Package	Digi-Key Part No.	Price Each 1	25	100	Freescale Part No.
	64K	—	24	3 Asynch., QSPI, 2-CAN 2.0b	—	—	1.5, 3.3	100	-40–85	256-MAPBGA	MCF5235CVM100-ND	29.48	23.13	21.79	MCF5235CVM100
	64K	—	24	3 Asynch., QSPI, 2-CAN 2.0b, IIC	—	—	1.5, 3.3	150	-40–85	256-MAPBGA	MCF5235CVM150-ND	35.83	27.23	26.47	MCF5235CVM150
8K	64K	—	8	3 Asynch., QSPI, IIC	—	—	1.5, 3.3	100	0–70	160-QFP	MCF5270AB100-ND	15.70	11.88	10.95	MCF5270AB100
	64K	—	8	3 Asynch., QSPI, IIC	—	—	1.5, 3.3	100	-40–85	196-MAPBGA	MCF5271CVM100-ND	18.24	14.31	13.48	MCF5271CVM100
	64K	—	8	3 Asynch., QSPI, IIC	—	—	1.5, 3.3	100	-40–85	160-QFP	MCF5271CAB100-ND	18.24	14.31	13.48	MCF5271CAB100
	64K	—	8	3 Asynch., QSPI, IIC	—	4-Ch.	1.5, 2.5, 3.3	166	0–70	196-MAPBGA	MCF5274LVM166-ND	17.25	13.05	12.03	MCF5274LVM166
16K	64K	—	8	3 Asynch., QSPI, IIC, USB 2.0	—	4-Ch.	1.5, 2.5, 3.3	166	0–70	256-MAPBGA	MCF5274VM166-ND	19.68	15.44	14.54	MCF5274VM166
	64K	—	8	3 Asynch., QSPI, IIC, USB 2.0	—	4-Ch.	1.5, 2.5, 3.3	166	-40–85	196-MAPBGA	MCF5275LCVM166-ND	19.68	15.44	14.54	MCF5275LCVM166
	64K	—	8	3 Asynch, QSPI, IIC, USB 2.0	—	4-Ch.	1.5, 2.5, 3.3	166	-40–85	256-MAPBGA	MCF5275CVM166-ND	23.53	18.46	17.39	MCF5275CVM166
	32K	—	6	4 Asynch., SPI, IIC	—	—	1.5, 2.5, 3.3	200	0–70	388-PBGA	MCF5471ZP200-ND	40.57	30.83	29.98	MCF5471ZP200
	32K	—	6	4 Asynch., SPI, IIC, USB 2.0	—	—	1.5, 2.5, 3.3	200	0–70	388-PBGA	MCF5472ZP200-ND	34.47	27.04	25.47	MCF5472ZP200
	32K	—	6	4 Asynch., SPI, IIC, USB 2.0	—	—	1.5, 2.5, 3.3	200	0–70	388-PBGA	MCF5473ZP200-ND	40.57	30.83	29.98	MCF5473ZP200
	32K	—	6	4 Asynch., SPI, IIC, USB 2.0	—	—	1.5, 2.5, 3.3	200	0–70	388-PBGA	MCF5474ZP200-ND	38.64	29.36	28.55	MCF5474ZP200
	32K	—	6	4 Asynch., SPI, IIC, USB 2.0	—	—	1.5, 2.5, 3.3	266	0–70	388-PBGA	MCF5474ZP266-ND	40.57	30.83	29.98	MCF5474ZP266
	32K	—	6	4 Asynch., SPI, IIC, USB 2.0	—	—	1.5, 2.5, 3.3	200	0–70	388-PBGA	MCF5475ZP200-ND	40.83	34.01	32.00	MCF5475ZP200
64K	32K	—	6	4 Asynch., SPI, IIC, USB 2.0	—	—	1.5, 2.5, 3.3	266	0–70	388-PBGA	MCF5475ZP266-ND	42.59	35.48	33.38	MCF5475ZP266
	32K	—	6	4 Asynch., SPI, IIC, 2-CAN	—	—	1.5, 2.5, 3.3	166	-40–85	388-PBGA	MCF5480CZP166-ND	40.55	30.82	29.96	MCF5480CZP166
	32K	—	6	4 Asynch., SPI, IIC, 2-CAN	—	—	1.5, 2.5, 3.3	166	-40–85	388-PBGA	MCF5481CZP166-ND	42.58	35.46	33.36	MCF5481CZP166
	32K	—	6	4 Asynch., SPI, IIC, 2-CAN, USB 2.0	—	—	1.5, 2.5, 3.3	166	-40–85	388-PBGA	MCF5482CZP166-ND	40.55	30.82	29.96	MCF5482CZP166
	32K	—	6	4 Asynch., SPI, IIC, 2-CAN, USB 2.0	—	—	1.5, 2.5, 3.3	166	-40–85	388-PBGA	MCF5483CZP166-ND	42.58	35.46	33.36	MCF5483CZP166
	32K	—	6	4 Asynch., SPI, IIC, 2-CAN, USB 2.0	—	—	1.5, 2.5, 3.3	200	-40–85	388-PBGA	MCF5484CZP200-ND	43.55	36.28	34.13	MCF5484CZP200
	32K	—	6	4 Asynch., SPI, IIC, 2-CAN, USB 2.0	—	—	1.5, 2.5, 3.3	200	-40–85	388-PBGA	MCF5485CZP200-ND	49.12	40.91	38.49	MCF5485CZP200
	32K	—	6	4 Asynch., SPI, IIC	—	—	1.5, 2.5, 3.3	200	0–70	388-PBGA	MCF5470ZP200-ND	34.47	27.04	25.47	MCF5470ZP200
	512	—	2	2 Asynch.	—	—	5.0	16	0–70	160-QFP	MCF5206FT16A-ND	22.30	17.49	16.48	MCF5206FT16A
	512	—	2	2 Asynch.	—	—	5.0	25	0–70	160-QFP	MCF5206FT25A-ND	24.39	19.13	18.02	MCF5206FT25A
—	512	—	2	2 Asynch.	—	—	5.0	33	0–70	160-QFP	MCF5206FT33A-ND	27.73	21.75	20.49	MCF5206FT33A
	4K	—	2	2 Asynch.	—	—	3.3	66	0–70	208-FQFP	MCF5307FT66B-ND*	25.16	19.74	18.59	MCF5307FT66B
	4K	—	2	2 Asynch.	—	—	3.3	90	0–70	208-FQFP	MCF5307FT90B-ND*	33.14	25.99	24.49	MCF5307FT90B
							PowerPC™ Processors								
	—	—	2-16 Bit	PCMCIA, SCC, SMC, SPI	—	—	3.3	100	-40–85	256-PBGA	MPC852TVR100-ND	24.86	19.50	18.37	MPC852TVR100
	—	—	2-16 Bit	PCMCIA, SCC, SMC, SPI	—	—	3.3	100	-40–85	256-PBGA	MPC852TCVR100A-ND	26.85	21.06	19.84	MPC852TCVR100A
	—	—	2-16 Bit	PCMCIA, SCC, SMC, SPI	—	—	3.3	50	-40–85	256-PBGA	MPC852TCVR50A-ND	18.27	14.34	13.50	MPC852TCVR50A
	—	—	2-16 Bit	PCMCIA, SCC, SMC, SPI	—	—	3.3	66	-40–85	256-PBGA	MPC852TCVR66A-ND	20.66	16.21	15.27	MPC852TCVR66A
	—	—	2-16 Bit	PCMCIA, SCC, SMC, SPI	—	—	3.3	80	-40–85	256-PBGA	MPC852TCVR80A-ND	23.33	18.30	17.24	MPC852TCVR80A
	—	—	2-16 Bit	PCMCIA, SCC, SMC SPI	—	—	3.3	100	-40–85	256-PBGA	MPC852TCZT100A-ND	26.85	21.06	19.84	MPC852TCZT100A
	—	—	2-16 Bit	PCMCIA, SCC, SMC, SPI	—	—	3.3	50	-40–85	256-PBGA	MPC852TCZT50A-ND	18.27	14.34	13.50	MPC852TCZT50A
	—	—	2-16 Bit	PCMCIA, SCC, SMC, SPI	—	—	3.3	80	-40–85	256-PBGA	MPC852TCZT80A-ND	23.33	18.30	17.24	MPC852TCZT80A
	—	—	2-16 Bit	PCMCIA, SCC, SMC, SPI	—	—	3.3	100	-40–85	256-PBGA	MPC852TVR100A-ND	24.86	19.50	18.37	MPC852TVR100A
	—	—	2-16 Bit	PCMCIA, SCC, SMC, SPI	—	—	3.3	50	-40–85	256-PBGA	MPC852TVR50A-ND	18.44	13.95	12.86	MPC852TVR50A
	—	—	2-16 Bit	PCMCIA, SCC, SMC, SPI	—	—	3.3	80	-40–85	256-PBGA	MPC852TVR80A-ND	21.61	16.95	15.97	MPC852TVR80A
	—	—	2-16 Bit	PCMCIA, SCC, SMC, SPI	—	—	3.3	100	-40–85	256-PBGA	MPC852TZT100A-ND	24.86	19.50	18.37	MPC852TZT100A
	—	—	2-16 Bit	PCMCIA, SCC, SMC, SPI	—	—	3.3	50	-40–85	256-PBGA	MPC852TZT50A-ND	18.44	13.94	12.86	MPC852TZT50A
	—	—	2-16 Bit	PCMCIA, SCC, SMC, SPI	—	—	3.3	66	-40–85	256-PBGA	MPC852TZT66A-ND	19.13	15.01	14.14	MPC852TZT66A
	—	—	2-16 Bit	PCMCIA, SCC, SMC, SPI	—	—	3.3	80	-40–85	256-PBGA	MPC852TZT80A-ND	21.61	16.95	15.97	MPC852TZT80A
	—	—	4-16 Bit	PCMCIA, I2C, SPI	—	—	3.3	50	-40–85	357-PBGA	MPC855TCZQ50D4-ND	43.75	33.25	32.33	MPC855TCZQ50D4
	—	—	4-16 Bit	PCMCIA, I2C, SPI	—	—	3.3	50	-40–85	357-PBGA	MPC855TZQ50D4-ND	40.52	30.79	29.94	MPC855TZQ50D4
	—	—	4-16 Bit	PCMCIA, I2C, SPI	—	—	3.3	80	-40–85	357-PBGA	MPC855TZQ80D4-ND	46.42	38.67	36.38	MPC855TZQ80D4
	—	—	4-16 Bit	PCMCIA, I2C, SPI	—	—	3.3	50	-40–85	357-PBGA	MPC859DSLCZP50A-ND	30.73	24.11	22.71	MPC859DSLCZP50A
	—	—	4-16 Bit	PCMCIA, I2C, SPI	—	—	3.3	66	-40–85	357-PBGA	MPC859DSLCZP66A-ND	34.21	26.83	25.28	MPC859DSLCZP66A
8K	—	—	4-16 Bit	PCMCIA, I2C, SPI	—	—	3.3	50	-40–85	357-PBGA	MPC859DSLZP50A-ND	28.46	22.33	21.03	MPC859DSLZP50A
	—	—	4-16 Bit	PCMCIA, I2C, SPI	—	—	3.3	66	-40–85	357-PBGA	MPC859DSLZP66A-ND	31.68	24.85	23.41	MPC859DSLZP66A
	—	—	4-16 Bit	PCMCIA, I2C, SPI	—	—	3.3	50	-40–85	357-PBGA	MPC860DTZQ50D4-ND	60.69	50.55	47.56	MPC860DTZQ50D4
	—	—	4-16 Bit	PCMCIA, I2C, SPI	—	—	3.3	80	-40–85	357-PBGA	MPC860DTZQ80D4-ND	78.29	63.40	61.35	MPC860DTZQ80D4
	—	—	4-16 Bit	PCMCIA, I2C, SPI	—	—	3.3	50	-40–85	357-PBGA	MPC860ENCZQ50D4-ND	71.65	58.03	56.15	MPC860ENCZQ50D4
	—	—	4-16 Bit	PCMCIA, I2C, SPI	—	—	3.3	50	-40–85	357-PBGA	MPC860ENZQ50D4-ND	66.35	53.73	51.99	MPC860ENZQ50D4
	—	—	4-16 Bit	PCMCIA, I2C, SPI	—	—	3.3	80	-40–85	357-PBGA	MPC860ENZQ80D4-ND	79.39	67.98	64.26	MPC860ENZQ80D4
	—	—	4-16 Bit	PCMCIA, I2C, SPI	—	—	3.3	100	-40–85	357-PBGA	MPC859TCZP100A-ND	50.29	41.88	39.41	MPC859TCZP100A
	—	—	4-16 Bit	PCMCIA, I2C, SPI	—	—	3.3	100	-40–85	357-PBGA	MPC859TZP100A-ND	46.57	38.79	36.49	MPC859TZP100A
	—	—	4-16 Bit	PCMCIA, I2C, SPI	—	—	3.3	133	-40–85	357-PBGA	MPC859TZP133A-ND	50.98	42.46	39.95	MPC859TZP133A
	—	—	4-16 Bit	PCMCIA, I2C, SPI	—	—	3.3	50	-40–85	357-PBGA	MPC860DEZQ50D4-ND	55.01	45.82	43.11	MPC860DEZQ50D4
	—	—	4-16 Bit	PCMCIA, I2C, SPI	—	—	3.3	80	-40–85	357-PBGA	MPC860DEZQ80D4-ND	72.63	58.82	56.91	MPC860DEZQ80D4
	—	—	4-16 Bit	PCMCIA, I2C, SPI	—	—	3.3	50	-40–85	357-PBGA	MPC860SRCZQ50D4-ND	77.78	62.98	60.95	MPC860SRCZQ50D4
	—	—	4-16 Bit	PCMCIA, I2C, SPI	—	—	3.3	50	-40–85	357-PBGA	MPC860SRZQ50D4-ND	72.01	58.31	56.42	MPC860SRZQ50D4
	—	—	4-16 Bit	PCMCIA, I2C, SPI	—	—	3.3	80	-40–85	357-PBGA	MPC860SRZQ80D4-ND	84.76	72.58	68.61	MPC860SRZQ80D4
	—	—	4-16 Bit	PCMCIA, I2C, SPI	—	—	3.3	50	-40–85	357-PBGA	MPC860TCZQ50D4-ND	77.78	62.98	60.95	MPC860TCZQ50D4
	—	—	4-16 Bit	PCMCIA, I2C, SPI	—	—	3.3	50	-40–85	357-PBGA	MPC860TZQ50D4-ND	72.01	58.31	56.42	MPC860TZQ50D4
	—	—	4-16 Bit	PCMCIA, I2C, SPI	—	—	3.3	66	-40–85	357-PBGA	MPC860TZQ66D4-ND	77.52	62.78	60.75	MPC860TZQ66D4
	—	—	4-16 Bit	PCMCIA, I2C, SPI	—	—	3.3	80	-40–85	357-PBGA	MPC860TZQ80D4-ND	84.76	72.58	68.61	MPC860TZQ80D4
	—	—	4-16 Bit	PCMCIA, I2C, SPI	—	—	3.3	100	-40–85	357-PBGA	MPC866TCZP100A-ND	76.89	65.84	62.24	MPC866TCZP100A
	—	—	4-16 Bit	PCMCIA, I2C, SPI	—	—	3.3	100	-40–85	357-PBGA	MPC866TZP100A-ND	73.91	59.86	57.92	MPC866TZP100A
	—	—	4-16 Bit	PCMCIA, I2C, SPI	—	—	3.3	133	-40–85	357-PBGA	MPC866TZP133A-ND	78.93	63.92	61.85	MPC866TZP133A

*4-Channel DMA

(Continued

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	—	—	—	60X	—	—	2.5	200	-40–85	255-PBGA	MPC603RZT200LC-ND	41.13	34.26	32.23	MPC603RZT200LC
	—	—	—	60X	—	—	2.5	300	-40–85	256-CBGA	MPC603RRX300LC-ND	82.32	—	—	MPC603RRX300LC
	—	—	4-16 Bit	PCMCIA, I2C, SPI, USB	—	—	3.3	133	-40–85	256-PBGA	MPC870CZT133-ND	23.67	18.57	17.49	MPC870CZT133
	—	—	4-16 Bit	PCMCIA, I2C, SPI, USB	—	—	3.3	66	-40–85	256-PBGA	MPC870CZT66-ND	21.45	16.83	15.85	MPC870CZT66
	—	—	4-16 Bit	PCMCIA, I2C, SPI, USB	—	—	3.3	133	-40–85	256-PBGA	MPC870ZT133-ND	21.91	17.19	16.19	MPC870ZT133
	—	—	4-16 Bit	PCMCIA, I2C, SPI, USB	—	—	3.3	66	-40–85	256-PBGA	MPC870ZT66-ND	19.87	15.59	14.69	MPC870ZT66
	—	—	4-16 Bit	PCMCIA, I2C, SPI, USB	—	—	3.3	80	-40–85	256-PBGA	MPC870ZT80-ND	20.87	16.38	15.43	MPC870ZT80
	—	—	4-16 Bit	PCMCIA, I2C, SPI, USB	—	—	3.3	133	-40–85	256-PBGA	MPC875CZT133-ND	32.91	25.81	24.32	MPC875CZT133
	—	—	4-16 Bit	PCMCIA, I2C, SPI, USB	—	—	3.3	66	-40–85	256-PBGA	MPC875CZT66-ND	29.83	23.40	22.04	MPC875CZT66
	—	—	4-16 Bit	PCMCIA, I2C, SPI, USB	—	—	3.3	133	-40–85	256-PBGA	MPC875ZT133-ND	30.47	23.90	22.51	MPC875ZT133
16K	—	—	4-16 Bit	PCMCIA, I2C, SPI, USB	—	—	3.3	66	-40–85	256-PBGA	MPC875ZT66-ND	27.62	21.67	20.41	MPC875ZT66
	—	—	4-16 Bit	PCMCIA, I2C, SPI, USB	—	—	3.3	80	-40–85	256-PBGA	MPC875ZT80-ND	29.01	22.76	21.43	MPC875ZT80
	—	—	4-16 Bit	PCMCIA, I2C, SPI, USB	—	—	3.3	133	-40–85	357-PBGA	MPC880CZP133-ND	42.13	32.02	31.13	MPC880CZP133
	—	—	4-16 Bit	PCMCIA, I2C, SPI, USB	—	—	3.3	66	-40–85	357-PBGA	MPC880CZP66-ND	38.21	29.04	28.24	MPC880CZP66
	—	—	4-16 Bit	PCMCIA, I2C, SPI, USB	—	—	3.3	133	-40–85	357-PBGA	MPC880ZP133-ND	39.01	29.64	28.82	MPC880ZP133
	—	—	4-16 Bit	PCMCIA, I2C, SPI, USB	—	—	3.3	66	-40–85	357-PBGA	MPC880ZP66-ND	35.39	26.89	26.15	MPC880ZP66
	—	—	4-16 Bit	PCMCIA, I2C, SPI, USB	—	—	3.3	80	-40–85	357-PBGA	MPC880ZP80-ND	37.14	28.23	27.44	MPC880ZP80
	—	—	4-16 Bit	PCMCIA, I2C, SPI, USB	—	—	3.3	133	-40–85	357-PBGA	MPC885CZP133-ND	46.84	39.01	36.71	MPC885CZP133
	—	—	4-16 Bit	PCMCIA, I2C, SPI, USB	—	—	3.3	66	-40–85	357-PBGA	MPC885CZP66-ND	42.50	35.40	33.30	MPC885CZP66
	—	—	4-16 Bit	PCMCIA, I2C, SPI, USB	—	—	3.3	133	-40–85	357-PBGA	MPC885ZP133-ND	43.38	36.13	33.99	MPC885ZP133
	—	—	4-16 Bit	PCMCIA, I2C, SPI, USB	—	—	3.3	66	-40–85	357-PBGA	MPC885ZP66-ND	43.13	32.78	31.87	MPC885ZP66
	—	—	4-16 Bit	PCMCIA, I2C, SPI, USB	—	—	3.3	80	-40–85	357-PBGA	MPC885ZP80-ND	41.31	34.41	32.37	MPC885ZP80
	—	—	4-16 Bit	PCMCIA, I2C, SPI	—	—	3.3	100	-40–85	357-PBGA	MPC859PCZP100A-ND	55.46	46.20	43.46	MPC859PCZP100A
	—	—	4-16 Bit	PCMCIA, I2C, SPI	—	—	3.3	100	-40–85	357-PBGA	MPC859PZP100A-ND	51.36	42.78	40.25	MPC859PZP100A
	—	—	4-16 Bit	PCMCIA, I2C, SPI	—	—	3.3	133	-40–85	357-PBGA	MPC859PZP133A-ND	56.36	46.94	44.17	MPC859PZP133A
	—	—	4-16 Bit	PCMCIA,I2C, SPI	—	—	3.3	50	-40–85	357-PBGA	MPC860DPCZQ50D4-ND	74.72	60.50	58.55	MPC860DPCZQ50D4
	—	—	4-16 bit	PCMCIA, I2C, SPI	—	—	3.3	50	-40–85	357-PBGA	MPC860DPZQ50D4-ND	69.19	56.03	54.21	MPC860DPZQ50D4
	—	—	4-16 Bit	PCMCIA, I2C, SPI	—	—	3.3	80	-40–85	357-PBGA	MPC860DPZQ80D4-ND	82.08	70.28	66.43	MPC860DPZQ80D4
24K	—	—	4-16 Bit	PCMCIA, I2C, SPI	—	—	3.3	50	-40–85	357-PBGA	MPC860PCZQ50D4-ND	82.23	70.41	66.56	MPC860PCZQ50D4
	—	—	4-16 Bit	PCMCIA, I2C, SPI	—	—	3.3	50	-40–85	357-PBGA	MPC860PZQ50D4-ND	76.13	65.19	61.62	MPC860PZQ50D4
	—	—	4-16 Bit	PCMCIA, I2C, SPI	—	—	3.3	80	-40–85	357-PBGA	MPC860PZQ80D4-ND	92.79	79.46	75.11	MPC860PZQ80D4
	—	—	4-16 Bit	PCMCIA, I2C, SPI	—	—	3.3	100	-40–85	357-PBGA	MPC866PCZP100A-ND	82.11	70.30	66.46	MPC866PCZP100A
	—	—	4-16 Bit	PCMCIA, I2C, SPI	—	—	3.3	100	-40–85	357-PBGA	MPC866PZP100A-ND	78.93	63.92	61.85	MPC866PZP100A
	—	—	4-16 Bit	PCMCIA, 12C,SPI	—	—	3.3	133	-40–85	357-PBGA	MPC866PZP133A-ND	81.80	70.04	66.21	MPC866PZP133A
	—	448K	50-Ch.	QSMCM	2 QADC64	8	3.3	40	-40–85	272-PBGA	MPC555LFMZP40-ND	76.68	65.66	62.07	MPC555LFMZP40
	—	—	—	60X	—	—	2.6, 3.3	233	-40–85	256-CBGA	MPC740ARX233LH-ND	40.84	—	—	MPC740ARX233LH
	—	—	—	60X	—	—	2.6, 3.3	266	-40–85	256-CBGA	MPC740ARX266LH-ND	89.73	—	—	MPC740ARX266LH
	—	—	4-16 Bit	I2C, MII, SPI, TDM	—	—	3.3	300	-40–85	480-TBGA	MPC8260ACZUMHBB-ND	146.39	126.99	121.32	MPC8260ACZUMHBB
	—	—	4-16 Bit	I2C, MII, SPI, TDM	—	—	3.3	300	-40–85	480-TBGA	MPC8260AZUMHBB-ND	139.27	—	—	MPC8260AZUMHBB
	—	—	4-16 Bit	I2C, MII, SPI, TDM	—	—	3.3	300	-40–85	480-TBGA	MPC8260AZUPJDB-ND	168.26	—	—	MPC8260AZUPJDB
	—	—	4-16 Bit	I2C, MII, SPI, TDM	—	—	3.3	300	-40–85	480-TBGA	MPC8264AZUPIBB-ND	183.90	—	—	MPC8264AZUPIBB
	—	—	8-Ch.	IIC, SPI, CAN 2.0, USB 1.1	—	See Timer	3.3	400	-40–85	272-PBGA	MPC5200CBV400-ND	51.54	42.93	40.39	MPC5200CBV400
	—	—	4-Ch.	DUART, IIC	—	—	3.3	166	-40–85	357-PBGA	MPC8241LZQ166D-ND	26.57	20.84	19.63	MPC8241LZQ166D
	—	—	4-Ch.	DUART, IIC	—	—	3.3	200	-40–85	357-PBGA	MPC8241LZQ200D-ND	29.94	23.49	22.12	MPC8241LZQ200D
32K	—	—	4-Ch.	DUART, IIC	—	—	3.3	400	-40–85	352-TBGA	MPC8245ARZU400D-ND	85.91	73.56	69.54	MPC8245ARZU400D
	—	—	4-Ch.	DUART, IIC	—	—	3.3	266	-40–85	352-TBGA	MPC8245LZU266D-ND	53.51	44.57	41.93	MPC8245LZU266D
	—	—	4-Ch.	DUART, IIC	—	—	3.3	300	-40–85	352-TBGA	MPC8245LZU300D-ND	63.64	53.00	49.87	MPC8245LZU300D
	—	—	4-Ch.	DUART, IIC	—	—	3.3	333	-40–85	352-TBGA	MPC8245LZU333D-ND	67.29	54.49	52.73	MPC8245LZU333D
	—	—	4-Ch.	DUART, IIC	—	—	3.3	350	-40–85	352-TBGA	MPC8245LZU350D-ND	79.24	64.16	62.09	MPC8245LZU350D
	—	—	4-Ch.	DUART, IIC	—	—	3.3	266	-40–85	352-TBGA	MPC8245TZU266D-ND	69.57	56.34	54.52	MPC8245TZU266D
	—	—	4-Ch.	IIC, MII, SPI, UART	—	—	3.3	200	0–105	480-TBGA	MPC8250AZUMHBC-ND	97.15	83.18	78.63	MPC8250AZUMHBC
	—	—	4-Ch.	IIC, MII, SPI, UART	—	—	3.3	200	0–105	480-TBGA	MPC8250AZUPIBC-ND	106.86	91.50	86.50	MPC8250AZUPIBC
	—	—	4-Ch.	IIC, MII, SPI, UTOPIA	—	—	3.3	300	0–105	480-TBGA	MPC8255AZUMHBB-ND	122.93	105.26	99.50	MPC8255AZUMHBB
	—	—	4-Ch.	IIC, MII, SPI, UTOPIA	—	—	3.3	300	-40–105	480-TBGA	MPC8260ACZUMIBB-ND	152.91	132.64	126.72	MPC8260ACZUMIBB
	—	—	54-Ch.	QSMCM	2 QADC64E	12	2.6	40	-40–85	388-PBGA	MPC561CZP40-ND	40.52	30.79	29.94	MPC561CZP40
	—	—	54-Ch.	QSMCM	2 QADC64E	12	2.6	40	-40–85	388-PBGA	MPC562CZP40-ND	42.50	35.40	33.30	MPC562CZP40
	—	512K	54-Ch.	QSMCM	2 QADC64E	12	2.6	40	-40–85	388-PBGA	MPC563CZP40-ND	60.69	50.55	47.56	MPC563CZP40
42K	—	512K	54-Ch.	QSMCM	2 QADC64E	12	2.6	40	-40–85	388-PBGA	MPC564CZP40-ND	66.76	54.07	52.32	MPC564CZP40
	—	—	54-Ch.	SCI, QSPI, TouCAN	2 QADC	12	2.6	56	-40–125	388-PBGA	MPC561MZP56-ND	40.67	33.87	31.87	MPC561MZP56
	—	—	54-Ch.	SCI, QSPI, TouCAN	2 QADC	12	2.6	56	-40–125	388-PBGA	MPC562MZP56-ND	46.76	38.95	36.64	MPC562MZP56
	—	1M	70-Ch.	QSMCM	2 QADC64E	12	2.6	40	-40–85	388-PBGA	MPC565CZP40-ND	82.02	70.23	66.39	MPC565CZP40
46K	—	1M	70-Ch.	QSMCM	2 QADC64E	12	2.6	56	-40–85	388-PBGA	MPC565CZP56-ND	86.12	73.74	69.71	MPC565CZP56
	—	1M	70-Ch.	QSMCM	2 QADC64E	12	2.6	40	-40–85	388-PBGA	MPC566CZP40-ND	90.23	77.26	73.04	MPC566CZP40
	—	—	—	60X	—	—	2.5, 3.3	500	-40–85	360-CBGA	MPC7410RX500LE-ND	158.56	137.54	131.40	MPC7410RX500LE
	—	—	—	60X	—	—	3.3	350	-40–85	255-PBGA	MPC745BPX350LE-ND	85.74	73.42	69.40	MPC745BPX350LE
	—	—	—	60X	—	—	3.3	300	-40–85	360-CBGA	MPC755BPX300LE-ND	77.21	66.11	62.50	MPC755BPX300LE
64K	—	—	—	60X	—	—	3.3	300	-40–85	360-CBGA	MPC755BRX300LE-ND	77.21	66.11	62.50	MPC755BRX300LE
	—	—	—	60X	—	—	3.3	400	-40–85	360-PBGA	MPC755CPX400LE-ND	132.42	113.39	107.18	MPC755CPX400LE
	—	—	—	60X	—	—	3.3	400	-40–85	360-CBGA	MPC755CRX400LE-ND	132.42	113.39	107.18	MPC755CRX400LE
	—	—	4-Ch.	IIC, MII, SPI, UTOPIA, USB	—	—	3.3	333	-40–105	480-FTBGA	MPC8270ZUQLD-ND	78.10	66.88	63.22	MPC8270ZUQLD

I-Channel DMA

(Continued)

32-Bit Microcontrollers (Cont.)

RAM (Bytes)	SRAM (Bytes)	Flash (Bytes)	Timer	Serial	A/D	PWM	Operating Voltage (V)	Oper. Freq. (MHz)	Temp. (°C)	Package	Digi-Key Part No.	Price Each 1	25	100	Freescale Part No.
64K	—	—	4-Ch.	IIC, MII, SPI, UTOPIA, USB	—	—	3.3	450	-40~105	480-FTBGA	MPC8270ZUUPE-ND	93.72	80.25	75.86	MPC8270ZUUPE
	—	—	4-Ch.	IIC, MII, SPI, UTOPIA, USB	—	—	3.3	450	-40~105	480-FTBGA	MPC8280ZUUPE-ND	163.48	141.81	135.48	MPC8280ZUUPE
—	—	—	—	Ext. Bus Interface (EBI)	—	—	3.3	66	-40~85	100-LQFP	MPC180LMB-ND	20.96	16.44	15.49	MPC180LMB
M-CORE™ Processors															
8K	—	128K	Dual 4-Ch.	Dual SCI, SPI	Queued 8-Ch., 10-Bit	—	2.7-3.6	33	-40~85	100-LQFP	MMC2107CFCPU33-ND	22.54	17.68	16.66	MMC2107CFCPU33
—	8K	128K	4- Ch.	Dual, SCI, SPI	Queued 8-Ch., 10-Bit	—	2.7-3.6	33	-40~85	144-LQFP	MMC2107CFCPV33-ND	22.54	17.68	16.66	MMC2107CFCPV33
68K Family Processors															
1K	—	—	4-Ch.	SCP, TDM	—	—	3.3	16	-40~85	100-LQFP	M68LC302CPU16VCT-ND	28.45	22.31	21.02	M68LC302CPU16VC
	—	—	4-Ch.	SCP, TDM	—	—	3.3	20	-40~85	100-LQFP	M68LC302CPU20VCT-ND	29.29	22.98	21.64	M68LC302CPU20VC
	—	—	4-Ch.	SCP, TDM	—	—	5.0	16	0~70	132-PQFP	MC68302CFC16C-ND	32.99	26.95	25.54	MC68302CFC16C
	—	—	4-Ch.	SCP, TDM	—	—	3.3	16	0~70	144-LQFP	MC68302CPV16VC-ND	43.15	32.79	31.88	MC68302CPV16VC
	—	—	4-Ch.	SCP, TDM	—	—	5.0	16	0~70	132-PQFP	MC68302FC16C-ND	27.98	22.64	21.43	MC68302FC16C
	—	—	4-Ch.	SCP, TDM	—	—	5.0	20	0~70	132-PQFP	MC68302FC20C-ND	30.67	24.95	23.64	MC68302FC20C
	—	—	4-Ch.	SCP, TDM	—	—	5.0	25	0~70	132-PQFP	MC68302FC25C-ND	33.36	27.27	25.85	MC68302FC25C
	—	—	4-Ch.	SCP, TDM	—	—	5.0	16	0~70	144-LQFP	MC68302PV16C-ND	27.31	22.06	20.88	MC68302PV16C
	—	—	4-Ch.	SCP, TDM	—	—	3.3	16	0~70	144-LQFP	MC68302PV16VC-ND	33.41	27.30	25.89	MC68302PV16VC
	—	—	4-Ch.	SCP, TDM	—	—	5.0	20	0~70	144-LQFP	MC68302PV20C-ND	30.00	24.37	23.09	MC68302PV20C
	—	—	4-Ch.	SCP, TDM	—	—	5.0	25	0~70	144-LQFP	MC68302PV25C-ND	32.70	26.69	25.30	MC68302PV25C
	—	—	4-Ch.	SCP, TDM	—	—	5.0	33	0~70	144-LQFP	MC68302PV33C-ND	38.29	29.09	28.29	MC68302PV33C
	—	—	4-Ch.	SCP, TDM	—	—	5.0	16	0~70	132-PGA	MC68302RC16C-ND	76.93	—	—	MC68302RC16C
	—	—	4-Ch.	SCP, TDM	—	—	5.0	20	-40~85	144-TQFP	MC68EN302PV20BT-ND	36.74	30.18	28.64	MC68EN302PV20BT
	—	—	4-Ch.	SCP, TDM	—	—	5.0	25	-40~85	144-TQFP	MC68EN302PV25BT-ND	43.38	35.94	34.14	MC68EN302PV25BT
	—	—	4- Ch.	SCP, TDM	—	—	3.3	16	-40~85	100-LQFP	MC68LC302CPU16CT-ND	20.36	15.98	15.05	MC68LC302CPU16C
	—	—	4- Ch.	SCP, TDM	—	—	3.3	20	-40~85	100-LQFP	MC68LC302CPU20CT-ND	24.40	19.15	18.03	MC68LC302CPU20C
	—	—	4- Ch.	SCP, TDM	—	—	3.3	16	-40~85	100-TQFP	MC68LC302PU16CT-ND	19.68	15.56	14.68	MC68LC302PU16CT
	—	—	4-Ch.	SCP, TDM	—	—	3.3	16	-40~105	100-LQFP	MC68LC302PU16VCT-ND	27.88	21.87	20.60	MC68LC302PU16VC
	—	—	4-Ch.	SCP, TDM	—	—	3.3	20	-40~85	100-TQFP	MC68LC302PU20CT-ND	23.12	18.49	17.47	MC68LC302PU20CT
	—	—	4-Ch.	SCP, TDM	—	—	3.3	20	-40~105	100-LQFP	MC68LC302PU20VCT-ND	28.71	22.52	21.21	MC68LC302PU20VC
	—	—	4-Ch.	SCP, TDM	—	—	3.3	25	-40~85	100-TQFP	MC68LC302PU25CT-ND	26.54	21.41	20.25	MC68LC302PU25CT
2K	—	—	TPU	SCI, Queued SPI	—	—	5.0	25	-40~85	132-PQFP	MC68332ACFC25-ND	21.35	16.98	16.03	MC68332ACFC25
	—	—	TPU	SCI, Queued SPI	—	—	5.0	16	-40~85	132-PQFP	MC68332GCFC16-ND	19.63	15.52	14.64	MC68332GCFC16
	—	—	TPU	SCI, Queued SPI	—	—	5.0	16	-40~85	144-LQFP	MC68332ACPV16-ND	18.04	13.64	12.58	MC68332ACPV16
	—	—	TPU	SCI, Queued SPI	—	—	5.0	20	-40~85	144-LQFP	MC68332ACPV20-ND	18.94	14.33	13.21	MC68332ACPV20
	—	—	TPU	SCI, Queued SPI	—	—	5.0	16	-40~85	144-LQFP	MC68332GCPV16-ND	18.04	13.64	12.58	MC68332GCPV16
	—	—	TPU	SCI, Queued SPI	—	—	5.0	20	-40~85	144-LQFP	MC68332GCPV20-ND	18.94	14.33	13.21	MC68332GCPV20
	—	—	TPU	SCI, Queued SPI	—	—	3-5	16	-40~85	144-LQFP	MC68LK332ACPV16-ND	18.18	14.27	13.44	MC68LK332ACPV16
	—	—	TPU	SCI, Queued SPI	—	—	3-5	16	-40~85	144-LQFP	MC68LK332GCPV16-ND	18.18	14.27	13.44	MC68LK332GCPV16
	—	—	TPU	SCI, Queued SPI	—	—	5.0	16	-40~85	144-LQFP	MC68332GCPV16B1-ND	17.33	13.11	12.09	MC68332GCPV16B1
	—	—	TPU	SCI, Queued, SPI	—	—	5.0	16	-40~85	132-PQFP	MC68332ACFC16-ND	18.81	16.43	14.45	MC68332ACFC16
	—	—	TPU	SCI, Queued, SPI	—	—	5.0	20	-40~85	132-PQFP	MC68332ACFC20-ND	19.74	17.25	15.16	MC68332ACFC20
2.5K	—	—	4-16 Bit	SCP, TDM	—	—	3.3 to 5.0	33	-40~85	240-FQFP	MC68MH360EM33L-ND	74.88	60.63	58.67	MC68MH360EM33L
	—	—	4-16 Bit	SCP, TDM	—	—	3.3 to 5.0	25	-40~85	357-PBGA	MC68MH360ZP25VL-ND	77.39	66.27	62.64	MC68MH360ZP25VL
7.5K*	—	—	TPU, CTM4	SCI, Queued SPI	Queued 16-Ch., 10-Bit	—	5.0	20	-40~85	160-QFP	MC68336ACFT20-ND	27.94	21.92	20.64	MC68336ACFT20
	—	—	TPU, CTM4	SCI, Queued SPI	Queued 16-Ch., 10-Bit	—	5.0	20	-40~85	160-QFP	MC68336GCFT20-ND	27.94	21.92	20.64	MC68336GCFT20
	—	—	TPU, CTM4	TOUCAN, SCI, Queued SPI	Queued 16-Ch., 10-Bit	—	5.0	20	-40~85	160-QFP	MC68376BGMFT20-ND	30.17	24.51	23.22	MC68376BGMFT20
8K	—	—	—	—	—	—	5.0	33	-40~85	184-CQFP	MC68EC040FE33A-ND	120.15	—	—	MC68EC040FE33A
	—	—	—	—	—	—	5.0	25	-40~85	179-PGA	MC68EC040RC25A-ND	108.66	—	—	MC68EC040RC25A
	—	—	—	—	—	—	5.0	33	-40~85	179-PGA	MC68EC040RC33A-ND	149.99	—	—	MC68EC040RC33A
	—	—	—	—	—	—	5.0	25	-40~85	179-PGA	MC68LC040RC25A-ND	161.25	—	—	MC68LC040RC25A
16K	—	—	—	—	—	—	3.3	50	-40~85	206-PGA	MC68EC060RC50-ND	140.09	—	—	MC68EC060RC50
	—	—	—	—	—	—	3.3	66	-40~85	206-PGA	MC68EC060RC66-ND	288.32	—	—	MC68EC060RC66
	—	—	—	—	—	—	3.3 ~ 5.0	66	-40~85	206-PGA	MC68LC060RC66-ND	468.31	—	—	MC68LC060RC66
—	—	—	4-Chan.	SCP, TDM	—	—	3.3 ~ 5.0	25	-40~85	240-FQFP	MC68MH360EM25L-ND	67.94	55.01	53.23	MC68MH360EM25L
	—	—	—	—	—	—	5.0	16	-40~85	64-QFP	MC68SEC000FU16-ND	11.10	8.40	7.86	MC68SEC000FU16
	—	—	GPT	SCI, Queued SPI	—	—	5.0	16	-40~85	144-LQFP	MC68331CPV16-ND	15.89	12.02	11.09	MC68331CPV16
	—	—	GPT	SCI, Queued SPI	—	—	5.0	16	-40~85	132-PQFP	MC68331CFC16-ND	16.95	14.81	13.02	MC68331CFC16
	—	—	2-Chan.	UART	—	—	5.0	16	-40~85	132-PQFP	MC68306FC16B-ND	19.07	15.05	14.19	MC68306FC16B
	—	—	—	—	—	—	5.0	16	-40~85	114-PGA	MC68020RC16E-ND	149.45	—	—	MC6802RC16E
	—	—	—	—	—	—	5.0	50	-40~85	206-PGA	MC68060RC50-ND	478.53	—	—	MC68060RC50
	—	—	—	—	—	—	5.0	16	-40~85	132-PQFP	MC68334GCFC16-ND	20.08	15.90	15.00	MC68334GCFC16
	—	—	—	—	—	—	5.0	16	-40~85	132-PQFP	MC68334GFC16-ND	20.08	15.90	15.00	MC68334GFC16
	—	—	2-16 Bit	DUART	—	—	3.3 ~ 5.0	16	-40~85	144-CQFP	MC68340FE16E-ND	43.55	36.28	34.13	MC68340FE16E
	—	—	2-16 Bit	DUART	—	—	3.3 ~ 5.0	25	-40~85	144-CQFP	MC68340FE25E-ND	58.78	48.96	46.06	MC68340FE25E
	—	—	2-16 Bit	DUART	—	—	3.3 ~ 5.0	16	-40~85	144-LQFP	MC68340PV16VE-ND	37.28	28.33	27.55	MC68340PV16VE
	—	—	2-16 Bit	DUART	—	—	3.3 ~ 5.0	16	-40~85	144-QFP	MC68340FT16E-ND	24.91	20.01	18.92	MC68340FT16E
	—	—	2-16 Bit	DUART	—	—	3.3 ~ 5.0	25	-40~85	144-QFP	MC68340FT25E-ND	32.87	26.84	25.45	MC68340FT25E
	—	—	2-16 Bit	DUART	—	—	3.3 ~ 5.0	16	-40~85	144-LQFP	MC68340PV16E-ND	25.47	20.49	19.38	MC68340PV16E
	—	—	2-16 Bit	DUART	—	—	3.3 ~ 5.0	25	-40~85	144-LQFP	MC68340PV25E-ND	34.52	28.26	26.80	MC68340PV25E
	—	—	4-Chan.	SCP,TDM	—	—	3.3 ~ 5.0	25	-40~85	240-FQFP	MC68360CEM25L-ND	62.02	51.66	48.60	MC68360CEM25L

*4-Channel DMA

(Continued)

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32-Bit Microcontrollers (Cont.)

RAM (Bytes)	SRAM (Bytes)	Flash (Bytes)	Timer	Serial	A/D	PWM	Operating Voltage (V)	Oper. Freq. (MHz)	Temp. (°C)	Package	Digi-Key Part No.	Price Each 1	25	100	Freescale Part No.
	—	—	4-Chan.	SCP, TDM	—	—	3.3 ~ 5.0	25	-40~85	240-PQFP	MC68360EM25K-ND	54.66	45.78	43.56	MC68360EM25K
	—	—	4-Chan.	SCP, TDM	—	—	3.3 ~ 5.0	25	-40~85	240-PQFP	MC68360EM25L-ND	54.66	45.78	43.56	MC68360EM25L
	—	—	4-Chan.	SCP, TDM	—	—	3.3 ~ 5.0	25	-40~85	240-PQFP	MC68360EM25VL-ND	64.94	54.79	52.18	MC68360EM25VL
	—	—	4-Chan.	SCP, TDM	—	—	3.3 ~ 5.0	33	-40~85	240-FQFP	MC68360EM33L-ND	62.02	51.66	48.60	MC68360EM33L
	—	—	4-Chan.	SCP, TDM	—	—	3.3 ~ 5.0	25	-40~85	357-PBGA	MC68360ZP25L-ND	56.25	46.85	44.08	MC68360ZP25L
	—	—	4-Chan.	SCP,TDM	—	—	3.3 ~ 5.0	25	-40~85	357-PBGA	MC68360ZP25VL-ND	67.81	54.91	53.13	MC68360ZP25VL
	256	—	2-Chan.	UART	—	—	5.0	25	-40~85	100-QFP	MC68EC020FG25-ND	26.63	21.48	20.33	MC68EC020FG25
—	512	—	—	—	—	—	5.0	25	-40~85	132-CQFP	MC68EC030FE25C-ND	40.30	33.27	31.59	MC68EC030FE25C
	512	—	—	—	—	—	5.0	40	0~70	132-CQFP	MC68EC030FE40C-ND	54.39	45.55	43.33	MC68EC030FE40C
	—	—	4- Chan.	SCP, TDM	—	—	3.3 ~ 5.0	25	-40~85	240-FQFP	MC68EN360CEM25L-ND	70.04	56.71	54.88	MC68EN360CEM25L
	—	—	4- Chan.	SCP, TDM	—	—	3.3 ~ 5.0	25	-40~85	240-FQFP	MC68EN360EM25L-ND	61.80	52.04	49.54	MC68EN360EM25L
	—	—	4- Chan.	SCP, TDM	—	—	3.3 ~ 5.0	25	-40~85	240-FQFP	MC68EN360EM25VL-ND	72.02	61.01	58.14	MC68EN360EM25VL
	—	—	4-Chan.	SCP, TDM	—	—	3.3 ~ 5.0	25	-40~85	240-PGA	MC68EN360RC25K-ND	133.62	—	—	MC68EN360RC25K
	—	—	4- Chan.	SCP, TDM	—	—	3.3 ~ 5.0	25	-40~85	357-PBGA	MC68EN360ZP25L-ND	63.62	52.99	49.86	MC68EN360ZP25L
	—	—	4-Chan.	SCP, TDM	—	—	3.3 ~ 5.0	25	-40~85	144-TQFP	MC68EN360ZP25VL-ND	71.45	60.51	57.66	MC68EN360ZP25VL
	—	—	—	—	—	—	5.0	16	-40~85	68-PLCC	MC68HC000FN16-ND	12.28	9.37	8.79	MC68HC000FN16
	—	—	—	—	—	—	5.0	16	-40~85	68-PLCC	MC68HC000FN16TR-ND		2120.75/250		MC68HC000FN16
i.MX™ Processors															
32K	—	—	2-32 Bit	IIC, SPI, UART, USB	4-Ch., 9-Bit	4	2.7-3.3	200	-40~85	256-PBGA	MC9328MX1DVH20-ND	27.41	21.50	20.25	MC9328MX1DVH20
	—	—	2-32 Bit	IIC, SPI, UART, USB	4-Ch., 9-Bit	4	2.7-3.3	200	-40~85	256-PBGA	MC9328MX1VH20-ND	27.41	21.50	20.25	MC9328MX1VH20

*4-Channel DMA

32-Bit Development Tools

Device Numbers	Series	Digi-Key Part No.	Price Each	Freescale Part No.
MCF5206	ColdFire™	M5206AN-ND	508.73	M5206AN
MCF5307	ColdFire	M5307C3-ND	609.41	M5307C3
MCF5280/81/82	ColdFire	M5282LITE-ND	220.39	M5282LITE
MCF5280/81/82	ColdFire	M5282LITEKIT-ND	291.72	M5282LITEKIT
MCF523X	ColdFire	M523XEVB-ND	785.76	M523XEVB
MCF523X	ColdFire	M5235BCC-ND	203.49	M5235BCC
MCF523X	ColdFire	M5235BCCKIT-ND	282.63	M5235BCCKIT
MCF5270/71	ColdFire	M5271EVB-ND	733.76	M5271EVB
MCF5274/75	ColdFire	M5275EVB-ND	733.76	M5275EVB
MCF547X	ColdFire	M5475EVB-ND	960.93	M5475EVB
MCF548X	ColdFire	M5485EVB-ND	960.93	M5485EVB
MPC555	PowerPC™	MPC555CME-ND	734.83	MPC555CME
MPC561/62/63/64	PowerPC	MPC564EVB-ND	1011.86	MPC564EVB
MPC565/66	PowerPC	MPC566EVB-ND	1011.86	MPC566EVB
MMC2107	M-CORE™	MMCEVB2107-ND	508.73	MMCEVB2107

Flash Digital Signal Processors

Prog. Flash (16-Bit)	Prog. RAM (16-Bit)	Flash (Data) (16-Bit)	RAM (Data) (16-Bit)	Boot Flash (16-Bit)	Timer	I/O	Serial	A/D	PWM	Operating Other Features	Bus Voltage (V)	Freq. (MHz)	Package	Digi-Key Part No.	Price Each 1	25	100	Freescale Part No.
8K	1K	2K	1K	2K	2 Quadrature Timer Modules	11	SPI, SCI	Dual, 4-Input, 12-Bit	6-Ch.	Internal Oscillator	3.3	80	48-LQFP	DSP56F801FA80-ND	11.39	8.62	7.95	DSP56F801FA80
31.5K	0.5K	4K	2K	2K	4 Quadrature Timer Modules	16	SPI, SCI	Dual, 4-Input, 12-Bit	6-Ch.	CAN, Quad Decoder	3.3	80	100-LQFP	DSP56F803BU80-ND	18.38	13.91	12.82	DSP56F803BU80
31.5K	0.5K	4K	2K	2K	4 Quadrature Timer Modules	32	SPI, 2 SCI	Dual, 4-Input, 12-Bit	Two 6-Ch.	CAN, 2 Quad Decoder Modules	3.3	80	144-LQFP	DSP56F805FV80-ND	17.76	13.94	13.13	DSP56F805FV80
31.5K	0.5K	2K	4K	2K	1 Quadrature Timer Module, 1 TOD	16 Dedicated 30 Shared	2 SPI, 2 SCI, SSI	—	—	—	Dual Power Supply, 3.3 and 2.5	80	100-LQFP	DSP56F826BU80-ND	17.10	12.94	11.93	DSP56F826BU80
60K	2K	8K	4K	2K	4 Quadrature Timer Modules	32	SPI, 2 SCI	Quad, 4-Input, 12-Bit	Two 6-Ch.	CAN, 2 Quad Decoder Modules	3.3	80	160-LQFP	DSP56F807PY80-ND	21.12	16.57	15.61	DSP56F807PY80
60K	2K	8K	4K	2K	4 Quadrature Timer Modules	32	SPI, 2 SCI	Quad, 4-Input, 12-Bit	Two 6-Ch.	CAN, 2 Quad Decoder Modules	3.3	80	160-BGA	DSP56F807VF80-ND	24.14	18.94	17.84	DSP56F807VF80
32K	4K	8K	8K	8K	8-Ch.	27	SCI, SPI FlexCan	8-Ch., 12-Bit	6-Ch.	PLL, OnCE	3.3	60	64-LQPF	MC56F8323VFB60-ND	17.77	13.44	12.39	MC56F8323VFB60

Digital Signal Processors — DSP56300 Core

On Chip RAM (24-Bit)	Bootstrap ROM (24-Bit)	Timer	I/O	Serial	Other Features	Operating Voltage (V)	Bus Frequency (MHz)	Package	Digi-Key Part No.	Price Each 1	25	100	Freescale Part No.
8K	3K	3	42	2-ESSI	DMA, JTAG	3.3	80	208-TQFP	DSP56301PW80-ND	51.44	42.84	40.31	DSP56301PW80
8K	3K	3	42	2-ESSI, SCI	PCI, ISA, JTAG	3.3	100	208-LQFP	DSP56301PW100-ND	54.49	45.38	42.70	DSP56301PW100
8K	3K	3	42	2-ESSI, SCI	PCI, ISA, JTAG	3.3	100	252-BGA	DSP56301VF100-ND	54.49	45.38	42.70	DSP56301VF100
64K	192	3	34	2-ESSI, SCI	DMA, JTAG	1.8/3.3	160	196-BGA	XC56L307VF160-ND	40.89	34.06	32.05	XC56L307VF160
128K	192	3	34	2-ESSI	DMA, JTAG	3.3	100	196-BGA	DSP56303VF100-ND	30.11	23.62	22.25	DSP56303VF100
128K	192	3	42	2-ESSI, SCI	DMA, JTAG	1.8/3.3	150	196-BGA	DSP56311VF150-ND	53.43	44.50	41.87	DSP56311VF150
128K	192	3	34	2-ESSI, SCI	DMA, JTAG	3.3	100	196-BGA	XC56309VF100A-ND	42.21	35.16	33.08	XC56309VF100A

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DSP Bit Development Tools

B

MC56F8323EVM Kit

The MC56F8323EVM is a low-cost kit that contains everything you need to quickly evaluate the features and capabilities of the MC56F8322 and MC56F8323 hybrid controller silicon and tools.

Kit Contents:

• MC56F8323EVM board • Installation guide • Switch mode power supply (12 Volt) • Parallel cable • CodeWarrior™ • Development studio for 56800/E special edition

MC56F8323EVM-ND **$337.95**

DSP56303EVM Kit

The DSP56303 Evaluation Module is designed as a low-cost platform for developing real-time software and hardware products to support applications in wireless, telecommunications and multimedia products using multi-line voice/date/fax processing, videoconferencing, audio applications, control and general digital signal processing.

PC-compatible computer (90MHz or higher) running Windows 95 or NT4 with an RS-232 serial port. 12 Mbytes RAM, 3-1/2 inch diskette drive, CD-ROM drive, hard drive with 20 Mbytes of free disk space. Power supply 7-9 V AC or DC 500 mA with 2.1 mm coaxial connector, (not included) (recommended Digi-Key part number T353-P5P-ND).

Kit Contents:

• DSP56303EVM board • DSP56300 literature • Suite56 for Freescale DSP 563xx • Freescale The DSP56300 Family Documentation • Domain Technologies Debugger for DSP563xxEVM

DSP56303EVM-ND **$282.63**

DSP56F800DEMO Kit

The 56F800 Demonstration Board is used to demonstrate the abilities of the 56F800 family and to provide a hardware tool allowing the development of applications that use the 56F800 devices. The DSP56F800DEMO Kit is a low cost kit that contains everything you need to quickly evaluate the features and capabilities of the DSP56F800 silicon and tools. It also provides an excellent cost effective vehicle for hardware and software development. The DSP56F800DEMO Kit is targeted for use on PC Compatible systems running Windows 95, Windows 98 and Windows NT 4.0.

Kit Contents: • Demo board • Parallel cable • Complimentary CodeWarrior™ license, 8K word program memory limit • SDK CD • Instructions for kit • Training CD • US power supply

DSP56F800DEMO-ND **$56.47**

DSP56F801EVM Kit

The DSP56F801EVM Kit is a low cost kit that contains everything you need to quickly evaluate the features and capabilities of the DSP56F801 silicon and tools. It can be used standalone or in conjunction with our broad range of modular motion control development hardware. The DSP56F801EVM Kit is targeted for use on PC Compatible systems running Windows 95, Windows 98 and Windows NT 4.0.

Kit Contents: • DSP56F801EVM Installation Guide • DSP56F801 Evaluation Module Board • 12 Volt universal switching mode power supply • IEEE 1284 parallel port cable DB25 male to DB25 female • Metrowerks CodeWarrior™ for Freescale DSP evaluation CD-ROM (30 day) • Embedded Software Development Kit (SDK) CD-ROM

DSP56F801EVM-ND **$338.09**

DSP56F803EVM Kit

The DSP56F803EVM Kit is a low cost kit that contains everything you need to quickly evaluate the features and capabilities of the DSP56F803 silicon and tools. It can be used standalone or in conjunction with our broad range of modular motion control development hardware. The DSP56F803EVM Kit is targeted for use on PC Compatible systems running Windows 95, Windows 98 and Windows NT 4.0.

Kit Contents: • DSP56F803EVM Installation Guide • DSP56F803 Evaluation Module Board • 12 Volt universal switching mode power supply • IEEE 1284 parallel port cable DB25 male to DB25 female • Metrowerks CodeWarrior™ for Freescale DSP evaluation CD-ROM (30 day) • Embedded Software Development Kit (SDK) CD-ROM

DSP56F803EVM-ND **$337.82**

DSP56F805EVM Kit

The DSP56F805EVM Kit is a low cost kit that contains everything you need to quickly evaluate the features and capabilities of the DSP56F805 silicon and tools. It can be used standalone or in conjunction with our broad range of modular motion control development hardware. This kit is targeted for use on PC Compatible systems running Windows 95, Windows 98 and Windows NT 4.0.

Kit Contents: • DSP56F805EVM Installation Guide and DSP56F805 Evaluation Module Board • 12 Volt universal switching mode power supply • IEEE 1284 parallel port cable DB25 male to DB25 female • Metrowerks CodeWarrior™ for Freescale DSP evaluation CD-ROM (30 day) • Embedded Software Development Kit (SDK) CD-ROM

DSP56F805EVM-ND **$337.95**

DSP56F807EVM Kit

The DSP56F807EVM Kit is a low cost kit that contains everything you need to quickly evaluate the features and capabilities of the DSP56F807 silicon and tools. It can be used standalone or in conjunction with our broad range of modular motion control development hardware. This kit is targeted for use on PC Compatible systems running Windows 95, Windows 98 and Windows NT 4.0.

Kit Contents: • DSP56F807EVM Installation Guide and DSP56F807 Evaluation Module Board • 12 Volt universal switching mode power supply • IEEE 1284 parallel port cable DB25 male to DB25 female • Metrowerks CodeWarrior™ for Freescale DSP evaluation CD-ROM (30 day) • Embedded Software Development Kit (SDK) CD-ROM

DSP56F807EVM-ND **$338.09**

DSP56309EVM Kit

The DSP56309 Evaluation Module (DSP56309EVM) is a low-cost platform for developing real-time software and hardware products to support a new generation of wireless, telecommunications and multimedia applications. The DSP56309EVM targets applications requiring a large amount of on-chip memory, such as wireless infrastructure applications. PC compatible computer (Pentium-90 MHz or higher) running Windows 95 (or higher) with an RS-232 serial port. Requires Power supply 7-9 V DC, 500mA, (not included) (recommended Digi-Key part number T353-P5P-ND).

Kit Contents:

• DSP56309EVM Board • GUI Debugger Software Disk • Assembler Linker-Test files disk • DSP56309EVM User's Manual and Other Documentation.

DSP56309EVM-ND **$310.95**

DSP56311EVM Kit

The DSP56311 Evaluation Module (EVM) is used to demonstrate the abilities of the DSP56311 device and provide a hardware tool to allow development of applications that use the DSP56311. The DSP56311EVM includes a DSP56311 device, peripheral expansion connectors, external memory and a voice codec. The peripheral expansion connectors allow for signal monitoring and user-feature expandability.

Kit Contents:

• DSP56311EVM Board • Parallel port extender cable • Plastic standoffs and plastic screws • DSP56300 Tools Software • Device and Tools Documentation • Tutorial/example software • DSP56311EVM Development Tools Release Notes • DSP56311EVM Product Installation Guide

DSP56311EVM-ND **$395.68**

DSP56F826EVM Kit

The DSP56F826EVM Kit is a low cost kit that contains everything you need to quickly evaluate the features and capabilities of the DSP56F826 silicon and tools. It can be used standalone, or in conjunction with our broad range of modular motion control development hardware. This kit is targeted for use on PC Compatible systems running Windows 95, Windows 98 and Windows NT 4.0.

Kit Contents:

• DSP56F826EVM Installation Guide and DSP56F826 Evaluation Module Board • 12 Volt universal switching mode power supply • IEEE 1284 parallel port cable DB25 male to DB25 female • Codec sample rate selector • Peripheral Daughter Card Expansion Connector to allow the user to connect his own SCI, SSI, SPI or GPIO compatible peripheral to the DSP • Memory Daughter Card Expansion Connector to allow the user to connect his own memory or memory device to the DSP • 16-Bit stereo codec interface • Metrowerks CodeWarrior™ for Freescale DSP evaluation CD-ROM (30 day) • Embedded Software Development Kit (SDK) CD-ROM

DSP56F826EVM-ND **$309.88**

DSP56L307EVM Kit

The DSP56L307 Evaluation Module (EVM) is used to demonstrate the abilities of the DSP56L307 and provide a hardware tool allowing the development of applications that use the DSP56L307. It is an evaluation module board that includes a DSP56L307 part, peripheral expansion connectors, external memory and a voice codec. The peripheral expansion connectors are used for signal monitoring and user-feature expandability. The DSP56L307EVM is used to facilitate the evaluation of various features of the DSP56L307. It can be used to develop real-time software and hardware products based on the DSP56L307. It provides the features necessary for a user to write and debug software, to demonstrate the functionality of that software and to be able to interface with the customer's application specific device(s). The DSP56L307EVM is flexible enough to allow the user to fully exploit the features of the DSP56L307.

Kit Contents:

• DS56L307EVM board • Parallel port extender cable • Plastic standoffs and plastic screws • Power supply, 12V, 1.2 Amps • Suite56 Software Development Tools CD-ROM • Documentation CD-ROM

DSP56L307EVM-ND **$452.20**

MC56F8300DSK Kit

The 56F8300 Developers Start Kit brings demonstration, evaluation and development capabilities to the 56F8300 series of hybrid controllers. This comprehensive kit includes a demonstration board that utilizes the 60 MIPS 56F8323 hybrid controller with on-chip oscillator to illustrate the enhanced capabilities of the 56F8300 series. It also features a built-in JTAG-to-parallel port command converter and comes with CodeWarrior™ Development Studio for 56800/E with Processor Expert technology. This multi-tiered tool allows development, compiling, linking and debugging applications with a complimentary permanent license (limited to 16 KB).

Kit Contents:

• MC56F8300DSK Board • Parallel cable, DB25, M/F • Universal 9VDC power supply • CodeWarrior™ CD for Freescale MC56F8300DSK • Software, training and documentation CD • Pre-programmed sample applications

MC56F8300DSK-ND **$79.00**

NEW! CodeWarrior™ Software

This industry-leading Integrated Development Environment (IDE) enables the engineer to generate highly optimized, ANSI-Compliant C and Assembly code.

Features:

• Processor Expert generator for on-chip peripherals • Full Chip simulation • Includes assembler, linker, debugger and flash programmer

License Type	Compiler Code Size	Digi-Key Part No.	Price Each	Freescale Part No.
Node	Unlimited	CWS-H08-STDED-CX-ND	3184.02	CWS-H08-STDED-CX
Node	32K	CWS-H08-C32K-CX-ND	658.35	CWS-H08-C32K-CX
Node	64K	CWS-H08-C64K-CX-ND	1323.35	CWS-H08-C64K-CX
Node	Unlimited	CWS-H12-STDED-CX-ND	3982.02	CWS-H12-STDED-CX

CMOS Image Sensors

Specifications	KAC-9618	KAC-9619	KAC-9628	KAC-9630	KAC-9637	KAC-9638	KAC-9647	KAC-9648
Array Format Total (H x V) Active	664 x 504 648 x 488	664 x 504 648 x 488	664 x 504 648 x 488	128 x 101 128 x 98	672 x 488 648 x 488	1312 x 1032 1288 x 1032	672 x 488 648 x 488	1312 x 1032 1288 x 1032
Effective Image Area Total (H x V in mm) Total	4.98 x 3.78 4.86 x 3.66	4.98 x 3.78 4.86 x 3.66	4.98 x 3.78 4.86 x 3.66	2.56 x 2.00 2.36 x 1.92	2.93 x 4.03 2.93 x 3.89	6.30 x 7.83 6.27 x 7.81	2.93 x 4.03 2.93 x 3.89	6.30 x 7.83 6.27 x 7.81
Optical Format (Inch)	1/3	1/3	1/3	1/5	1/4	1/2	1/4	1/2
Pixel Size (µm)	7.5 x 7.5	7.5 x 7.5	7.5 x 7.5	20 x 20	6.0 x 6.0	6.0 x 6.0	6.0 x 6.0	6.0 x 6.0
Video Outputs (Bit Digital)	8, 10 and 12	8, 10 and 12	8, 10 and 12	8	8 and 10	8 and 10	8 and 10	8 and 10
Frame Rate (Frames per second)	30	30	30	580	68	18	68	18
Dynamic Range (dB linear mode) (dB non-linear mode)	62 110	62 110	62 110	48 —	57 —	57 —	57 —	57 —
Electronic Shutter	Rolling Reset	Rolling Reset	Rolling Reset	Global Reset	Rolling Reset	Rolling Reset	Rolling Reset	Rolling Reset
FPN (%)	0.1	0.1	0.1	0.5	0.5	0.5	0.5	0.5
PRNU (%)	1.5	1.5	1.5	1.3	1.7	1.7	1.7	1.7
Sensitivity (V/lux.s)	5	5	2.7	22	2.4	2.4	2.5	2.5
Quantum Efficiency (%)	27	27	27	—	—	—	—	—
Color Mosaic	—	—	Bayer Pattern	—	—	—	Bayer Pattern	Bayer Pattern
Fill Factor (%)	47	47	47	47	49	49	49	49
Package	48 CLCC	48 CLCC	48 CLCC	48 CLCC	32 CLCC	48 CLCC	32 CLCC	48 CLCC
Single Supply (V ±10%)	3.3	3.3	3.3	3.3	3.0	3.0	3.0	3.0
Power Consumption (mW)	120	120	120	100	130	150	130	150
Operating Temperature	-40°C ~ 85°C	-40°C ~ 85°C	-40°C ~ 85°C	-40°C ~ 85°C	-10°C ~ 50°C	-10°C ~ 50°C	-10°C ~ 50°C	-10°C ~ 50°C

Sensors

Digi-Key Part No.	Price Each 1	25	100
KAC-9618-ND	25.05	23.38	21.71
KAC-9619-ND	26.25	24.50	22.75
KAC-9628-ND	26.25	24.50	22.75
KAC-9630-ND	13.95	11.96	10.61
KAC-9637-ND	14.66	13.68	12.71
KAC-9638-ND	27.60	25.76	23.92
KAC-9647-ND	21.15	19.74	18.33
KAC-9648-ND	35.25	32.90	30.55

Sensor Head Boards

A small PCB that houses the sensor together with all necessary discrete components. Either a C-Mount lens or an M12 lens can be mounted onto the head board. All head boards are compatible with the evaluation kit.

Note: Head Boards are not included with Evaluation Kit

KAC-9618/HDBRD-ND **$270.00**
KAC-9619/HDBRD-ND **$270.00**
KAC-9628/HDBRD-ND **$270.00**
KAC-9630/HDBRD-ND **$270.00**
KAC-9637/HDBRD-ND **$270.00**
KAC-9638/HDBRD-ND **$270.00**
KAC-9647/HDBRD-ND **$270.00**
KAC-9648/HDBRD-ND **$270.00**

NEW! Sensor Lens Kits

1/5" lens kit for the KAC-9630 image sensor includes 2 lenses (single element plastic lens and low profile single element lens).

3F5394-ND **$105.00**

1/4" lens kit for the KAC-9637 and 9647 image sensors includes 4 lenses (single element low profile lens, three and four element hybrid lens, four element low profile lens).

3F5395-ND **$105.00**

1/3" lens kit for the KAC-9618, 9619 and 9628 image sensors includes 4 lenses (one, two and three element plastic lens and a four element glass lens).

3F5396-ND **$105.00**

1/2" lens kit for the KAC-9638 and 9648 image sensors includes 2 lenses (four element low profile lens and five element glass lens).

3F5397-ND **$105.00**

Sensor Evaluation Kit

This software/hardware solution is designed to give the system designer a complete raw data evaluation toolset. It allows the system designer to evaluate the performance of the imager and explore its many built-in features. A standard PC monitor can be directly connected to the system, enabling the display of full resolution video at 30 frames per second. Snapshots of any scene can be taken and the raw data of the captured image can be downloaded to a PC through the parallel port. Also included is SNAPS image processing software, which can be used to view and apply different image processing algorithms to the raw data of a captured image.

KAC-96XXEVAL-KIT-ND **Kit Contents:** • Dual-board base • C-mount block • C-mount lens • Power supply • Cables **$2992.50**

NEW! Image Sensor Products

The Imaging Division offers a wide choice of CMOS Imaging solutions, covering both sensors and companion processors. Our combination of high performance CMOS image sensors with a flexible range of imaging digital signal processors ensures solutions for markets as diverse as mobile communications, data capture, biometric and security.

Image sensor products are color and monochrome, with a resolution range from VGA to 2 megapixels for applications such as digital still-cameras, web cams, video and cell phones, toys and security. Our sensors have a 2-wire I²C serial interface to control and set up the device. The I²C register map includes programmable parameters such as device status, configuration, exposure, video timing and audio set up. Exposure and gain control over a wide range of lighting conditions as well as black level calibration ensure a consistent picture quality.

Color Type	Package Size	MP	Includes Lens	Digi-Key Part No.	Price Each 1	10	100	STMicroelectronics Part No.
				VGA 640 x 480				
Mono	CLCC 36	—	No	497-3883-ND		876.75/150		VV6501C001
Color	SmOP 1.5	.33	Yes	497-3884-1-ND*	21.00	18.00	15.96	VS6502V015/T2
				497-3884-2-ND†		26676.00/1,800		VS6502V015/T2
				497-3885-1-ND*	19.25	16.50	14.63	VS6552V015/T2
				497-3885-2-ND†		24453.00/1,800		VS6552V015/T2
Color	7x7mm	.33	Yes	497-4131-ND	18.00	16.65	12.60	VS6524P02S
				1MP/2MP				
Color	SmOP 2.0	1	Yes	497-3894-1-ND*	21.88	18.75	16.63	VS6650S02F/T2
Mono	LCC48	2	No	497-3900-ND	19.25	16.50	14.63	VC5700V048
Color	LCC48	2	No	497-3899-ND	21.00	18.00	15.96	VC6700V048

Cut Tape Pricing †Tape and Reel Pricing

NEW! Evaluation/Development Kits

ST products can be evaluated with evaluation boards, daughter boards and reference design kits. Please select from the following menu of other evaluation boards and tools for imaging products.

Included Camera or Daughter Card	Companion Processor	Interfaces	Digi-Key Part No.	Price Each	STMicroelectronics Part No.
		Evaluation/Development Kits			
Daughter Card	STV0676	Full Development Kit	497-3888-ND	487.50	STV-676-E01
Camera/VS6552V015	STV0974	Full Development Kit	497-3890-ND	487.50	STV-974/552S-E01
Camera/VS6650	STV0976	Full Development Kit	497-3896-ND	487.50	MOB-976/650-E01
—	—	USB 2.0 Camera	497-3902-ND	487.50	STV-USB2-M02
		Daughter Cards			
Camera/VC6700	—	For STV-USB2-M02	497-3903-ND	104.00	STV-6700-D02
Camera/VC5700	—	For STV-USB2-M02	497-3904-ND	104.00	STV-5700-D02
Camera/VC6502	—	For STV0674/0676	497-3889-ND	104.00	STV-6502V/F-D01
		Demonstration Kits			
Camera/VS6552V015	STV0974	USB 2.0 WinXP Demo Kit	497-3891-ND	130.00	STV-974/552S-R01
Camera/VS6650	STV0974	Demo Kit	497-3897-ND	130.00	MOB-976/650-D01
Camera/VS6524	—	Demo Kit	497-4130-ND	130.00	MOB-524-D01
		Reference Design/Demo Kit			
Camera/VS6502V015	STV0676	USB Web Cam Board	497-3892-ND	104.00	STV-676/502S-R01
		Other Kits			
Camera/VS6650	STV0974	Sub-assembly Plug-in Pcb for Quick Prototypes	497-3898-ND	97.50	MOB-976/650-P01

NEW! Imaging Digital Signal Processors

The flexible, scalable Imaging Digital Signal Processors are designed for use with CIF, VGA and 1.0 megapixel CMOS image sensors from STMicroelectronics for which they provide full exposure, gain and mode control as well as color processing. The companion processors are all equipped with a power saving stand-by mode to maintain memory content and low power consumption.

For Camera	Applications	Digi-Key Part No.	Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Size	Pricing	STMicroelectronics Part No.
		Co-Processors							
VV6501C001, VS6502V015/T2	USB PC Camera, Embedded Applications	497-3886-ND	7.91	6.78	6.02	—	—	—	STV0676E
VS6552V015/T2 (Required)	Embedded Applications	497-3887-1-ND	6.23	5.70	4.50	497-3887-2-ND	2,400	3455.00/M	STV0974E/TR
VS6650S02F/T2 (Required)	Full Image Processing with Parallel Digital Output	497-3895-1-ND	6.33	5.78	4.57	497-3895-2-ND	2,400	3506.00/M	STV0976/TR
		Accessory							
Required Socket for VS6552V015/T2 and VS6650S02F/T2 Lensed Sensors		497-3893-1-ND	1.43	1.24	.95	497-3893-2-ND	600	378.60	XS0015/TR

Analog Devices Line Card

Amplifiers and Comparators
- Buffer Amplifiers
- Comparators
- Current Sense Amplifiers
- Differential Amplifiers
- Fiber Optic/Limiting Amplifiers
- Fiber Optic Transimpedance Amplifiers
- Gain Control Amplifiers
- Instrumentation Amplifiers
- Isolation Amplifiers
- LCD Drivers
- Line Drivers
- Operational Amplifiers (Op Amps)
- Variable Gain Amplifiers

Analog-to-Digital Converters
- Audio A/D Converters
- Energy Measurement
- Synchro/Resolver-to-Digital Converters
- Temperature-to-Digital Converters
- Video Decoders
- Voltage-to-Frequency Converters

Digital-to-Analog Converters
- Audio D/A Converters
- Digital Potentiometers
- Video Encoders

Embedded Processing & DSP
- Blackfin® Processor
- TigerSHARC® Processor
- SHARC® Processor
- ADSP-21xx Processor
- Development Tools

Analog Microcontrollers

MEMS and Sensors
- iMEMS® Accelerometers
- iMEMS Gyroscopes
- Analog Temperature Sensors
- Digital Temperature Sensors

RF/IF Components
- Baseband Processing
- CATV Amps/Splitters
- Clock and Data Recovery/Retiming
- Clock Distribution
- Differential Amplifiers
- Digital Crosspoint Switches
- Direct Digital Synthesis (DDS)
- Fiber Optic EA Modulator Drivers
- Fiber Optic Laser Drivers
- Fiber Optic/Limiting Amplifiers
- Fiber Optic Transimpedance Amplifiers
- Gain Blocks
- Log Amps/Detectors
- Mixers/Multipliers
- Modulators/Demodulators
- PLL Synthesizers/VCOs
- RF/IF Transceivers
- RF Switches
- RMS Detectors
- Short Range Transmitters
- Variable Gain Amplifiers

Switches/Multiplexers
- Analog Crosspoint Switches
- Analog Switches
- Digital Crosspoint Switches
- Digital Switches
- Multiplexers (Muxes)
- RF Switches

Interface
- Isolators
- Level Translators
- Line Drivers
- RS-232
- RS-485
- Transceivers

Power & Thermal Management
- Analog Temperature Sensors
- Battery Chargers
- Charge Pumps
- Digital Temperature Sensors
- GSM Power Controllers
- Hot Swap Controllers
- LED Drivers
- Linear Regulators
- MOSFET Drivers
- Power Supply Controllers
- Power Supply Sequencers
- Supervisory
- Switching Controllers
- Switching Regulators
- System Monitoring Products
- Temperature Setpoint Controllers

References
- Voltage References

Other Linear
- Analog Multipliers/Dividers
- Hall Effect Sensors
- LVDT Sensor Amplifiers
- Matched Transistors
- RMS-to-DC Converters
- Sample/Track-and-Hold Amplifiers

Audio/Video Products
- Audio A/D Converters
- Audio CODECs
- Audio D/A Converters
- Audio Signal Processors
- Camera/Camcorder Analog Front Ends
- Display Interfaces
- Sample Rate Converters
- Video CODECs
- Video Compression
- Video Decoders
- Video Encoders

Broadband Products
- Broadband Amplifiers
- DSL Chipsets

Wireless Products
- Cellular Terminal Chipsets
- DDS Modulators
- Digital Up/Down Converters

Other
- Automatic Test Equipment
- IOS Subsystems
- Military/Aerospace
- Modems

For these products and more visit our website

ANALOG DEVICES

www.analog.com

ANALOG DEVICES

Convergent processing **like never before.**

STAMP uClinux Kernel Board Support Package for Analog Devices ADSP-BF533 Blackfin Processor

The STAMP uClinux Kernel Board Support Package (BSP) provides developers with a cost effective environment to develop embedded systems with the ADSP-BF533 Blackfin Processor.

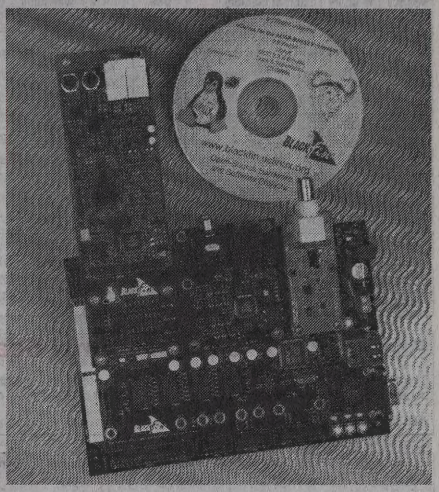
The BSP includes an ADSP-BF533 STAMP development board, a recent copy of the open source development tools and the uClinux Kernel. The STAMP board has been specifically designed to support the development and porting of open source uClinux applications and includes the full complement of memory along with serial and network interfaces.

The BSP also includes a CD with the open source development tools, documentation, board schematics, Gerbers, and layout files. There are a wide variety of daughter boards available to plug into this board that add interface functions such as audio, video and analog input or output.

For the most recent versions of tools and documentation, visit the uClinux for Blackfin Processor web site: http://blackfin.uclinux.org.

This web site is the central repository for all Blackfin Processor open source projects and hosts several projects based on the STAMP and daughter boards, such as a networked audio media node and a networked oscilloscope.

Part Number: ADDS-BF533-STAMP



BLACKfin®

The Blackfin Processor is Supported by Analog Devices Line of Robust and Flexible Development Tools

VisualDSP++®

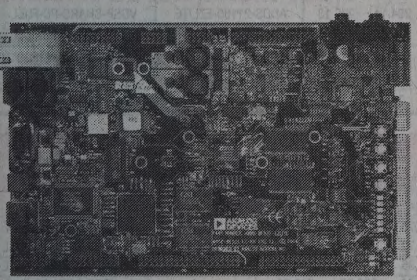
VisualDSP++ delivers efficient project management, enabling programmers to move easily between editing, building, and debugging within a single interface.

Key features include:

- Optimizing C/C++ compiler
- Advanced plotting tools
- Embedded OS support (VDK)
- Award-winning statistical profiling
- TCP/IP and USB support
- Free software upgrades
- Technical support

EZ-KIT Lite® Evaluation Platform

A cost-effective method for initial evaluation and for learning more about ADI hardware and software development and prototype applications.



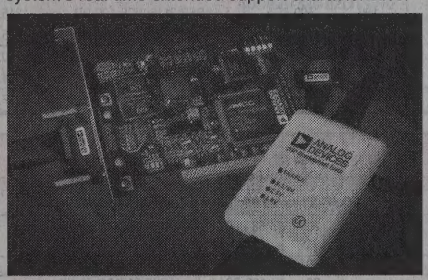
EZ-Extender™

A variety of Blackfin EZ-Extender daughter boards are available that allow developers to connect to a number of Analog Devices High Speed Converter (HSC) evaluation boards, camera evaluation boards, and external displays. Some of the EZ-Extenders contain a USB 2.0 interface and 10/100 Ethernet MAC and advanced audio and video circuitry.

Emulators

The High Performance (HP) PCI-based emulator offers seamless exchange of real-time data from the host to the target application. USB-based and High Performance (HP) USB-based emulators are easy, portable, non-intrusive, target-based debugging solutions.

The HP USB-based emulator also supports the Background Telemetry Channel (BTC), a non-intrusive method for exchanging data between the host and target application without affecting the target system's real-time extended support characteristics.



Green Hills® Software (GHS)

Along with Analog Devices, Green Hills Software has developed a multiyear product road map for hardware and software development tools, providing full support for the Blackfin Processor.

These include:

- MULTI® Integrated Development Environment (IDE)
- C, C++, and EC++ compilers
- Green Hills® Probe and Slingshot™ Hardware Debug Devices
- INTEGRITY® Real-Time Operating System
- *velOSity™* Microkernel

From simulation to deployment, GHS technology saves time throughout a project development life cycle with powerful features and an efficient design that eliminates having to learn different tools and user interfaces.

Blackfin Test Integration Toolkit for NI LabVIEW

National Instruments LabVIEW toolkit provides a high level method for easily building test systems and utilities for Blackfin Processor systems.

By integrating testing, engineers can iteratively verify their design throughout the development process.

Early use of the Test Integration Toolkit reduces overall development time and improves the quality of products that use the Blackfin Processor.

ANALOG DEVICES **For more information: www.analog.com/processors**

ANALOG DEVICES Digital Signal Processors

ADI's embedded architectures feature simple yet powerful programming models and are supported by high quality development tools.

Blackfin® Processors: A new breed of embedded media processor designed specifically to meet the computational demands and power constraints of today's embedded audio, video and communications applications. Blackfin Processors combine a 32-bit RISC-like instruction set and dual 16-bit Multiply Accumulate signal processing functionality with the ease-of-use attributes found in general purpose microcontrollers.

TigerSHARC® Processors: This family offers the industry's highest performance per watt and per square inch of board space for the most demanding signal and image processing applications. The TigerSHARC's patented link port technology allows glueless interprocessor communication with arrays of two or more TigerSHARC Processors.

SHARC® DSPs: Using ADI's "Super" Harvard architecture, the SHARC family is optimized enable a variety of real-time embedded signal processing applications and is known as a leade premium audio applications.

ADSP-21xx/2199x and Mixed-Signal DSPs: The ADSP-21xx family architecture is built around a comm instruction set architecture. All family members are code-compatible, fixed-point 16-bit DSPs. In addition, ADSP-2199x family of mixed-signal DSPs provides a single-chip solution with signal processing and 14-bit A mixed signal integration.

B

MMACs Max.	Memory (kBytes)	External Memory Bus	PCI	USB Device	UARTs Timers	Watchdog Timer/RTC	Core Voltage (V) Max.	Clock Speed (MHz)	Package	Digi-Key Part No.	Price Each 1	25	100	Evaluation Platform	Development Software
Blackfin® Processors															
800	52	16-Bit	No	No	Yes	Yes	1.2	400	Mini BGA	ADSP-BF531SBBC400-ND	15.00	14.00	13.00	ADDS-BF533-EZLITE	VDSP-BLKFN-PC-FUL
800	52	16-Bit	No	No	Yes	Yes	1.2	400	169-BGA	ADSP-BF531SBBZ400-ND	19.65	18.34	17.03	ADDS-BF533-EZLITE	VDSP-BLKFN-PC-FUL
800	52	16-Bit	No	No	Yes	Yes	1.2	400	176-LQFP	ADSP-BF531SBST400-ND	16.49	14.85	13.17	ADDS-BF533-EZLITE	VDSP-BLKFN-PC-FUL
800	84	16-Bit	No	No	Yes	Yes	1.2	400	Mini BGA	ADSP-BF532SBBC400-ND	15.20	14.19	13.17	ADDS-BF533-EZLITE	VDSP-BLKFN-PC-FUL
800	84	16-Bit	No	No	Yes	Yes	1.2	400	169-BGA	ADSP-BF532SBBZ400-ND	20.15	18.81	17.46	ADDS-BF533-EZLITE	VDSP-BLKFN-PC-FUL
800	84	16-Bit	No	No	Yes	Yes	1.2	400	176-LQFP	ADSP-BF532SBST400-ND	15.20	14.19	13.17	ADDS-BF533-EZLITE	VDSP-BLKFN-PC-FUL
1000	148	16-Bit	No	No	Yes	Yes	1.4	500	Mini BGA	ADSP-BF533SBBC500-ND	26.22	24.48	22.73	ADDS-BF533-EZLITE	VDSP-BLKFN-PC-FUL
1000	148	16-Bit	No	No	Yes	Yes	1.4	500	169-BGA	ADSP-BF533SBBZ500-ND	30.27	28.26	26.24	ADDS-BF533-EZLITE	VDSP-BLKFN-PC-FUL
1200	148	16-Bit	No	No	Yes	Yes	1.4	600	160-BGA	ADSP-BF533SKBC600-ND	32.30	30.15	27.99	ADDS-BF533-EZLITE	VDSP-BLKFN-PC-FUL
1500	148	16-Bit	No	No	Yes	Yes	1.4	750	Mini BGA	ADSP-BF533SKBC750-ND	112.43	104.93	97.44	ADDS-BF535-EZLITE	VDSP-BLKFN-PC-FUL
700	308	32-Bit	Yes	Yes	Yes	Yes	1.6	300	260-BGA	ADSP-BF535PKB-300-ND	55.50	51.80	48.10	ADDS-BF535-EZLITE	VDSP-BLKFN-PC-FUL
700	308	32-Bit	Yes	Yes	Yes	Yes	1.6	350	260-BGA	ADSP-BF535PKB-350-ND	69.38	64.75	60.13	ADDS-BF533-EZLITE	VDSP-BLKFN-PC-FUL
3000	328	32-Bit	No	No	Yes	Yes/No	1.2	750	297-BGA	ADSP-BF561SBB600-ND ***NEW!***	40.40	37.71	35.01	ADDS-BF561-EZLITE	VDSP-BLKFN-PC-FUL

Blackfin® DSP uClinux Kernel Board Support Package for the ADSP-BF533 Processor

The STAMP includes an ADSP-BF533 development board and a recent copy of the open source development tools (GCC 3.3.x) and the uClinux 2.6.x Kernel. The CD also includes documentation and the boa schematics, Gerbers, and layout files. The latest version of all the tools can be found on the http://blackfin.uclinux.org website.

ADDS-BF533-STAMP-ND **$169.9**

MMACs	On-Chip Memory (M-Bit)	External Memory (M-Bit)	Parallel Bus	Core Voltage / IO (V)	Clock Speed (MHz)	Package	Digi-Key Part No.	Price Each 1	25	100	Evaluation Platform	Development Software
TigerSHARC® Processors												
2000	6	32/64	Yes	1.2/3.3	250	625-BGA	ADSP-TS101SAB1000-ND	304.50	284.20	263.90	ADDS-TS101S-EZLITE	VDSP-TS-PC-FULL
2000	6	32/64	Yes	1.2/3.3	250	484-BGA	ADSP-TS101SAB2000-ND	304.50	284.20	263.90	ADDS-TS101S-EZLITE	VDSP-TS-PC-FULL
2400	6	32/64	Yes	1.2/3.3	300	484-BGA	ADSP-TS101SAB2100-ND	363.00	338.80	314.60	ADDS-TS101S-EZLITE	VDSP-TS-PC-FULL
2400	6	32/64	Yes	1.2/3.3	300	625-BGA	ADSP-TS101SAB1100-ND	363.00	338.80	314.60	ADDS-TS101S-EZLITE	VDSP-TS-PC-FULL

MMACs	MFLOPs	On-Chip SRAM (M-Bit)	On-Chip ROM (M-Bit)	Serial Ports	Link Ports	Core Voltage (V)	Clock Speed (MHz)	Package	Digi-Key Part No.	Price Each 1	25	100	Evaluation Platform	Development Software
SHARC® DSPs														
33	99	4	0	2	6	5	33	240-MQFP	ADSP-21060KS-133-ND	424.05	395.78	367.51	ADDS-21262-EZLITE	VDSP-SHARC-PC-FULL
40	120	4	0	2	6	5	40	240-MQFP	ADSP-21060KS-160-ND	534.83	499.17	463.52	ADDS-21262-EZLITE	VDSP-SHARC-PC-FULL
40	120	4	0	2	6	3.3	40	240-CQFP	ADSP-21060LCW-160-ND	1025.70	957.32	888.94	ADDS-21262-EZLITE	VDSP-SHARC-PC-FULL
40	120	4	0	2	6	3.3	40	240-MQFP	ADSP-21060LKS-160-ND	615.06	574.06	533.06	ADDS-21262-EZLITE	VDSP-SHARC-PC-FULL
40	120	4	0	2	6	3.3	40	225-BGA	ADSP-21060LKB-160-ND	615.06	574.06	533.06	ADDS-21262-EZLITE	VDSP-SHARC-PC-FULL
33	99	1	0	2	0	5	33	240-MQFP	ADSP-21061KS-133-ND	94.59	88.29	81.98	ADDS-21262-EZLITE	VDSP-SHARC-PC-FULL
40	120	1	0	2	0	5	40	240-MQFP	ADSP-21061KS-160-ND	98.24	91.69	85.14	ADDS-21262-EZLITE	VDSP-SHARC-PC-FULL
40	120	1	0	2	0	3.3	40	225-BGA	ADSP-21061LKB-160-ND	74.58	69.61	64.64	ADDS-21262-EZLITE	VDSP-SHARC-PC-FULL
40	120	1	0	2	0	3.3	40	240-MQFP	ADSP-21061LKS-160-ND	63.68	59.43	55.19	ADDS-21262-EZLITE	VDSP-SHARC-PC-FULL
44	132	1	0	2	0	3.3	44	240-MQFP	ADSP-21061LKS-176-ND	74.58	69.61	64.64	ADDS-21262-EZLITE	VDSP-SHARC-PC-FULL
33	99	2	0	2	0	5	33	240-MQFP	ADSP-21062KS-133-ND	170.21	158.86	147.52	ADDS-21262-EZLITE	VDSP-SHARC-PC-FULL
40	120	2	0	2	0	5	40	240-MQFP	ADSP-21062KS-160-ND	194.84	181.85	168.86	ADDS-21262-EZLITE	VDSP-SHARC-PC-FULL
40	120	2	0	2	0	3.3	40	240-MQFP	ADSP-21062LCS-160-ND	276.96	258.50	240.04	ADDS-21262-EZLITE	VDSP-SHARC-PC-FULL
40	120	2	0	2	6	3.3	40	225-BGA	ADSP-21062LKB-160-ND	242.58	226.41	210.24	ADDS-21262-EZLITE	VDSP-SHARC-PC-FULL
40	120	2	0	2	6	3.3	40	240-MQFP	ADSP-21062LKS-160-ND	221.57	206.80	192.03	ADDS-21262-EZLITE	VDSP-SHARC-PC-FULL
60	180	0.5	0	2	0	3.3	60	208-MQFP	ADSP-21065LCS-240-ND	67.50	63.00	58.50	ADDS-21065L-EZLITE	VDSP-SHARC-PC-FULL
60	180	0.5	0	2	0	3.3	66	Mini BGA	ADSP-21065LKCA240-ND	63.75	59.50	55.25	ADDS-21065L-EZLITE	VDSP-SHARC-PC-FULL
66	198	0.5	0	2	0	3.3	66	Mini BGA	ADSP-21065LKCA264-ND	66.30	61.88	57.46	ADDS-21065L-EZLITE	VDSP-SHARC-PC-FULL
60	180	0.5	0	2	0	3.3	66	208-MQFP	ADSP-21065LKS-240-ND	40.50	37.80	35.10	ADDS-21065L-EZLITE	VDSP-SHARC-PC-FULL
66	198	0.5	0	2	0	3.3	66	208-MQFP	ADSP-21065LKS-264-ND	64.50	60.20	55.90	ADDS-21065L-EZLITE	VDSP-SHARC-PC-FULL
160	480	4	0	2	6	2.5	80	400-BGA	ADSP-21160MKB-80-ND	295.35	275.66	255.97	ADDS-21160-EZLITE	VDSP-SHARC-PC-FULL
200	600	4	0	2	6	1.9	100	400-BGA	ADSP-21160NCB-100-ND	315.15	294.14	273.13	ADDS-21160-EZLITE	VDSP-SHARC-PC-FULL
200	600	4	0	2	6	1.9	100	400-BGA	ADSP-21160NKB-100-ND	295.35	275.66	255.97	ADDS-21160-EZLITE	VDSP-SHARC-PC-FULL
200	600	1	0	4	2	1.8	100	225-MBGA	ADSP-21161NCCA100-ND	50.37	47.02	43.66	ADDS-21161N-EZLITE	VDSP-SHARC-PC-FULL
200	600	1	0	4	2	1.8	100	225-MBGA	ADSP-21161NKCA100-ND	41.97	39.18	36.38	ADDS-21161N-EZLITE	VDSP-SHARC-PC-FULL
400	1200	2	4	6	0	1.2	200	144-LQF	ADSP21262SKBCZ200-ND	27.51	25.68	23.85	ADDS-21262-EZLITE	VDSP-SHARC-PC-FULL

Program RAM Words (KWords)	Data RAM Words (KWords)	External Memory Bus (Bits)	Host Port	SPORT	SPI / UART	Timers	Core Voltage (V)	ADC	Clock Speed (MHz)	Package	Digi-Key Part No.	Price Each 1	25	100	Evaluation Platform	Development Software
ADSP-21xx/2199x and Mixed-Signal DSPs																
2	1	24	No	2	No	1	5	—	25	68-PLCC	ADSP-2101BP-100-ND	46.70	43.59	40.47	—	VDSP-21XX-PC-FUL
2	1	24	No	2	No	1	5	—	25	80-PQFP	ADSP-2101BS-100-ND	53.72	50.14	46.56	—	VDSP-21XX-PC-FUL
1	0.5	24	No	1	No	1	5	—	20	68-PLCC	ADSP-2105BP-80-ND	21.36	19.94	18.52	—	VDSP-21XX-PC-FUL
2	1	24	Yes	2	No	1	5	—	20	100-PGA	ADSP-2111BG-80-ND	245.64	229.27	212.89	—	VDSP-21XX-PC-FUL
1	0.5	24	No	2	No	1	5	—	25	68-PLCC	ADSP-2115BP-100-ND	29.78	27.79	25.81	—	VDSP-21XX-PC-FUL
2	2	24	Yes	2	No	1	5	—	33.3	128-PQFP	ADSP-2171BS-133-ND	67.83	63.31	58.79	—	VDSP-21XX-PC-FUL

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Program RAM Words (KWords)	Data RAM Words (KWords)	External Memory Bus (Bits)	Host Port	SPORT	SPI / UART	Timers	Core Voltage (V)	ADC	Clock Speed (MHz)	Package	Digi-Key Part No.	Price Each 1	25	100	Evaluation Platform	Development Software
16	16	24	No	2	No	1	5	—	33.3	128-PQFP	ADSP-2181BS-133-ND	41.84	39.05	36.26	ADDS-2181-EZLITE	VDSP-21XX-PC-FULL
16	16	24	No	2	No	1	5	—	33.3	128-TQFP	ADSP-2181BST-133-ND	46.49	43.39	40.29	ADDS-2181-EZLITE	VDSP-21XX-PC-FULL
16	16	24	No	2	No	1	5	—	33.3	128-PQFP	ADSP-2181KS-133-ND	41.84	39.05	36.26	ADDS-2181-EZLITE	VDSP-21XX-PC-FULL
16	16	24	No	2	No	1	5	—	33.3	128-TQFP	ADSP-2181KST-133-ND	46.49	43.39	40.29	ADDS-2181-EZLITE	VDSP-21XX-PC-FULL
16	16	24	No	2	No	1	5	—	40	128-PQFP	ADSP-2181KS-160-ND	41.84	39.05	36.26	ADDS-2181-EZLITE	VDSP-21XX-PC-FULL
16	16	24	No	2	No	1	5	—	40	128-TQFP	ADSP-2181KST-160-ND	46.49	43.39	40.29	ADDS-2181-EZLITE	VDSP-21XX-PC-FULL
16	16	24	No	2	No	1	3.3	—	28.8	128-LQFP	ADSP-2183BST-115-ND	43.82	40.90	37.98	ADDS-2189M-EZLITE	VDSP-21XX-PC-FULL
16	16	24	No	2	No	1	3.3	—	40	128-LQFP	ADSP-2183BST-160-ND	48.20	44.99	41.77	ADDS-2189M-EZLITE	VDSP-21XX-PC-FULL
16	16	24	No	2	No	1	3.3	—	52	128-LQFP	ADSP-2183KST-210-ND	48.20	44.99	41.77	ADDS-2189M-EZLITE	VDSP-21XX-PC-FULL
4	4	24	No	2	No	1	5	—	40	100-LQFP	ADSP-2184BST-160-ND	16.50	15.40	14.30	ADDS-2189M-EZLITE	VDSP-21XX-PC-FULL
4	4	24	No	2	No	1	3.3	—	40	100-LQFP	ADSP-2184LBST-160-ND	16.50	15.40	14.30	ADDS-2189M-EZLITE	VDSP-21XX-PC-FULL
16	16	24	Yes	2	No	1	5	—	33	100-LQFP	ADSP-2185KSTZ-115-ND	38.04	35.51	32.97	ADDS-2189M-EZLITE	VDSP-21XX-PC-FULL
16	16	24	No	2	No	1	5	—	33.3	100-TQFP	ADSP-2185BST-133-ND	46.01	42.94	39.88	ADDS-2189M-EZLITE	VDSP-21XX-PC-FULL
16	16	24	Yes	2	No	1	5	—	33	100-LQFP	ADSP-2185BSTZ-133-ND	46.01	42.94	39.88	ADDS-2189M-EZLITE	VDSP-21XX-PC-FULL
16	16	24	No	2	Yes	1	5	—	33.3	100-TQFP	ADSP-2185KST-133-ND	41.84	39.05	36.26	ADDS-2189M-EZLITE	VDSP-21XX-PC-FULL
16	16	24	Yes	2	No	1	5	—	33	100-LQFP	ADSP-2185KSTZ-133-ND	41.84	39.05	36.26	ADDS-2189M-EZLITE	VDSP-21XX-PC-FULL
16	16	24	No	2	No	1	3.3	—	33.3	100-LQFP	ADSP-2185LBST-133-ND	43.82	40.90	37.98	ADDS-2189M-EZLITE	VDSP-21XX-PC-FULL
16	16	24	No	2	No	1	3.3	—	40	100-LQFP	ADSP-2185LBST-160-ND	48.20	44.99	41.77	ADDS-2189M-EZLITE	VDSP-21XX-PC-FULL
16	16	24	Yes	2	No	1	2.5	—	66	100-LQFP	ADSP-2185MBST-266-ND	18.98	17.71	16.45	ADDS-2189M-EZLITE	VDSP-21XX-PC-FULL
16	16	24	Yes	2	No	1	2.5	—	75	100-LQFP	ADSP-2185MKST-300-ND	18.98	17.71	16.45	ADDS-2189M-EZLITE	VDSP-21XX-PC-FULL
16	16	24	Yes	2	No	1	1.8	—	80	100-LQFP	ADSP-2185NKST-320-ND	18.57	17.34	16.10	ADDS-2189M-EZLITE	VDSP-21XX-PC-FULL
8	8	24	Yes	2	No	1	5	—	28.8	100-LQFP	ADSP-2186KST-115-ND	28.52	26.62	24.72	ADDS-2189M-EZLITE	VDSP-21XX-PC-FULL
8	8	24	No	2	No	1	5	—	33.3	100-LQFP	ADSP-2186KST-133-ND	31.37	29.28	27.19	ADDS-2189M-EZLITE	VDSP-21XX-PC-FULL
8	8	24	Yes	2	No	1	2.5	—	75	100-LQFP	ADSP-2186MKST-300-ND	16.49	14.85	13.17	ADDS-2189M-EZLITE	VDSP-21XX-PC-FULL
8	8	24	Yes	2	No	1	1.8	—	80	100-LQFP	ADSP-2186NBST-320-ND	15.58	14.03	12.44	ADDS-2189M-EZLITE	VDSP-21XX-PC-FULL
32	32	34	Yes	2	No	1	3.3	—	52	100-TQFP	ADSP-2187LBST-210-ND	70.64	65.93	61.22	ADDS-2189M-EZLITE	VDSP-21XX-PC-FULL
32	32	34	Yes	2	No	1	3.3	—	52	100-TQFP	ADSP-2187LKST-210-ND	64.20	59.92	55.64	ADDS-2189M-EZLITE	VDSP-21XX-PC-FULL
32	32	24	Yes	2	No	1	1.8	—	80	100-LQFP	ADSP-2187NKST-320-ND	33.00	30.80	28.60	ADDS-2189M-EZLITE	VDSP-21XX-PC-FULL
48	56	24	Yes	2	No	1	2.5	—	75	100-LQFP	ADSP-2188MKST-300-ND	52.80	49.28	45.76	ADDS-2189M-EZLITE	VDSP-21XX-PC-FULL
32	48	24	Yes	2	No	1	2.5	—	66	100-LQFP	ADSP-2189MBST-266-ND	43.73	40.81	37.90	ADDS-2189M-EZLITE	VDSP-21XX-PC-FULL
32	48	24	Yes	2	No	1	2.5	—	75	100-LQFP	ADSP-2189MKST-300-ND	43.73	40.81	37.90	ADDS-2189M-EZLITE	VDSP-21XX-PC-FULL
32	48	24	Yes	2	No	1	1.8	—	80	100-LQFP	ADSP-2189NKST-320-ND	41.25	38.50	35.75	ADDS-2189M-EZLITE	VDSP-21XX-PC-FULL
32	32	16	Yes	3	Yes	3	2.5	—	160	144-LQFP	ADSP-2191MKST-160-ND	30.59	28.55	26.51	ADDS-2191-EZLITE	VDSP-21XX-PC-FULL
16	16	16	Yes	3	Yes	3	2.5	—	140	144-LQFP	ADSP-2195MBST-140-ND	25.23	23.55	21.87	ADDS-2191-EZLITE	VDSP-21XX-PC-FULL
16	16	16	Yes	3	Yes	3	2.5	—	160	144-LQFP	ADSP-2195MKST-160-ND	25.23	23.55	21.87	ADDS-2191-EZLITE	VDSP-21XX-PC-FULL
8	8	16	Yes	3	Yes	3	2.5	—	140	144-LQFP	ADSP-2196MBST-140-ND	20.15	18.81	17.46	ADDS-2191-EZLITE	VDSP-21XX-PC-FULL
8	8	16	Yes	3	Yes	3	2.5	—	160	144-LQFP	ADSP-2196MKST-160-ND	20.15	18.81	17.46	ADDS-2191-EZLITE	VDSP-21XX-PC-FULL
4	4	24	Yes	1	Yes	3	2.5	Dual Ch., 14-Bit 20 MSPS	160	176-LQFP	ADSP-21990BST-ND	36.11	33.70	31.30	ADDS-21992-EZLITE	VDSP-21XX-PC-FULL
32	8	24	Yes	1	Yes	3	2.5	Dual Ch., 14-Bit 20 MSPS	160	176-LQFP	ADSP-21991BST-ND	42.29	39.47	36.65	ADDS-21992-EZLITE	VDSP-21XX-PC-FULL
32	16	24	Yes	1	Yes	3	2.5	Dual Ch., 14-Bit 20 MSPS	160	176-LQFP	ADSP-21992BST-ND	46.41	43.32	40.23	ADDS-21992-EZLITE	VDSP-21XX-PC-FULL
32	16	24	Yes	1	Yes	3	2.5	Dual Ch., 14-Bit 20 MSPS	100	176-LQFP	ADSP-21992YST-ND	46.41	43.32	40.23	ADDS-21992-EZLITE	VDSP-21XX-PC-FULL

VisualDSP++™ Integrated Development Environment

VisualDSP++ is an easy to install and easy to use integrated software development and debugging environment that enables efficient management of projects from start to finish from within a single interface. VisualDSP++ supports all Analog Devices processor families.

Contents: • Assembler • Linker • Simulator • C/C++ compiler • Debugger • PROM splitter • Graphical plotting • Expert Linker • Math, DSP and C/C++ runtime library • Integrated development environment • VisualDSP++ Kernel • Statistical Profiling • VisualDSP++ Component Software Engineering ***(Note: ADSP-218x does not have C++ support.)***

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Emulator Development Tools

All emulators require VisualDSP++software for the corresponding processor.

ADDS-218X-ICE2.5V-ND	$2543.63
ADDS-HPPCI-ICE-ND	$5100.00
ADDS-HPUSB-ICE-ND	$4250.00
ADDS-USB-ICE-ND	$1275.00

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ADDS-TS101SEZLITE-ND	$995.00
ADDSTS201SEZLITE-ND	$995.00
ADDS-BF-EZEXT-1-ND Daughter Board for BF533/561 Kit	$195.00

DSP Based Motor Control Applications (ADSP-2100 Family Code Compatible)

ADMC331ADVEVALKIT-ND	$521.40
ADMC401ADVEVALKIT-ND	$521.40

Program RAM	Program ROM	Data RAM	Program FLASH	Voltage Reference	Clock (MHz)	Package	Digi-Key Part No.	Price Each 1	25	100
4K x 24-Bit	2K x 24-Bit	1K x 16-Bit	—	2.5V	25	80-TQFP	ADMC300BST-ND	32.93	30.73	28.54
2K x 24-Bit	2K x 24-Bit	1K x 16-Bit	—	2.0V	26	144-LQFP	ADMC401BST-ND	41.18	38.43	35.69
512 x 24-Bit	4K x 24-Bit	512 x 16-Bit	4K x 24-Bit	2.5V	20	28-DIP	ADMCF326BN-ND	27.12	25.32	23.51
512 x 24-Bit	4K x 24-Bit	512 x 16-Bit	4K x 24-Bit	2.5V	20	28-SOIC	ADMCF326BR-ND	22.31	20.82	19.34
512 x 24-Bit	4K x 24-Bit	512 x 16-Bit	4K x 24-Bit	2.5V	20	28-SOIC	ADMCF328BR-ND	22.31	20.82	19.34
512 x 24-Bit	4K x 24-Bit	512 x 16-Bit	4K x 24-Bit	2.5V	20	64-LQFP	ADMCF340BST-ND	25.77	24.06	22.34
512 x 24-Bit	4K x 24-Bit	512 x 16-Bit	4K x 24-Bit	2.5V	20	28-SOIC	ADMCF341BR-ND	24.56	22.92	21.29

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Features: Precision Analog: • 12-bit to 24-bit ADC resolution • Sample rates up to 1Msps • Flexible ADC input multiplexing • Programmable gain differential inputs • Self-calibration • On-chip 2.5V band gap reference • Single, dual or quad rail-to-rail DAC

Integrated Programmable Peripherals: • 8052 or ARM7 MCU core (up 45 MIPS) • Flash/EE code memory (up to 62k) • Flash/EE-da memory (up to 4k) • RAM (up to 8k) • Flexible SPI, I²C, and UA serial ports • High speed baud rate generator • Multiple PWM outputs

Program Memory (Kbytes)	Flash Data (Bytes)	RAM (Bytes)	I/O	ADC	DAC	PWM (16-Bit)	Timers (16-Bit)	Operating Temperature Range	Package	Digi-Key Part No.	Price Each 1	25	100
8	640	256	32	Dual, 12-Bit	2-Ch., 12-Bit	—	Yes	-40°C ~ 85°C	56-LFCSP	ADUC812BCP-ND	15.71	14.15	12.55
8	640	256	32	1, 12-Bit	2-Ch., 12-Bit	—	Yes	-40°C ~ 85°C	52-MQFP	ADUC812BS-ND	15.71	14.15	12.55
8	640	256	16	1, 12-Bit	2-Ch., 12-Bit	—	Yes	-40°C ~ 125°C	28-TSSOP	ADUC814BRU-ND	10.00	9.00	7.98
8	640	256	16	1, 12-Bit	2-Ch., 12-Bit	—	Yes	-40°C ~ 125°C	28-TSSOP	ADUC814ARU-ND	8.56	7.71	6.84
8	640	256	32	Dual, 16-Bit	1-Ch., 12-Bit	—	Yes	-40°C ~ 85°C	56-LFCSP	ADUC816BCP-ND	15.53	14.49	13.46
8	640	256	32	Dual, 16-Bit	1-Ch., 12-Bit	—	Yes	-40°C ~ 85°C	52-MQFP	ADUC816BS-ND	15.53	14.49	13.46
8	640	256	32	16 and 24 Bit	1-Ch., 12-Bit	—	Yes	-40°C ~ 85°C	56-LFCSP	ADUC824BCP-ND	19.28	17.99	16.71
8	640	256	32	16 and 24 Bit	1-Ch., 12-Bit	—	Yes	-40°C ~ 85°C	52-MQFP	ADUC824BS-ND	19.28	17.99	16.71
62	4K	2K + 256	32	1, 12-Bit	2-Ch., 12-Bit	2	Yes	-40°C ~ 85°C	56-LFCSP	ADUC831BCP-ND	16.58	14.93	13.24
62	4K	2K + 256	32	1, 12-Bit	2-Ch., 12-Bit	2	Yes	-40°C ~ 85°C	52-MQFP	ADUC831BS-ND	16.58	14.93	13.24
62	4K	2K + 256	32	1, 12-Bit	2-Ch., 12-Bit	2	Yes	-40°C ~ 85°C	56-LFCSP	ADUC832BCP-ND	16.58	14.93	13.24
62	4K	2K + 256	32	1, 12-Bit	2-Ch., 12-Bit	2	Yes	-40°C ~ 125°C	52-MQFP	ADUC832BS-ND	16.58	14.93	13.24
62	4K	2K + 256	32	16 and 24 Bit	1-Ch., 12-Bit	2	Yes	-40°C ~ 85°C	56-LFCSP	ADUC834BCP-ND	21.00	19.60	18.20
62	4K	2K + 256	32	16 and 24 Bit	1-Ch., 12-Bit	2	Yes	-40°C ~ 125°C	52-MQFP	ADUC834BS-ND	21.00	19.60	18.20
62	4K	2K + 256	32	Dual, 16 Bit	1-Ch., 12-Bit	2	Yes	-40°C ~ 85°C	56-LFCSP	ADUC836BCP-ND	16.88	15.75	14.63
62	4K	2K + 256	32	Dual, 16 Bit	1-Ch., 12-Bit	2	Yes	-40°C ~ 125°C	52-MQFP	ADUC836BS-ND	16.88	15.75	14.63
62	4K	2K + 256	32	1, 12-Bit	2-Ch., 12-Bit	2	Yes	-40°C ~ 85°C	56-LFCSP	ADUC841BCP62-3-ND	21.90	17.52	14.79
62	4K	2K + 256	32	1, 12-Bit	2-Ch., 12-Bit	2	Yes	-40°C ~ 85°C	52-MQFP	ADUC841BS62-3-ND	16.43	15.33	14.24
62	4K	2K + 256	32	1, 12-Bit	2-Ch., 12-Bit	2	Yes	-40°C ~ 85°C	56-LFCSP	ADUC841BCP62-5-ND	21.90	17.52	14.79
62	4K	2K + 256	32	1, 12-Bit	2-Ch., 12-Bit	2	Yes	-40°C ~ 85°C	52-MQFP	ADUC841BS62-5-ND	16.43	15.33	14.24
62	4K	2K + 256	32	1, 12-Bit	2-Ch., 12-Bit	2	Yes	-40°C ~ 85°C	56-LFCSP	ADUC841BCP8-3-ND	14.90	11.92	10.06
62	4K	2K + 256	32	1, 12-Bit	2-Ch., 12-Bit	2	Yes	-40°C ~ 85°C	56-LFCSP	ADUC841BCP8-5-ND	14.90	11.92	10.06
62	4K	2K + 256	32	1, 12-Bit	2-Ch., 12-Bit	2	Yes	-40°C ~ 85°C	56-LFCSP	ADUC842BCP32-3-ND	16.20	12.96	10.94
62	4K	2K + 256	32	1, 12-Bit	2-Ch., 12-Bit	2	Yes	-40°C ~ 85°C	56-LFCSP	ADUC842BCP32-5-ND	16.20	12.96	10.94
62	4K	2K + 256	32	1, 12-Bit	2-Ch., 12-Bit	2	Yes	-40°C ~ 85°C	56-LFCSP	ADUC842BCP62-3-ND	21.90	17.52	14.79
62	4K	2K + 256	32	1, 12-Bit	2-Ch., 12-Bit	2	Yes	-40°C ~ 85°C	52-MQFP	ADUC842BS62-3-ND	16.43	15.33	14.24
62	4K	2K + 256	32	1, 12-Bit	2-Ch., 12-Bit	2	Yes	-40°C ~ 85°C	56-LFCSP	ADUC842BCP62-5-ND	21.90	17.52	14.79
62	4K	2K + 256	32	1, 12-Bit	2-Ch., 12-Bit	2	Yes	-40°C ~ 85°C	52-MQFP	ADUC842BS62-5-ND	16.43	15.33	14.24
62	4K	2K + 256	32	1, 12-Bit	2-Ch., 12-Bit	2	Yes	-40°C ~ 85°C	56-LFCSP	ADUC842BCP8-3-ND	14.90	11.92	10.06
62	4K	2K + 256	32	1, 12-Bit	2-Ch., 12-Bit	2	Yes	-40°C ~ 85°C	56-LFCSP	ADUC842BCP8-5-ND	14.90	11.92	10.06
62	4K	2K + 256	32	1, 12-Bit	—	2	Yes	-40°C ~ 85°C	56-LFCSP	ADUC843BCP32-3-ND	13.34	10.68	9.01
62	4K	2K + 256	32	1, 12-Bit	—	2	Yes	-40°C ~ 85°C	56-LFCSP	ADUC843BCP32-5-ND	13.34	10.68	9.01
62	4K	2K + 256	32	1, 12-Bit	—	2	Yes	-40°C ~ 85°C	56-LFCSP	ADUC843BCP62-3-ND	15.70	12.56	10.60
62	4K	2K + 256	32	1, 12-Bit	—	2	Yes	-40°C ~ 85°C	52-MQFP	ADUC843BS62-3-ND	13.08	11.78	10.45
62	4K	2K + 256	32	1, 12-Bit	—	2	Yes	-40°C ~ 85°C	56-LFCSP	ADUC843BCP62-5-ND	15.70	12.56	10.60
62	4K	2K + 256	32	1, 12-Bit	—	2	Yes	-40°C ~ 85°C	52-MQFP	ADUC843BS62-5-ND	13.08	11.78	10.45
62	4K	2K + 256	32	1, 12-Bit	—	2	Yes	-40°C ~ 85°C	56-LFCSP	ADUC843BCP8-3-ND	11.70	9.36	7.90
62	4K	2K + 256	32	1, 12-Bit	—	2	Yes	-40°C ~ 85°C	56-LFCSP	ADUC843BCP8-5-ND	11.70	9.36	7.90
62	4K	2K + 256	32	Dual, 24-Bit	1-Ch., 12-Bit	2	Yes	-40°C ~ 85°C	56-CSP	ADUC845BCP62-3-ND	27.70	22.16	18.70
62	4K	2K + 256	32	Dual, 24-Bit	1-Ch., 12-Bit	2	Yes	-40°C ~ 125°C	52-MQFP	ADUC845BS62-3-ND	27.70	22.16	18.70
62	4K	2K + 256	32	Dual, 24-Bit	1-Ch., 12-Bit	2	Yes	-40°C ~ 85°C	56-CSP	ADUC845BCP62-5-ND	27.70	22.16	18.70
62	4K	2K + 256	32	Dual, 24-Bit	1-Ch., 12-Bit	2	Yes	-40°C ~ 125°C	52-MQFP	ADUC845BS62-5-ND	27.70	22.16	18.70
8	4K	2K + 256	32	Dual, 24-Bit	1-Ch., 12-Bit	2	Yes	-40°C ~ 85°C	56-CSP	ADUC845BCP8-3-ND	20.30	16.24	13.71
8	4K	2K + 256	32	Dual, 24-Bit	1-Ch., 12-Bit	2	Yes	-40°C ~ 125°C	52-MQFP	ADUC845BS8-3-ND	20.30	16.24	13.71
8	4K	2K + 256	32	Dual, 24-Bit	1-Ch., 12-Bit	2	Yes	-40°C ~ 85°C	56-CSP	ADUC845BCP8-5-ND	20.30	16.24	13.71
8	4K	2K + 256	32	Dual, 24-Bit	1-Ch., 12-Bit	2	Yes	-40°C ~ 125°C	52-MQFP	ADUC845BS8-5-ND	20.30	16.24	13.71
62	4K	2K + 256	32	Dual, 24-Bit	1-Ch., 12-Bit	2	Yes	-40°C ~ 85°C	56-CSP	ADUC847BCP62-3-ND	21.90	17.52	14.79
62	4K	2K + 256	32	Dual, 24-Bit	1-Ch., 12-Bit	2	Yes	-40°C ~ 125°C	52-MQFP	ADUC847BS62-3-ND	21.90	17.52	14.79
62	4K	2K + 256	32	Dual, 24-Bit	1-Ch., 12-Bit	2	Yes	-40°C ~ 85°C	56-CSP	ADUC847BCP62-5-ND	21.90	17.52	14.79
62	4K	2K + 256	32	Dual, 24-Bit	1-Ch., 12-Bit	2	Yes	-40°C ~ 125°C	52-MQFP	ADUC847BS62-5-ND	21.90	17.52	14.79
32	4K	2K + 256	32	Dual, 24-Bit	1-Ch., 12-Bit	2	Yes	-40°C ~ 125°C	52-MQFP	ADUC847BS32-3-ND	17.90	14.32	12.09
32	4K	2K + 256	32	Dual, 24-Bit	1-Ch., 12-Bit	2	Yes	-40°C ~ 125°C	52-MQFP	ADUC847BS32-5-ND	17.90	14.32	12.09
8	4K	2K + 256	32	Dual, 24-Bit	1-Ch., 12-Bit	2	Yes	-40°C ~ 85°C	56-CSP	ADUC847BCP8-3-ND	13.30	10.64	8.98
8	4K	2K + 256	32	Dual, 24-Bit	1-Ch., 12-Bit	2	Yes	-40°C ~ 125°C	52-MQFP	ADUC847BS8-3-ND	13.30	10.64	8.98
8	4K	2K + 256	32	Dual, 24-Bit	1-Ch., 12-Bit	2	Yes	-40°C ~ 85°C	56-CSP	ADUC847BCP8-5-ND	13.30	10.64	8.98
8	4K	2K + 256	32	Dual, 24-Bit	1-Ch., 12-Bit	2	Yes	-40°C ~ 125°C	52-MQFP	ADUC847BS8-5-ND	13.30	10.64	8.98
62	4K	2K + 256	32	Dual, 16-Bit	1-Ch., 12-Bit	2	Yes	-40°C ~ 85°C	56-CSP	ADUC848BCP62-3-ND	18.60	14.88	12.56
62	4K	2K + 256	32	Dual, 16-Bit	1-Ch., 12-Bit	2	Yes	-40°C ~ 125°C	52-MQFP	ADUC848BS62-3-ND	18.60	14.88	12.56
62	4K	2K + 256	32	Dual, 16-Bit	1-Ch., 12-Bit	2	Yes	-40°C ~ 85°C	56-CSP	ADUC848BCP62-5-ND	18.60	14.88	12.56
62	4K	2K + 256	32	Dual, 16-Bit	1-Ch., 12-Bit	2	Yes	-40°C ~ 125°C	52-MQFP	ADUC848BS62-5-ND	18.60	14.88	12.56
32	4K	2K + 256	32	Dual, 16-Bit	1-Ch., 12-Bit	2	Yes	-40°C ~ 125°C	52-MQFP	ADUC848BS32-3-ND	14.90	11.92	10.06
32	4K	2K + 256	32	Dual, 16-Bit	1-Ch., 12-Bit	2	Yes	-40°C ~ 125°C	52-MQFP	ADUC848BS32-5-ND	14.90	11.92	10.06
8	4K	2K + 256	32	Dual, 16-Bit	1-Ch., 12-Bit	2	Yes	-40°C ~ 85°C	56-CSP	ADUC848BCP8-3-ND	11.32	9.06	7.65
8	4K	2K + 256	32	Dual, 16-Bit	1-Ch., 12-Bit	2	Yes	-40°C ~ 125°C	52-MQFP	ADUC848BS8-3-ND	11.32	9.06	7.65
8	4K	2K + 256	32	Dual, 16-Bit	1-Ch., 12-Bit	2	Yes	-40°C ~ 85°C	56-CSP	ADUC848BCP8-5-ND	11.32	9.06	7.65
8	4K	2K + 256	32	Dual, 16-Bit	1-Ch., 12-Bit	2	Yes	-40°C ~ 125°C	52-MQFP	ADUC848BS8-5-ND	11.32	9.06	7.65

RAM (Kbytes)	FLASH (Kbytes)	External Memory	I/O	ADC	DAC	PWM (16 Bit)	Temperature Range	Package	Digi-Key Part No.	Price Each 1	25	100
ADuC702x Series												
8	62	—	13	8-Ch., 12-Bit	Dual Ch., 12-Bit	Single	-40°C ~ 85°C	40-CSP	ADUC7021BCP62-ND	17.60	14.08	11.88
4	32	—	13	8-Ch., 12-Bit	Dual Ch., 12-Bit	Single	-40°C ~ 85°C	40-CSP	ADUC7021BCP32-ND	14.00	11.20	9.45
4	32	—	13	8-Ch., 10-Bit	Dual Ch., 12-Bit	Single	-40°C ~ 85°C	40-CSP	ADUC7021ACP32-ND	12.00	9.60	8.10
8	62	—	13	10-Ch., 12-Bit	—	Single	-40°C ~ 85°C	40-CSP	ADUC7022BCP62-ND	14.70	11.76	9.93
8	32	—	13	10-Ch., 10-Bit	—	Single	-40°C ~ 85°C	40-CSP	ADUC7022ACP32-ND	12.10	9.68	8.17
4	32	—	13	10-Ch., 12-Bit	—	Single	-40°C ~ 85°C	40-CSP	ADUC7022BCP32-ND	10.34	8.28	6.98
8	62	—	30	10-Ch., 12-Bit	Dual Ch., 12-Bit	3 Phase	-40°C ~ 85°C	64-CSP	ADUC7024BCP62-ND	21.00	16.80	14.18
8	62	—	30	10-Ch., 12-Bit	Dual Ch., 12-Bit	3 Phase	-40°C ~ 85°C	64-LQFP	ADUC7024BST62-ND	21.00	16.80	14.18
8	62	—	30	12-Ch., 12-Bit	—	3 Phase	-40°C ~ 85°C	64-CSP	ADUC7025BCP62-ND	17.90	14.32	12.09
4	32	—	30	12-Ch., 12-Bit	—	3 Phase	-40°C ~ 85°C	64-CSP	ADUC7025BCP32-ND	15.00	12.00	10.13
8	62	Yes	40	12-Ch., 12-Bit	Quad. Ch., 12-Bit	3 Phase	-40°C ~ 85°C	80-LQFP	ADUC7026BST62-ND	29.20	23.36	19.71
8	62	Yes	40	16-Ch., 12-Bit	—	3 Phase	-40°C ~ 85°C	80-LQFP	ADUC7027BST62-ND	19.00	15.20	12.83
8	62	Yes	40	16-Ch., 10-Bit	—	3 Phase	-40°C ~ 85°C	80-LQFP	ADUC7027AST62-ND	15.86	12.69	10.71

QuickStart Development Kit

The "entry level" QuickStart Development System allows designers to rapidly evaluate MicroConverter performance and functionality, and then begin a prototype development. It fully supports assembly level code development via a serial port debug path and provides designers with access to a demonstration project of the C-level development environment available in QuickStart-Plus.

Kit Contents: • Evaluation Board • Serial Download/Debug Cable • Sample Device(s) • International Power Supply • Software and Documentation

EVAL-ADUC812QS-ND $75.00
EVAL-ADUC814QS-ND $75.00
EVAL-ADUC816QS-ND $75.00
EVAL-ADUC824QS-ND $75.00
EVAL-ADUC831QS-ND $75.00
EVAL-ADUC832QS-ND $75.00
EVAL-ADUC834QS-ND $75.00
EVAL-ADUC836QS-ND $75.00
EVAL-ADUC841QS-ND $75.00
EVAL-ADUC842QS-ND $75.00
EVAL-ADUC845QS-ND $75.00
EVAL-ADUC847QS-ND $75.00

ARM7 Development Kits

Kit Contents:
- Software Development Tools
- Power Supply
- Cables
- Evaluation Board
- JTAG Emulator

EVAL-ADUC7020QS-ND $282.2
EVAL-ADUC7024QS-ND $282.2
EVAL-ADUC7026QS-ND $282.2

STATIC PROTECTION

Protection of static sensitive parts is a MUST in today's semiconductor market.
To ensure the quality that Digi-Key customers have come to expect, the Digi-Key static control program includes proper static safety protection in the following areas:

- *Receiving, Incoming Inspection, and QC*
- *Order Picking*
- *Final Inspection*
- *Packaging and Shipping*

Shielded metallized bags are used in order picking, and 100% recyclable paper packaging is used n packaging and shipping.

As our program is continuously updated with the latest static control technology, you can be eassured that Digi-Key's static sensitive parts are quality safe, *all the way to your door step!*

• Please Note: SO-x packages are the same as x-SOIC packages •

ANALOG DEVICES — AMPLIFIERS

Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD8015AR	AD8015AR-ND	Transimpedance Amp	8-SOIC	6.64	5.32	4.49
		Audio/Video				
AD813AR-14	AD813AR-14-ND	Triple Video Amp Single LP	14-SOIC	8.32	6.66	5.62
AD830AN	AD830AN-ND	Video Differential Amp HS	8-Dip	5.40	4.32	3.65
AD830AR	AD830AR-ND	Video Differential Amp HS	8-SOIC	5.40	4.32	3.65
AD830JR	AD830JR-ND	Video Differential Amp HS	8-SOIC	5.40	4.32	3.65
AD1991ASV	AD1991ASV-ND	Audio Powerstage Class-D	52-TQFP	14.58	13.13	11.64
AD8013ARZ-14	AD8013ARZ-14-ND	Triple Video Amp	14-SOIC	9.70	7.76	6.55
AD8075ARU	AD8075ARU-ND	Triple Video Buffer HS	16-TSSOP	5.27	4.22	3.28
OP275GP	OP275GP-ND	Op Amp Bipolar/JFET Audio	8-Dip	2.13	1.70	1.28
OP275GS	OP275GS-ND	Op Amp Bipolar/JFET Audio	8-SOIC	2.03	1.62	1.22
OP279GS	OP279GS-ND	Op Amp Dual Single Supply R-R 60mA	8-SOIC	2.57	2.06	1.60
SSM2210S	SSM2210S-ND	Transistor Audio Match	8-SOIC	4.79	3.84	2.99
SSM2211CP-REEL7	SSM2211CP-REEL7CT-ND	Audio Amp Low Distortion 1.5W	8-LFCSP	96	.80	.64
SSM2211CP-REEL7	SSM2211CP-REEL7TR-ND	Audio Amp Low Distortion 1.5W	8-LFCSP		798.00/1,500	
SSM2211S	SSM2211S-ND	Audio Amp Low Distortion 1.5W	8-SOIC	1.26	1.05	.84
		Buffer				
AD8570ARU	AD8570ARU-ND	Buffer Amp 16V R-R I/O	20-TSSOP	5.38	4.31	3.35
		Comparator				
AD790AQ	AD790AQ-ND	Precision Comparator HS	8-Dip	13.18	11.87	10.53
AD790JN	AD790JN-ND	Precision Comparator HS	8-Dip	8.16	6.53	5.51
AD790JNZ	AD790JNZ-ND	Precision Comparator HS* **NEW!**	8-Dip	8.16	6.53	5.51
AD790JR	AD790JR-ND	Precision Comparator HS	8-SOIC	8.16	6.53	5.51
AD8561AN	AD8561AN-ND	Comparator Single 7nS	8-Dip	4.16	3.33	2.59
AD8561ANZ	AD8561ANZ-ND	Comparator Single 7nS* **NEW!**	8-Dip	4.16	3.33	2.59
AD8561AR	AD8561AR-ND	Comparator Single 7nS	8-SOIC	4.16	3.33	2.59
AD8561AR-REEL7	AD8561AR-REEL7CT-ND	Comparator Single 7nS	8-SOIC	4.16	3.33	2.59
AD8561AR-REEL7	AD8561AR-REEL7TR-ND	Comparator Single 7nS	8-SOIC		2359.00/1,000	
AD8564AR	AD8564AR-ND	Comparator Quad 7nS	16-SOIC	8.20	6.56	5.54
AD8564ARZ	AD8564ARZ-ND	Comparator Quad 7nS	16-SOIC	8.20	6.56	5.54
AD8564ARU-REEL	AD8564ARU-REEL7CT-ND	Comparator Quad 7nS	16-TSSOP	7.38	5.91	4.99
AD8564ARU-REEL	AD8564ARU-REEL7TR-ND	Comparator Quad 7nS	16-TSSOP		11440.00/2,500	
AD8564ARUZ-REEL	AD8564ARUZ-REEL7CT-ND	Comparator Quad 7nS* **NEW!**	16-TSSOP	7.38	5.91	4.99
AD8564ARUZ-REEL	AD8564ARUZ-REEL7R-ND	Comparator Quad 7nS* **NEW!**	16-TSSOP		11440.00/2,500	
AD8611AR	AD8611AR-ND	Comparator Single 4nS HS	8-SOIC	5.36	4.29	3.34
AD8611ARZ	AD8611ARZ-ND	Comparator Single 4nS HS* **NEW!**	8-SOIC	5.36	4.29	3.34
AD8612ARU	AD8612ARU-ND	Comparator Dual 4nS Fast	14-TSSOP	8.00	6.40	5.40
AD96685BR	AD96685BR-ND	Comparator Single Ultra-Fast	16-SOIC	5.84	4.68	3.95
AD96687BP	AD96687BP-ND	Comparator Dual 2.5nS	20-PLCC	6.40	5.12	4.32
AD96687BQ	AD96687BQ-ND	Comparator Dual 2.5nS	16-Dip	9.83	8.85	7.85
AD96687BR	AD96687BR-ND	Comparator Dual 2.5nS	16-SOIC	5.84	4.68	3.95
AD96687BRZ	AD96687BRZ-ND	Comparator Dual 2.5nS* **NEW!**	16-SOIC	5.84	4.68	3.95
ADCMP561BRQ	ADCMP561BRQ-ND	Comparator Dual HS PECL **NEW!**	16-QSOP	5.40	4.32	3.85
ADCMP565BP	ADCMP565BP-ND	Comparator Dual Ultra-Fast	20-PLCC	8.75	7.88	6.99
CMP04FS	CMP04FS-ND	Comparator Quad Low Power	14-SOIC	8.53	7.68	6.81
CMP401GS	CMP401GS-ND	Comparator Low Voltage 23nS	16-SOIC	6.08	4.87	4.11
CMP402GS	CMP402GS-ND	Comparator Low Voltage 65nS	16-SOIC	6.42	5.14	4.34
		Differential				
AD8129AR	AD8129AR-ND	Differential Receiver Amp HS	8-SOIC	4.12	3.30	2.57
AD8129ARZ	AD8129ARZ-ND	Differential Receiver Amp HS* **NEW!**	8-SOIC	4.12	3.30	2.57
AD8130AR	AD8130AR-ND	Diff. Receiver Amp 270MHz HS	8-SOIC	4.12	3.30	2.57
AD8130ARZ	AD8130ARZ-ND	Diff. Receiver Amp 270MHz HS* **NEW!**	8-SOIC	4.12	3.30	2.57
AD8130AR-REEL7	AD8130AR-REEL7CT-ND	Diff. Receiver Amp 270MHz HS	8-SOIC	4.12	3.30	2.57
AD8130AR-REEL7	AD8130AR-REEL7TR-ND	Diff. Receiver Amp 270MHz HS	8-SOIC		2333.00/1,000	
AD8130ARM	AD8130ARM-ND	Diff. Receiver Amp 270MHz HS	8-MSOP	4.12	3.30	2.57
AD8130ARMZ	AD8130ARMZ-ND	Diff. Receiver Amp 270MHz HS* **NEW!**	8-MSOP	4.12	3.30	2.57
AD8131AR	AD8131AR-ND	Differential Driver 400MHz HS	8-SOIC	4.77	3.82	2.97
AD8131ARZ	AD8131ARZ-ND	Differential Driver 400MHz HS* **NEW!**	8-SOIC	4.77	3.82	2.97
AD8131ARM	AD8131ARM-ND	Differential Driver 400MHz HS	8-MSOP	4.77	3.82	2.97
AD8131ARM-REEL7	AD8131ARM-REEL7CT-ND	Differential Driver 400MHz HS	8-MSOP	4.77	3.82	2.97
AD8131ARM-REEL7	AD8131ARM-REEL7TR-ND	Differential Driver 400MHz HS	8-MSOP		2703.00/1,000	
AD8202YR	AD8202YR-ND	High Common-Mode Volt., Single-Supply Differential Amp	8-SOIC	3.15	2.52	1.96
AD8202YRZ	AD8202YRZ-ND	High Common-Mode Volt., Single-Supply Differential Amp* **NEW!**	8-SOIC	3.15	2.52	1.96
AD8205YR	AD8205YR-ND	42V System Differential Amp	8-SOIC	3.15	2.52	1.96
AD8205YRZ	AD8205YRZ-ND	42V System Differential Amp* **NEW!**	8-SOIC	3.15	2.52	1.96
AD8205YR-REEL7	AD8205YR-REEL7TR-ND	42V System Differential Amp	8-SOIC		1785.00/1,000	
AD8324JRQ	AD8324JRQ-ND	3.3V Cable Line Driver	20-QSOP	4.59	3.68	2.86
AD8328ACP	AD8328ACP-ND	5V Cable Line Driver	20-LFCSP	4.93	3.95	3.07
AD8328ACPZ	AD8328ACPZ-ND	5V Cable Line Driver	20-LFCSP	4.93	3.95	3.07
AD8328ARQ	AD8328ARQ-ND	5V Cable Line Driver	20-QSOP	5.18	4.14	3.22
AD8328ARQZ	AD8328ARQZ-ND	5V Cable Line Driver	20-QSOP	5.18	4.14	3.22
AD8390ACP-R2	AD8390ACP-R2CT-ND	Voltage Feedback Amp ADSL, LP	16-LFCSP	5.58	4.47	3.77
AD8390ACP-R2	AD8390ACP-R2TR-ND	Voltage Feedback Amp ADSL, LP	16-LFCSP		906.75/250	
AD8390ARC	AD8390ARC-ND	Voltage Feedback Amp ADSL, LP	16-QSOP	5.78	4.63	3.91
		General Purpose				
AD582KD	AD582KD-ND	Sample/Hold Amp	14-Dip	33.23	31.01	28.80
AD684AQ	AD684AQ-ND	Sample/Hold Amp Quad	16-CDip	56.64	52.87	49.09
AD684JQ	AD684JQ-ND	Sample/Hold Amp Quad	16-Dip	47.22	44.08	40.93
AD684SQ	AD684SQ-ND	Sample/Hold Amp Quad	16-CDip	185.36	173.00	160.65
AD708AQ	AD708AQ-ND	Op Amp Dual Low Offset Voltage	8-Dip	9.10	7.28	6.15
AD708JN	AD708JN-ND	Op Amp Dual Low Offset Voltage	8-Dip	6.14	4.92	4.15
AD712AQ	AD712AQ-ND	Precision Op Amp Dual BiFET	8-Dip	9.36	7.49	6.32
AD712JN	AD712JN-ND	Precision Op Amp Dual BiFET	8-Dip	3.40	2.72	2.12
AD712JNZ	AD712JNZ-ND	Precision Op Amp Dual BiFET* **NEW!**	8-Dip	3.40	2.72	2.12
AD712JR	AD712JR-ND	Precision Op Amp Dual BiFET	8-SOIC	3.40	2.72	2.12
AD712JR-REEL7	AD712JR-REEL7TR-ND	Precision Op Amp Dual BiFET	8-SOIC		1472.25/750	
AD712KN	AD712KN-ND	Precision Op Amp Dual BiFET	8-Dip	6.02	4.82	4.07
AD712KNZ	AD712KNZ-ND	Precision Op Amp Dual BiFET* **NEW!**	8-Dip	6.02	4.82	4.07
AD712KR	AD712KR-ND	Precision Op Amp Dual BiFET	8-SOIC	5.76	4.61	3.89
AD712KRZ	AD712KRZ-ND	Precision Op Amp Dual BiFET	8-SOIC	5.76	4.61	3.89
AD712KR-REEL7	AD712KR-REEL7CT-ND	Precision Op Amp Dual BiFET	8-SOIC	5.76	4.61	3.89
AD712KR-REEL7	AD712KR-REEL7TR-ND	Precision Op Amp Dual BiFET	8-SOIC		2743.50/750	
AD713AQ	AD713AQ-ND	Prec. Op Amp Quad BiFET	14-Dip	10.03	9.03	8.01
AD713BQ	AD713BQ-ND	Prec. Op Amp Quad BiFET	14-CDip	13.94	12.56	11.14
AD713JN	AD713JN-ND	Prec. Op Amp Quad BiFET	14-Dip	7.92	6.34	5.35
AD713JNZ	AD713JNZ-ND	Prec. Op Amp Quad BiFET* **NEW!**	14-Dip	7.92	6.34	5.35
AD713JR-16-REEL7	AD713JR-16REEL7CT-ND	Prec. Op Amp Quad BiFET	16-SOIC	7.46	5.97	5.04
AD713JR-16-REEL7	AD713JR-16REEL7TR-ND	Prec. Op Amp Quad BiFET	16-SOIC		2059.20/400	
AD713JR-16	AD713JR-16-ND	Prec. Op Amp Quad BiFET	16-SOIC	7.92	6.34	5.35
AD713JRZ-16	AD713JRZ-16-ND	Prec. Op Amp Quad BiFET* **NEW!**	16-SOIC	7.92	6.34	5.35
AD713KN	AD713KN-ND	Prec. Op Amp Quad BiFET	14-Dip	10.18	9.17	8.13
AD713KNZ	AD713KNZ-ND	Prec. Op Amp Quad BiFET* **NEW!**	14-Dip	10.18	9.17	8.13
AD743JN	AD743JN-ND	Op Amp BiFET Low Noise	8-Dip	8.46	7.62	6.76
AD743JNZ	AD743JNZ-ND	Op Amp BiFET Low Noise* **NEW!**	8-Dip	8.46	7.62	6.76
AD744JN	AD744JN-ND	Precision Op Amp BiFET Mono	8-Dip	4.52	3.62	2.82
AD744JNZ	AD744JNZ-ND	Precision Op Amp BiFET Mono	8-Dip	4.52	3.62	2.82
AD744JR	AD744JR-ND	Prec. Op Amp BiFET Mono	8-SOIC	5.00	4.00	3.11
AD744JRZ	AD744JRZ-ND	Prec. Op Amp BiFET Mono* **NEW!**	8-SOIC	5.00	4.00	3.11
AD744KNZ	AD744KNZ-ND	Prec. Op Amp BiFET Mono	8-Dip	5.72	4.58	3.87
AD744KR	AD744KR-ND	Prec. Op Amp BiFET Mono	8-SOIC	6.30	5.04	4.26
AD744KRZ	AD744KRZ-ND	Prec. Op Amp BiFET Mono* **NEW!**	8-SOIC	6.30	5.04	4.26
AD746JN	AD746JN-ND	Prec. Op Amp BiFET Dual	8-Dip	7.32	5.86	4.95
AD746JNZ	AD746JNZ-ND	Prec. Op Amp BiFET Dual* **NEW!**	8-Dip	7.32	5.86	4.95
AD746JR	AD746JR-ND	Prec. Op Amp BiFET Dual	8-SOIC	7.32	5.86	4.95
AD746JRZ	AD746JRZ-ND	Prec. Op Amp BiFET Dual* **NEW!**	8-SOIC	7.32	5.86	4.95
AD781JN	AD781JN-ND	Sample and Hold Amp 700nS	8-Dip	10.40	9.36	8.30
AD817AN	AD817AN-ND	Op Amp Single/Dual HS LP	8-Dip	3.60	2.88	2.24
AD817ANZ	AD817ANZ-ND	Op Amp Single/Dual HS LP* **NEW!**	8-Dip	3.60	2.88	2.24
AD817AR	AD817AR-ND	Op Amp Single/Dual HS LP	8-SOIC	3.60	2.88	2.24
AD825AR	AD825AR-ND	Op Amp JFET High Speed	8-SOIC	3.76	3.01	2.34
AD825ARZ	AD825ARZ-ND	Op Amp JFET High Speed* **NEW!**	8-SOIC	3.76	3.01	2.34
AD827JN	AD827JN-ND	Op Amp Dual High Speed LP	8-Dip	8.38	7.55	6.69
AD827JR-16	AD827JR-16-ND	Op Amp Dual HS LP	16-SOIC	8.38	7.55	6.69
AD828AN	AD828AN-ND	Video Op Amp Dual LP	8-Dip	4.97	3.98	3.10
AD828AR	AD828AR-ND	Video Op Amp Dual LP	8-SOIC	4.97	3.98	3.10
AD843JN	AD843JN-ND	Op Amp Fast Settling HS	8-Dip	8.56	6.85	5.78
AD843JR-16	AD843JR-16-ND	Op Amp Fast Settling HS	16-SOIC	9.42	7.54	6.36
AD843SQ	AD843SQ-ND	Op Amp Fast Settling HS	8-Dip	32.12	29.98	27.84
AD845JN	AD845JN-ND	Precision Op Amp 16MHz	8-Dip	6.40	5.12	4.32
AD845JR-16	AD845JR-16-ND	Precision Op Amp 16MHz	16-SOIC	7.06	5.65	4.77
AD845JRZ-16	AD845JRZ-16-ND	Precision Op Amp 16MHz* **NEW!**	16-SOIC	7.06	5.65	4.77
AD845KN	AD845KN-ND	Precision Op Amp 16MHz	8-Dip	7.40	5.92	5.00
AD8044AN	AD8044AN-ND	Op Amp Voltage-Feedback R-R Quad	14-Dip	8.00	6.40	5.40
AD8048AR	AD8048AR-ND	Op Amp Voltage-Feedback GP	8-SOIC	4.86	3.89	3.03
AD8067ARTZ-R2	AD8067ARTZ-R2CT-ND	FastFET™ Input Amp	SOT-23-5	6.46	5.17	4.37
AD8067ARTZ-R2	AD8067ARTZ-R2TR-ND	FastFET™ Input Amp	SOT-23-5		1049.75/250	
AD8515AKS-R2	AD8515AKS-R2CT-ND	Op Amp 1.8V R-R In/Out LP	SC70-5	1.35	1.13	.90
AD8515AKS-R2	AD8515AKS-R2TR-ND	Op Amp 1.8V R-R In/Out LP	SC70-5		146.25/250	
AD8515ART-R2	AD8515ART-R2CT-ND	Op Amp 1.8V R-R In/Out LP	SOT-23-5	1.26	1.05	.84
AD8515ART-R2	AD8515ART-R2TR-ND	Op Amp 1.8V R-R In/Out LP	SOT-23-5		157.50/250	
AD8515ARTZ-REEL7	AD8515ARTZREEL7CT-ND	Op Amp 1.8V R-R In/Out LP* **NEW!**	SOT-23-5	1.12	.84	.63
AD8515ARTZ-REEL7	AD8515ARTZREEL7TR-ND	Op Amp 1.8V R-R In/Out LP* **NEW!**	SOT-23-5		1092.00/3,000	
AD8519ART-REEL7	AD8519ART-REEL7CT-ND	Op Amp R-R 8MHz	SOT-23-5	2.08	1.66	1.25
AD8519ART-REEL7	AD8519ART-REEL7TR-ND	Op Amp R-R 8MHz	SOT-23-5		3186.00/3,000	
AD8529AR	AD8529AR-ND	Op Amp Dual R-R Out	8-SOIC	2.75	2.20	1.71
AD8529ARZ	AD8529ARZ-ND	Op Amp Dual R-R Out* **NEW!**	8-SOIC	2.75	2.20	1.71
AD8531AR	AD8531AR-ND	Op Amp Single R-R In/Out	8-SOIC	1.24	.93	.70
AD8531ARZ	AD8531ARZ-ND	Op Amp Single R-R In/Out	8-SOIC	1.24	.93	.70
AD8532AR	AD8532AR-ND	Op Amp Dual R-R In/Out	8-SOIC	1.23	1.03	.82
AD8532ARZ	AD8532ARZ-ND	Op Amp Dual R-R In/Out	8-SOIC	1.23	1.03	.82
AD8534AR	AD8534AR-ND	Op Amp Single R-R In/Out	14-SOIC	1.77	1.48	1.18
AD8541AR	AD8541AR-ND	Op Amp Single R-R In/Out	8-SOIC	1.24	.93	.70
AD8541ARZ	AD8541ARZ-ND	Op Amp Single R-R In/Out* **NEW!**	8-SOIC	1.24	.93	.70
AD8541ART-REEL7	AD8541ART-REEL7CT-ND	Op Amp Single R-R In/Out* **NEW!**	SOT-23-5	.92	.69	.52
AD8541ART-REEL7	AD8541ART-REEL7TR-ND	Op Amp Single R-R In/Out* **NEW!**	SOT-23-5		1053.00/3,000	
AD8542AR	AD8542AR-ND	Op Amp Dual R-R In/Out	8-SOIC	1.23	1.03	.82
AD8542AR-REEL7	AD8542AR-REEL7CT-ND	Op Amp Dual R-R In/Out	8-SOIC	1.23	1.03	.82
AD8542AR-REEL7	AD8542AR-REEL7TR-ND	Op Amp Dual R-R In/Out	8-SOIC		545.00/1,000	
AD8542ARUZ	AD8542ARUZ-ND	Op Amp Dual R-R In/Out	8-TSSOP	1.23	1.03	.82
AD8542ARZ	AD8542ARZ-ND	Op Amp Dual R-R In/Out	8-SOIC	1.23	1.03	.82
AD8544AR	AD8544AR-ND	Op Amp Quad R-R In/Out	14-SOIC	1.77	1.48	1.18
AD8544ARUZ	AD8544ARUZ-ND	Op Amp Quad R-R In/Out	14-TSSOP	1.77	1.48	1.18
AD8544ARZ	AD8544ARZ-ND	Op Amp Quad R-R In/Out	14-SOIC	1.77	1.48	1.18
AD8551AR	AD8551AR-ND	Op Amp Single R-R 0-Drift	8-SOIC	2.32	1.86	1.45
AD8552AR	AD8552AR-ND	Op Amp Dual R-R 0-Drift	8-SOIC	3.67	2.94	2.29
AD8552ARU	AD8552ARU-ND	Op Amp Dual R-R 0-Drift	8-TSSOP	3.67	2.94	2.29
AD8552ARZ	AD8552ARZ-ND	Op Amp Dual R-R 0-Drift	8-SOIC	2.45	2.29	2.12
AD8554AR	AD8554AR-ND	Op Amp Quad R-R 0-Drift	14-SOIC	5.76	4.61	3.89
AD8571ARZ	AD8571ARZ-ND	Op Amp R-R In/Out 0-Drift	8-SOIC	2.59	2.07	1.61
AD8572AR	AD8572AR-ND	Op Amp Dual R-R In/Out	8-SOIC	4.16	3.33	2.59
AD8572ARZ	AD8572ARZ-ND	Op Amp Dual R-R In/Out* **NEW!**	8-SOIC	4.16	3.33	2.59
AD8572ARU	AD8572ARU-ND	Op Amp Dual R-R In/Out	8-TSSOP	4.16	3.33	2.59
AD8574AR	AD8574AR-ND	Op Amp Dual R-R 0-Drift	14-SOIC	6.60	5.28	4.46
AD8574ARZ	AD8574ARZ-ND	Op Amp Dual R-R 0-Drift* **NEW!**	14-SOIC	6.60	5.28	4.46
AD8574ARU	AD8574ARU-ND	Op Amp Dual R-R 0-Drift	14-TSSOP	6.60	5.28	4.46
AD8592ARM-REEL	AD8592ARM-REELCT-ND	Op Amp Dual R-R with Shutdown	10-MSOP	1.17	.98	.78
AD8592ARM-REEL	AD8592ARM-REELTR-ND	Op Amp Dual R-R with Shutdown	10-MSOP		1521.00/3,000	
AD8594AR	AD8594AR-ND	Op Amp Dual R-R with Shutdown	16-SOIC	1.86	1.55	1.24
AD8602AR	AD8602AR-ND	Op Amp Dual R-R In/Out	8-SOIC	1.88	1.50	1.13
AD8602ARZ	AD8602ARZ-ND	Op Amp Dual R-R In/Out* **NEW!**	8-SOIC	1.88	1.50	1.13
AD8602AR-REEL7	AD8602AR-REEL7CT-ND	Op Amp Dual R-R In/Out	8-SOIC	1.88	1.50	1.13
AD8602AR-REEL7	AD8602AR-REEL7TR-ND	Op Amp Dual R-R In/Out	8-SOIC		975.00/1,000	
AD8602ARM-REEL	AD8602ARM-REELCT-ND	Op Amp Dual R-R In/Out	8-MSOP	1.78	1.42	1.07
AD8602ARM-REEL	AD8602ARM-REELTR-ND	Op Amp Dual R-R In/Out	8-MSOP		2727.00/3,000	
AD8602ARMZ-R2	AD8602ARMZ-R2CT-ND	Op Amp Dual R-R In/Out* **NEW!**	8-MSOP	2.23	1.78	1.34

* Lead Free/RoHS Compliant

(Continued)

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Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD8602ARMZ-R2	AD8602ARMZ-R2TR-ND	Op Amp Dual R-R In/Out* NEW!	8-MSOP	311.50/250		
AD8603AUJ-R2	AD8603AUJ-R2CT-ND	Op Amp CMOS R-R In/Out	TSOT-23-5	2.39	1.91	1.49
AD8603AUJ-R2	AD8603AUJ-R2TR-ND	Op Amp CMOS R-R In/Out	TSOT-23-5	352.50/250		
AD8603AUJZ-REEL7	AD8603AUJZREEL7CT-ND	Op Amp CMOS R-R In/Out* NEW!	TSOT-23-5	1.68	1.34	1.01
AD8603AUJZ-REEL7	AD8603AUJZREEL7TR-ND	Op Amp CMOS R-R In/Out* NEW!	TSOT-23-5	2574.00/3,000		
AD8604AR	AD8604AR-ND	Op Amp Quad R-R In/Out	14-SOIC	2.27	1.82	1.42
AD8604ARZ	AD8604ARZ-ND	Op Amp Quad R-R In/Out* NEW!	14-SOIC	2.27	1.82	1.42
AD8604ARU	AD8604ARU-ND	Op Amp Quad R-R In/Out	14-TSSOP	2.27	1.82	1.42
AD8604ARUZ	AD8604ARUZ-ND	Op Amp Quad R-R In/Out* NEW!	14-TSSOP	2.27	1.82	1.42
AD8605ART-R2	AD8605ART-R2CT-ND	Op Amp Single R-R In/Out	SOT-23-5	2.40	1.92	1.44
AD8605ART-R2	AD8605ART-R2TR-ND	Op Amp Single R-R In/Out	SOT-23-5	336.00/250		
AD8605ART-REEL7	AD8605ART-REEL7CT-ND	Op Amp Single R-R In/Out	SOT-23-5	1.68	1.34	1.01
AD8605ART-REEL7	AD8605ART-REEL7TR-ND	Op Amp Single R-R In/Out	SOT-23-5	2574.00/3,000		
AD8605ARTZ-REEL7	AD8605ARTZREEL7CT-ND	Op Amp Single R-R In/Out* NEW!	SOT-23-5	1.68	1.34	1.01
AD8605ARTZ-REEL7	AD8605ARTZREEL7TR-ND	Op Amp Single R-R In/Out* NEW!	SOT-23-5	2574.00/3,000		
AD8606AR	AD8606AR-ND	Op Amp Dual R-R In/Out	8-SOIC	3.15	2.52	1.96
AD8606ARZ	AD8606ARZ-ND	Op Amp Dual R-R In/Out* NEW!	8-SOIC	3.15	2.52	1.96
AD8606ARM-R2	AD8606ARM-R2CT-ND	Op Amp Dual R-R In/Out	8-MSOP	3.78	3.03	2.36
AD8606ARM-R2	AD8606ARM-R2TR-ND	Op Amp Dual R-R In/Out	8-MSOP	558.50/250		
AD8606ARM-REEL	AD8606ARM-REELCT-ND	Op Amp Dual R-R In/Out	8-MSOP	2.66	2.13	1.66
AD8606ARM-REEL	AD8606ARM-REELTR-ND	Op Amp Dual R-R In/Out	8-MSOP	4461.00/3,000		
AD8606ARMZ-REEL	AD8606ARMZREELCT-ND	Op Amp Dual R-R In/Out* NEW!	8-MSOP	2.66	2.13	1.66
AD8606ARMZ-REEL	AD8606ARMZREELTR-ND	Op Amp Dual R-R In/Out* NEW!	8-MSOP	4461.00/3,000		
AD8607AR	AD8607AR-ND	Op Amp Dual R-R CMOS LN	8-SOIC	2.70	2.16	1.68
AD8607ARZ	AD8607ARZ-ND	Op Amp Dual R-R CMOS LN* NEW!	8-SOIC	2.70	2.16	1.68
AD8607ARM-R2	AD8607ARM-R2CT-ND	Op Amp Dual R-R CMOS LN	8-MSOP	3.80	3.05	2.37
AD8607ARM-R2	AD8607ARM-R2TR-ND	Op Amp Dual R-R CMOS LN	8-MSOP	562.00/250		
AD8607ARMZ-R2	AD8607ARMZ-R2-ND	Op Amp Dual R-R CMOS LN* NEW!	8-MSOP	3.80	3.05	2.37
AD8608AR	AD8608AR-ND	Op Amp Quad R-R In/Out	14-SOIC	4.16	3.33	2.59
AD8608ARZ	AD8608ARZ-ND	Op Amp Quad R-R In/Out* NEW!	14-SOIC	4.16	3.33	2.59
AD8608ARU	AD8608ARU-ND	Op Amp Quad R-R In/Out	14-TSSOP	4.16	3.33	2.59
AD8608ARUZ	AD8608ARUZ-ND	Op Amp Quad R-R In/Out* NEW!	14-TSSOP	4.16	3.33	2.59
AD8609AR	AD8609AR-ND	Op Amp Quad R-R CMOS	14-SOIC	4.88	3.91	3.04
AD8609ARZ	AD8609ARZ-ND	Op Amp Quad R-R CMOS* NEW!	14-SOIC	4.88	3.91	3.04
AD8609ARU	AD8609ARU-ND	Op Amp Quad R-R CMOS	14-TSSOP	4.88	3.91	3.04
AD8609ARUZ	AD8609ARUZ-ND	Op Amp Quad R-R CMOS* NEW!	14-TSSOP	4.88	3.91	3.04
AD8614ART-REEL7	AD8614ART-REEL7CT-ND	Op Amp Single R-R for LCD	SOT-23-5	2.48	1.98	1.49
AD8614ART-REEL7	AD8614ART-REEL7TR-ND	Op Amp Single R-R for LCD	SOT-23-5	3801.00/3,000		
AD9631AN	AD9631AN-ND	Op Amp Voltage-Feedback	8-Dip	8.66	6.93	5.85
AD9632AR	AD9632AR-ND	Op Amp Voltage-Feedback	8-SOIC	8.34	6.68	5.63
ADA4851-1YRJZ-R2	ADA4851-1YRJZR2CT-ND	Op Amp High Speed, R-R* NEW!	SOT-23-6	1.73	1.38	1.04
ADA4851-1YRJZ-R2	ADA4851-1YRJZR2TR-ND	Op Amp High Speed, R-R* NEW!	SOT-23-6	241.50/250		
ADA4851-4YRUZ	ADA4851-4YRUZ-ND	Op Amp High Speed, R-R* NEW!	14-TSSOP	3.06	2.45	1.91
OP11EP	OP11EP-ND	Op Amp Quad 741-Type	14-Dip	9.31	8.39	7.44
OP11GP	OP11GP-ND	Op Amp Quad 741-Type	14-Dip	5.33	4.27	3.32
OP15EZ	OP15EZ-ND	Prec. Op Amp JFET Input	8-CDip	11.93	10.74	9.53
OP177GS-REEL7	OP177GS-REEL7CT-ND	Prec. Op Amp Low Offset Voltage	8-SOIC	1.60	1.28	.96
OP177GS-REEL7	OP177GS-REEL7TR-ND	Prec. Op Amp Low Offset Voltage	8-SOIC	832.00/1,000		
OP179GRT-REEL7	OP179GRT-REEL7CT-ND	Op Amp R-R In/Out	SOT-23-5	1.30	1.04	.78
OP179GRT-REEL7	OP179GRT-REEL7TR-ND	Op Amp R-R In/Out	SOT-23-5	1998.00/3,000		
OP183GS	OP183GS-ND	Op Amp 5MHz Low Noise	8-SOIC	3.92	3.14	2.44
OP200EZ	OP200EZ-ND	Op Amp Dual Low Offset	8-CDip	11.00	9.90	8.78
OP275GS-REEL7	OP275GS-REEL7CT-ND	Op Amp Dual Bipolar	8-SOIC	2.03	1.62	1.22
OP275GS-REEL7	OP275GS-REEL7TR-ND	Op Amp Dual Bipolar	8-SOIC	1053.00/1,000		
OP279GS-REEL7	OP279GS-REEL7CT-ND	Op Amp R-R Input and Output	8-SOIC	2.68	2.15	1.67
OP279GS-REEL7	OP279GS-REEL7TR-ND	Op Amp R-R Input and Output	8-SOIC	1454.00/1,000		
OP291GS	OP291GS-ND	Op Amp Dual Single Supply R-R	8-SOIC	4.25	3.41	2.65
OP292GS	OP292GS-ND	Op Amp Dual Single Supply	8-SOIC	3.02	2.42	1.88
OP293ES	OP293ES-ND	Op Amp Dual Micropower R-R	8-SOIC	8.82	7.06	5.96
OP293FS	OP293FS-ND	Op Amp Dual Micropower R-R	8-SOIC	4.52	3.62	2.82
OP293FS-REEL7	OP293FS-REEL7CT-ND	Op Amp Dual Micropower R-R	8-SOIC	4.52	3.62	2.82
OP293FS-REEL7	OP293FS-REEL7TR-ND	Op Amp Dual Micropower R-R	8-SOIC	2563.00/1,000		
OP295GP	OP295GP-ND	Op Amp Dual R-R	8-Dip	4.07	3.26	2.54
OP295GS	OP295GS-ND	Op Amp Dual R-R	8-SOIC	3.96	3.17	2.47
OP295GS-REEL7	OP295GS-REEL7TR-ND	Op Amp Dual R-R	8-SOIC	2244.00/1,000		
OP296GS	OP296GS-ND	Op Amp Dual R-R Low Power	8-SOIC	3.56	2.85	2.22
OP400AY	OP400AY-ND	Op Amp Quad Low Offset	14-CDip	30.03	28.03	26.03
OP400EY	OP400EY-ND	Op Amp Quad Low Offset	14-CDip	15.83	14.25	12.64
OP400FY	OP400FY-ND	Op Amp Quad Low Offset	14-CDip	10.71	9.65	8.56
OP400GP	OP400GP-ND	Op Amp Quad Low Offset	14-Dip	8.78	7.03	5.93
OP400GS	OP400GS-ND	Op Amp Quad Low Offset	16-SOIC	8.78	7.03	5.93
OP400HP	OP400HP-ND	Op Amp Quad Low Offset	14-Dip	9.56	7.65	6.46
OP400HS	OP400HS-ND	Op Amp Quad Low Offset	16-SOIC	9.56	7.65	6.46
OP492GS	OP492GS-ND	Op Amp Quad Single Supply	14-SOIC	5.24	4.20	3.27
OP495GS	OP495GS-ND	Op Amp Quad R-R	16-SOIC	7.78	6.23	5.26
SMP04EP	SMP04EP-ND	Amp Quad Sample-Hold	16-Dip	8.66	7.80	6.92
SMP04ES	SMP04ES-ND	Amp Quad Sample-Hold	16-SOIC	8.76	7.89	7.00
SMP08FS	SMP08FS-ND	Amp Octal Sample-Hold	16-SOIC	12.59	11.34	10.06
		High-Speed				
AD585AQ	AD585AQ-ND	Prec. Sample and Hold Amp Mono HS	14-Dip	23.58	22.01	20.44
AD711JN	AD711JN-ND	Precision Op Amp BiFET HS	8-Dip	2.36	1.89	1.47
AD711JR	AD711JR-ND	Precision Op Amp BiFET HS	8-SOIC	2.32	1.86	1.45
AD810AN	AD810AN-ND	Current-Feedback Amp Video LP	8-Dip	4.93	3.95	3.07
AD810ANZ	AD810ANZ-ND	Current-Feedback Amp Video LP* NEW!	8-Dip	4.93	3.95	3.07
AD810AR	AD810AR-ND	Current-Feedback Amp Video LP	8-SOIC	4.93	3.95	3.07
AD810ARZ	AD810ARZ-ND	Current-Feedback Amp Video LP* NEW!	8-SOIC	4.93	3.95	3.07
AD811AN	AD811AN-ND	Currerit-Feedback Amp Video HS	8-Dip	7.68	6.15	5.19
AD811AR-16	AD811AR-16-ND	Current-Feedback Amp Video HS	16-SOIC	8.44	6.76	5.70
AD811ARZ-16	AD811ARZ-16-ND	Current-Feedback Amp Video HS* NEW!	16-SOIC	8.44	6.76	5.70
AD811JR	AD811JR-ND	Current-Feedback Amp Video HS	8-SOIC	7.68	6.15	5.19
AD812AN	AD812AN-ND	Current-Feedback Amp Dual LP	8-Dip	5.84	4.68	3.95
AD812AR	AD812AR-ND	Current-Feedback Amp Dual LP	8-SOIC	5.84	4.68	3.95
AD826AN	AD826AN-ND	Volt.-Feedback Amp Dual HS	8-Dip	4.97	3.98	3.10
AD826AR	AD826AR-ND	Volt.-Feedback Amp Dual HS	8-SOIC	4.97	3.98	3.10
AD827SQ	AD827SQ-ND	Op Amp HS Dual LP	8-CDip	30.14	28.13	26.12
AD829AR	AD829AR-ND	Video Op Amp Low Noise HS	8-SOIC	5.33	4.27	3.32
AD829JN	AD829JN-ND	Video Op Amp Low Noise HS	8-Dip	5.60	4.48	3.78
AD829JNZ	AD829JNZ-ND	Video Op Amp Low Noise HS	8-Dip	5.60	4.48	3.78
AD829JR	AD829JR-ND	Video Op Amp Low Noise HS	8-SOIC	5.60	4.48	3.78
AD829JR-REEL7	AD829JR-REEL7TR-ND	Video Op Amp Low Noise HS	8-SOIC	2667.00/750		
AD829JRZ	AD829JRZ-ND	Video Op Amp Low Noise HS	8-SOIC	5.60	4.48	3.78
AD843JRZ-16	AD843JRZ-16-ND	34MHz, CBFET Fast Settling Op Amp	16-SOIC	9.42	7.54	6.36

Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD844AN	AD844AN-ND	Op Amp Mono 60MHz	8-Dip	5.82	4.66	3.9
AD844JR-16	AD844JR-16-ND	Op Amp Mono 60MHz	16-SOIC	6.68	5.35	4.5
AD844JRZ-16	AD844JRZ-16-ND	Op Amp Mono 60MHz	16-SOIC	6.68	5.35	4.5
AD847AQ	AD847AQ-ND	Op Amp Mono 50MHz HS	8-CDip	7.60	6.08	5.1
AD847AR	AD847AR-ND	Op Amp Mono 50MHz HS	8-SOIC	5.82	4.66	3.9
AD847JN	AD847JN-ND	Op Amp Mono 50MHz HS	8-Dip	5.28	4.23	3.5
AD847JNZ	AD847JNZ-ND	Op Amp Mono 50MHz HS	8-Dip	5.28	4.23	3.5
AD847JR	AD847JR-ND	Op Amp Mono 50MHz HS	8-SOIC	6.60	5.28	4.4
AD848JN	AD848JN-ND	Op Amp Mono 175MHz HS	8-Dip	5.34	4.28	3.6
AD848JR	AD848JR-ND	Op Amp Mono 175MHz HS	8-SOIC	5.34	4.28	3.6
AD8001AN	AD8001AN-ND	Current-Feedback Amp, 800MHz	8-Dip	6.50	5.20	4.3
AD8001ANZ	AD8001ANZ-ND	Current-Feedback Amp, 800MHz* NEW!	8-Dip	6.50	5.20	4.3
AD8001AR	AD8001AR-ND	Current-Feedback Amp, 800MHz	8-SOIC	6.50	5.20	4.3
AD8001ART-REEL7	AD8001ART-REEL7CT-ND	Current-Feedback Amp, 800MHz	SOT-23-5	3.04	2.43	1.8
AD8001ART-REEL7	AD8001ART-REEL7TR-ND	Current-Feedback Amp, 800MHz	SOT-23-5	5103.00/3,000		
AD8001ARTZ-REEL7	AD8001ARTZREEL7CT-ND	Current-Feedback Amp, 800MHz* NEW!	SOT-23-5	3.04	2.43	1.8
AD8001ARTZ-REEL7	AD8001ARTZREEL7TR-ND	Current-Feedback Amp, 800MHz* NEW!	SOT-23-5	5103.00/3,000		
AD8002AR	AD8002AR-ND	Current-Feedback Amp Dual, 600MHz	8-SOIC	6.48	5.19	4.3
AD8002ARZ	AD8002ARZ-ND	Current-Feedback Amp Dual, 600MHz	8-SOIC	6.48	5.19	4.3
AD8002ARMZ	AD8002ARMZ-ND	Current-Feedback Amp Dual, 600MHz* NEW!	8-MSOP	5.68	4.55	3.8
AD8004AN	AD8004AN-ND	Current-Feedback Amp Quad	14-Dip	9.30	7.44	6.2
AD8004AR-14	AD8004AR-14-ND	Current-Feedback Amp Quad	14-SOIC	9.30	7.44	6.2
AD8004ARZ-14	AD8004ARZ-14-ND	Current-Feedback Amp Quad* NEW!	14-SOIC	9.30	7.44	6.2
AD8007AKS-REEL7	AD8007AKS-REEL7CT-ND	Current-Feedback Amp, 650MHz	SC70-5	2.68	2.15	1.6
AD8007AKS-REEL7	AD8007AKS-REEL7TR-ND	Current-Feedback Amp, 650MHz	SC70-5	4497.00/3,000		
AD8007AR	AD8007AR-ND	Current-Feedback Amp, 650MHz	8-SOIC	3.15	2.52	1.9
AD8007ARZ	AD8007ARZ-ND	Current-Feedback Amp, 650MHz	8-SOIC	3.15	2.52	1.9
AD8008AR	AD8008AR-ND	Current-Feedback Amp Dual	8-SOIC	5.27	4.22	3.2
AD8008ARM	AD8008ARM-ND	Current-Feedback Amp Dual	8-MSOP	5.27	4.22	3.2
AD8008ARMZ	AD8008ARMZ-ND	Current-Feedback Amp Dual* NEW!	8-MSOP	5.27	4.22	3.2
AD8009AR	AD8009AR-ND	Current-Feedback Amp 1GHz	8-SOIC	4.21	3.37	2.6
AD8009ARZ	AD8009ARZ-ND	Current-Feedback Amp 1GHz* NEW!	8-SOIC	4.21	3.37	2.6
AD8009AR-REEL7	AD8009AR-REEL7CT-ND	Current-Feedback Amp 1GHz	8-SOIC	4.21	3.37	2.6
AD8009AR-REEL7	AD8009AR-REEL7TR-ND	Current-Feedback Amp 1GHz	8-SOIC	1823.25/750		
AD8009JRT-REEL7	AD8009JRT-REEL7CT-ND	Current-Feedback Amp 1GHz	SOT-23-5	3.58	2.87	2.2
AD8009JRT-REEL7	AD8009JRT-REEL7TR-ND	Current-Feedback Amp 1GHz	SOT-23-5	6009.00/3,000		
AD8009JRTZ-R2	AD8009JRTZ-R2CT-ND	Current-Feedback Amp 1GHz* NEW!	SOT-23-5	5.04	4.04	3.1
AD8009JRTZ-R2	AD8009JRTZ-R2TR-ND	Current-Feedback Amp 1GHz* NEW!	SOT-23-5	744.75/250		
AD8010AN	AD8010AN-ND	Op Amp Low Power HS	8-Dip	6.12	4.90	4.1
AD8010AR	AD8010AR-ND	Op Amp Low Power HS	8-SOIC	6.12	4.90	4.1
AD8011AN	AD8011AN-ND	Current-Feedback Amp, 300MHz	8-Dip	4.86	3.89	3.0
AD8011ANZ	AD8011ANZ-ND	Current-Feedback Amp, 300MHz* NEW!	8-Dip	4.86	3.89	3.0
AD8011AR	AD8011AR-ND	Current-Feedback Amp, 300MHz	8-SOIC	4.86	3.89	3.0
AD8011ARZ	AD8011ARZ-ND	Current-Feedback Amp, 300MHz	8-SOIC	4.86	3.89	3.0
AD8011AR-REEL7	AD8011AR-REEL7CT-ND	Current-Feedback Amp, 300MHz	8-SOIC	4.86	3.89	3.0
AD8011AR-REEL7	AD8011AR-REEL7TR-ND	Current-Feedback Amp, 300MHz	8-SOIC	2106.00/750		
AD8012AR	AD8012AR-ND	Current-Feedback Dual Amp, 350MHz	8-SOIC	5.54	4.43	3.4
AD8012ARZ	AD8012ARZ-ND	Current-Feedback Dual Amp, 350MHz* NEW!	8-SOIC	5.54	4.43	3.4
AD8013AR-14	AD8013AR-14-ND	Op Amp Single Supply	14-SOIC	9.70	7.76	6.5
AD8021AR	AD8021AR-ND	Volt.-Feedback Amp, 200MHz HS	8-SOIC	3.42	2.74	2.1
AD8021ARM	AD8021ARM-ND	Volt.-Feedback Amp, 200MHz HS	8-MSOP	3.42	2.74	2.1
AD8021ARMZ	AD8021ARMZ-ND	Volt.-Feedback Amp, 200MHz HS	8-MSOP	3.42	2.74	2.1
AD8022AR	AD8022AR-ND	Op Amp Dual HS Low Noise	8-SOIC	5.10	4.08	3.4
AD8024AR	AD8024AR-ND	Amp Quad 24V 350MHz	16-SOIC	8.08	6.47	5.4
AD8024ARZ	AD8024ARZ-ND	Amp Quad 24V 350MHz	16-SOIC	8.08	6.47	5.4
AD8027AR	AD8027AR-ND	Op Amp R-R In/Out HS	8-SOIC	3.15	2.52	1.9
AD8027ARZ	AD8027ARZ-ND	Op Amp R-R In/Out HS* NEW!	8-SOIC	3.15	2.52	1.9
AD8027ART-R2	AD8027ART-R2CT-ND	Op Amp R-R In/Out HS	SOT-23-6	2.70	2.16	1.6
AD8027ART-R2	AD8027ART-R2TR-ND	Op Amp R-R In/Out HS	SOT-23-6	399.00/250		
AD8027ART-REEL7	AD8027ART-REEL7CT-ND	Op Amp R-R In/Out HS	SOT-23-6	2.68	2.15	1.6
AD8027ART-REEL7	AD8027ART-REEL7TR-ND	Op Amp R-R In/Out HS	SOT-23-6	4497.00/3,000		
AD8028ARM	AD8028ARM-ND	Op Amp R-R In/Out HS	10-MSOP	5.00	4.00	3.1
AD8028ARMZ	AD8028ARMZ-ND	Op Amp R-R In/Out HS* NEW!	10-MSOP	5.00	4.00	3.1
AD8028ARZ	AD8028ARZ-ND	Op Amp R-R In/Out HS* NEW!	8-SOIC	5.00	4.00	3.1
AD8029AKS-R2	AD8029AKS-R2CT-ND	Op Amp R-R In/Out HS LP	SC70-6	2.70	2.16	1.6
AD8029AKS-R2	AD8029AKS-R2TR-ND	Op Amp R-R In/Out HS LP	SC70-6	399.00/250		
AD8029AKSZ-R2	AD8029AKSZ-R2CT-ND	Op Amp R-R In/Out HS LP* NEW!	SC70-6	2.70	2.16	1.6
AD8029AKSZ-R2	AD8029AKSZ-R2TR-ND	Op Amp R-R In/Out HS LP* NEW!	SC70-6	399.00/250		
AD8030AR	AD8030AR-ND	Op Amp R-R In/Out HS LP	8-SOIC	3.17	2.54	1.9
AD8030ARJ-R2	AD8030ARJ-R2CT-ND	Op Amp Dual R-R In/Out HS LP	SOT-23-8	3.17	2.54	1.9
AD8030ARJ-R2	AD8030ARJ-R2TR-ND	Op Amp Dual R-R In/Out HS LP	SOT-23-8	468.75/250		
AD8031AR	AD8031AR-ND	Volt.-Feedback Amp Single R-R	8-SOIC	2.86	2.29	1.7
AD8031ART-REEL7	AD8031ART-REEL7CT-ND	Volt.-Feedback Amp Single R-R	SOT-23-5	2.52	2.02	1.5
AD8031ART-REEL7	AD8031ART-REEL7TR-ND	Volt.-Feedback Amp Single R-R	SOT-23-5	4233.00/3,000		
AD8031BN	AD8031BN-ND	Volt.-Feedback Amp Single R-R	8-Dip	4.79	3.84	2.9
AD8031BR	AD8031BR-ND	Volt.-Feedback Amp Single R-R	8-SOIC	4.79	3.84	2.9
AD8031BRZ	AD8031BRZ-ND	Volt.-Feedback Amp Single R-R	8-SOIC	4.79	3.84	2.9
AD8032ANZ	AD8032ANZ-ND	Volt.-Feedback Amp Dual R-R* NEW!	8-Dip	4.43	3.55	2.7
AD8032AR	AD8032AR-ND	Volt.-Feedback Amp Dual R-R	8-SOIC	4.43	3.55	2.7
AD8032ARM	AD8032ARM-ND	Volt.-Feedback Amp Dual R-R	8-MSOP	4.43	3.55	2.7
AD8032ARZ	AD8032ARZ-ND	Volt.-Feedback Amp Dual R-R	8-SOIC	4.43	3.55	2.7
AD8032BR	AD8032BR-ND	Volt.-Feedback Amp Dual R-R	8-SOIC	6.18	4.95	4.1
AD8033AKS-R2	AD8033AKS-R2CT-ND	Volt.-Feedback Amp Single	SC-70	3.78	3.03	2.3
AD8033AKS-R2	AD8033AKS-R2TR-ND	Volt.-Feedback Amp Single	SC-70	558.50/250		
AD8033AR	AD8033AR-ND	Volt.-Feedback Amp Single	8-SOIC	2.81	2.25	1.7
AD8033ARZ	AD8033ARZ-ND	Volt.-Feedback Amp Single* NEW!	8-SOIC	2.81	2.25	1.7
AD8034AR	AD8034AR-ND	Volt.-Feedback Amp Dual	8-SOIC	4.21	3.37	2.6
AD8036AR	AD8036AR-ND	Volt.-Feedback Clamp Amp	8-SOIC	8.40	7.56	6.7
AD8037AN	AD8037AN-ND	Volt.-Feedback Amp Output Clamping	8-Dip	9.70	7.76	6.5
AD8037AR	AD8037AR-ND	Volt.-Feedback Amp Output Clamping	8-SOIC	9.70	7.76	6.5
AD8038AR	AD8038AR-ND	Volt.-Feedback Amp 350MHz LP	8-SOIC	2.25	1.80	1.4
AD8039AR	AD8039AR-ND	Volt.-Feedback Amp 350MHz LP	8-SOIC	3.17	2.54	1.9
AD8039ARZ	AD8039ARZ-ND	Volt.-Feedback Amp 350MHz LP* NEW!	8-SOIC	3.17	2.54	1.9
AD8039ART-REEL7	AD8039ART-REEL7CT-ND	Volt.-Feedback Amp 350MHz LP	SOT-23-8	2.70	2.16	1.6
AD8039ART-REEL7	AD8039ART-REEL7TR-ND	Volt.-Feedback Amp 350MHz LP	SOT-23-8	4536.00/3,000		

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Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
D8039ARTZ-REEL7	AD8039ARTZREEL7CT-ND	Volt.-Feedback Amp 350MHz LP* **NEW!**	SOT-23-8	2.70	2.16	1.68
D8039ARTZ-REEL7	AD8039ARTZREEL7TR-ND	Volt.-Feedback Amp 350MHz LP* **NEW!**	SOT-23-8		4536.00/3,000	
D8040AR	AD8040AR-ND	LP, HS, R-R In/Out Amp	14-SOIC	4.23	3.39	2.64
D8040ARZ	AD8040ARZ-ND	LP, HS, R-R In/Out Amp* **NEW!**	14-SOIC	4.23	3.39	2.64
D8041AN	AD8041AN-ND	Volt.-Feedback Amp with Disable	8-Dip	3.76	3.01	2.34
D8041AR	AD8041AR-ND	Volt.-Feedback Amp with Disable	8-SOIC	3.76	3.01	2.34
D8042AR	AD8042AR-ND	Volt.-Feedback Amp Dual R-R	8-SOIC	5.13	4.11	3.20
D8044AR-14	AD8044AR-14-ND	Volt.-Feedback Amp Quad R-R	14-SOIC	8.00	6.40	5.40
D8047AR	AD8047AR-ND	Volt.-Feedback Amp R-R	8-SOIC	4.86	3.89	3.03
D8051AR	AD8051AR-ND	Volt.-Feedback Amp Single HS	8-SOIC	2.13	1.70	1.28
D8051ART-REEL7	AD8051ART-REEL7CT-ND	Volt.-Feedback Amp Single HS	SOT-23-5	2.13	1.70	1.28
D8051ART-REEL7	AD8051ART-REEL7TR-ND	Volt.-Feedback Amp Single HS	SOT-23-5		3264.00/3,000	
D8052AR	AD8052AR-ND	Volt.-Feedback Amp Dual HS	8-SOIC	3.65	2.92	2.27
D8052ARM	AD8052ARM-ND	Volt.-Feedback Amp Dual HS	8-MSOP	3.65	2.92	2.27
D8054AR	AD8054AR-ND	Volt.-Feedback Amp Quad HS	14-SOIC	5.76	4.61	3.89
D8054AR-REEL7	AD8054AR-REEL7CT-ND	Volt.-Feedback Amp Quad HS	14-SOIC	5.76	4.61	3.89
D8054AR-REEL7	AD8054AR-REEL7TR-ND	Volt.-Feedback Amp Quad HS	14-SOIC		2743.50/750	
D8054ARU	AD8054ARU-ND	Volt.-Feedback Amp Quad HS	14-TSSOP	6.06	4.85	4.10
D8055AN	AD8055AN-ND	Volt.-Feedback Amp Single	8-Dip	2.15	1.72	1.29
D8055AR	AD8055AR-ND	Volt.-Feedback Amp Single	8-SOIC	2.15	1.72	1.29
D8055ARZ	AD8055ARZ-ND	Volt.-Feedback Amp Single* **NEW!**	8-SOIC	2.15	1.72	1.29
D8055ART-REEL7	AD8055ART-REEL7CT-ND	Volt.-Feedback Amp Single	SOT-23-5	1.83	1.46	1.10
D8055ART-REEL7	AD8055ART-REEL7TR-ND	Volt.-Feedback Amp Single	8-SOIC		2802.00/3,000	
D8056AR	AD8056AR-ND	Volt.-Feedback Amp Dual	8-SOIC	3.65	2.92	2.27
D8056AR-REEL7	AD8056AR-REEL7TR-ND	Volt.-Feedback Amp Dual	8-SOIC		1579.50/750	
D8056ARM	AD8056ARM-ND	Volt.-Feedback Amp Dual	8-MSOP	3.65	2.92	2.27
D8057AR	AD8057AR-ND	Volt.-Feedback Amp Single	8-SOIC	2.15	1.72	1.29
D8058AR	AD8058AR-ND	Volt.-Feedback Amp Dual	8-SOIC	3.65	2.92	2.27
D8061ART-REEL7	AD8061ART-REEL7CT-ND	Volt.-Feedback Amp R-R	SOT-23-5	1.83	1.46	1.10
D8061ART-REEL7	AD8061ART-REEL7TR-ND	Volt.-Feedback Amp R-R	SOT-23-5		2802.00/3,000	
D8062AR	AD8062AR-ND	Volt.-Feedback Amp R-R Out	8-SOIC	3.65	2.92	2.27
D8062ARM	AD8062ARM-ND	Volt.-Feedback Amp R-R Out	8-MSOP	3.65	2.92	2.27
D8065AR	AD8065AR-ND	Volt.-Feedback Amp Single HS	8-SOIC	4.21	3.37	2.62
D8065ART-REEL7	AD8065ART-REEL7CT-ND	Volt.-Feedback Amp Single HS	SOT-23-8	3.58	2.87	2.23
D8065ART-REEL7	AD8065ART-REEL7TR-ND	Volt.-Feedback Amp Single HS	SOT-23-8		6009.00/3,000	
D8066AR	AD8066AR-ND	Volt.-Feedback Amp Dual HS	8-SOIC	5.38	4.31	3.64
D8066ARM	AD8066ARM-ND	Volt.-Feedback Amp Dual HS	8-MSOP	5.38	4.31	3.64
D8067ART-R2	AD8067ART-R2CT-ND	Amp FET-In High Performance	SOT-23-5	6.46	5.17	4.37
D8067ART-R2	AD8067ART-R2TR-ND	Amp FET-In High Performance	SOT-23-5		1049.75/250	
D8067ART-REEL7	AD8067ART-REEL7CT-ND	Amp FET-In High Performance	SOT-23-5	5.15	4.13	3.21
D8067ART-REEL7	AD8067ART-REEL7TR-ND	Amp FET-In High Performance	SOT-23-5		8655.00/3,000	
D8091AR	AD8091AR-ND	Volt.-Feedback Amp Single R-R	8-SOIC	2.03	1.62	1.22
D8092AR	AD8092AR-ND	Volt.-Feedback Amp Dual R-R	8-SOIC	2.63	2.10	1.58
D8092ARM	AD8092ARM-ND	Volt.-Feedback Amp Dual R-R	8-MSOP	2.63	2.10	1.58
D8092ARZ	AD8092ARZ-ND	Volt.-Feedback Amp Dual R-R	8-SOIC	2.63	2.10	1.58
D8099ACP-R2	AD8099ACP-R2CT-ND	Volt.-Feedback HS Op Amp	8-LFCSP	5.60	4.48	3.78
D8099ACP-R2	AD8099ACP-R2TR-ND	Volt.-Feedback HS Op Amp	8-LFCSP		910.00/250	
D8099ACPZ-R2	AD8099ACPZ-R2-ND	Volt.-Feedback HS Op Amp* **NEW!**	8-LFCSP	5.60	4.48	3.78
D8099ARD	AD8099ARD-ND	Volt.-Feedback HS Op Amp	8-SOIC	5.24	4.20	3.27
D8099ARDZ	AD8099ARDZ-ND	Volt.-Feedback HS Op Amp	8-SOIC	5.24	4.20	3.27
D8132AR	AD8132AR-ND	Differential Amp 350MHz HS	8-SOIC	4.39	3.51	2.73
D8132ARM	AD8132ARM-ND	Differential Amp 350MHz HS	8-MSOP	4.39	3.51	2.73
D8132ARZ	AD8132ARZ-ND	Differential Amp 350MHz HS	8-SOIC	4.39	3.51	2.73
D8137YR	AD8137YR-ND	Differential 12-Bit ADC Driver	8-SOIC	2.56	2.05	1.73
D8137YRZ	AD8137YRZ-ND	Differential 12-Bit ADC Driver	8-SOIC	2.56	2.05	1.73
D8138AR	AD8138AR-ND	Diff. ADC Driver Low Distortion	8-SOIC	8.50	6.80	5.74
D8138ARM	AD8138ARM-ND	Diff. ADC Driver Low Distortion	8-MSOP	8.50	6.80	5.74
D8139ARD	AD8139ARD-ND	Differential LN R-R ADC Driver	8-SOIC	8.44	6.76	5.70
D8139ARDZ	AD8139ARDZ-ND	Differential LN R-R ADC Driver	8-SOIC	8.44	6.76	5.70
D8351ARM	AD8351ARM-ND	Diff. RF/IF Amp Low Distribution	10-MSOP	7.90	6.32	5.34
D8351ARMZ	AD8351ARMZ-ND	Diff. RF/IF Amp Low Distribution* **NEW!**	10-MSOP	7.90	6.32	5.34
D8351-EVAL	AD8351-EVAL-ND	Evaluation Board for AD8351	—	118.80	—	—
D8644AR	AD8644AR-ND	Op Amp 18V Quad 5.5MHz	14-SOIC	4.75	3.80	2.96
D9631AR	AD9631AR-ND	Volt.-Feedback Op Amp WB	8-SOIC	8.66	6.93	5.85
P42FZ	OP42FZ-ND	Op Amp Precision HS Fast Set	8-CDip	6.46	5.17	4.37
P42GP	OP42GP-ND	Op Amp Precision HS Fast Set	8-Dip	4.37	3.50	2.72
P42GS	OP42GS-ND	Op Amp Precision HS Fast Set	8-SOIC	4.37	3.50	2.72
P42GSZ	OP42GSZ-ND	Op Amp Precision HS Fast Set	8-SOIC	4.37	3.50	2.72
P162GS	OP162GS-ND	Op Amp 15MHz R-R	8-SOIC	3.20	2.56	1.99
P249AZ	OP249AZ-ND	Op Amp Dual JFET Precision HS	8-CDip	16.31	14.69	13.03
P249FZ	OP249FZ-ND	Op Amp Dual JFET Precision HS	8-CDip	8.84	7.08	5.97
P249GP	OP249GP-ND	Op Amp Dual JFET Precision HS	8-Dip	3.53	2.83	2.20
P249GS	OP249GS-ND	Op Amp Dual JFET Precision HS	8-SOIC	3.53	2.83	2.20
P249GSZ	OP249GSZ-ND	Op Amp Dual JFET Precision HS	8-SOIC	3.53	2.83	2.20
P271GP	OP271GP-ND	Op Amp Dual HS	8-Dip	5.11	4.09	3.18
P462GS	OP462GS-ND	Op Amp Quad R-R HS	14-SOIC	6.92	5.54	4.68
P467GP	OP467GP-ND	Op Amp Quad Precision HS	14-Dip	10.66	9.60	8.52
P467GS	OP467GS-ND	Op Amp Quad Precision HS	16-SOIC	11.48	10.34	9.17
P482GP	OP482GP-ND	Op Amp Quad JFET HS Low Power	14-Dip	4.21	3.37	2.62
P482GS	OP482GS-ND	Op Amp Quad JFET HS Low Power	14-SOIC	3.78	3.03	2.36
		Instrumentation				
D521JD	AD521JD-ND	Instrumentation Amp Prog. Gain	14-Dip	29.66	27.68	25.71
D524AD	AD524AD-ND	Instrumentation Amp Precision	16-Dip	16.08	15.01	13.94
D524AR-16	AD524AR-16-ND	Instrumentation Amp Precision	16-SOIC	12.25	11.03	9.78
D524BD	AD524BD-ND	Instrumentation Amp Precision	16-Dip	25.23	23.55	21.87
D524CD	AD524CD-ND	Instrumentation Amp Precision	16-Dip	40.59	37.89	35.18
D526BD	AD526BD-ND	Gain Amp Software Prog.	16-Dip	16.16	15.08	14.01
D526JN	AD526JN-ND	Gain Amp Software Prog.	16-Dip	9.10	8.19	7.27
D526JNZ	AD526JNZ-ND	Gain Amp Software Prog.* **NEW!**	16-Dip	9.10	8.19	7.27
D595AD	AD595AD-ND	Thermocouple Instrumentation Amp	14-CDip	17.84	16.65	15.46
D595CD	AD595CD-ND	Thermocouple Instrumentation Amp	14-CDip	27.23	25.41	23.60
D620AN	AD620AN-ND	Instrumentation Amp LP	8-Dip	6.62	5.30	4.47
D620ANZ	AD620ANZ-ND	Instrumentation Amp LP* **NEW!**	8-Dip	6.62	5.30	4.47
D620AR	AD620AR-ND	Instrumentation Amp LP	8-SOIC	6.62	5.30	4.47
D620AR-REEL7	AD620AR-REEL7TR-ND	Instrumentation Amp LP	8-SOIC		3153.00/750	
D620BN	AD620BN-ND	Instrumentation Amp LP	8-Dip	9.94	7.96	6.71
D620BNZ	AD620BNZ-ND	Instrumentation Amp LP	8-Dip	9.94	7.96	6.71
D620BR	AD620BR-ND	Instrumentation Amp LP	8-SOIC	9.94	7.96	6.71
D620BR-REEL7	AD620BR-REEL7CT-ND	Instrumentation Amp LP	8-SOIC	9.94	7.96	6.71
D620BR-REEL7	AD620BR-REEL7TR-ND	Instrumentation Amp LP	8-SOIC		4734.00/750	
D621AN	AD621AN-ND	Instrumentation Amp LP Low Drift	8-Dip	7.74	6.20	5.23
D621ANZ	AD621ANZ-ND	Instrumentation Amp LP Low Drift* **NEW!**	8-Dip	7.74	6.20	5.23
D621AR	AD621AR-ND	Instrumentation Amp LP Low Drift	8-SOIC	7.74	6.20	5.23
D621ARZ	AD621ARZ-ND	Instrumentation Amp LP Low Drift* **NEW!**	8-SOIC	7.74	6.20	5.23
D621BN	AD621BN-ND	Instrumentation Amp LP Low Drift	8-Dip	9.68	8.72	7.73
D621BNZ	AD621BNZ-ND	Instrumentation Amp LP Low Drift* **NEW!**	8-Dip	9.68	8.72	7.73
D621BR	AD621BR-ND	Instrumentation Amp LP Low Drift	8-SOIC	9.68	8.72	7.73
D621BRZ	AD621BRZ-ND	Instrumentation Amp LP Low Drift* **NEW!**	8-SOIC	9.68	8.72	7.73
AD622AN	AD622AN-ND	Instrumentation Amp	8-Dip	5.13	4.11	3.20
AD622ANZ	AD622ANZ-ND	Instrumentation Amp* **NEW!**	8-Dip	5.13	4.11	3.20
AD622AR	AD622AR-ND	Instrumentation Amp	8-SOIC	5.13	4.11	3.20
AD622ARZ	AD622ARZ-ND	Instrumentation Amp* **NEW!**	8-SOIC	5.13	4.11	3.20
AD622AR-REEL7	AD622AR-REEL7CT-ND	Instrumentation Amp	8-SOIC	5.13	4.11	3.20
AD622AR-REEL7	AD622AR-REEL7TR-ND	Instrumentation Amp	8-SOIC		2223.00/750	
AD623AN	AD623AN-ND	Instrumentation Amp R-R Out	8-Dip	4.10	3.28	2.55
AD623ANZ	AD623ANZ-ND	Instrumentation Amp R-R Out* **NEW!**	8-Dip	4.10	3.28	2.55
AD623AR	AD623AR-ND	Instrumentation Amp R-R Out	8-SOIC	3.49	2.79	2.17
AD623ARZ	AD623ARZ-ND	Instrumentation Amp R-R Out* **NEW!**	8-SOIC	3.49	2.79	2.17
AD623AR-REEL7	AD623AR-REEL7TR-ND	Instrumentation Amp R-R Out	8-SOIC		1976.00/1,000	
AD623ARM	AD623ARM-ND	Instrumentation Amp R-R Out	8-MSOP	3.49	2.79	2.17
AD623BR	AD623BR-ND	Instrumentation Amp R-R Out	8-SOIC	5.64	4.52	3.81
AD623BRZ	AD623BRZ-ND	Instrumentation Amp R-R Out* **NEW!**	8-SOIC	5.64	4.52	3.81
AD624AD	AD624AD-ND	Instrumentation Amp Precision LN	16-Dip	19.32	18.04	16.75
AD624BD	AD624BD-ND	Instrumentation Amp Precision LN	16-Dip	31.65	29.54	27.43
AD624CD	AD624CD-ND	Instrumentation Amp Precision LN	16-Dip	47.42	44.26	41.10
AD625AD	AD625AD-ND	Instrumentation Amp Prog. Gain	16-Dip	16.23	15.15	14.07
AD625BD	AD625BD-ND	Instrumentation Amp Prog. Gain	16-Dip	27.44	25.61	23.78
AD625JN	AD625JN-ND	Instrumentation Amp Prog. Gain	16-Dip	12.53	11.28	10.01
AD625JNZ	AD625JNZ-ND	Instrumentation Amp Prog. Gain* **NEW!**	16-Dip	12.53	11.28	10.01
AD625KN	AD625KN-ND	Instrumentation Amp Prog. Gain	16-Dip	15.99	14.93	13.86
AD625KNZ	AD625KNZ-ND	Instrumentation Amp Prog. Gain* **NEW!**	16-Dip	15.99	14.93	13.86
AD626AN	AD626AN-ND	Diff. Amp True Single Supply	8-Dip	6.34	5.08	4.28
AD626ANZ	AD626ANZ-ND	Diff. Amp True Single Supply* **NEW!**	8-Dip	6.34	5.08	4.28
AD626AR	AD626AR-ND	Diff. Amp True Single Supply	8-SOIC	6.34	5.08	4.28
AD626BNZ	AD626BNZ-ND	Diff. Amp True Single Supply* **NEW!**	8-Dip	8.66	6.93	5.85
AD627AN	AD627AN-ND	Instrumentation Amp Single/Dual R-R	8-Dip	5.42	4.34	3.66
AD627ANZ	AD627ANZ-ND	Instrumentation Amp Single/Dual R-R* **NEW!**	8-Dip	5.42	4.34	3.66
AD627AR	AD627AR-ND	Instrumentation Amp Single/Dual R-R	8-SOIC	5.42	4.34	3.66
AD627ARZ-R7	AD627ARZ-R7CT-ND	Instrumentation Amp Single/Dual R-R* **NEW!**	8-SOIC	5.42	4.34	3.66
AD627ARZ-R7	AD627ARZ-R7TR-ND	Instrumentation Amp Single/Dual R-R* **NEW!**	8-SOIC		3388.00/1,000	
AD627BR	AD627BR-ND	Instrumentation Amp Single/Dual R-R	8-SOIC	7.58	6.07	5.12
AD628AR	AD628AR-ND	Diff. Amp High-Common Mode Voltage Programmable	8-SOIC	4.34	3.48	2.71
AD628ARZ	AD628ARZ-ND	Diff. Amp High-Common Mode Voltage Programmable* **NEW!**	8-SOIC	4.34	3.48	2.71
AD628ARM	AD628ARM-ND	Diff. Amp High-Common Mode Voltage Programmable	8-MSOP	4.34	3.48	2.71
AD628ARMZ	AD628ARMZ-ND	Diff. Amp High-Common Mode Voltage Programmable* **NEW!**	8-MSOP	4.34	3.48	2.71
AD629AN	AD629AN-ND	Diff. Amp High-Common Mode Volt.	8-Dip	6.02	4.82	4.07
AD629ANZ	AD629ANZ-ND	Diff. Amp High-Common Mode Volt.* **NEW!**	8-Dip	6.02	4.82	4.07
AD629AR	AD629AR-ND	Diff. Amp High-Common Mode Volt.	8-SOIC	6.02	4.82	4.07
AD629ARZ	AD629ARZ-ND	Diff. Amp High-Common Mode Volt.	8-SOIC	6.02	4.82	4.07
AD629BN	AD629BN-ND	Diff. Amp High-Common Mode Volt.	8-Dip	9.30	7.44	6.28
AD629BNZ	AD629BNZ-ND	Diff. Amp High-Common Mode Volt.* **NEW!**	8-Dip	9.30	7.44	6.28
AD629BR	AD629BR-ND	Diff. Amp High-Common Mode Volt.	8-SOIC	9.30	7.44	6.28
AD629BRZ	AD629BRZ-ND	Diff. Amp High-Common Mode Volt.* **NEW!**	8-SOIC	9.30	7.44	6.28
AD8225AR	AD8225AR-ND	Instrument Amp Precision Gain of 5	8-SOIC	6.96	5.57	4.70
AD8225ARZ	AD8225ARZ-ND	Instrument Amp Precision Gain of 5* **NEW!**	8-SOIC	6.96	5.57	4.70
AD8555ACPZ-R2	AD8555ACPZ-R2CT-ND	0-Drift, Digitally Programmable Sensor Signal Amp	16-LFCSP	8.72	6.98	5.89
AD8555ACPZ-R2	AD8555ACPZ-R2TR-ND	0-Drift, Digitally Programmable Sensor Signal Amp	16-LFCSP		1417.00/250	
AD8555AR	AD8555AR-ND	0-Drift, Digitally Programmable Sensor Signal Amp	8-SOIC	7.00	5.60	4.73
AD8555ARZ	AD8555ARZ-ND	0-Drift, Digitally Programmable Sensor Signal Amp	8-SOIC	7.00	5.60	4.73
AMP01EX	AMP01EX-ND	Amp Instrument Precision LN	18-CDip	24.93	23.27	21.61
AMP01FX	AMP01FX-ND	Amp Instrument Precision LN	18-CDip	16.23	14.61	12.96
AMP01GS	AMP01GS-ND	Amp Instrument Precision LN	20-SOIC	14.58	13.13	11.64
AMP02EP	AMP02EP-ND	Amp Instrument Precision	8-Dip	14.36	12.93	11.47
AMP02FP	AMP02FP-ND	Amp Instrument Precision	8-Dip	8.61	7.76	6.88
AMP02FS	AMP02FS-ND	Amp Instrument Precision	16-SOIC	8.61	7.76	6.88
AMP04EP	AMP04EP-ND	Amp Instrument Precision Single	8-Dip	10.96	9.87	8.76
AMP04ES	AMP04ES-ND	Amp Instrument Precision Single	8-SOIC	10.96	9.87	8.76
AMP04FP	AMP04FP-ND	Amp Instrument Precision Single	8-Dip	9.38	7.51	6.34
AMP04FS	AMP04FS-ND	Amp Instrument Precision Single	8-SOIC	9.38	7.51	6.34
OP227EY	OP227EY-ND	Op Amp Dual Instrument LN	14-CDip	19.52	18.22	16.92
OP227GY	OP227GY-ND	Op Amp Dual Instrument LN	14-CDip	11.51	10.37	9.20
		Isolation				
AD202JN	AD202JN-ND	Isolated Amp 2-Port 2KHz	38-Dip	33.60	31.36	29.12
AD202JY	AD202JY-ND	Isolated Amp 2-Port 2KHz	38-Sip	33.60	31.36	29.12
AD202KN	AD202KN-ND	Isolated Amp 2-Port 2KHz	38-Dip	38.40	35.84	33.28
AD202KY	AD202KY-ND	Isolated Amp 2-Port 2KHz	38-Sip	38.40	35.84	33.28
AD203SN	AD203SN-ND	Isolated Amp 10KHz	38-Dip	121.61	113.50	105.40
AD204JN	AD204JN-ND	Isolated Amp 4-Channel	10-Dip	37.50	35.00	32.50
AD204JY	AD204JY-ND	Isolated Amp 2-Port 5KHz	38-Sip	37.50	35.00	32.50
AD210AN	AD210AN-ND	Isolated Amp 3-Port 20KHz	12-Dip	73.50	68.60	63.70
AD210BN	AD210BN-ND	Isolated Amp 3-Port 20KHz	12-Dip	88.50	82.60	76.70
AD210JN	AD210JN-ND	Isolated Amp 3-Port 20KHz	12-Dip	66.00	61.60	57.20
AD215BY	AD215BY-ND	Isolated Amp 120KHz	12-Sip	75.00	70.00	65.00

* Lead Free/RoHS Compliant

(Continued)

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B

Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
		Line Driver				
AD815ARB-24	AD815ARB-24-ND	High Output Current Diff. Driver	24-SOIC	9.75	8.78	7.79
AD8016ARE	AD8016ARE-ND	Amp XDSL Line Driver	28-TSSOP	8.30	6.64	5.61
AD8018AR-REEL7	AD8018AR-REEL7CT-ND	XDSL Line Driver R-R	8-SOIC	5.90	4.72	3.99
AD8018AR-REEL7	AD8018AR-REEL7TR-ND	XDSL Line Driver R-R	8-SOIC		3688.00/1,000	
AD45048AR	AD45048AR-ND	ADSL Line Driver R-R ***NEW!***	8-SOIC	5.38	4.31	3.64
		Log				
AD606JN	AD606JN-ND	Demod Log Amp 50MHz 5V	16-Dip	35.42	33.06	30.70
AD606JR	AD606JR-ND	Demod Log Amp 50MHz 5V	16-SOIC	35.42	33.06	30.70
AD640BP	AD640BP-ND	Logarithmic Amp Demod	20-PLCC	94.59	88.29	81.98
AD640JN	AD640JN-ND	Logarithmic Amp Demod	20-Dip	42.51	39.68	36.85
AD641AP	AD641AP-ND	Logarithmic Amp Demod	20-PLCC	38.25	35.70	33.15
AD8304ARU	AD8304ARU-ND	Logarithmic Converter 160dB	14-TSSOP	20.63	19.25	17.88
AD8304ARUZ	AD8304ARUZ-ND	Logarithmic Converter 160dB* ***NEW!***	14-TSSOP	20.63	19.25	17.88
AD8305ACP-R2	AD8305ACP-R2CT-ND	Logarithmic Converter 100dB	16-LFCSP	14.31	12.89	11.43
AD8305ACP-R2	AD8305ACP-R2TR-ND	Logarithmic Converter 100dB	16-LFCSP		2738.00/250	
AD8306AR	AD8306AR-ND	Logarithmic Amp 5-400MHz	16-SOIC	27.75	25.90	24.05
AD8307AN	AD8307AN-ND	Logarithmic Amp 92dB	8-Dip	11.83	10.65	9.45
AD8307AR	AD8307AR-ND	Logarithmic Amp 92dB	8-SOIC	11.83	10.65	9.45
AD8307AR-REEL7	AD8307AR-REEL7CT-ND	Logarithmic Amp 92dB	8-SOIC	11.83	10.65	9.45
AD8307AR-REEL7	AD8307AR-REEL7TR-ND	Logarithmic Amp 92dB	8-SOIC		6656.25/750	
AD8309ARU	AD8309ARU-ND	Logarithmic Amp 100dB	16-TSSOP	16.24	14.63	12.97
AD8309-EVAL	AD8309-EVAL-ND	Evaluation Board for AD8309	—	111.38	—	—
AD8310ARM	AD8310ARM-ND	Logarithmic Amp 95dB	8-MSOP	9.90	7.92	6.69
AD8310-EVAL	AD8310-EVAL-ND	Evaluation Board for AD8310	—	111.38	—	—
AD8313ARM	AD8313ARM-ND	Logarithmic Amp 70dB	8-MSOP	18.38	17.15	15.93
AD8313ARM-REEL7	AD8313ARM-REEL7CT-ND	Logarithmic Amp 70dB	8-MSOP	18.38	17.15	15.93
AD8313ARM-REEL7	AD8313ARM-REEL7TR-ND	Logarithmic Amp 70dB	8-MSOP		15129.00/1,000	
AD8313-EVAL	AD8313-EVAL-ND	Evaluation Board for AD8313	—	111.38	—	—
ADL5310ACP-R2	ADL5310ACP-R2CT-ND	Dual Logarithmic Converter, 120dB	24-LFCSP	18.69	17.45	16.20
ADL5310ACP-R2	ADL5310ACP-R2TR-ND	Dual Logarithmic Converter, 120dB	24-LFCSP		3971.75/250	
		Low Noise				
AD795JR	AD795JR-ND	Precision Op Amp FET LP LN	8-SOIC	6.60	5.28	4.46
AD795JRZ	AD795JRZ-ND	Precision Op Amp FET LP LN* ***NEW!***	8-SOIC	6.60	5.28	4.46
AD797AN	AD797AN-ND	Op Amp Low Distortion LN	8-Dip	9.58	7.67	6.47
AD797ANZ	AD797ANZ-ND	Op Amp Low Distortion LN* ***NEW!***	8-Dip	9.58	7.67	6.47
AD797AR	AD797AR-ND	Op Amp Low Distortion LN	8-SOIC	9.58	7.67	6.47
AD797BR	AD797BR-ND	Op Amp Low Distortion LN	8-SOIC	10.85	9.77	8.66
AD8350AR20	AD8350AR20-ND	Amp Diff Low-Distortion	8-SOIC	6.52	5.22	4.41
AD8350ARM15	AD8350ARM15-ND	Amp Diff Low-Distortion	8-MSOP	6.52	5.22	4.41
AD8510AR	AD8510AR-ND	Prec. Op Amp JFET Single LN	8-SOIC	2.59	2.07	1.61
AD8510BR	AD8510BR-ND	Prec. Op Amp JFET Single LN	8-SOIC	5.49	4.40	3.42
AD8510BRZ	AD8510BRZ-ND	Prec. Op Amp JFET Single LN* ***NEW!***	8-SOIC	5.49	4.40	3.42
AD8512AR	AD8512AR-ND	Prec. Op Amp JFET Dual LN	8-SOIC	3.89	3.12	2.43
AD8512ARZ	AD8512ARZ-ND	Prec. Op Amp JFET Dual LN* ***NEW!***	8-SOIC	3.89	3.12	2.43
AD8512BR	AD8512BR-ND	Prec. Op Amp JFET Dual LN	8-SOIC	9.98	7.99	6.74
AD8512BRZ	AD8512BRZ-ND	Prec. Op Amp JFET Dual LN* ***NEW!***	8-SOIC	9.98	7.99	6.74
AD8610AR	AD8610AR-ND	Op Amp Precision JFET LN	8-SOIC	8.00	6.40	5.40
AD8610BR	AD8610BR-ND	Op Amp Precision JFET LN	8-SOIC	15.75	14.70	13.65
AD8651AR	AD8651AR-ND	Op Amp 50MHz Low Distortion LN	8-SOIC	2.81	2.25	1.75
AD8651ARZ	AD8651ARZ-ND	Op Amp 50MHz Low Distortion LN* ***NEW!***	8-SOIC	2.81	2.25	1.75
AD8651ARM-R2	AD8651ARM-R2CT-ND	Op Amp 50MHz Low Distortion LN	8-MSOP	3.76	3.01	2.34
AD8651ARM-R2	AD8651ARM-R2TR-ND	Op Amp 50MHz Low Distortion LN	8-MSOP		555.25/250	
AD8651ARMZ-R2	AD8651ARMZ-R2CT-ND	Op Amp 50MHz Low Distortion LN* ***NEW!***	8-MSOP	3.76	3.01	2.34
AD8651ARMZ-R2	AD8651ARMZ-R2TR-ND	Op Amp 50MHz Low Distortion LN* ***NEW!***	8-MSOP		555.25/250	
AD8671AR	AD8671AR-ND	Op Amp Precision Single LN	8-SOIC	2.79	2.24	1.74
AD8671ARZ	AD8671ARZ-ND	Op Amp Precision Single LN* ***NEW!***	8-SOIC	2.79	2.24	1.74
AD8671ARM-R2	AD8671ARM-R2CT-ND	Op Amp Precision Single LN	8-MSOP	3.35	2.69	2.09
AD8671ARM-R2	AD8671ARM-R2TR-ND	Op Amp Precision Single LN	8-MSOP		495.50/250	
AD8671ARMZ-R2	AD8671ARMZ-R2CT-ND	Op Amp Precision Single LN* ***NEW!***	8-MSOP	3.35	2.69	2.09
AD8671ARMZ-R2	AD8671ARMZ-R2TR-ND	Op Amp Precision Single LN* ***NEW!***	8-MSOP		495.50/250	
AD8672AR	AD8672AR-ND	Op Amp Precision Dual LN	8-SOIC	4.55	3.64	2.83
AD8672ARZ	AD8672ARZ-ND	Op Amp Precision Dual LN* ***NEW!***	8-SOIC	4.55	3.64	2.83
AD8672ARM-R2	AD8672ARM-R2CT-ND	Op Amp Precision Dual LN	8-MSOP	5.45	4.36	3.39
AD8672ARM-R2	AD8672ARM-R2TR-ND	Op Amp Precision Dual LN	8-MSOP		804.75/250	
AD8672ARMZ-R2	AD8672ARMZ-R2CT-ND	Op Amp Precision Dual LN	8-MSOP	5.45	4.36	3.39
AD8672ARMZ-R2	AD8672ARMZ-R2TR-ND	Op Amp Precision Dual LN	8-MSOP		804.75/250	
AD8674AR	AD8674AR-ND	Op Amp Prec. Quad LN	14-SOIC	7.60	6.08	5.13
AD8674ARZ	AD8674ARZ-ND	Op Amp Prec. Quad LN* ***NEW!***	14-SOIC	7.60	6.08	5.13
AD8674ARU	AD8674ARU-ND	Op Amp Prec. Quad LN	14-TSSOP	7.60	6.08	5.13
AD8674ARUZ	AD8674ARUZ-ND	Op Amp Prec. Quad LN* ***NEW!***	14-TSSOP	7.60	6.08	5.13
OP27AZ	OP27AZ-ND	Op Amp Precision Low Noise	8-CDip	30.18	28.17	26.16
OP27EP	OP27EP-ND	Op Amp Precision Low Noise	8-Dip	5.29	4.23	3.29
OP27EZ	OP27EZ-ND	Op Amp Precision Low Noise	8-CDip	14.34	12.92	11.46
OP27GP	OP27GP-ND	Op Amp Precision Low Noise	8-Dip	2.30	1.84	1.43
OP27GS	OP27GS-ND	Op Amp Precision Low Noise	8-SOIC	2.30	1.84	1.43
OP27GSZ	OP27GSZ-ND	Op Amp Precision Low Noise	8-SOIC	2.30	1.84	1.43
OP113ES	OP113ES-ND	Op Amp Single Supply LN	8-SOIC	6.82	5.46	4.61
OP113FS	OP113FS-ND	Op Amp Single Supply LN	8-SOIC	3.96	3.17	2.47
OP213ES	OP213ES-ND	Op Amp Dual Single Supply LN	8-SOIC	10.81	9.74	8.64
OP213FP	OP213FP-ND	Op Amp Dual Single Supply LN	8-Dip	4.70	3.77	2.93
OP213FS	OP213FS-ND	Op Amp Dual Single Supply LN	8-SOIC	4.70	3.77	2.93
OP270EZ	OP270EZ-ND	Op Amp Dual Precision LN	8-CDip	11.18	10.07	8.93
OP270FZ	OP270FZ-ND	Op Amp Dual Precision LN	8-CDip	8.38	7.55	6.69
OP270GP	OP270GP-ND	Op Amp Dual Precision LN	8-Dip	5.11	4.09	3.18
OP270GS	OP270GS-ND	Op Amp Dual Precision LN	16-SOIC	5.40	4.32	3.36
OP413ES	OP413ES-ND	Op Amp Quad Low Drift	16-SOIC	15.58	14.03	12.44
OP413FS	OP413FS-ND	Op Amp Quad Low Drift	16-SOIC	9.02	7.22	6.09
OP470EY	OP470EY-ND	Op Amp Quad Very LN	14-Dip	16.31	14.69	13.03
OP470GP	OP470GP-ND	Op Amp Quad Very LN	14-Dip	7.16	5.73	4.84
OP470GS	OP470GS-ND	Op Amp Quad Very LN	16-SOIC	7.60	6.08	5.13
OP471EY	OP471EY-ND	Op Amp Quad High Speed LN	14-Dip	16.85	15.73	14.60
OP471GP	OP471GP-ND	Op Amp Quad High Speed LN	14-Dip	7.98	6.39	5.39
OP471GS	OP471GS-ND	Op Amp Quad High Speed LN	16-SOIC	8.10	6.48	5.47
OP490GS-REEL	OP490GS-REELCT-ND	Op Amp Quad Micropower	16-SOIC	8.32	6.66	5.62
OP490GS-REEL	OP490GS-REELTR-ND	Op Amp Quad Micropower	16-SOIC		5200.00/1,000	
OP495GP	OP495GP-ND	Op Amp Quad R-R	14-Dip	7.78	6.23	5.26
OP1177AR	OP1177AR-ND	Op Amp Precision LN	8-SOIC	2.43	1.94	1.46
OP2177AR	OP2177AR-ND	Op Amp Dual Precision LN	8-SOIC	3.78	3.03	2.36
OP2177AR-REEL7	OP2177AR-REEL7TR-ND	Op Amp Dual Precision LN	8-SOIC		2142.00/1,000	

Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	10
OP2177ARM-R2	OP2177ARM-R2CT-ND	Op Amp Dual Precision LN	8-MSOP	4.55	3.64	2
OP2177ARM-R2	OP2177ARM-R2TR-ND	Op Amp Dual Precision LN	8-MSOP		671.75/250	
OP2177ARM-REEL	OP2177ARM-REELCT-ND	Op Amp Dual Precision LN	8-MSOP	3.40	2.72	2
OP2177ARM-REEL	OP2177ARM-REELTR-ND	Op Amp Dual Precision LN	8-MSOP		5709.00/3,00	
		Low Power				
AD818AN	AD818AN-ND	Video Op Amp 130MHz LP	8-Dip	4.01	3.21	2
AD818ANZ	AD818ANZ-ND	Video Op Amp 130MHz LP* ***NEW!***	8-Dip	4.01	3.21	2
AD818AR	AD818AR-ND	Video Op Amp 130MHz LP	8-SOIC	4.01	3.21	2
AD820AN	AD820AN-ND	Op Amp FET R-R Low Power	8-Dip	4.19	3.35	2
AD820ANZ	AD820ANZ-ND	Op Amp FET R-R Low Power* ***NEW!***	8-Dip	4.19	3.35	2
AD820AR	AD820AR-ND	Op Amp FET R-R Low Power	8-SOIC	4.10	3.28	2
AD820AR-REEL7	AD820AR-REEL7TR-ND	Op Amp FET R-R Low Power	8-SOIC		1774.50/750	
AD820BR	AD820BR-ND	Op Amp FET R-R Low Power	8-SOIC	5.30	4.24	3
AD820BRZ	AD820BRZ-ND	Op Amp FET R-R Low Power	8-SOIC	5.30	4.24	3
AD824AR-14	AD824AR-14-ND	Op Amp FET R-R Low Power	14-SOIC	9.08	7.27	6
AD826AR-REEL7	AD826AR-REEL7CT-ND	Op Amp Dual HS Low Power	8-SOIC	4.97	3.98	3
AD826AR-REEL7	AD826AR-REEL7TR-ND	Op Amp Dual HS Low Power	8-SOIC		2154.75/750	
AD827AQ	AD827AQ-ND	Op Amp Dual HS Low Power	8-CDip	12.05	10.85	9
AD8002ARM	AD8002ARM-ND	Op Amp Current-Feedback Dual	8-MSOP	5.68	4.55	3
AD8005ART-REEL7	AD8005ART-REEL7CT-ND	Op Amp Current-Feedback LP	SOT-23-5	2.84	2.27	1
AD8005ART-REEL7	AD8005ART-REEL7TR-ND	Op Amp Current-Feedback LP	SOT-23-5		4764.00/3,00	
AD8014AR	AD8014AR-ND	Op Amp Current-Feedback LP	8-SOIC	3.06	2.45	1
AD8014ART-REEL7	AD8014ART-REEL7CT-ND	Op Amp Current-Feedback LP	SOT-23-5	2.68	2.15	1
AD8014ART-REEL7	AD8014ART-REEL7TR-ND	Op Amp Current-Feedback LP	SOT-23-5		4497.00/3,00	
AD8625AR	AD8625AR-ND	Op Amp Quad JFET R-R	14-SOIC	8.94	7.16	6
AD8625ARU	AD8625ARU-ND	Op Amp Quad JFET R-R	14-TSSOP	8.94	7.16	6
AD8625ARUZ	AD8625ARUZ-ND	Op Amp Quad JFET R-R	14-TSSOP	8.94	7.16	6
AD8625ARZ	AD8625ARZ-ND	Op Amp Quad JFET R-R	14-SOIC	8.94	7.16	6
AD8626AR	AD8626AR-ND	Op Amp Precision JFET LP	8-SOIC	5.36	4.29	3
AD8626ARM-R2	AD8626ARM-R2CT-ND	Op Amp Precision JFET LP	8-MSOP	6.44	5.16	4
AD8626ARM-R2	AD8626ARM-R2TR-ND	Op Amp Precision JFET LP	8-MSOP		1046.50/250	
AD8626ARMZ-R2	AD8626ARMZ-R2CT-ND	Op Amp Precision JFET LP* ***NEW!***	8-MSOP	6.44	5.16	4
AD8626ARMZ-R2	AD8626ARMZ-R2TR-ND	Op Amp Precision JFET LP* ***NEW!***	8-MSOP		1046.50/250	
AD8626ARZ	AD8626ARZ-ND	Op Amp Precision JFET LP	8-SOIC	5.36	4.29	3
AD8627AKS-R2	AD8627AKS-R2CT-ND	Op Amp Precision JFET LP	SC70-5	4.73	3.78	2
AD8627AKS-R2	AD8627AKS-R2TR-ND	Op Amp Precision JFET LP	SC70-5		698.25/250	
AD8627AKSZ-R2	AD8627AKSZ-R2CT-ND	Op Amp Precision JFET LP* ***NEW!***	SC70-5	4.73	3.78	2
AD8627AKSZ-R2	AD8627AKSZ-R2TR-ND	Op Amp Precision JFET LP* ***NEW!***	SC70-5		698.25/250	
AD8627AR	AD8627AR-ND	Op Amp Precision JFET LP	8-SOIC	3.94	3.15	2
AD8627ARZ	AD8627ARZ-ND	Op Amp Precision JFET LP* ***NEW!***	8-SOIC	3.94	3.15	2
OP90GP	OP90GP-ND	Op Amp Precision LP	8-Dip	3.67	2.94	2
OP90GS	OP90GSADI-ND	Op Amp Precision LP	8-SOIC	3.67	2.94	2
OP97EP	OP97EP-ND	Op Amp LP OP07	8-Dip	6.08	4.87	4
OP97FP	OP97FP-ND	Op Amp LP OP07	8-Dip	2.27	1.82	1
OP97FS	OP97FS-ND	Op Amp LP OP07	8-SOIC	2.27	1.82	1
OP193FS	OP193FS-ND	Op Amp Micropower R-R	8-SOIC	2.99	2.40	1
OP220GS	OP220GS-ND	Op Amp Dual LP	8-SOIC	4.52	3.62	2
OP221GS	OP221GS-ND	Op Amp Dual Single Supply LP	8-SOIC	4.12	3.30	2
OP490GP	OP490GP-ND	Op Amp Quad Low Voltage LP	14-Dip	8.32	6.66	5
OP490GS	OP490GS-ND	Op Amp Quad Low Voltage LP	16-SOIC	8.32	6.66	5
OP496GS	OP496GS-ND	Op Amp Quad R-R LP	14-SOIC	5.13	4.11	3
OP497FS	OP497FS-ND	Op Amp Quad Precision Volt. LP	16-SOIC	9.96	7.97	6
OP497GP	OP497GP-ND	Op Amp Quad Precision Volt. LP	14-Dip	6.88	5.51	4
OP497GS	OP497GS-ND	Op Amp Quad Precision Volt. LP	16-SOIC	6.56	5.25	4
OP497GSZ	OP497GSZ-ND	Op Amp Quad Precision Volt. LP	16-SOIC	6.56	5.25	4
		Precision				
AD548JR	AD548JR-ND	Precision BiFET Op Amp Low Power	8-SOIC	2.75	2.20	1
AD548JRZ	AD548JRZ-ND	Precision BiFET Op Amp Low Power* ***NEW!***	8-SOIC	2.75	2.20	1
AD548KN	AD548KN-ND	Precision BiFET Op Amp Low Power	8-Dip	6.00	4.80	4
AD548KNZ	AD548KNZ-ND	Precision BiFET Op Amp Low Power* ***NEW!***	8-Dip	6.00	4.80	4
AD548TH	AD548TH-ND	Precision BiFET Op Amp Low Power	TO-99	13.94	12.56	11
AD549JH	AD549JH-ND	Low Bias Current Op Amp	TO-99	18.44	17.21	15
AD549KH	AD549KH-ND	Low Bias Current Op Amp	TO-99	25.74	24.03	22
AD549LH	AD549LH-ND	Low Bias Current Op Amp	TO-99	31.82	29.70	27
AD585SQ	AD585SQ-ND	Prec. Sample/Hold Amp	14-Dip	65.21	60.86	56
AD648JN	AD648JN-ND	Op Amp Dual Prec. LP BiFET	8-Dip	3.51	2.81	2
AD648JNZ	AD648JNZ-ND	Op Amp Dual Prec. LP BiFET* ***NEW!***	8-Dip	3.51	2.81	2
AD648JR	AD648JR-ND	Op Amp Dual Prec. LP BiFET	8-SOIC	3.51	2.81	2
AD648JRZ	AD648JRZ-ND	Op Amp Dual Prec. LP BiFET* ***NEW!***	8-SOIC	3.51	2.81	2
AD648KN	AD648KN-ND	Op Amp Dual Prec. LP BiFET	8-Dip	7.94	6.36	5
AD648KNZ	AD648KNZ-ND	Op Amp Dual Prec. LP BiFET* ***NEW!***	8-Dip	7.94	6.36	5
AD704AR-16	AD704AR-16-ND	Bipolar Op Amp Quad	16-SOIC	8.18	6.55	5
AD704ARZ-16	AD704ARZ-16-ND	Bipolar Op Amp Quad* ***NEW!***	16-SOIC	8.18	6.55	5
AD704JN	AD704JN-ND	Bipolar Op Amp Quad	14-Dip	7.62	6.10	5
AD704JNZ	AD704JNZ-ND	Bipolar Op Amp Quad* ***NEW!***	14-Dip	7.62	6.10	5
AD704JR-16	AD704JR-16-ND	Bipolar Op Amp Quad	16-SOIC	7.62	6.10	5
AD706AR	AD706AR-ND	Bipolar Op Amp Dual	8-SOIC	4.75	3.80	2
AD706JN	AD706JN-ND	Bipolar Op Amp Dual	8-Dip	4.43	3.55	2
AD706JNZ	AD706JNZ-ND	Bipolar Op Amp Dual	8-Dip	3.94	3.16	2
AD706JR	AD706JR-ND	Bipolar Op Amp Dual	8-SOIC	4.19	3.35	2
AD708BQ	AD708BQ-ND	Precision Op Amp Dual	8-CDip	12.79	11.52	10
AD711AQ	AD711AQ-ND	Precision Op Amp BiFET HS	8-CDip	5.47	4.38	3
AD711KN	AD711KN-ND	Precision Op Amp BiFET HS	8-Dip	4.25	3.41	2
AD711KR	AD711KR-ND	Precision Op Amp BiFET HS	8-SOIC	4.07	3.26	2
AD711KRZ	AD711KRZ-ND	Precision Op Amp BiFET HS* ***NEW!***	8-SOIC	4.07	3.26	2
AD745KR-16	AD745KR-16-ND	Op Amp Low Noise BiFET	16-SOIC	10.85	9.77	8
AD745KRZ-16	AD745KRZ-16-ND	Op Amp Low Noise BiFET* ***NEW!***	16-SOIC	10.85	9.77	8
AD746AQ	AD746AQ-ND	Precision Op Amp Dual BiFET	8-CDip	8.95	8.06	7
AD783JR	AD783JR-ND	Amp Mono Sample and Hold	8-SOIC	17.03	15.89	14
AD822AN	AD822AN-ND	Dual Precision, Low Power FET Input Op Amp	8-Dip	5.60	4.48	3
AD822AR	AD822AR-ND	Dual Precision, Low Power FET Input Op Amp	8-SOIC	5.50	4.40	3
AD822AR-REEL7	AD822AR-REEL7CT-ND	Dual Precision, Low Power FET Input Op Amp	8-SOIC	6.19	4.95	3
AD822AR-REEL7	AD822AR-REEL7TR-ND	Dual Precision, Low Power FET Input Op Amp	8-SOIC		2619.75/750	

* Lead Free/RoHS Compliant

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ANALOG DEVICES — AMPLIFIERS (Continued)

Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD822ARM-REEL	AD822ARM-REELCT-ND	Dual Precision, Low Power FET Input Op Amp	8-MSOP	5.58	4.47	3.48
AD822ARM-REEL	AD822ARM-REELTR-ND	Dual Precision, Low Power FET Input Op Amp	8-MSOP		9375.00/3,000	
AD822ARMZ-R2	AD822ARMZ-R2CT-ND	Dual Precision, Low Power FET Input Op Amp* **NEW!**	8-MSOP	6.60	5.28	4.46
AD822ARMZ-R2	AD822ARMZ-R2TR-ND	Dual Precision, Low Power FET Input Op Amp* **NEW!**	8-MSOP		1072.50/250	
AD822BR	AD822BR-ND	Dual Precision, Low Power FET Input Op Amp	8-SOIC	8.20	6.56	5.54
AD823AN	AD823AN-ND	Dual Prec., 16MHz JFET Input Op Amp	8-Dip	5.00	4.00	3.38
AD823ANZ	AD823ANZ-ND	Dual Prec., 16MHz JFET Input Op Amp* **NEW!**	8-Dip	5.00	4.00	3.38
AD823AR	AD823AR-ND	Dual Prec., 16MHz JFET Input Op Amp	8-SOIC	5.00	4.00	3.38
AD823AR-REEL7	AD823AR-REEL7TR-ND	Dual Prec., 16MHz JFET Input Op Amp	8-SOIC		2381.25/750	
AD843KN	AD843KN-ND	Op Amp Fast-Settling	8-Dip	9.76	7.81	6.59
AD845BQ	AD845BQ-ND	Op Amp JFET Precision 16MHz	8-CDip	10.58	9.53	8.45
AD8221AR	AD8221AR-ND	Precision Instrumentation Amp	8-SOIC	5.48	4.39	3.70
AD8221ARZ	AD8221ARZ-ND	Precision Instrumentation Amp* **NEW!**	8-SOIC	5.48	4.39	3.70
AD8221ARM	AD8221ARM-ND	Precision Instrumentation Amp	8-MSOP	5.29	4.23	3.29
AD8221ARMZ	AD8221ARMZ-ND	Precision Instrumentation Amp* **NEW!**	8-MSOP	5.29	4.23	3.29
AD8221BR	AD8221BR-ND	Precision Instrumentation Amp	8-SOIC	9.58	7.67	6.47
AD8221BRZ	AD8221BRZ-ND	Precision Instrumentation Amp* **NEW!**	8-SOIC	9.58	7.67	6.47
AD8221-EVAL	AD8221-EVAL-ND	Evaluation Board for AD8221	—	63.60	—	—
AD8510ARM-R2	AD8510ARM-R2CT-ND	Wide-Bandwidth JFET Op Amp	8-MSOP	3.11	2.49	1.94
AD8510ARM-R2	AD8510ARM-R2TR-ND	Wide-Bandwidth JFET Op Amp	8-MSOP		458.75/250	
AD8510ARZ	AD8510ARZ-ND	Wide-Bandwidth JFET Op Amp	8-SOIC	2.59	2.07	1.61
AD8512ARM-REEL	AD8512ARM-REELCT-ND	Dual JFET Precision Op Amp	8-MSOP	3.31	2.65	2.06
AD8512ARM-REEL	AD8512ARM-REELTR-ND	Dual JFET Precision Op Amp	8-MSOP		5556.60/3,000	
AD8513AR	AD8513AR-ND	Wide-Bandwidth Quad JFET Op Amp	14-SOIC	7.80	6.24	5.27
AD8513ARZ	AD8513ARZ-ND	Wide-Bandwidth Quad JFET Op Amp	14-SOIC	7.80	6.24	5.27
AD8513ARU	AD8513ARU-ND	Wide-Bandwidth Quad JFET Op Amp	14-TSSOP	7.80	6.24	5.27
AD8513ARUZ	AD8513ARUZ-ND	Wide-Bandwidth Quad JFET Op Amp* **NEW!**	14-TSSOP	7.80	6.24	5.27
AD8572ARUZ	AD8572ARUZ-ND	0-Drift R-R I/O Op Amp	8-TSSOP	4.16	3.33	2.59
AD8601ART-REEL7	AD8601ART-REEL7CT-ND	Precision CMOS Single R-R In/Out Wideband Op Amp	SOT-23-5	1.33	1.06	.80
AD8601ART-REEL7	AD8601ART-REEL7TR-ND	Precision CMOS Single R-R In/Out Wideband Op Amp	SOT-23-5		2034.00/3,000	
AD8601ARTZ-REEL7	AD8601ARTZREEL7CT-ND	Precision CMOS Single R-R In/Out Wideband Op Amp* **NEW!**	SOT-23-5	1.33	1.06	.80
AD8601ARTZ-REEL7	AD8601ARTZREEL7TR-ND	Precision CMOS Single R-R In/Out Wideband Op Amp* **NEW!**	SOT-23-5		2034.00/3,000	
AD8610ARZ	AD8610ARZ-ND	Precision JFET Input Op Amp	8-SOIC	8.00	6.40	5.40
AD8610BRZ	AD8610BRZ-ND	Precision JFET Input Op Amp	8-SOIC	15.75	14.70	13.65
AD8616AR	AD8616AR-ND	20MHz, R-R, Op Amp Dual	8-SOIC	3.15	2.52	1.96
AD8616ARZ	AD8616ARZ-ND	20MHz, R-R, Op Amp Dual* **NEW!**	8-SOIC	3.15	2.52	1.96
AD8616ARM-R2	AD8616ARM-R2CT-ND	20MHz, R-R, Op Amp Dual	8-MSOP	4.16	3.33	2.59
AD8616ARM-R2	AD8616ARM-R2TR-ND	20MHz, R-R, Op Amp Dual	8-MSOP		615.25/250	
AD8618AR	AD8618AR-ND	Prec. 20MHz CMOS R-R I/O Op Amp	14-SOIC	5.00	4.00	3.38
AD8618ARZ	AD8618ARZ-ND	Prec. 20MHz CMOS R-R I/O Op Amp* **NEW!**	14-SOIC	5.00	4.00	3.38
AD8620AR	AD8620AR-ND	Op Amp Precision JFET LN	8-SOIC	13.33	12.00	10.64
AD8620ARZ	AD8620ARZ-ND	Precision JFET Op Amp	8-SOIC	13.33	12.00	10.64
AD8620BR	AD8620BR-ND	Op Amp Precision JFET LN	8-SOIC	26.70	24.92	23.14
AD8620BRZ	AD8620BRZ-ND	Op Amp Precision JFET LN* **NEW!**	8-SOIC	26.70	24.92	23.14
AD8628AR	AD8628AR-ND	Op Amp R-R 0-Drift	8-SOIC	2.48	1.98	1.54
AD8628ART-R2	AD8628ART-R2CT-ND	Op Amp R-R 0-Drift	SOT-23-5	2.97	2.38	1.85
AD8628ART-R2	AD8628ART-R2TR-ND	Op Amp R-R 0-Drift	SOT-23-5		439.00/250	
AD8628ARTZ-R2	AD8628ARTZ-R2CT-ND	Op Amp R-R 0-Drift	SOT-23-5	2.97	2.38	1.85
AD8628ARTZ-R2	AD8628ARTZ-R2TR-ND	Op Amp R-R 0-Drift	SOT-23-5		439.00/250	
AD8628ARZ	AD8628ARZ-ND	Op Amp R-R 0-Drift	8-SOIC	2.48	1.98	1.54
AD8698AR	AD8698AR-ND	Precision Dual R-R Output Op Amp	8-SOIC	5.34	4.28	3.61
AMP03GP	AMP03GP-ND	Amp Diff. Precision Unity Gain	8-Dip	5.22	4.18	3.53
AMP03GS	AMP03GS-ND	Amp Diff. Precision Unity Gain	8-SOIC	5.22	4.18	3.53
OP07CP	OP07CPADI-ND	Op Amp Ultra Low Offset	8-Dip	1.47	1.23	.98
OP07CS	OP07CS-ND	Op Amp Ultra Low Offset	8-SOIC	1.47	1.23	.98
OP07EP	OP07EPADI-ND	Op Amp Ultra Low Offset	8-Dip	3.04	2.43	1.89
OP27GS-REEL7	OP27GS-REEL7TR-ND	Op Amp Precision Low Noise	8-SOIC		1301.00/1,000	
OP27GZ	OP27GZ-ND	Op Amp Precision Low Noise	8-Dip	9.34	7.48	6.31
OP37EP	OP37EP-ND	Op Amp Precision LN 63MHz HS	8-Dip	4.91	3.93	3.06
OP37GP	OP37GP-ND	Op Amp Precision LN 63MHz HS	8-Dip	2.20	1.76	1.32
OP37GS	OP37GS-ND	Op Amp Precision LN 63MHz HS	8-SOIC	2.00	1.60	1.20
OP37GSZ	OP37GSZ-ND	Op Amp Precision LN 63MHz HS	8-SOIC	2.00	1.60	1.20
OP42AZ	OP42AZ-ND	Op Amp Precision High Speed	8-CDip	20.64	19.27	17.89
OP42EJ	OP42EJ-ND	Op Amp Precision High Speed	TO-99	15.46	13.92	12.35
OP42EZ	OP42EZ-ND	Op Amp Precision High Speed	8-CDip	13.61	12.26	10.87
OP77EZ	OP77EZ-ND	Op Amp Super Precision OP07	8-CDip	9.24	7.40	6.24
OP77FJ	OP77FJ-ND	Op Amp Super Precision OP07	TO-99	8.66	6.93	5.85
OP77FZ	OP77FZ-ND	Op Amp Super Precision OP07	8-CDip	5.40	4.32	3.65
OP90GS-REEL7	OP90GS-REEL7CT-ND	Op Amp Precision Micropower	8-SOIC	3.67	2.94	2.29
OP90GS-REEL7	OP90GS-REEL7TR-ND	Op Amp Precision Micropower	8-SOIC		2078.00/1,000	
OP97FS-REEL7	OP97FS-REEL7CT-ND	Op Amp Precision Low Power	8-SOIC	2.27	1.82	1.42
OP97FS-REEL7	OP97FS-REEL7TR-ND	Op Amp Precision Low Power	8-SOIC		1288.00/1,000	
OP177FP	OP177FP-ND	Op Amp Ultra-Precision High Gain	8-Dip	4.50	3.60	2.80
OP177FS	OP177FS-ND	Op Amp Ultra-Precision High Gain	8-SOIC	4.50	3.60	2.80
OP177GP	OP177GP-ND	Op Amp Ultra-Precision	8-Dip	1.60	1.28	.96
OP177GS	OP177GS-ND	Op Amp Ultra-Precision	8-SOIC	1.60	1.28	.96
OP184ES	OP184ES-ND	Op Amp Precision Single Supply R-R	8-SOIC	5.60	4.49	3.49
OP184FS	OP184FS-ND	Op Amp Precision Single Supply R-R	8-SOIC	3.71	2.97	2.31
OP191GS	OP191GS-ND	Op Amp Single Supply R-R LP	8-SOIC	3.26	2.61	2.03
OP196GS	OP196GS-ND	Op Amp Single Supply R-R LP	8-SOIC	2.70	2.16	1.68
OP200AZ	OP200AZ-ND	Op Amp Dual Ultra-Precision	8-CDip	16.44	15.35	14.25
OP200GP	OP200GP-ND	Op Amp Dual Ultra-Precision	8-Dip	5.60	4.49	3.49
OP200GS	OP200GS-ND	Op Amp Dual Ultra-Precision	16-SOIC	5.60	4.49	3.49
OP262GS	OP262GS-ND	Op Amp Dual 15MHz R-R	8-SOIC	4.07	3.26	2.54
OP282GS	OP282GS-ND	Op Amp Dual JFET Input	8-SOIC	2.39	1.91	1.49
OP282GS-REEL7	OP282GS-REEL7TR-ND	Op Amp Dual JFET Input	8-SOIC		1352.00/1,000	
OP282GS-REEL	OP282GS-REELTR-ND	Op Amp Dual JFET Input	8-SOIC		3340.00/2,500	
OP282GSZ	OP282GSZ-ND	Op Amp Dual JFET Input	8-SOIC	2.39	1.91	1.49
OP284EP	OP284EP-ND	Op Amp Dual Precision R-R	8-Dip	8.96	7.17	6.05
OP284ES	OP284ES-ND	Op Amp Dual Precision R-R	8-SOIC	8.80	7.04	5.94
OP284FS	OP284FS-ND	Op Amp Dual Precision R-R	8-SOIC	6.00	4.80	4.05
OP284FS-REEL7	OP284FS-REEL7CT-ND	Op Amp Dual Precision R-R	8-SOIC	6.00	4.80	4.05
OP284FS-REEL7	OP284FS-REEL7TR-ND	Op Amp Dual Precision R-R	8-SOIC		3750.00/1,000	
OP285GS	OP285GS-ND	Op Amp Dual Precision 9MHz	8-SOIC	4.61	3.69	2.87
OP290GP	OP290GP-ND	Op Amp Dual Precision Single Supply	8-Dip	6.06	4.85	4.10
OP290GPZ	OP290GPZ-ND	Op Amp Dual Precision Single Supply	8-Dip	6.06	4.85	4.10
OP297EZ	OP297EZ-ND	Op Amp Dual Low Off/Bias	8-Dip	9.88	8.90	7.89
OP297FP	OP297FP-ND	Op Amp Dual Low Off/Bias	8-Dip	5.02	4.02	3.39
OP297FPZ	OP297FPZ-ND	Op Amp Dual Low Off/Bias	8-Dip	5.02	4.02	3.39
OP297FS	OP297FS-ND	Op Amp Dual Low Off/Bias	8-SOIC	5.47	4.38	3.41
OP297GP	OP297GP-ND	Op Amp Dual Low Off/Bias	8-Dip	4.43	3.55	2.76
OP297GPZ	OP297GPZ-ND	Op Amp Dual Low Off/Bias	8-Dip	4.43	3.55	2.76
OP297GS	OP297GS-ND	Op Amp Dual Low Off/Bias	8-SOIC	4.19	3.35	2.61
OP297GS-REEL7	OP297GS-REEL7CT-ND	Op Amp Dual Low Off/Bias	8-SOIC	4.19	3.35	2.61
OP297GS-REEL7	OP297GS-REEL7TR-ND	Op Amp Dual Low Off/Bias	8-SOIC		2372.00/1,000	
OP484ES	OP484ES-ND	Op Amp Quad Precision R-R	14-SOIC	13.08	11.78	10.45
OP484FP	OP484FP-ND	Op Amp Quad Precision R-R	14-Dip	8.75	7.88	6.99
OP484FS	OP484FS-ND	Op Amp Quad Precision R-R	14-SOIC	8.33	7.50	6.65
OP484FS-REEL7	OP484FS-REEL7CT-ND	Op Amp Quad Precision R-R	14-SOIC	8.33	7.50	6.65
OP484FS-REEL7	OP484FS-REEL7TR-ND	Op Amp Quad Precision R-R	14-SOIC		6175.00/1,000	
OP491GP	OP491GP-ND	Op Amp Quad Single Supply R-R	14-Dip	6.20	4.96	4.19
OP491GS	OP491GS-ND	Op Amp Quad Single Supply R-R	14-SOIC	6.20	4.96	4.19
OP497FP	OP497FP-ND	Op Amp Quad Precision Low Current	14-Dip	8.36	7.53	6.68
OP727AR	OP727AR-ND	Op Amp Dual Prec. R-R Out	8-SOIC	4.05	3.24	2.52
OP727ARU	OP727ARU-ND	Op Amp Dual Prec. R-R Out	8-TSSOP	4.05	3.24	2.52
OP727ARUZ	OP727ARUZ-ND	Op Amp Dual Prec. R-R Out	8-TSSOP	4.05	3.24	2.52
OP727ARZ	OP727ARZ-ND	Op Amp Dual Prec. R-R Out	8-SOIC	4.05	3.24	2.52
OP747AR	OP747AR-ND	Op Amp Quad Precision R-R Out	14-SOIC	6.60	5.28	4.46
OP747ARU	OP747ARU-ND	Op Amp Quad Precision R-R	14-TSSOP	6.60	5.28	4.46
OP777AR	OP777AR-ND	Op Amp Precision Single Supply R-R	8-SOIC	2.70	2.16	1.68
OP777ARZ	OP777ARZ-ND	Op Amp Precision Single Supply R-R	8-SOIC	2.70	2.16	1.68
OP1177ARM-REEL	OP1177ARM-REELCT-ND	Op Amp Precision LN Bias Current	8-MSOP	2.00	1.60	1.20
OP1177ARM-REEL	OP1177ARM-REELTR-ND	Op Amp Precision LN Bias Current	8-MSOP		3072.00/3,000	
OP4177AR	OP4177AR-ND	Op Amp Quad Precision LN	14-SOIC	7.92	6.34	5.35
OP4177ARU	OP4177ARU-ND	Op Amp Quad Precision LN	14-TSSOP	7.92	6.34	5.35

Trans Line Driver

AD8323ARU	AD8323ARU-ND	Low Noise Driver CATV Fine-Step	28-TSSOP	7.60	6.08	5.13

Variable Gain Amplifiers

AD600AQ	AD600AQ-ND	VGA Dual, Adj. Gain	16-Dip	33.21	31.00	28.79
AD600AR	AD600AR-ND	VGA Dual, Adj. Gain	16-SOIC	27.68	25.83	23.99
AD600ARZ	AD600ARZ-ND	VGA Dual, Adj. Gain	16-SOIC	27.68	25.83	23.99
AD600JN	AD600JN-ND	VGA Dual, Adj. Gain	16-Dip	21.29	19.87	18.45
AD600JR	AD600JR-ND	VGA Dual, Adj. Gain	16-SOIC	21.29	19.87	18.45
AD600JRZ	AD600JRZ-ND	VGA Dual, Adj. Gain	16-SOIC	21.29	19.87	18.45
AD602AR	AD602AR-ND	VGA Dual 35MHz Low Noise	16-SOIC	27.68	25.83	23.99
AD602ARZ	AD602ARZ-ND	VGA Dual 35MHz Low Noise* **NEW!**	16-SOIC	27.68	25.83	23.99
AD602JR	AD602JR-ND	VGA Dual 35MHz Low Noise	16-SOIC	21.29	19.87	18.45
AD602JRZ	AD602JRZ-ND	VGA Dual 35MHz Low Noise* **NEW!**	16-SOIC	21.29	19.87	18.45
AD603AQ	AD603AQ-ND	VGA 90MHz Low Noise	8-Dip	8.55	7.70	6.83
AD603AR	AD603AR-ND	VGA 90MHz Low Noise	8-SOIC	9.36	7.49	6.32
AD603AR-REEL7	AD603AR-REEL7CT-ND	VGA 90MHz Low Noise	8-SOIC	9.36	7.49	6.32
AD603AR-REEL7	AD603AR-REEL7TR-ND	VGA 90MHz Low Noise	8-SOIC		4458.00/750	
AD603ARZ	AD603ARZ-ND	VGA 90MHz Low Noise	8-SOIC	9.36	7.49	6.32
AD604AN	AD604AN-ND	Amp Dual Adj. Gain Linear	24-Dip	21.08	19.67	18.27
AD604AR	AD604AR-ND	Amp Dual Adj. Gain Linear	24-SOIC	21.08	19.67	18.27
AD604ARS	AD604ARS-ND	Amp Dual Adj. Gain Linear	24-SSOP	25.29	23.61	21.92
AD605AR	AD605AR-ND	VGA Dual 40MHz Low Noise	16-SOIC	15.94	14.36	12.73
AD605ARZ	AD605ARZ-ND	VGA Dual 40MHz Low Noise* **NEW!**	16-SOIC	15.94	14.36	12.73
AD8330ACP-R2	AD8330ACP-R2CT-ND	VGA Single	16-LFCSP	9.34	7.48	6.31
AD8330ACP-R2	AD8330ACP-R2TR-ND	VGA Single	16-LFCSP		1517.75/250	
AD8330ARQ	AD8330ARQ-ND	VGA Single	16-QSOP	9.34	7.48	6.31
AD8330-EVAL	AD8330-EVAL-ND	Evaluation Board for AD8330	—	128.25	—	—
AD8331ARQ	AD8331ARQ-ND	VGA Single with Preamp	20-QSOP	9.06	8.16	7.24
AD8331ARQZ	AD8331ARQZ-ND	VGA Single with Preamp* **NEW!**	20-QSOP	9.06	8.16	7.24
AD8332ACP-R2	AD8332ACP-R2CT-ND	VGA Dual with Preamp LN	32-LFCSP	16.74	15.63	14.51
AD8332ACP-R2	AD8332ACP-R2TR-ND	VGA Dual with Preamp LN	32-LFCSP		3557.25/250	
AD8332ARU	AD8332ARU-ND	VGA Dual with Preamp LN	28-TSSOP	16.74	15.63	14.51
AD8332ARUZ	AD8332ARUZ-ND	VGA Dual with Preamp LN* **NEW!**	28-TSSOP	16.74	15.63	14.51
AD8370ARE	AD8370ARE-ND	Digital VGA LF to 750MHz	16-TSSOP	9.96	7.97	6.73
AD8370-EVAL	AD8370-EVAL-ND	Evaluation Board for AD8370 **NEW!**	—	118.80	—	—

ANALOG DEVICES — ANALOG COMPUTATION CIRCUITS

Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD630AD	AD630AD-ND	Balanced Mod/Demod 2MHz	20-Dip	16.23	15.15	14.07
AD630AR	AD630AR-ND	Balanced Mod/Demod 2MHz	20-SOIC	15.42	14.40	13.37
AD630ARZ	AD630ARZ-ND	Balanced Mod/Demod 2MHz* **NEW!**	20-SOIC	15.42	14.40	13.37
AD630JNZ	AD630JNZ-ND	Balanced Mod/Demod 2MHz* **NEW!**	20-Dip	16.14	14.54	12.89
AD630KN	AD630KN-ND	Balanced Mod/Demod 2MHz	20-Dip	23.18	21.63	20.09
AD630KNZ	AD630KNZ-ND	Balanced Mod/Demod 2MHz* **NEW!**	20-Dip	23.18	21.63	20.09
AD632AH	AD632AH-ND	Precision Multiplier Mono	TO-100	15.63	14.59	13.55
AD632BD	AD632BD-ND	Precision Multiplier Mono	14-CDip	55.01	51.34	47.68
AD633AN	AD633AN-ND	Multiplier Analog	8-Dip	7.10	5.68	4.80
AD633ANZ	AD633ANZ-ND	Multiplier Analog* **NEW!**	8-Dip	7.10	5.68	4.80
AD633AR	AD633AR-ND	Multiplier Analog	8-SOIC	7.10	5.68	4.80
AD633JN	AD633JN-ND	Multiplier Analog	8-Dip	7.10	5.68	4.80
AD633JNZ	AD633JNZ-ND	Multiplier Analog* **NEW!**	8-Dip	7.10	5.68	4.80
AD633JR	AD633JR-ND	Multiplier Analog	8-SOIC	7.10	5.68	4.80
AD7502KN	AD7502KN-ND	Analog Multiplexer 4-Channel	16-Dip	10.33	9.30	8.25
AD7569JP	AD7569JP-ND	In/Out Port 8-Bit Analog	28-PLCC	15.31	13.79	12.23

* Lead Free/RoHS Compliant

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ANALOG DEVICES — ANALOG/DIGITAL AUDIO

Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD1893JST	AD1893JST-ND	Sample-Rate Converter 16-Bit	44-LQFP	15.48	14.45	13.42
AD1940YST	AD1940YST-ND	SigmaDSP™ Multichannel 28-Bit Audio Processor	48-LQFP	13.54	12.20	10.82
AD1940YSTZ	AD1940YSTZ-ND	SigmaDSP™ Multichannel 28-Bit Audio Processor	48-LQFP	13.54	12.20	10.82
EVAL-AD1940EB	EVAL-AD1940EB-ND	Evaluation Board for AD1940	—	1048.50	—	—
AD1954YS	AD1954YS-ND	DSP DAC Audio 3-Ch./26-Bit	44-MQFP	14.31	12.89	11.43
SSM2018P	SSM2018P-ND	Amp Voltage Control Audio	16-Dip	5.68	4.55	3.84
SSM2018TP	SSM2018TP-ND	Amp Voltage Control Audio/Trimless	16-Dip	7.10	5.68	4.80
SSM2019BN	SSM2019BN-ND	Amp Audio Self-Contained Preamp	8-Dip	4.61	3.69	2.87
SSM2019BRN	SSM2019BRN-ND	Amp Audio Self-Contained Preamp	8-SOIC	4.61	3.69	2.87
SSM2019BRW	SSM2019BRW-ND	Amp Audio Self-Contained Preamp	16-SOIC	4.61	3.69	2.87
SSM2019BRWZ	SSM2019BRWZ-ND	Amp Audio Self-Contained Preamp	16-SOIC	4.61	3.69	2.87
SSM2135S	SSM2135S-ND	Amp Dual Audio Single Supply	8-SOIC	5.02	4.02	3.13
SSM2141P	SSM2141P-ND	Amp Diff. Line Receiver High Common-Mode	8-Dip	3.51	2.81	2.19
SSM2141S	SSM2141S-ND	Amp Diff. Line Receiver High Common-Mode	8-SOIC	3.51	2.81	2.19
SSM2142P	SSM2142P-ND	Amp Balance-Line Driver	8-Dip	5.33	4.27	3.32
SSM2142S	SSM2142S-ND	Amp Balance-Line Driver	16-SOIC	5.33	4.27	3.32
SSM2143P	SSM2143P-ND	Amp Diff. Line Receiver High Common-Mode	8-Dip	3.35	2.69	2.09
SSM2143S	SSM2143S-ND	Amp Diff. Line Receiver High Common-Mode	8-SOIC	3.35	2.69	2.09
SSM2160S	SSM2160S-ND	Balance/Voltage Control Digital	24-SOIC	10.80	9.72	8.62
SSM2164P	SSM2164P-ND	Amp Quad Voltage Controller	16-Dip	5.86	4.69	3.96
SSM2164S	SSM2164S-ND	Amp Quad Voltage Controller	16-SOIC	5.86	4.69	3.96
SSM2165-1S	SSM2165-1S-ND	Preamp Microphone 5V	8-SOIC	3.87	3.10	2.41
SSM2165-1SZ	SSM2165-1SZ-ND	Preamp Microphone 5V	8-SOIC	3.87	3.10	2.41
SSM2165-2S	SSM2165-2S-ND	Preamp Microphone 5V	8-SOIC	3.87	3.10	2.41
SSM2166S	SSM2166S-ND	Preamp Microphone 5V	14-SOIC	4.64	3.71	2.89
SSM2210P	SSM2210P-ND	Trans Audio Dual NPN	8-Dip	4.79	3.84	2.99

ANALOG DEVICES — ATE AND TIME DOMAIN

Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD53033JSTP	AD53033JSTP-ND	Driver/Comparator with Heatsink	52-LQFP	47.73	44.55	41.37
AD53040KRP	AD53040KRP-ND	Pin Driver with Inhibit	20-PSOP	36.12	33.72	31.31
AD53041KRP	AD53041KRP-ND	Current Switch Load	20-PSOP	36.12	33.72	31.31
AD53500JRP	AD53500JRP-ND	Pin Driver High Current, HS	20-SOIC	36.12	33.72	31.31
AD5520JST	AD5520JST-ND	Single Parametric Measure	64-LQFP	31.68	29.57	27.46

ANALOG DEVICES — CCD

Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD9824KCP	AD9824KCP-ND	CCD Signal Processor 14-Bit	48-LFCSP	23.27	21.72	20.17
AD9840AJST	AD9840AJST-ND	CCD Signal Processor 10-Bit	48-LQFP	9.55	8.60	7.63
AD9840AJSTZ	AD9840AJSTZ-ND	CCD Signal Processor 10-Bit* **NEW!**	48-LQFP	9.55	8.60	7.63
AD9845AJST	AD9845AJST-ND	CCD Signal Processor 12-Bit	48-TQFP	15.11	14.10	13.10
AD9929BBCZ	AD9929BBCZ-ND	CCD Signal Processor	64-BGA	18.24	17.03	15.81
AD9943KCPZ	AD9943KCPZ-ND	CCD Signal Processor 10-Bit, 25MHz	32-LFCSP	7.26	5.81	4.91
AD9945KCP	AD9945KCP-ND	CCD Signal Processor	32-LFCSP	8.63	7.77	6.89

ANALOG DEVICES — DATA COMMUNICATION

Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
ASRC						
AD1890JP	AD1890JP-ND	Converter Sample Rate Async.	28-PLCC	30.96	28.90	26.84
AD1895AYRS	AD1895AYRS-ND	Converter Sample Rate Async.	28-SSOP	8.83	7.95	7.05
AD1896AYRS	AD1896AYRS-ND	Converter Sample Rate Async.	28-SSOP	18.75	17.50	16.25
CODEC						
AD1835AAS	AD1835AAS-ND	Codec 2ADC/8DAC 24-Bit	52-MQFP	15.00	14.00	13.00
AD1835AASZ	AD1835AASZ-ND	Codec 2ADC/8DAC 24-Bit	52-MQFP	15.00	14.00	13.00
AD1836AAS	AD1836AAS-ND	Codec Stereo 2ADC/3DAC	52-MQFP	15.75	14.70	13.65
AD1836AASZ	AD1836AASZ-ND	Codec Stereo 2ADC/3DAC* **NEW!**	52-MQFP	15.75	14.70	13.65
AD1837AAS	AD1837AAS-ND	Codec 2ADC/8DAC 24-Bit	52-MQFP	16.24	14.63	12.97
AD1838AAS	AD1838AAS-ND	Codec 2ADC/6DAC 24-Bit	52-MQFP	16.04	14.45	12.81
AD1839AAS	AD1839AAS-ND	Codec 2ADC/8DAC 24-Bit	52-MQFP	15.63	14.07	12.48
AD1881AJST	AD1881AJST-ND	Audio Codec AC'97	48-LQFP	7.98	6.39	5.39
AD1885JST	AD1885JST-ND	Audio Codec AC'97	48-LQFP	8.78	7.03	5.93
AD1980JST	AD1980JST-ND	Codec Stereo 6DAC 20-Bit	48-LQFP	7.60	6.08	5.13
AD1980JSTZ	AD1980JSTZ-ND	Codec Stereo 6DAC 20-Bit* **NEW!**	48-LQFP	7.60	6.08	5.13
AD1981BJST	AD1981BJST-ND	Codec Stereo Microprepamp	48-LQFP	7.94	6.36	5.36
AD1981BJSTZ	AD1981BJSTZ-ND	Codec Stereo Microprepamp* **NEW!**	48-LQFP	7.94	6.36	5.36
AD1981BJST-REEL	AD1981BJST-REELCT-ND	Codec Stereo Microprepamp	48-LQFP	8.24	6.60	5.57
AD1981BJST-REEL	AD1981BJST-REELTR-ND	Codec Stereo Microprepamp	48-LQFP	10300.00	2,000	
AD1985JST	AD1985JST-ND	Codec Stereo 6DAC 20-Bit	48-LQFP	7.60	6.08	5.13
AD74111YRU	AD74111YRU-ND	Codec Mono Audio LP	16-TSSOP	5.88	4.71	3.97
ADAV801ASTZ	ADAV801ASTZ-ND	Audio Codec for Recordable DVD	64-LQFP	15.36	14.34	13.32
ADAV803ASTZ	ADAV803ASTZ-ND	Audio Codec for Recordable DVD	64-LQFP	15.36	14.34	13.32
ADV601JS12	ADV601JS12-ND	Codec Video 32-Bit	160-MQFP	65.73	61.35	56.97
ADV611JST	ADV611JST-ND	Codec Digital CCTV	120-LQFP	59.28	55.33	51.38
ADV7202KST	ADV7202KST-ND	Codec Video 10-Bit	64-LQFP	12.79	11.52	10.22
DAS						
AD974BR	AD974BR-ND	DAS 16-Bit, 4-Ch. 200KSPS	28-SOIC	57.96	54.10	50.24
AD974BRS	AD974BRS-ND	DAS 16-Bit, 4-Ch. 200KSPS	28-SSOP	57.96	54.10	50.24
AD7581KN	AD7581KN-ND	DAS 8-Bit, 8-Ch.	28-Dip	24.45	22.82	21.19
AD7581LN	AD7581LN-ND	DAS 8-Bit, 8-Ch.	28-Dip	28.38	26.49	24.60
AD7716BS	AD7716BS-ND	DAS 22-Bit LC2MOS	44-PQFP	55.64	51.93	48.22
AD7874AN	AD7874AN-ND	DAS 12-Bit, 4-Ch. LC2MOS	28-Dip	48.06	44.86	41.66
AD7874AR	AD7874AR-ND	DAS 12-Bit, 4-Ch. LC2MOS	28-SOIC	48.06	44.86	41.66
AD7874SQ	AD7874SQ-ND	DAS 12-Bit, 4-Ch. LC2MOS	28-CDip	181.32	169.24	157.15
AD7890AR-10	AD7890AR-10-ND	DAS 12-Bit	24-SOIC	18.00	16.80	15.60
AD7890BR-10	AD7890BR-10-ND	DAS 12-Bit	24-SOIC	23.70	22.12	20.54
AD7891AP-1	AD7891AP-1-ND	DAS 12-Bit, 8-Ch. High Speed	44-PLCC	26.25	24.50	22.75
AD7891AS-1	AD7891AS-1-ND	DAS 12-Bit, 8-Ch. High Speed	44-MQFP	26.25	24.50	22.75
AD7891AS-2	AD7891AS-2-ND	DAS 12-Bit, 8-Ch. High Speed	44-MQFP	26.25	24.50	22.75
AD7891ASZ-1	AD7891ASZ-1-ND	DAS 12-Bit, 8-Ch. High Speed	44-MQFP	26.25	24.50	22.75
AD7891YP-1	AD7891YP-1-ND	DAS 12-Bit, 8-Ch. High Speed	44-PLCC	56.40	52.64	48.88
Modem Applications						
AD9860BST	AD9860BST-ND	Front-End Mixed-Signal	128-LQFP	24.26	22.64	21.03
AD9861BCP-50	AD9861BCP-50-ND	Front-End Mixed-Signal	64-LFCSP	18.90	17.64	16.38
AD9861BCP-80	AD9861BCP-80-ND	Front-End Mixed-Signal	64-LFCSP	23.90	22.31	20.71
AD9862BST	AD9862BST-ND	Front-End Mixed-Signal	128-LQFP	52.50	49.00	45.50
AD9862BSTZ	AD9862BSTZ-ND	Front-End Mixed-Signal* **NEW!**	128-LQFP	52.50	49.00	45.50
AD9863BCP-50	AD9863BCP-50-ND	Front-End Mixed-Signal	64-LFCSP	37.80	35.28	32.76
AD9863BCPZ-50	AD9863BCPZ-50-ND	Front-End Mixed-Signal* **NEW!**	64-LFCSP	37.80	35.28	32.76
AD9865BCP	AD9865BCP-ND	Front-End Mixed-Signal	64-LFCSP	17.57	16.40	15.23
AD9866BCP	AD9866BCP-ND	Front-End Mixed-Signal	64-LFCSP	32.75	30.57	28.39
AD9878BST	AD9878BST-ND	Front-End Mixed-Signal	100-LQFP	20.52	19.16	17.79
AD9879BS	AD9879BS-ND	Front-End Mixed-Signal	100-MQFP	18.18	16.97	15.76
AD9975BST	AD9975BST-ND	Front-End Mixed-Signal	48-LQFP	16.32	15.24	14.15

ANALOG DEVICES — DATA CONVERSION

Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
Analog-to-Digital						
AD570JD	AD570JD-ND	ADC 8-Bit Mono with Clock	18-Dip	55.34	51.65	47.96
AD573JN	AD573JN-ND	ADC 10-Bit SAR Register	20-Dip	33.21	31.00	28.79
AD573JP	AD573JP-ND	ADC 10-Bit SAR Register	20-PLCC	33.21	31.00	28.79
AD574AJD	AD574AJD-ND	ADC 12-Bit with Reference	28-Dip	40.86	38.14	35.43
AD574AJN	AD574AJN-ND	ADC 12-Bit with Reference	28-Dip	30.32	28.30	26.28
AD574AJP	AD574AJP-ND	ADC 12-Bit with Reference	28-PLCC	31.80	29.68	27.56
AD574AKD	AD574AKD-ND	ADC 12-Bit with Reference	28-Dip	53.54	49.97	46.40
AD574AKN	AD574AKN-ND	ADC 12-Bit with Reference	28-Dip	40.13	37.45	34.78
AD574AKP	AD574AKP-ND	ADC 12-Bit with Reference	28-PLCC	35.57	33.20	30.83
AD574ASD	AD574ASD-ND	ADC 12-Bit with Reference	28-Dip	130.13	121.45	112.76
AD574AUD	AD574AUD-ND	ADC 12-Bit with Reference	28-Dip	244.05	227.78	211.51
AD670JN	AD670JN-ND	ADC 8-Bit Signal Condition	20-Dip	15.62	14.58	13.54
AD673JD	AD673JD-ND	ADC 8-Bit with Ref./Clock/Comparator	20-Dip	31.74	29.63	27.51
AD673JN	AD673JN-ND	ADC 8-Bit with Ref./Clock/Comparator	20-Dip	15.62	14.58	13.54
AD674BAD	AD674BAD-ND	ADC 12-Bit Mono 3 Output	28-Dip	45.54	42.51	39.47
AD674BBR	AD674BBR-ND	ADC 12-Bit Mono 3 Output	28-SOIC	57.83	53.97	50.11
AD676BD	AD676BD-ND	ADC 16-Bit, 100KSPS	28-Dip	103.46	96.56	89.67
AD676JN	AD676JN-ND	ADC 16-Bit, 100KSPS	28-Dip	52.50	49.00	45.50
AD676KD	AD676KD-ND	ADC 16-Bit, 100KSPS	28-Dip	82.77	77.26	71.75
AD677AD	AD677AD-ND	ADC 16-Bit, 100KSPS	16-Dip	81.05	75.65	70.24
AD677JN	AD677JN-ND	ADC 16-Bit, 100KSPS	16-Dip	48.68	45.43	42.19
AD677JR	AD677JR-ND	ADC 16-Bit, 100KSPS	28-SOIC	48.68	45.43	42.19
AD677JRZ	AD677JRZ-ND	ADC 16-Bit, 100KSPS	28-SOIC	64.90	51.92	43.80
AD677KN	AD677KN-ND	ADC 16-Bit, 100KSPS	16-Dip	57.26	53.44	49.61
AD677KR	AD677KR-ND	ADC 16-Bit, 100KSPS	28-SOIC	57.26	53.44	49.61
AD677KRZ	AD677KRZ-ND	ADC 16-Bit, 100KSPS* **NEW!**	28-SOIC	57.26	53.44	49.61
AD678AJ	AD678AJ-ND	ADC 12-Bit, 200KSPS	44-JLCC	103.71	96.80	89.88
AD678BD	AD678BD-ND	ADC 12-Bit, 200KSPS	28-Dip	105.18	98.17	91.16
AD678JN	AD678JN-ND	ADC 12-Bit, 200KSPS	28-Dip	48.23	45.01	41.80
AD679JN	AD679JN-ND	ADC 14-Bit, 128KSPS	28-Dip	53.04	49.51	45.98
AD779KD	AD779KD-ND	ADC 14-Bit Sampling	28-CDip	88.70	82.79	76.88
AD872AJD	AD872AJD-ND	ADC 12-Bit, 10MSPS	28-CDip	234.14	218.53	202.91
AD876JR	AD876JR-ND	ADC CMOS 10-Bit, 20MSPS	28-SOIC	7.40	5.92	5.00
AD976AN	AD976AN-ND	ADC 16-Bit, 100KSPS	28-Dip	36.71	34.26	31.82
AD976AAN	AD976AAN-ND	ADC 16-Bit, 200KSPS	28-Dip	45.89	42.83	39.77
AD976AAR	AD976AAR-ND	ADC 16-Bit, 200KSPS	28-SOIC	45.89	42.83	39.77
AD976ABN	AD976ABN-ND	ADC 16-Bit, 200KSPS	28-Dip	57.36	53.54	49.72
AD976ABR	AD976ABR-ND	ADC 16-Bit, 200KSPS	28-SOIC	57.36	53.54	49.72
AD976ABRS	AD976ABRS-ND	ADC 16-Bit, 200KSPS	28-SSOP	57.36	53.54	49.72
AD976AR	AD976AR-ND	ADC 16-Bit, 100KSPS	28-SOIC	36.71	34.26	31.82
AD976ARZ	AD976ARZ-ND	ADC 16-Bit, 100KSPS* **NEW!**	28-SOIC	36.71	34.26	31.82
AD976ARS	AD976ARS-ND	ADC 16-Bit, 200KSPS	28-SSOP	36.71	34.26	31.82
AD976BR	AD976BR-ND	ADC 16-Bit, 100KSPS	28-SOIC	45.89	42.83	39.77
AD976CN	AD976CN-ND	ADC 16-Bit, 100KSPS	28-Dip	28.19	26.31	24.43
AD977AAR	AD977AAR-ND	ADC 16-Bit, 200KSPS	20-SOIC	45.89	42.83	39.77
AD977AARS	AD977AARS-ND	ADC 16-Bit, 200KSPS	28-SSOP	45.89	42.83	39.77
AD977ABN	AD977ABN-ND	ADC 16-Bit, 200KSPS	20-Dip	57.36	53.54	49.72
AD977ABR	AD977ABR-ND	ADC 16-Bit, 200KSPS	20-SOIC	57.36	53.54	49.72
AD977ABRZ	AD977ABRZ-ND	ADC 16-Bit, 200KSPS* **NEW!**	20-SOIC	57.36	53.54	49.72
AD977AN	AD977AN-ND	ADC 16-Bit, 100KSPS	20-Dip	36.71	34.26	31.82
AD977AR	AD977AR-ND	ADC 16-Bit, 100KSPS	20-SOIC	36.71	34.26	31.82
AD977ARZ	AD977ARZ-ND	ADC 16-Bit, 100KSPS* **NEW!**	20-SOIC	36.71	34.26	31.82
AD977BR	AD977BR-ND	ADC 16-Bit, 100KSPS	20-SOIC	45.89	42.83	39.77
AD977CN	AD977CN-ND	ADC 16-Bit, 100KSPS	20-Dip	28.19	26.31	24.43
AD1376KD	AD1376KD-ND	ADC Single 16-Bit	32-Dip	375.00	350.00	325.00
AD1377JD	AD1377JD-ND	ADC Single 16-Bit	32-Dip	420.69	392.65	364.60
AD1377KD	AD1377KD-ND	ADC Single 16-Bit	32-Dip	525.87	490.82	455.78
AD1671JP	AD1671JP-ND	ADC Single 12-Bit	28-PLCC	53.22	49.68	46.13
AD1674AR	AD1674AR-ND	ADC 12-Bit, 100KSPS	28-SOIC	25.47	23.78	22.08
AD1674ARZ	AD1674ARZ-ND	ADC 12-Bit, 100KSPS	28-SOIC	25.47	23.78	22.08
AD1674BD	AD1674BD-ND	ADC 12-Bit, 100KSPS	28-Dip	57.02	53.22	49.42
AD1674BR	AD1674BR-ND	ADC 12-Bit, 100KSPS	28-SOIC	35.34	32.99	30.64
AD1674BRZ	AD1674BRZ-ND	ADC 12-Bit, 100KSPS	28-SOIC	35.34	32.99	30.64
AD1674JN	AD1674JN-ND	ADC 12-Bit, 100KSPS	28-Dip	21.83	20.37	18.91
AD1674JR	AD1674JR-ND	ADC 12-Bit, 100KSPS	28-SOIC	21.83	20.37	18.91
AD1674JRZ	AD1674JRZ-ND	ADC 12-Bit, 100KSPS* **NEW!**	28-SOIC	21.83	20.37	18.91
AD1674KN	AD1674KN-ND	ADC 12-Bit, 100KSPS	28-Dip	30.54	28.51	26.47
AD1674KR	AD1674KR-ND	ADC 12-Bit, 100KSPS	28-SOIC	30.54	28.51	26.47
AD1674KRZ	AD1674KRZ-ND	ADC 12-Bit, 100KSPS* **NEW!**	28-SOIC	30.54	28.51	26.47
AD1674TD	AD1674TD-ND	ADC 12-Bit, 100KSPS	28-Dip	106.94	99.81	92.68
AD1871YRS	AD1871YRS-ND	ADC Stereo Audio 24-Bit	28-SSOP	9.38	8.45	7.49
AD1877JR	AD1877JR-ND	ADC Stereo 16-Bit	28-SOIC	12.03	10.83	9.62
AD6640AST	AD6640AST-ND	ADC 12-Bit, 65MSPS	44-LQFP	49.80	46.48	43.16
AD6644AST-40	AD6644AST-40-ND	ADC 14-Bit, 40MSPS	52-LQFP	51.30	47.88	44.46
AD6644AST-65	AD6644AST-65-ND	ADC 14-Bit, 65MSPS	52-LQFP	68.85	64.26	59.68
AD6645ASQ-80	AD6645ASQ-80-ND	ADC 14-Bit, 80MSPS	52-LQFP-PQ4	77.12	71.98	66.84
AD6645-80/PCB	AD6645-80/PCB-ND	Evaluation Board ADC 80MSPS AD6645	—	225.00	—	—
AD6645ASQ-105	AD6645ASQ-105-ND	ADC 14-Bit, 105MSPS	52-LQFP-PQ4	98.82	92.24	85.66
AD6645-105/PCB	AD6645-105/PCB-ND	Evaluation Board ADC 105MSPS AD6645	—	258.00	—	—
AD7417AR	AD7417AR-ND	ADC 10-Bit, 2.7V, 4-Ch.	16-SOIC	6.30	5.04	4.20

* Lead Free/RoHS Compliant

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Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD7417ARU	AD7417ARU-ND	ADC 10-Bit, 2.7V, 4-Ch.	16-TSSOP	6.30	5.04	4.26
AD7417ARUZ	AD7417ARUZ-ND	ADC 10-Bit, 2.7V, 4-Ch.* NEW!	16-TSSOP	6.30	5.04	4.26
AD7440BRM	AD7440BRM-ND	ADC 10-Bit Diff.-In 1MSPS	8-MSOP	5.88	4.71	3.97
AD7440BRT-R2	AD7440BRT-R2CT-ND	ADC 10-Bit Diff.-In 1MSPS	SOT-23-8	5.88	4.71	3.97
AD7440BRT-R2	AD7440BRT-R2TR-ND	ADC 10-Bit Diff.-In 1MSPS	SOT-23-8		955.50/250	
AD7441BRM	AD7441BRM-ND	ADC 10-Bit PSDO-In 1MSPS	8-MSOP	5.88	4.71	3.97
AD7441BRT-R2	AD7441BRT-R2TR-ND	ADC 10-Bit PSDO-In 1MSPS	SOT-23-8		955.50/250	
AD7450ABRM	AD7450ABRM-ND	ADC 12-Bit Diff.-In 1MSPS	8-MSOP	8.53	7.68	6.81
AD7450ABRT-R2	AD7450ABRT-R2CT-ND	ADC 12-Bit Diff.-In 1MSPS	SOT-23-8	8.53	7.68	6.81
AD7450ABRT-R2	AD7450ABRT-R2TR-ND	ADC 12-Bit Diff.-In 1MSPS	SOT-23-8		1632.00/250	
AD7450AR	AD7450AR-ND	ADC 12-Bit Diff.-In 1MSPS	8-SOIC	9.42	7.54	6.36
AD7450ARM	AD7450ARM-ND	ADC 12-Bit Diff.-In 1MSPS	8-MSOP	9.42	7.54	6.36
AD7450BRM	AD7450BRM-ND	ADC 12-Bit Diff.-In 1MSPS	8-MSOP	8.53	7.68	6.81
AD7450BR	AD7450BR-ND	ADC 12-Bit Diff.-In 1MSPS	8-SOIC	8.53	7.68	6.81
AD7451ARM	AD7451ARM-ND	ADC 12-Bit PSDO-In 1MSPS	8-MSOP	8.33	7.50	6.65
AD7451ART-R2	AD7451ART-R2CT-ND	ADC 12-Bit PSDO-In 1MSPS	SOT-23-8	8.33	7.50	6.65
AD7451ART-R2	AD7451ART-R2TR-ND	ADC 12-Bit PSDO-In 1MSPS	SOT-23-8		1593.75/250	
AD7451BRM	AD7451BRM-ND	ADC 12-Bit PSDO-In 1MSPS	8-MSOP	8.91	8.03	7.12
AD7451BRT-R2	AD7451BRT-R2CT-ND	ADC 12-Bit PSDO-In 1MSPS	SOT-23-8	8.91	8.03	7.12
AD7451BRT-R2	AD7451BRT-R2TR-ND	ADC 12-Bit PSDO-In 1MSPS	SOT-23-8		1705.25/250	
AD7452BRT-R2	AD7452BRT-R2CT-ND	ADC 12-Bit, 555KSPS	SOT-23-8	6.94	5.56	4.69
AD7452BRT-R2	AD7452BRT-R2TR-ND	ADC 12-Bit, 555KSPS	SOT-23-8		1127.75/250	
AD7453BRT-R2	AD7453BRT-R2CT-ND	ADC 12-Bit, 555KSPS	SOT-23-8	6.94	5.56	4.69
AD7453BRT-R2	AD7453BRT-R2TR-ND	ADC 12-Bit, 555KSPS	SOT-23-8		1127.75/250	
AD7457BRT-REEL7	AD7457BRT-REEL7TR-ND	ADC 12-Bit, 100KSPS	SOT-23-8		7749.00/3,000	
AD7466BRM	AD7466BRM-ND	ADC 12-Bit Micropower 1.6V	8-MSOP	5.52	4.42	3.73
AD7466BRMZ	AD7466BRMZ-ND	ADC 12-Bit Micropower 1.6V* NEW!	8-MSOP	5.52	4.42	3.73
AD7466BRT-R2	AD7466BRT-R2CT-ND	ADC 12-Bit Micropower 1.6V	SOT-23-6	5.52	4.42	3.73
AD7466BRT-R2	AD7466BRT-R2TR-ND	ADC 12-Bit Micropower 1.6V	SOT-23-6		897.00/250	
AD7466BRTZ-REEL7	AD7466BRTZREEL7CT-ND	ADC 12-Bit Micropower 1.6V* NEW!	SOT-23-6	5.29	4.23	3.29
AD7466BRTZ-REEL7	AD7466BRTZREEL7TR-ND	ADC 12-Bit Micropower 1.6V* NEW!	SOT-23-6		8883.00/3,000	
AD7467BRM	AD7467BRM-ND	ADC 10-Bit Micropower 1.6V	8-MSOP	5.04	4.04	3.14
AD7467BRT-R2	AD7467BRT-R2CT-ND	ADC 10-Bit Micropower 1.6V	SOT-23-6	5.04	4.04	3.14
AD7467BRT-R2	AD7467BRT-R2TR-ND	ADC 10-Bit Micropower 1.6V	SOT-23-6		744.75/250	
AD7468BRM	AD7468BRM-ND	ADC 8-Bit Micropower 1.6V	8-MSOP	3.04	2.43	1.89
AD7468BRMZ	AD7468BRMZ-ND	ADC 8-Bit Micropower 1.6V* NEW!	8-MSOP	3.04	2.43	1.89
AD7468BRT-R2	AD7468BRT-R2CT-ND	ADC 8-Bit Micropower 1.6V	SOT-23-6	3.04	2.43	1.89
AD7468BRT-R2	AD7468BRT-R2TR-ND	ADC 8-Bit Micropower 1.6V	SOT-23-6		449.00/250	
AD7468BRTZ-REEL7	AD7468BRTZREEL7CT-ND	ADC 8-Bit Micropower 1.6V* NEW!	SOT-23-6	2.59	2.07	1.61
AD7468BRTZ-REEL7	AD7468BRTZREEL7TR-ND	ADC 8-Bit Micropower 1.6V* NEW!	SOT-23-6		4347.00/3,000	
AD7470ARU	AD7470ARU-ND	ADC 10-Bit, 1.75MSPS	24-TSSOP	7.06	5.65	4.77
AD7470ARUZ	AD7470ARUZ-ND	ADC 10-Bit, 1.75MSPS	24-TSSOP	7.06	5.65	4.77
AD7475BR	AD7475BR-ND	ADC 12-Bit, 1MSPS	8-SOIC	9.60	8.64	7.67
AD7475BRM	AD7475BRM-ND	ADC 12-Bit, 1MSPS	8-MSOP	9.80	8.82	7.83
AD7476ABKSZ-REEL7	AD7476ABKSZREELCT-ND	ADC 12-Bit, 2.35V, 1MSPS	SC70-6	8.33	7.50	6.65
AD7476ABKSZ-REEL7	AD7476ABKSZREELTR-ND	ADC 12-Bit, 2.35V, 1MSPS	SC70-6		18225.00/3,000	
AD7476ABRM	AD7476ABRM-ND	ADC 12-Bit, 2.35V, 1MSPS	8-MSOP	8.81	7.94	7.04
AD7476ABRMZ	AD7476ABRMZ-ND	ADC 12-Bit, 2.35V, 1MSPS* NEW!	8-MSOP	8.81	7.94	7.04
AD7476ART-500RL7	AD7476ART500RL7CT-ND	ADC 12-Bit, 2.35V, 1MSPS	SOT-23-6	8.42	6.74	5.69
AD7476ART-500RL7	AD7476ART500RL7TR-ND	ADC 12-Bit, 2.35V, 1MSPS	SOT-23-6		2673.50/500	
AD7476AYRM	AD7476AYRM-ND	ADC 12-Bit, 2.35V, 1MSPS	8-MSOP	11.76	10.59	9.39
AD7477AARM	AD7477AARM-ND	ADC 10-Bit, 2.35V, 1MSPS	8-MSOP	5.88	4.71	3.97
AD7477AARMZ	AD7477AARMZ-ND	ADC 10-Bit, 2.35V, 1MSPS* NEW!	8-MSOP	5.88	4.71	3.97
AD7477ARTZ-500RL7	AD7477ARTZ500RLCT-ND	ADC 10-Bit, 2.35V, 1MSPS* NEW!	SOT-23-6	5.50	4.40	3.72
AD7477ARTZ-500RL7	AD7477ARTZ500RLTR-ND	ADC 10-Bit, 2.35V, 1MSPS* NEW!	SOT-23-6		1746.50/500	
AD7478AARM	AD7478AARM-ND	ADC 8-Bit, 2.35V, 1MSPS	8-MSOP	2.52	2.02	1.57
AD7478AARMZ	AD7478AARMZ-ND	ADC 8-Bit, 2.35V, 1MSPS* NEW!	8-MSOP	2.52	2.02	1.57
AD7478ART-500RL7	AD7478ART500RL7CT-ND	ADC 8-Bit, 2.35V, 1MSPS	SOT-23-6	2.70	2.16	1.68
AD7478ART-500RL7	AD7478ART500RL7TR-ND	ADC 8-Bit, 2.35V, 1MSPS	SOT-23-6		780.00/500	
AD7478ARTZ-REEL7	AD7478ARTZREEL7CT-ND	ADC 8-Bit, 2.35V, 1MSPS* NEW!	SOT-23-6	2.38	1.90	1.43
AD7478ARTZ-REEL7	AD7478ARTZREEL7TR-ND	ADC 8-Bit, 2.35V, 1MSPS* NEW!	SOT-23-6		3648.00/3,000	
AD7482AST	AD7482AST-ND	ADC 12-Bit SAR 3MSPS	48-LQFP	13.63	12.27	10.88
AD7482BST	AD7482BST-ND	ADC 12-Bit SAR 3MSPS	48-LQFP	16.34	14.72	13.05
AD7484BST	AD7484BST-ND	ADC 14-Bit SAR 3MSPS	48-LQFP	21.18	19.77	18.36
AD7485BST	AD7485BST-ND	ADC 14-Bit SAR 1MSPS	48-LQFP	15.89	14.83	13.77
AD7490BCP	AD7490BCP-ND	ADC 12-Bit, 16-Ch., 1MSPS	32-LFCSP	11.66	10.50	9.31
AD7490BRU	AD7490BRU-ND	ADC 12-Bit, 16-Ch., 1MSPS	28-TSSOP	11.66	10.50	9.31
AD7572AJN10	AD7572AJN10-ND	ADC 12-Bit HS LC2MOS	24-Dip	18.06	16.86	15.66
AD7572AQ05	AD7572AQ05-ND	ADC 12-Bit HS LC2MOS	24-CDip	63.12	58.92	54.71
AD7574JN	AD7574JN-ND	ADC 8-Bit CMOS 5V	18-Dip	11.83	10.65	9.45
AD7575JP	AD7575JP-ND	ADC 8-Bit LC2MOS with Hold	20-PLCC	9.03	8.13	7.21
AD7578KN	AD7578KN-ND	ADC 12-Bit Low Power	24-Dip	28.32	26.44	24.55
AD7582KN	AD7582KN-ND	ADC 12-Bit	28-Dip	33.87	31.62	29.36
AD7650AST	AD7650AST-ND	ADC 16-Bit, 570KSPS	48-LQFP	13.83	12.45	11.04
AD7651ACP	AD7651ACP-ND	ADC 16-Bit, 100KSPS	48-LFCSP	13.73	12.36	10.96
AD7651AST	AD7651AST-ND	ADC 16-Bit, 100KSPS	48-LQFP	13.73	12.36	10.96
AD7652ACP	AD7652ACP-ND	ADC 16-Bit, 500KSPS w/Reference	48-LFCSP	15.62	14.58	13.54
AD7652AST	AD7652AST-ND	ADC 16-Bit, 500KSPS w/Reference	48-LQFP	15.62	14.58	13.54
AD7653ACP	AD7653ACP-ND	ADC 16-Bit, 1MSPS w/Reference	48-LFCSP	19.08	17.81	16.54
AD7653AST	AD7653AST-ND	ADC 16-Bit, 1MSPS w/Reference	48-LQFP	19.08	17.81	16.54
AD7654ACP	AD7654ACP-ND	ADC 16-Bit, 500KSPS Dual	48-LFCSP	25.59	23.89	22.18
AD7654AST	AD7654AST-ND	ADC 16-Bit, 500KSPS Dual	48-LQFP	25.59	23.89	22.18
AD7655ACP	AD7655ACP-ND	ADC 16-Bit, 1MSPS Quad	48-LFCSP	15.68	14.63	13.59
AD7655AST	AD7655AST-ND	ADC 16-Bit, 1MSPS Quad	48-LQFP	15.68	14.63	13.59
AD7660AST	AD7660AST-ND	ADC 16-Bit Unipolar	48-LQFP	15.66	14.10	12.51
AD7661ACP	AD7661ACP-ND	ADC 16-Bit with Reference	48-LFCSP	16.48	14.84	13.16
AD7661AST	AD7661AST-ND	ADC 16-Bit with Reference	48-LQFP	16.48	14.84	13.16
AD7663AST	AD7663AST-ND	ADC 16-Bit, 250KSPS	48-LQFP	19.92	18.60	17.27
AD7664AST	AD7664AST-ND	ADC 16-Bit Unipolar	48-LQFP	30.95	28.89	26.82
AD7665AST	AD7665AST-ND	ADC 16-Bit CMOS 5V	48-LQFP	31.52	29.42	27.32
AD7666ACP	AD7666ACP-ND	ADC 16-Bit, 500KSPS Unipolar	48-LFCSP	29.87	27.88	25.89
AD7666AST	AD7666AST-ND	ADC 16-Bit, 500KSPS Unipolar	48-LQFP	29.87	27.88	25.89
AD7667ACP	AD7667ACP-ND	ADC 16-Bit, 1MSPS Unipolar	48-LFCSP	39.00	36.40	33.80
AD7667AST	AD7667AST-ND	ADC 16-Bit, 1MSPS Unipolar	48-LQFP	39.00	36.40	33.80
AD7671AST	AD7671AST-ND	ADC 16-Bit CMOS 1MSPS	48-LQFP	46.38	43.29	40.20
AD7674ACP	AD7674ACP-ND	ADC 18-Bit, 800KSPS	48-LFCSP	46.38	43.29	40.20
AD7674AST	AD7674AST-ND	ADC 18-Bit, 800KSPS	48-LQFP	46.38	43.29	40.20
AD7674ASTZ	AD7674ASTZ-ND	ADC 18-Bit, 800KSPS	48-LQFP	46.38	43.29	40.20
AD7676AST	AD7676AST-ND	ADC 16-Bit, 500KSPS Diff.	48-LQFP	41.40	38.64	35.88
AD7677AST	AD7677AST-ND	ADC 16-Bit, 1MSPS Diff.	48-LQFP	54.68	51.03	47.39
AD7677ASTZ	AD7677ASTZ-ND	ADC 16-Bit, 1MSPS Diff.* NEW!	48-LQFP	54.68	51.03	47.39
AD7678ACP	AD7678ACP-ND	ADC 18-Bit, 100KSPS	48-LFCSP	31.86	29.74	27.62
AD7678AST	AD7678AST-ND	ADC 18-Bit, 100KSPS	48-LQFP	31.86	29.74	27.62
AD7679ACP	AD7679ACP-ND	ADC 18-Bit, 570KSPS	48-LFCSP	42.48	39.65	36.82
AD7679AST	AD7679AST-ND	ADC 18-Bit, 570KSPS	48-LQFP	42.48	39.65	36.82

Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
EVAL-AD7679CB	EVAL-AD7679CB-ND	Evaluation Board for AD7679 NEW!	—	332.17	—	—
AD7680BRM	AD7680BRM-ND	ADC 16-Bit, 100KSPS	8-MSOP	11.06	9.96	8.84
AD7683ARM	AD7683ARM-ND	ADC 16-Bit, 100KSPS NEW!	8-MSOP	10.60	9.54	8.46
AD7683BRM	AD7683BRM-ND	ADC 16-Bit, 100KSPS NEW!	8-MSOP	11.98	10.79	9.57
AD7684BRM	AD7684BRM-ND	ADC 16-Bit, 100KSPS NEW!	8-MSOP	11.98	10.79	9.57
AD7685ARM	AD7685ARM-ND	ADC 16-Bit, 250KSPS NEW!	10-MSOP	11.98	10.79	9.57
AD7685BRM	AD7685BRM-ND	ADC 16-Bit, 250KSPS	10-MSOP	14.69	13.23	11.78
AD7685BRMZ	AD7685BRMZ-ND	ADC 16-Bit, 250KSPS* NEW!	10-MSOP	14.74	13.28	11.78
AD7685BRMRL7	AD7685BRMRL7TR-ND	ADC 16-Bit, 250KSPS	10-MSOP		10930.00/1,000	
AD7685CCPWP	AD7685CCPWP-ND	ADC 16-Bit, 250KSPS NEW!	10-LFCSP	15.93	14.87	13.81
AD7701AN	AD7701AN-ND	ADC 16-Bit LC2MOS	20-Dip	20.13	18.79	17.45
AD7701AR	AD7701AR-ND	ADC 16-Bit LC2MOS	20-SOIC	20.13	18.79	17.45
AD7701BN	AD7701BN-ND	ADC 16-Bit LC2MOS	20-Dip	26.84	25.05	23.26
AD7703AN	AD7703AN-ND	ADC 20-Bit LC2MOS	20-Dip	23.87	22.28	20.69
AD7703AR	AD7703AR-ND	ADC 20-Bit LC2MOS	20-SOIC	23.87	22.28	20.69
AD7703BN	AD7703BN-ND	ADC 20-Bit LC2MOS	20-Dip	28.38	26.49	24.60
AD7703BR	AD7703BR-ND	ADC 20-Bit LC2MOS	20-SOIC	28.38	26.49	24.60
AD7703CN	AD7703CN-ND	ADC 20-Bit LC2MOS	20-Dip	34.83	32.51	30.19
AD7703CR	AD7703CR-ND	ADC 20-Bit LC2MOS	20-SOIC	34.83	32.51	30.19
AD7705BN	AD7705BN-ND	ADC 16-Bit, 2-Ch.	16-Dip	9.70	7.76	6.55
AD7705BR	AD7705BR-ND	ADC 16-Bit, 2-Ch.	16-SOIC	9.70	7.76	6.55
AD7705BRU	AD7705BRU-ND	ADC 16-Bit, 2-Ch.	16-TSSOP	9.70	7.76	6.55
AD7706BN	AD7706BN-ND	ADC 16-Bit, 3-Ch.	16-Dip	9.70	7.76	6.55
AD7706BR	AD7706BR-ND	ADC 16-Bit, 3-Ch.	16-SOIC	9.70	7.76	6.55
AD7708BRU	AD7708BRU-ND	ADC 16-Bit R-R 8/10-Ch.	28-TSSOP	9.36	7.49	6.32
AD7709BRU	AD7709BRU-ND	ADC 16-Bit Sigma-Delta	24-TSSOP	8.75	7.88	6.99
AD7710AN	AD7710AN-ND	ADC Signal Conditioning	24-Dip	28.05	26.18	24.31
AD7710AR	AD7710AR-ND	ADC Signal Conditioning	24-SOIC	28.05	26.18	24.31
AD7711AN	AD7711AN-ND	ADC 24-Bit RTD Current Source	24-Dip	29.70	27.72	25.74
AD7712AN	AD7712AN-ND	ADC Signal Conditioning LC2MOS	24-Dip	25.58	23.87	22.17
AD7712AR	AD7712AR-ND	ADC Signal Conditioning LC2MOS	24-SOIC	25.58	23.87	22.17
AD7713AR	AD7713AR-ND	ADC Signal Conditioning LC2MOS	24-SOIC	31.35	29.26	27.17
AD7714AN-5	AD7714AN-5-ND	ADC Signal Conditioning 5V	24-Dip	16.56	15.46	14.36
AD7714AR-5	AD7714AR-5-ND	ADC Signal Conditioning 5V	24-SOIC	16.56	15.46	14.36
AD7714ARS-5	AD7714ARS-5-ND	ADC Signal Conditioning 5V	28-SSOP	16.56	15.46	14.36
AD7714YN	AD7714YN-ND	ADC Signal Conditioning	24-Dip	16.23	14.61	12.96
AD7714YRU	AD7714YRU-ND	ADC Signal Conditioning 3V/5V	24-TSSOP	16.23	14.61	12.96
AD7715AN-5	AD7715AN-5-ND	ADC 16-Bit, 5V	16-Dip	11.08	9.98	8.85
AD7715AR-3	AD7715AR-3-ND	ADC 16-Bit, 3V	16-SOIC	11.08	9.98	8.85
AD7715AR-5	AD7715AR-5-ND	ADC 16-Bit, 5V	16-SOIC	11.08	9.98	8.85
AD7715ARZ-5	AD7715ARZ-5-ND	ADC 16-Bit, 5V* NEW!	16-SOIC	11.08	9.98	8.85
AD7715AR-5REEL	AD7715AR-5REELCT-ND	ADC 16-Bit, 5V	16-SOIC	11.08	9.98	8.85
AD7715AR-5REEL	AD7715AR-5REELTR-ND	ADC 16-Bit, 5V	16-SOIC		8213.00/1,000	
AD7716BP	AD7716BP-ND	ADC 22-Bit Sigma-Delta	44-PLCC	55.64	51.93	48.22
AD7719BR	AD7719BR-ND	ADC 16/24-Bit Dual	28-SOIC	15.45	14.42	13.39
AD7722AS	AD7722AS-ND	ADC 16-Bit, 195KSPS	44-MQFP	30.00	28.00	26.00
AD7723BS	AD7723BS-ND	ADC 16-Bit Sigma-Delta	44-MQFP	40.59	37.89	35.18
AD7725BS	AD7725BS-ND	ADC 16-Bit Programmable	44-MQFP	30.00	28.00	26.00
AD7729ARU	AD7729ARU-ND	ADC 15-Bit Dual with DAC	28-TSSOP	15.24	13.73	12.17
AD7730BN	AD7730BN-ND	ADC Bridge Transducer	24-Dip	17.40	16.24	15.08
AD7730BNZ	AD7730BNZ-ND	ADC Bridge Transducer* NEW!	24-Dip	17.40	16.24	15.08
AD7730BR	AD7730BR-ND	ADC Bridge Transducer	24-SOIC	17.40	16.24	15.08
AD7730BRU	AD7730BRU-ND	ADC Bridge Transducer	24-TSSOP	17.40	16.24	15.08
AD7730BRUZ	AD7730BRUZ-ND	ADC Bridge Transducer* NEW!	24-TSSOP	17.40	16.24	15.08
AD7730BRZ	AD7730BRZ-ND	ADC Bridge Transducer	24-SOIC	17.40	16.24	15.08
EVAL-AD7730EB	EVAL-AD7730EB-ND	Evaluation Board for AD7730	—	168.75	—	—
AD7731BR	AD7731BR-ND	ADC 24-Bit	24-SOIC	17.40	16.24	15.08
AD7731BRZ	AD7731BRZ-ND	ADC 24-Bit* NEW!	24-SOIC	17.40	16.24	15.08
AD7731BRU	AD7731BRU-ND	ADC 24-Bit	24-TSSOP	17.40	16.24	15.08
AD7732BRU	AD7732BRU-ND	ADC 24-Bit, 2-Ch.	28-TSSOP	15.00	14.00	13.00
AD7734BRU	AD7734BRU-ND	ADC 24-Bit, 4-Ch.	28-TSSOP	15.00	14.00	13.00
AD7738BRU	AD7738BRU-ND	ADC 24-Bit, 8-Ch.	28-TSSOP	15.23	13.71	12.16
AD7739BRU	AD7739BRU-ND	ADC 24-Bit, 8-Ch.	24-TSSOP	14.99	13.50	11.97
AD7783BRU	AD7783BRU-ND	ADC 24-Bit 2-Ch. R-R	16-TSSOP	8.33	7.50	6.65
AD7788ARM	AD7788ARM-ND	ADC 16-Bit Low Power NEW!	10-MSOP	5.27	4.22	3.28
AD7788BRM	AD7788BRM-ND	ADC 16-Bit Low Power	10-MSOP	6.00	4.80	4.05
AD7789BRM	AD7789BRM-ND	ADC 24-Bit Low Power	10-MSOP	6.94	5.56	4.69
AD7790BRM	AD7790BRM-ND	ADC 16-Bit Buffered LP	10-MSOP	6.94	5.56	4.69
AD7790BRMZ	AD7790BRMZ-ND	ADC 16-Bit Buffered LP* NEW!	10-MSOP	6.94	5.56	4.69
AD7791BRM	AD7791BRM-ND	ADC 24-Bit Buffered LP	10-MSOP	9.00	7.20	6.08
AD7792BRUZ	AD7792BRUZ-ND	ADC 16-Bit, 3-Ch.* NEW!	16-TSSOP	9.38	7.51	6.34
AD7793BRUZ	AD7793BRUZ-ND	ADC 24-Bit, 3-Ch.* NEW!	16-TSSOP	10.00	9.00	7.98
AD7794BRUZ	AD7794BRUZ-ND	ADC 24-Bit, 6-Ch.* NEW!	24-TSSOP	11.36	10.23	9.08
AD7798BRUZ	AD7798BRUZ-ND	ADC 16-Bit, 3-Ch.* NEW!	16-TSSOP	8.94	7.16	6.04
AD7799BRUZ	AD7799BRUZ-ND	ADC 24-Bit, 3-Ch.* NEW!	16-TSSOP	8.53	7.68	6.81
AD7810YR	AD7810YR-ND	ADC 10-Bit, 2.7V	8-SOIC	6.26	5.01	4.23
AD7811YR	AD7811YR-ND	ADC 10-Bit, 4-Ch., 2.7V	16-SOIC	7.42	5.94	5.01
AD7811YRU	AD7811YRU-ND	ADC 10-Bit, 4-Ch., 2.7V	16-TSSOP	7.42	5.94	5.01
AD7812YR	AD7812YR-ND	ADC 10-Bit, 8-Ch., 2.7V	20-SOIC	8.44	6.76	5.70
AD7812YRU	AD7812YRU-ND	ADC 10-Bit, 8-Ch., 2.7V	20-TSSOP	8.44	6.76	5.70
AD7813YN	AD7813YN-ND	ADC 10-Bit Parallel	16-Dip	6.52	5.22	4.41
AD7817AR	AD7817AR-ND	ADC 10-Bit, 4-Ch., Temp. Sensor	16-SOIC	7.54	6.04	5.09
AD7817ARZ	AD7817ARZ-ND	ADC 10-Bit, 4-Ch., Temp. Sensor* NEW!	16-SOIC	7.54	6.04	5.09
AD7817ARU	AD7817ARU-ND	ADC 10-Bit, 4-Ch., Temp. Sensor	16-TSSOP	7.54	6.04	5.09
AD7819YR	AD7819YR-ND	ADC 8-Bit Sampling Parallel	16-SOIC	5.00	4.00	3.38
AD7821KN	AD7821KN-ND	ADC 8-Bit LC2MOS Track/Hold HS	20-Dip	14.83	13.35	11.84
AD7821KR	AD7821KR-ND	ADC 8-Bit LC2MOS Track/Hold HS	20-SOIC	15.30	14.28	13.26
AD7822BR	AD7822BR-ND	ADC 8-Bit 1-Ch., 2MSPS	20-SOIC	7.54	6.04	5.09
AD7823YN	AD7823YN-ND	ADC 8-Bit Serial 2.7/5.5V	8-Dip	5.00	4.00	3.38
AD7823YR	AD7823YR-ND	ADC 8-Bit Serial 2.7/5.5V	8-SOIC	5.00	4.00	3.38
AD7824BQ	AD7824BQ-ND	ADC 8-Bit LC2MOS 4-Ch.	24-CDip	25.02	23.36	21.69
AD7824KN	AD7824KN-ND	ADC 8-Bit LC2MOS 4-Ch.	24-Dip	15.58	14.03	12.44
AD7824KR	AD7824KR-ND	ADC 8-Bit LC2MOS 4-Ch.	24-SOIC	15.58	14.03	12.44
AD7825BR	AD7825BR-ND	ADC 8-Bit, 4-Ch., 2MSPS	24-SOIC	8.70	6.96	5.88
AD7828KN	AD7828KN-ND	ADC 8-Bit LC2MOS 8-Ch.	28-Dip	15.69	14.13	12.53
AD7828KP	AD7828KP-ND	ADC 8-Bit LC2MOS 8-Ch.	28-PLCC	16.13	15.05	13.98
AD7828LP	AD7828LP-ND	ADC 8-Bit LC2MOS 8-Ch.	28-PLCC	21.93	20.47	19.01
AD7829BR	AD7829BR-ND	ADC 8-Bit, 8-Ch., 2MSPS	28-SOIC	9.46	7.57	6.39
AD7829BRU	AD7829BRU-ND	ADC 8-Bit, 8-Ch., 2MSPS	28-TSSOP	9.46	7.57	6.39

* Lead Free/RoHS Compliant

(Continued)

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD7843ARU	AD7843ARU-ND	ADC 12-Bit, Touch Screen Digitizer **NEW!**	16-TSSOP	5.13	4.11	3.20
AD7854LAR	AD7854LAR-ND	ADC 12-Bit Parallel LP	28-SOIC	11.66	10.50	9.31
AD7856AN	AD7856AN-ND	ADC 14-Bit, 8-Ch., 285KSPS **NEW!**	24-Dip	17.48	16.31	15.15
AD7858AN	AD7858AN-ND	ADC 12-Bit, 8-Ch. Serial	24-Dip	17.03	15.89	14.76
AD7858AR	AD7858AR-ND	ADC 12-Bit, 8-Ch. Serial	24-SOIC	17.03	15.89	14.76
AD7858BN	AD7858BN-ND	ADC 12-Bit, 8-Ch. Serial	24-Dip	21.75	20.30	18.85
AD7858LAR	AD7858LAR-ND	ADC 12-Bit, 8-Ch. Serial	24-SOIC	13.58	12.23	10.84
AD7859AP	AD7859AP-ND	ADC 12-Bit, 8-Ch., 200KSPS	44-PLCC	13.74	12.38	10.98
AD7859AS	AD7859AS-ND	ADC 12-Bit, 8-Ch., 200KSPS	44-MQFP	13.74	12.38	10.98
AD7859LAS	AD7859LAS-ND	ADC 12-Bit, 8-Ch., 200KSPS	44-PQFP	13.16	11.85	10.51
AD7862AR-10	AD7862AR-10-ND	ADC 12-Bit Dual 250KSPS	28-SOIC	19.43	18.13	16.84
AD7862ARS-3	AD7862ARS-3-ND	ADC 12-Bit Dual 250KSPS	28-SSOP	19.43	18.13	16.84
AD7862ARS-10	AD7862ARS-10-ND	ADC 12-Bit Dual 250KSPS	28-SSOP	19.43	18.13	16.84
AD7864AS-1	AD7864AS-1-ND	ADC 12-Bit Dual 4-Ch.	44-MQFP	24.00	22.40	20.80
AD7864ASZ-1	AD7864ASZ-1-ND	ADC 12-Bit Dual 4-Ch.* **NEW!**	44-MQFP	24.00	22.40	20.80
AD7865AS-1	AD7865AS-1-ND	ADC 14-Bit Dual 4-Ch.	44-MQFP	25.35	23.66	21.97
AD7866ARU	AD7866ARU-ND	ADC 12-Bit, 2-Ch. Dual	20-TSSOP	11.58	10.43	9.25
AD7866BRU	AD7866BRU-ND	ADC 12-Bit, 2-Ch. Dual	20-TSSOP	13.53	12.18	10.80
AD7870JN	AD7870JN-ND	ADC 12-Bit LC2MOS 100KHz	24-Dip	29.22	27.28	25.33
AD7870JP	AD7870JP-ND	ADC 12-Bit LC2MOS 100KHz	28-PLCC	29.22	27.28	25.33
AD7871JN	AD7871JN-ND	ADC 14-Bit Sampling	28-Dip	51.00	47.60	44.20
AD7871JP	AD7871JP-ND	ADC 14-Bit Sampling	28-PLCC	51.00	47.60	44.20
AD7871KN	AD7871KN-ND	ADC 14-Bit Sampling	28-Dip	60.11	56.10	52.10
AD7872JR	AD7872JR-ND	ADC 14-Bit LC2MOS	16-SOIC	43.71	40.80	37.89
AD7872KN	AD7872KN-ND	ADC 14-Bit LC2MOS	16-Dip	51.51	48.08	44.65
AD7873ACP	AD7873ACP-ND	ADC 12-Bit Touch Screen	16-LFCSP	4.84	3.87	3.01
AD7875KN	AD7875KN-ND	ADC 12-Bit LC2MOS 100KHz	24-Dip	39.30	36.68	34.06
AD7876BN	AD7876BN-ND	ADC 12-Bit Sampling 10V	24-Dip	30.90	28.84	26.78
AD7880BN	AD7880BN-ND	ADC 12-Bit LC2MOS 5V LP	24-Dip	25.41	23.72	22.03
AD7880BR	AD7880BR-ND	ADC 12-Bit LC2MOS 5V LP	24-SOIC	25.41	23.72	22.03
AD7880CN	AD7880CN-ND	ADC 12-Bit LC2MOS 5V LP	24-Dip	29.04	27.11	25.17
AD7884AQ	AD7884AQ-ND	ADC 16-Bit Sampling HS	40-CDip	77.27	72.12	66.97
AD7885AQ	AD7885AQ-ND	ADC 16-Bit Sampling HS	28-CDip	77.27	72.12	66.97
AD7888AR	AD7888AR-ND	ADC 12-Bit, 8-Ch., 125KSPS	16-SOIC	9.20	7.36	6.21
AD7888ARU	AD7888ARU-ND	ADC 12-Bit, 8-Ch., 125KSPS	16-TSSOP	9.20	7.36	6.21
AD7892AR-1	AD7892AR-1-ND	ADC 12-Bit, 5V, 600KSPS	24-SOIC	22.50	21.00	19.50
AD7892ARZ-1	AD7892ARZ-1-ND	ADC 12-Bit, 5V, 500KSPS	24-SOIC	22.50	21.00	19.50
AD7892BR-1	AD7892BR-1-ND	ADC 12-Bit, 5V, 600KSPS	24-SOIC	27.00	25.20	23.40
AD7892BR-3	AD7892BR-3-ND	ADC 12-Bit, 2.5V, 600KSPS	24-SOIC	27.00	25.20	23.40
AD7892BRZ-1	AD7892BRZ-1-ND	ADC 12-Bit, 5V, 500KSPS	24-SOIC	27.00	25.20	23.40
AD7893AR-5	AD7893AR-5-ND	ADC 12-Bit LC2MOS	8-SOIC	16.50	15.40	14.30
AD7893AR-10	AD7893AR-10-ND	ADC 12-Bit LC2MOS	8-SOIC	16.50	15.40	14.30
AD7893BR-5	AD7893BR-5-ND	ADC 12-Bit LC2MOS	8-SOIC	21.38	19.95	18.53
AD7893BR-10	AD7893BR-10-ND	ADC 12-Bit LC2MOS	8-SOIC	21.38	19.95	18.53
AD7894AR-2	AD7894AR-2-ND	ADC 14-Bit Serial Track Hold LP	8-SOIC	15.58	14.03	12.44
AD7894AR-3	AD7894AR-3-ND	ADC 14-Bit Serial Track Hold LP	8-SOIC	15.58	14.03	12.44
AD7895AR-2	AD7895AR-2-ND	ADC 12-Bit Serial 5V	8-SOIC	9.75	8.78	7.79
AD7895AR-3	AD7895AR-3-ND	ADC 12-Bit Serial 5V	8-SOIC	9.75	8.78	7.79
AD7895AR-10	AD7895AR-10-ND	ADC 12-Bit Serial 5V	8-SOIC	9.75	8.78	7.79
AD7896BR	AD7896BR-ND	ADC 12-Bit Serial Track Hold HS	8-SOIC	15.53	14.49	13.46
AD7899ARS-1	AD7899ARS-1-ND	ADC 14-Bit, 400KSPS, 5V	28-SSOP	17.48	16.31	15.15
AD7904BRU	AD7904BRU-ND	ADC 8-Bit, 4-Ch., 1MSPS	16-TSSOP	4.10	3.28	2.55
AD7904BRUZ	AD7904BRUZ-ND	ADC 8-Bit, 4-Ch., 1MSPS* **NEW!**	16-TSSOP	4.10	3.28	2.55
AD7908BRU	AD7908BRU-ND	ADC 8-Bit, 8-Ch., 1MSPS	20-TSSOP	4.91	3.93	3.06
AD7910ARM	AD7910ARM-ND	ADC 10-Bit, 250KSPS	8-MSOP	4.64	3.71	2.89
AD7911ARMZ	AD7911ARMZ-ND	ADC 10-Bit, 2-Ch., 250KSPS	8-MSOP	5.29	4.23	3.29
AD7911ARMZ-REEL7	AD7911ARMZREEL7TR-ND	ADC 10-Bit, 2-Ch., 250KSPS	8-MSOP		2996.00/1,000	
AD7912AUJ-R2	AD7912AUJ-R2TR-ND	ADC 10-Bit, 2-Ch., 1MSPS	8-TSOT		1053.00/250	
EVAL-AD7912CB	EVAL-AD7912CB-ND	Evaluation Board for AD7912	—	225.00	—	—
AD7914BRU	AD7914BRU-ND	ADC 10-Bit, 4-Ch., 1MSPS	16-TSSOP	7.06	5.65	4.77
AD7918BRU	AD7918BRU-ND	ADC 10-Bit, 8-Ch., 1MSPS	20-TSSOP	7.64	6.12	5.16
AD7920BRM	AD7920BRM-ND	ADC 12-Bit, 250KSPS	8-MSOP	6.02	4.82	4.07
AD7921ARM	AD7921ARM-ND	ADC 12-Bit, 250KSPS, 2-Ch.	8-MSOP	5.42	4.34	3.66
AD7921ARM-REEL7	AD7921ARM-REEL7TR-ND	ADC 12-Bit, 250KSPS, 2-Ch.	8-MSOP		3388.00/1,000	
AD7921ARMZ	AD7921ARMZ-ND	ADC 12-Bit, 250KSPS, 2-Ch.	8-MSOP	5.42	4.34	3.66
AD7922ARM	AD7922ARM-ND	ADC 12-Bit, 1MSPS, 2-Ch.	8-MSOP	10.00	8.00	6.75
EVAL-AD7922CB	EVAL-AD7922CB-ND	Evaluation Board for AD7922	—	225.00	—	—
AD7923BRU	AD7923BRU-ND	ADC 12-Bit, 4-Ch., 200KSPS	16-TSSOP	6.00	4.80	4.05
AD7924BRU	AD7924BRU-ND	ADC 12-Bit, 4-Ch., 1MSPS	16-TSSOP	8.81	7.94	7.04
AD7927BRU	AD7927BRU-ND	ADC 12-Bit, 8-Ch., 200KSPS	20-TSSOP	6.58	5.27	4.45
AD7928BRU	AD7928BRU-ND	ADC 12-Bit, 8-Ch., 1MSPS	20-TSSOP	9.31	8.39	7.44
AD7933BRUZ	AD7933BRUZ-ND	ADC 10-Bit, 4-Ch., 1.5MSPS* **NEW!**	28-TSSOP	8.24	6.60	5.57
AD7940BRM	AD7940BRM-ND	ADC 14-Bit, 100KSPS, Unipolar	8-MSOP	9.64	7.72	6.51
AD7940BRM-REEL7	AD7940BRM-REEL7TR-ND	ADC 14-Bit, 100KSPS, Unipolar	8-MSOP		6025.00/1,000	
AD7993BRU-0	AD7993BRU-0-ND	ADC 10-Bit, 4-Ch., I²C **NEW!**	16-TSSOP	5.00	4.00	3.11
AD7998BRU-1	AD7998BRU-1-ND	ADC 12-Bit, 8-Ch., I²C **NEW!**	20-TSSOP	8.82	7.06	5.96
AD9012AJ	AD9012AJ-ND	ADC 8-Bit, 100MSPS	28-CLCC	108.47	101.24	94.01
AD9042AST	AD9042AST-ND	ADC 12-Bit, 41MSPS	44-TQFP	40.25	37.57	34.88
AD9048JQ	AD9048JQ-ND	Video ADC 8-Bit	28-CDip	38.03	35.49	32.96
AD9050BR	AD9050BR-ND	ADC 10-Bit, 40MSPS	28-SOIC	14.33	12.90	11.44
AD9051BRS	AD9051BRS-ND	ADC 10-Bit, 60MSPS	28-SSOP	12.25	11.03	9.78
AD9051BRS-2V	AD9051BRS-2V-ND	ADC 10-Bit, 60MSPS	28-SSOP	12.25	11.03	9.78
AD9054ABST-200	AD9054ABST-200-ND	ADC 8-Bit, 200MSPS	44-LQFP	32.64	30.47	28.29
AD9058AJJ	AD9058AJJ-ND	ADC 8-Bit Dual 50MSPS	44-JLCC	44.94	41.95	38.95
AD9058AKJ	AD9058AKJ-ND	ADC 8-Bit Dual 50MSPS	44-JLCC	88.32	82.44	76.55
AD9200ARS	AD9200ARS-ND	ADC CMOS 10-Bit, 20MSPS	28-SSOP	5.88	4.71	3.97
AD9201ARS	AD9201ARS-ND	ADC CMOS 10-Bit Dual	28-SSOP	9.71	8.75	7.76
AD9203ARU	AD9203ARU-ND	ADC 10-Bit, 40MSPS, 3V	28-TSSOP	9.40	8.46	7.51
AD9214BRS-105	AD9214BRS-105-ND	ADC 10-Bit, 105MSPS, 3V	28-SSOP	17.84	16.65	15.46
AD9215BCP-65	AD9215BCP-65-ND	ADC 10-Bit, 65MSPS	32-LFCSP	12.25	11.03	9.78
AD9215BCP-80	AD9215BCP-80-ND	ADC 10-Bit, 80MSPS	32-LFCSP	16.19	15.11	14.03
AD9215BCP-105	AD9215BCP-105-ND	ADC 10-Bit, 105MSPS	32-LFCSP	20.75	19.37	17.98
AD9215BRU-65	AD9215BRU-65-ND	ADC 10-Bit, 65MSPS, 3V	28-TSSOP	12.25	11.03	9.78
AD9215BRU-80	AD9215BRU-80-ND	ADC 10-Bit, 80MSPS, 3V	28-TSSOP	16.19	15.11	14.03
AD9215BRU-105	AD9215BRU-105-ND	ADC 10-Bit, 105MSPS, 3V	28-TSSOP	20.75	19.37	17.98
AD9218BST-40	AD9218BST-40-ND	ADC 10-Bit, 40MSPS Dual	48-LQFP	15.87	14.82	13.76
AD9218BST-65	AD9218BST-65-ND	ADC 10-Bit, 65MSPS Dual	48-LQFP	19.61	18.30	17.00
AD9218BST-80	AD9218BST-80-ND	ADC 10-Bit, 80MSPS Dual	48-LQFP	22.28	20.79	19.31
AD9218BST-105	AD9218BST-105-ND	ADC 10-Bit, 105MSPS Dual	48-LQFP	28.53	26.63	24.73
AD9218BSTZ-RL65	AD9218BSTZ-RL65CT-ND	ADC 10-Bit, 65MSPS Dual	48-LQFP	19.61	18.30	17.00
AD9218BSTZ-RL65	AD9218BSTZ-RL65TR-ND	ADC 10-Bit, 65MSPS Dual	48-LQFP		32282.00/2,000	
AD9220AR	AD9220AR-ND	ADC 12-Bit, 10MSPS	28-SOIC	10.78	9.71	8.61
AD9220ARS	AD9220ARS-ND	ADC 12-Bit, 10MSPS	28-SSOP	10.78	9.71	8.61
AD9223ARS	AD9223ARS-ND	ADC 12-Bit, 3.0MSPS	28-SSOP	11.71	10.55	9.35

Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD9224ARS	AD9224ARS-ND	ADC 12-Bit, 40MSPS	28-SSOP	19.32	18.04	16.75
AD9225AR	AD9225AR-ND	ADC 12-Bit, 25MSPS	28-SOIC	22.94	21.41	19.88
AD9225ARS	AD9225ARS-ND	ADC 12-Bit, 25MSPS	28-SSOP	22.94	21.41	19.88
AD9226ARS	AD9226ARS-ND	ADC 12-Bit, 65MSPS	28-SSOP	28.14	26.27	24.39
AD9226AST	AD9226AST-ND	ADC 12-Bit, 65MSPS	48-LQFP	28.14	26.27	24.39
AD9235BCP-65	AD9235BCP-65-ND	ADC 12-Bit, 65MSPS	32-LFCSP	28.13	26.25	24.38
AD9235-65PCB	AD9235-65PCB-ND	Evaluation Board for AD9235-65	—	225.00	—	—
AD9235BRU-20	AD9235BRU-20-ND	ADC 12-Bit, 20MSPS	28-TSSOP	16.59	15.49	14.38
AD9235BRU-40	AD9235BRU-40-ND	ADC 12-Bit, 40MSPS	28-TSSOP	18.98	17.71	16.45
AD9235BRU-65	AD9235BRU-65-ND	ADC 12-Bit, 65MSPS	28-TSSOP	28.17	26.30	24.42
AD9236BCP-80	AD9236BCP-80-ND	ADC 12-Bit, 80MSPS, 3V	32-LFCSP	44.61	41.64	38.67
AD9236BCP-80EB	AD9236BCP-80EB-ND	Evaluation Board for AD9236-80 **NEW!**	—	225.00	—	—
AD9236BRU-80	AD9236BRU-80-ND	ADC 12-Bit, 80MSPS, 3V	28-TSSOP	44.61	41.64	38.67
AD9238BST-20	AD9238BST-20-ND	ADC 12-Bit Dual 20MSPS	64-LQFP	25.50	23.80	22.10
AD9238BST-40	AD9238BST-40-ND	ADC 12-Bit Dual 40MSPS	64-LQFP	29.00	27.07	25.13
AD9238BST-65	AD9238BST-65-ND	ADC 12-Bit Dual 65MSPS	64-LQFP	42.57	39.74	36.90
AD9240AS	AD9240AS-ND	ADC 14-Bit, 10MSPS	44-MQFP	29.12	27.18	25.24
AD9241AS	AD9241AS-ND	ADC 14-Bit, 1.25MSPS	44-MQFP	15.00	14.00	13.00
AD9243AS	AD9243AS-ND	ADC 14-Bit, 3MSPS	44-MQFP	18.53	17.29	16.06
AD9244BST-40	AD9244BST-40-ND	ADC 14-Bit, 40MSPS	48-LQFP	32.90	30.71	28.51
AD9244BSTZ-40	AD9244BSTZ-40-ND	ADC 14-Bit, 40MSPS* **NEW!**	48-LQFP	32.90	30.71	28.51
AD9244BST-65	AD9244BST-65-ND	ADC 14-Bit, 65MSPS	48-LQFP	43.85	40.93	38.00
AD9244BSTZ-65	AD9244BSTZ-65-ND	ADC 14-Bit, 65MSPS* **NEW!**	48-LQFP	43.85	40.93	38.00
AD9245BCP-80	AD9245BCP-80-ND	ADC 14-Bit, 80MSPS, 3V	32-LFCSP	58.23	54.35	50.47
AD9245BCP-80EB	AD9245BCP-80EB-ND	Evaluation Board for AD9245BCP+C757-80	—	225.00	—	—
AD9260AS	AD9260AS-ND	ADC CMOS 16-Bit Oversampled	44-MQFP	70.43	65.73	61.04
AD9280ARS	AD9280ARS-ND	ADC CMOS 8-Bit, 32MSPS	28-SSOP	5.09	4.07	3.11
AD9281ARS	AD9281ARS-ND	ADC 8-Bit Dual CMOS	28-SSOP	8.14	6.52	5.50
AD9283BRS-50	AD9283BRS-50-ND	ADC 8-Bit, 50MSPS, 3V	20-SSOP	5.88	4.71	3.97
AD9283BRS-80	AD9283BRS-80-ND	ADC 8-Bit, 80MSPS, 3V	20-SSOP	7.04	5.64	4.76
AD9283BRS-100	AD9283BRS-100-ND	ADC 8-Bit, 100MSPS, 3V	20-SSOP	10.78	9.71	8.61
AD9288BST-40	AD9288BST-40-ND	ADC 8-Bit Dual 40MSPS	48-LQFP	8.00	6.40	5.40
AD9288BST-100	AD9288BST-100-ND	ADC 8-Bit Dual 100MSPS	48-LQFP	18.53	17.29	16.06
AD9410BSQ	AD9410BSQ-ND	ADC 10-Bit, 210MSPS	80-LQFP	88.50	82.60	76.70
AD9411BSV-170	AD9411BSV-170-ND	ADC 10-Bit, 170MSPS, 3.3V	100-TQFP	63.47	59.24	55.01
AD9411BSV-200	AD9411BSV-200-ND	ADC 10-Bit, 200MSPS, 3.3V	100-TQFP	74.10	69.16	64.22
AD9430BSV-170	AD9430BSV-170-ND	ADC 12-Bit, 170MSPS, 3.3V	100-TQFP	83.82	78.24	72.66
AD9430BSVZ-170	AD9430BSVZ-170-ND	ADC 12-Bit, 170MSPS, 3.3V* **NEW!**	100-TQFP	83.82	78.24	72.66
AD9430BSV-210	AD9430BSV-210-ND	ADC 12-Bit, 210MSPS, 3.3V	100-TQFP	160.59	149.89	139.18
AD9432BSQ-105	AD9432BSQ-105-ND	ADC 12-Bit, 105MSPS	52-LQFP	96.89	90.43	83.97
AD9432BST-80	AD9432BST-80-ND	ADC 12-Bit, 80MSPS	52-LQFP	63.15	58.94	54.73
AD9432BST-105	AD9432BST-105-ND	ADC 12-Bit, 105MSPS	52-LQFP	101.36	94.60	87.85
AD9432/PCB	AD9432/PCB-ND	Evaluation Board for AD9432	—	225.00	—	—
AD9433BSQ-125	AD9433BSQ-125-ND	ADC 12-Bit, 125MSPS IF Sampling	52-LQFP	114.00	106.40	98.80
AD9433/PCB	AD9433/PCB-ND	Evaluation Board for AD9433	—	337.50	—	—
AD10678BWS	AD10678BWS-ND	ADC 16-Bit, 80MSPS	60-SMD	774.19	—	—
AD10678/PCB	AD10678/PCB-ND	Evaluation Kit for AD10678	—	1137.15	—	—
ADADC71JD	ADADC71JD-ND	ADC 16-Bit High Resolution	32-CDip	344.03	321.09	298.16
ADADC80-12	ADADC80-12-ND	ADC 12-Bit, 5V, Mono Low Power	32-Dip	148.23	138.35	128.47
ADADC85-12	ADADC85-12-ND	ADC 12-Bit	32-CDip	256.55	239.45	222.34
ADADC85SZ-12	ADADC85SZ-12-ND	ADC 12-Bit	32-CDip	304.83	284.51	264.19
ADC912AFP	ADC912AFP-ND	ADC 12-Bit CMOS MPU Compatible	24-Dip	18.75	17.50	16.25
ADC912AFS	ADC912AFS-ND	ADC 12-Bit CMOS MPU Compatible	24-SOIC	18.74	17.49	16.24
HSC-ADC-EVALA-DC	HSC-ADC-EVALA-DC-ND	HS ADC USB FIFO Evaluation Kit **NEW!**	—	798.00	—	—
HSC-ADC-EVALA-SC	HSC-ADC-EVALA-SC-ND	HS ADC USB FIFO Evaluation Kit **NEW!**	—	500.00	—	—

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AD390SD	AD390SD-ND	DAC Quad 12-Bit	28-Dip	648.48	605.25	562.02
AD390TD	AD390TD-ND	DAC Quad 12-Bit	28-Dip	760.20	709.52	658.84
AD420AN-32	AD420AN-32-ND	DAC Serial 16-Bit	24-Dip	18.98	17.71	16.45
AD420AR-32	AD420AR-32-ND	DAC Serial 16-Bit	24-SOIC	18.98	17.71	16.45
AD421BN	AD421BN-ND	DAC Serial 16-Bit	16-Dip	13.24	11.93	10.56
AD421BR	AD421BR-ND	DAC Serial 16-Bit	16-SOIC	13.24	11.93	10.56
AD557JN	AD557JN-ND	DAC 8-Bit Voltage Out	16-Dip	8.34	6.68	5.63
AD557JNZ	AD557JNZ-ND	DAC 8-Bit Voltage Out* **NEW!**	16-Dip	8.34	6.68	5.63
AD557JP	AD557JP-ND	DAC 8-Bit Voltage Out	20-PLCC	8.34	6.68	5.63
AD558JN	AD558JN-ND	DAC 8-Bit Voltage Out	16-Dip	11.18	10.07	8.99
AD558JP	AD558JP-ND	DAC 8-Bit Voltage Out	20-PLCC	11.18	10.07	8.99
AD558KN	AD558KN-ND	DAC 8-Bit Voltage Out	16-Dip	15.26	14.24	13.23
AD558KP	AD558KP-ND	DAC 8-Bit Voltage Out	20-PLCC	15.26	14.24	13.23
AD558SD	AD558SD-ND	DAC 8-Bit Voltage Out	16-Dip	29.63	27.65	25.68
AD561KD	AD561KD-ND	DAC 10-Bit, 5-15V Input Mono	16-Dip	78.48	73.25	68.02
AD565AJD	AD565AJD-ND	DAC 12-Bit Mono HS	24-Dip	27.57	25.74	23.90
AD565AJR	AD565AJR-ND	DAC 12-Bit Mono HS	28-SOIC	21.93	20.47	19.01
AD567JD	AD567JD-ND	DAC 12-Bit Mono	28-Dip	42.39	39.57	36.74
AD568JQ	AD568JQ-ND	DAC 12-Bit HS Mono 35nS	24-Dip	48.71	45.46	42.22
AD569AD	AD569AD-ND	DAC 16-Bit Mono	28-Dip	60.66	56.62	52.58
AD569JN	AD569JN-ND	DAC 16-Bit Mono	28-Dip	35.73	33.35	30.97
AD569JP	AD569JP-ND	DAC 16-Bit Mono	28-PLCC	39.12	36.52	33.91
AD569KN	AD569KN-ND	DAC 16-Bit Mono	28-Dip	45.00	42.00	39.00
AD660AN	AD660AN-ND	DAC 16-Bit Mono with Volt. Ref.	24-Dip	22.71	21.20	19.69
AD660AR	AD660AR-ND	DAC 16-Bit Mono with Volt. Ref.	24-SOIC	22.71	21.20	19.69
AD660BN	AD660BN-ND	DAC 16-Bit Mono with Volt. Ref.	24-Dip	34.05	31.78	29.51
AD660BR	AD660BR-ND	DAC 16-Bit Mono with Volt. Ref.	24-SOIC	34.05	31.78	29.51
AD664BD-BIP	AD664BD-BIP-ND	DAC 12-Bit Quad Mono	28-Dip	117.66	109.82	101.98
AD664BD-UNI	AD664BD-UNI-ND	DAC 12-Bit Quad Mono	28-CDip	117.66	109.82	101.98
AD664BJ	AD664BJ-ND	DAC 12-Bit Quad Mono	44-JLCC	124.07	115.80	107.53
AD664JN-BIP	AD664JN-BIP-ND	DAC 12-Bit Quad Bipolar	28-Dip	67.77	63.26	58.74
AD664JP	AD664JP-ND	DAC 12-Bit Quad Mono	44-PLCC	78.50	73.27	68.03
AD664KP	AD664KP-ND	DAC 12-Bit Quad Mono	44-PLCC	106.97	99.84	92.71
AD667JN	AD667JN-ND	DAC 12-Bit Voltage Out	28-Dip	15.30	14.28	13.26
AD667JNZ	AD667JNZ-ND	DAC 12-Bit Voltage Out* **NEW!**	28-Dip	15.30	14.28	13.26
AD667JP	AD667JP-ND	DAC 12-Bit Voltage Out	28-PLCC	15.30	14.28	13.26
AD667SD	AD667SD-ND	DAC 12-Bit Voltage Out	28-Dip	99.18	92.57	85.96
AD669AN	AD669AN-ND	DAC 16-Bit Mono w/Volt. Ref.	28-Dip	22.71	21.20	19.69
AD669ANZ	AD669ANZ-ND	DAC 16-Bit Mono w/Volt. Ref.* **NEW!**	28-Dip	22.71	21.20	19.69
AD669AR	AD669AR-ND	DAC 16-Bit Mono w/Volt. Ref.	28-SOIC	22.71	21.20	19.69
AD669BN	AD669BN-ND	DAC 16-Bit Mono w/Volt. Ref.	28-Dip	34.05	31.78	29.51
AD669BNZ	AD669BNZ-ND	DAC 16-Bit Mono w/Volt. Ref.* **NEW!**	28-Dip	34.05	31.78	29.51
AD669BR	AD669BR-ND	DAC 16-Bit Mono w/Volt. Ref.	28-SOIC	34.05	31.78	29.51
AD760AQ	AD760AQ-ND	DAC 16-Bit with Amp Serial	28-CDip	108.90	101.64	94.38
AD766JN	AD766JN-ND	DAC 16-Bit with Volt. Ref.	16-Dip	17.85	16.66	15.47

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Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
D766JNZ	AD766JNZ-ND	DAC 16-Bit with Volt. Ref.* **NEW!**	16-Dip	17.85	16.66	15.47
D767AD	AD767AD-ND	DAC 12-Bit	24-CDip	24.39	22.77	21.14
D767JN	AD767JN-ND	DAC 12-Bit	24-Dip	16.01	14.94	13.88
D767JNZ	AD767JNZ-ND	DAC 12-Bit* **NEW!**	24-Dip	16.01	14.94	13.88
D767JP	AD767JP-ND	DAC 12-Bit	28-PLCC	16.01	14.94	13.88
D767KN	AD767KN-ND	DAC 12-Bit	24-Dip	21.11	19.70	18.30
D767KNZ	AD767KNZ-ND	DAC 12-Bit* **NEW!**	24-Dip	21.11	19.70	18.30
D768AR	AD768AR-ND	DAC 16-Bit, 30MSPS	28-SOIC	37.43	34.93	32.44
D1139J	AD1139J-ND	DAC Single 18-Bit	32-Dip	906.92	846.46	786.00
D1139K	AD1139K-ND	DAC Single 18-Bit	32-Dip	1133.64	1058.07	982.49
D1833AAST	AD1833AAST-ND	DAC Audio 24-Bit, 6-Ch	48-LQFP	12.50	11.25	9.98
D1833ACST	AD1833ACST-ND	DAC Audio 24-Bit, 6-Ch	48-LQFP	8.70	6.96	5.88
D1851N	AD1851N-ND	DAC Audio 16-Bit PCM	16-Dip	10.00	9.00	7.98
D1851R	AD1851R-ND	DAC Audio 16-Bit PCM	16-SOIC	10.00	9.00	7.98
D1851R-REEL7	AD1851R-REEL7CT-ND	DAC Audio 16-Bit PCM	16-SOIC	10.00	9.00	7.98
D1851R-REEL7	AD1851R-REEL7TR-ND	DAC Audio 16-Bit PCM	16-SOIC		1912.50/250	
D1852JRS	AD1852JRS-ND	DAC Stereo 24-Bit	28-SSOP	11.46	10.32	9.16
D1852JRSZ	AD1852JRSZ-ND	DAC Stereo 24-Bit* **NEW!**	28-SSOP	11.46	10.32	9.16
D1853JRS	AD1853JRS-ND	DAC Stereo 24-Bit	28-SSOP	12.89	11.61	10.30
D1861R-J	AD1861R-J-ND	DAC Audio Fastset 18-Bit	16-SOIC	11.83	10.65	9.45
D1865N	AD1865N-ND	DAC Audio Dual 18-Bit	24-Dip	21.08	19.67	18.27
D1865R-J	AD1865R-J-ND	DAC Audio Dual 18-Bit	28-SOIC	25.29	23.61	21.92
D1866N	AD1866N-ND	DAC Audio 16-Bit Dual	16-Dip	16.54	14.90	13.21
D1866R	AD1866R-ND	DAC Audio 16-Bit Dual	16-SOIC	16.54	14.90	13.21
D1868N	AD1868N-ND	DAC Audio 18-Bit Dual	16-Dip	16.62	15.52	14.41
D1868R	AD1868R-ND	DAC Audio 18-Bit Dual	16-SOIC	16.62	15.52	14.41
D1953YST	AD1953YST-ND	DAC Audio 3-Ch., 26-Bit	48-LQFP	13.01	11.72	10.39
D1954YST	AD1954YST-ND	DAC Audio 3-Ch., 26-Bit	48-LQFP	13.01	11.72	10.39
D1955ARS	AD1955ARS-ND	DAC Audio Multi-Bit	28-SSOP	12.50	11.25	9.98
VAL-AD1955EB	EVAL-AD1955EB-ND	Evaluation Board for AD1955	—	225.00	—	—
D5300BRM	AD5300BRM-ND	DAC 8-Bit R-R 2.7-5.5V	8-MSOP	3.42	2.74	2.13
D5300BRTZ-REEL7	AD5300BRTZREEL7CT-ND	DAC 8-Bit R-R 2.7-5.5V* **NEW!**	SOT-23-6	2.81	2.25	1.75
D5300BRTZ-REEL7	AD5300BRTZREEL7TR-ND	DAC 8-Bit R-R 2.7-5.5V* **NEW!**	SOT-23-6		4725.00/3,000	
D5301BRM	AD5301BRM-ND	DAC 8-Bit, 2.5V, 2-Wire	8-MSOP	3.85	3.08	2.40
D5301BRMZ	AD5301BRMZ-ND	DAC 8-Bit, 2.5V, 2-Wire* **NEW!**	8-MSOP	3.85	3.08	2.40
D5301BRT-500RL7	AD5301BRT500RL7CT-ND	DAC 8-Bit, 2.5V, 2-Wire	SOT-23-6	3.15	2.52	1.96
D5301BRT-500RL7	AD5301BRT500RL7TR-ND	DAC 8-Bit, 2.5V, 2-Wire	SOT-23-6		910.00/500	
D5301BRTZ-500RL7	AD5301BRTZ500RLCT-ND	DAC 8-Bit, 2.5V, 2-Wire* **NEW!**	SOT-23-6	3.15	2.52	1.96
D5301BRTZ-500RL7	AD5301BRTZ500RLTR-ND	DAC 8-Bit, 2.5V, 2-Wire* **NEW!**	SOT-23-6		910.00/500	
D5302BRM-REEL7	AD5302BRM-REEL7CT-ND	DAC 8-Bit Dual R-R	10-MSOP	5.36	4.29	3.34
D5302BRM-REEL7	AD5302BRM-REEL7TR-ND	DAC 8-Bit Dual R-R	10-MSOP		3035.00/1,000	
D5302BRMZ	AD5302BRMZ-ND	DAC 8-Bit Dual R-R* **NEW!**	10-MSOP	5.36	4.29	3.34
D5304BRM	AD5304BRM-ND	DAC 8-Bit Quad Volt. Output	10-MSOP	7.20	5.76	4.86
D5308ARU	AD5308ARU-ND	DAC 8-Bit, 2.5V Octal	16-TSSOP	6.04	4.84	4.08
D5308BRU	AD5308BRU-ND	DAC 8-Bit, 2.5V Octal	16-TSSOP	9.86	7.89	6.66
D5308BRUZ	AD5308BRUZ-ND	DAC 8-Bit, 2.5V Octal* **NEW!**	16-TSSOP	9.86	7.89	6.66
D5310BRM	AD5310BRM-ND	DAC 10-Bit R-R with Buffer	8-MSOP	4.66	3.73	2.90
D5310BRMZ	AD5310BRMZ-ND	DAC 10-Bit R-R with Buffer* **NEW!**	8-MSOP	4.66	3.73	2.90
D5310BRT-REEL	AD5310BRT-REELCT-ND	DAC 10-Bit R-R with Buffer	SOT-23-6	3.83	3.06	2.38
D5310BRT-REEL	AD5310BRT-REELTR-ND	DAC 10-Bit R-R with Buffer	SOT-23-6		20830.00/10,000	
D5311BRM	AD5311BRM-ND	DAC 10-Bit, 2 Wire w/Buffer	8-MSOP	5.36	4.29	3.34
D5311BRMZ	AD5311BRMZ-ND	DAC 10-Bit, 2 Wire w/Buffer* **NEW!**	8-MSOP	5.36	4.29	3.34
D5312BRM	AD5312BRM-ND	DAC 10-Bit Dual R-R Out	10-MSOP	5.86	4.69	3.96
D5314BRM	AD5314BRM-ND	DAC 10-Bit Quad Volt. Output	10-MSOP	8.66	6.93	5.85
D5315BRM	AD5315BRM-ND	DAC 10-Bit, 2 Wire I2C	10-MSOP	8.66	6.93	5.85
D5316BRU	AD5316BRU-ND	DAC 10-Bit Quad w/Buffer	16-TSSOP	9.14	7.32	6.17
D5317BRU	AD5317BRU-ND	DAC 10-Bit Quad w/Buffer	16-TSSOP	9.14	7.32	6.17
D5317BRUZ-REEL7	AD5317BRUZREEL7CT-ND	DAC 10-Bit Quad w/Buffer* **NEW!**	16-TSSOP	9.14	7.32	6.17
D5317BRUZ-REEL7	AD5317BRUZREEL7TR-ND	DAC 10-Bit Quad w/Buffer* **NEW!**	16-TSSOP		5713.00/1,000	
D5318ARU	AD5318ARU-ND	DAC 10-Bit, 2.5V Octal	16-TSSOP	9.52	7.62	6.43
D5318BRU	AD5318BRU-ND	DAC 10-Bit, 2.5V Octal	16-TSSOP	9.66	8.70	7.72
D5320BRM	AD5320BRM-ND	DAC 12-Bit, 2.7V R-R Out	8-MSOP	6.10	4.88	4.12
D5320BRMZ	AD5320BRMZ-ND	DAC 12-Bit, 2.7V R-R Out* **NEW!**	8-MSOP	6.10	4.88	4.12
D5320BRT-500RL7	AD5320BRT500RL7CT-ND	DAC 12-Bit, 2.7V R-R Out	SOT-23-6	5.40	4.32	3.65
D5320BRT-500RL7	AD5320BRT500RL7TR-ND	DAC 12-Bit, 2.7V R-R Out	SOT-23-6		1714.50/500	
D5320BRT-REEL7	AD5320BRT-REEL7CT-ND	DAC 12-Bit, 2.7V R-R Out	SOT-23-6	5.00	4.00	3.38
D5320BRT-REEL7	AD5320BRT-REEL7TR-ND	DAC 12-Bit, 2.7V R-R Out	SOT-23-6		9300.00/3,000	
D5320BRTZ-REEL7	AD5320BRTZREEL7CT-ND	DAC 12-Bit, 2.7V R-R Out* **NEW!**	SOT-23-6	5.00	4.00	3.38
D5320BRTZ-REEL7	AD5320BRTZREEL7TR-ND	DAC 12-Bit, 2.7V R-R Out* **NEW!**	SOT-23-6		9300.00/3,000	
D5321BRM	AD5321BRM-ND	DAC 12-Bit, 2.5V 2-Wire	8-MSOP	7.20	5.76	4.86
D5321BRMZ	AD5321BRMZ-ND	DAC 12-Bit, 2.5V 2-Wire* **NEW!**	8-MSOP	7.20	5.76	4.86
D5322BRM	AD5322BRM-ND	DAC 12-Bit Dual R-R Out	10-MSOP	8.63	7.77	6.89
D5323BRU	AD5323BRU-ND	DAC 12-Bit Dual R-R	16-TSSOP	9.15	8.24	7.31
D5323BRUZ	AD5323BRUZ-ND	DAC 12-Bit Dual R-R* **NEW!**	16-TSSOP	9.15	8.24	7.31
D5324BRM	AD5324BRM-ND	DAC 12-Bit Quad 2.5V	10-MSOP	14.13	12.72	11.28
D5325BRM	AD5325BRM-ND	DAC 12-Bit, 2 Wire I2C	10-MSOP	14.13	12.72	11.28
D5326BRU	AD5326BRU-ND	DAC 12-Bit Quad w/Buffer	16-TSSOP	14.73	13.26	11.76
D5326BRUZ	AD5326BRUZ-ND	DAC 12-Bit Quad w/Buffer* **NEW!**	16-TSSOP	14.73	13.26	11.76
D5327BRU	AD5327BRU-ND	DAC 12-Bit Quad 2.5V	16-TSSOP	14.73	13.26	11.76
D5328ARU	AD5328ARU-ND	DAC 12-Bit, 2.5V Octal	16-TSSOP	14.13	12.72	11.28
D5328ARUZ	AD5328ARUZ-ND	DAC 12-Bit, 2.5V Octal* **NEW!**	16-TSSOP	14.13	12.72	11.28
D5328BRU	AD5328BRU-ND	DAC 12-Bit, 2.5V Octal	16-TSSOP	16.59	14.94	13.25
D5330BRU	AD5330BRU-ND	DAC 8-Bit Single Volt. Out	20-TSSOP	5.36	4.29	3.34
D5330BRUZ	AD5330BRUZ-ND	DAC 8-Bit Single Volt. Out* **NEW!**	20-TSSOP	5.36	4.29	3.34
D5331BRUZ	AD5331BRUZ-ND	DAC 10-Bit Single Volt. Out* **NEW!**	20-TSSOP	5.12	4.10	3.46
D5334BRU	AD5334BRU-ND	DAC 8-Bit Quad Volt. Out	24-TSSOP	8.18	6.55	5.53
D5334BRUZ	AD5334BRUZ-ND	DAC 8-Bit Quad Volt. Out* **NEW!**	24-TSSOP	8.18	6.55	5.53
D5336BRU	AD5336BRU-ND	DAC 10-Bit Quad Volt. Out	28-TSSOP	9.76	7.81	6.59
D5336BRUZ	AD5336BRUZ-ND	DAC 10-Bit Quad Volt. Out* **NEW!**	28-TSSOP	9.76	7.81	6.59
D5337ARM	AD5337ARM-ND	DAC 8-Bit Dual 2-Wire	8-MSOP	3.04	2.43	1.89
D5337ARMZ	AD5337ARMZ-ND	DAC 8-Bit Dual 2-Wire* **NEW!**	8-MSOP	3.04	2.43	1.89
D5337BRM	AD5337BRM-ND	DAC 8-Bit Dual 2-Wire	8-MSOP	4.28	3.42	2.66
D5338ARM	AD5338ARM-ND	DAC 10-Bit Dual 2-Wire	8-MSOP	5.22	4.18	3.25
D5338BRM	AD5338BRM-ND	DAC 10-Bit Dual 2-Wire	8-MSOP	6.34	5.08	4.28
D5339ARM	AD5339ARM-ND	DAC 12-Bit Dual 2-Wire	8-MSOP	7.80	6.24	5.27
D5339BRM	AD5339BRM-ND	DAC 12-Bit Dual 2-Wire	8-MSOP	9.75	8.78	7.79
D5341BRU	AD5341BRU-ND	DAC 12-Bit Single Volt. Out	20-TSSOP	7.32	5.86	4.95
D5341BRUZ	AD5341BRUZ-ND	DAC 12-Bit Single Volt. Out* **NEW!**	20-TSSOP	7.32	5.86	4.95
D5344BRU	AD5344BRU-ND	DAC 12-Bit Quad Volt. Out	28-TSSOP	16.16	14.55	12.91
D5344BRUZ	AD5344BRUZ-ND	DAC 12-Bit Quad Volt. Out* **NEW!**	28-TSSOP	16.16	14.55	12.91
D5346BCP	AD5346BCP-ND	DAC 8-Bit Octal Voltage Out	40-LFCSP	7.30	5.84	4.93
D5346BRU	AD5346BRU-ND	DAC 8-Bit Octal Voltage Out	38-TSSOP	7.20	5.76	4.86
D5347BCP	AD5347BCP-ND	DAC 10-Bit Octal Voltage Out	40-LFCSP	10.06	9.06	8.04
D5347BRU	AD5347BRU-ND	DAC 10-Bit Octal Voltage Out	38-TSSOP	10.00	9.00	7.98
D5348BCP	AD5348BCP-ND	DAC 12-Bit Octal Voltage Out	40-LFCSP	15.45	14.42	13.39
AD5348BRU	AD5348BRU-ND	DAC 12-Bit Octal Voltage Out	38-TSSOP	15.38	14.35	13.33
AD5379ABC	AD5379ABC-ND	DAC 14-Bit, 40-Ch., Serial Input, Bipolar Voltage Output **NEW!**	108-CSPBGA	105.44	98.41	91.38
AD5380BST-5	AD5380BST-5-ND	DAC 14-Bit, 40-Ch.	100-LQFP	87.36	81.54	75.72
EVAL-AD5380EB	EVAL-AD5380EB-ND	Evaluation Board for AD5380	—	223.50	—	—
AD5381BST-5	AD5381BST-5-ND	DAC 12-Bit, 40-Ch. Voltage Out	100-LQFP	92.94	74.36	62.74
EVAL-AD5381EB	EVAL-AD5381EB-ND	Evaluation Board for AD5381	—	199.00	—	—
AD5382BST-5	AD5382BST-5-ND	DAC 14-Bit, 32-Ch. Voltage Out	100-LQFP	100.00	80.00	67.50
EVAL-AD5382EB	EVAL-AD5382EB-ND	Evaluation Board for AD5382	—	199.00	—	—
AD5383BST-5	AD5383BST-5-ND	DAC 12-Bit, 32-Ch. Voltage Out	100-LQFP	81.18	64.95	54.80
EVAL-AD5383EB	EVAL-AD5383EB-ND	Evaluation Board for AD5383	—	199.00	—	—
AD5384BBC-5	AD5384BBC-5-ND	DAC 14-Bit, 40-Ch., Voltage Out	100-CSPBGA	87.36	81.54	75.72
AD5390BCP-3	AD5390BCP-3-ND	DAC 14-Bit, 16-Ch.	64-LFCSP	42.18	39.37	36.56
AD5390BST-3	AD5390BST-3-ND	DAC 14-Bit, 16-Ch.	52-LQFP	42.18	39.37	36.56
AD5390BST-5	AD5390BST-5-ND	DAC 14-Bit, 16-Ch.	52-LQFP	42.18	39.37	36.56
EVAL-AD5390EB	EVAL-AD5390EB-ND	Evaluation Board for AD5390	—	223.50	—	—
AD5391BCP-3	AD5391BCP-3-ND	DAC 12-Bit, 16-Ch. Voltage Out	64-LFCSP	35.12	32.78	30.44
AD5391BCP-5	AD5391BCP-5-ND	DAC 12-Bit, 16-Ch. Voltage Out	64-LFCSP	46.82	37.46	31.61
EVAL-AD5391EB	EVAL-AD5391EB-ND	Evaluation Board for AD5391	—	223.50	—	—
AD5392BCP-3	AD5392BCP-3-ND	DAC 14-Bit, 8-Ch. Voltage Out	64-LFCSP	26.30	24.55	22.79
AD5392BCP-5	AD5392BCP-5-ND	DAC 14-Bit, 8-Ch. Voltage Out	64-LFCSP	35.06	28.05	23.67
EVAL-AD5392EB	EVAL-AD5392EB-ND	Evaluation Board for AD5392	—	223.50	—	—
AD5399YRM	AD5399YRM-ND	DAC 12-Bit Dual with Reference	10-MSOP	9.96	7.97	6.73
AD5405YCP	AD5405YCP-ND	DAC 12-Bit Dual, Multiply	40-LFCSP	8.41	7.58	6.72
EVAL-AD5405EB	EVAL-AD5405EB-ND	Evaluation Board for AD5405	—	99.00	—	—
AD5415YRU	AD5415YRU-ND	DAC 12-Bit Multiplying, High Bandwidth	24-TSSOP	9.11	8.21	7.28
AD5415YRUZ	AD5415YRUZ-ND	DAC 12-Bit Multiplying, High Bandwidth* **NEW!**	24-TSSOP	9.11	8.21	7.28
AD5415YRU-REEL7	AD5415YRU-REEL7TR-ND	DAC 12-Bit Multiplying, High Bandwidth	24-TSSOP		6755.00/1,000	
EVAL-AD5415EB	EVAL-AD5415EB-ND	Evaluation Board for AD5415	—	111.38	—	—
AD5424YRU	AD5424YRU-ND	DAC 8-Bit Multiplying	16-TSSOP	5.30	4.24	3.58
AD5424YRUZ	AD5424YRUZ-ND	DAC 8-Bit Multiplying* **NEW!**	16-TSSOP	5.30	4.24	3.58
AD5425YRM	AD5425YRM-ND	DAC 8-Bit Multiply, High Bandwidth	10-MSOP	5.36	4.29	3.34
EVAL-AD5425EB	EVAL-AD5425EB-ND	Evaluation Board for AD5425	—	99.00	—	—
AD5426YRM	AD5426YRM-ND	DAC 8-Bit Multiply, High Bandwidth	10-MSOP	5.82	4.66	3.93
AD5428YRU	AD5428YRU-ND	DAC 8-Bit Multiply, High Bandwidth **NEW!**	20-TSSOP	7.04	5.64	4.76
AD5429YRU	AD5429YRU-ND	DAC 8-Bit Multiply, High Bandwidth	16-TSSOP	6.40	5.12	4.32
AD5429YRU-REEL7	AD5429YRU-REEL7TR-ND	DAC 8-Bit Multiply, High Bandwidth	16-TSSOP		4000.00/1,000	
EVAL-AD5429EB	EVAL-AD5429EB-ND	Evaluation Board for AD5429	—	111.38	—	—
AD5432YRM	AD5432YRM-ND	DAC 10-Bit Multiply, High Bandwidth	10-MSOP	6.40	5.12	4.32
AD5433YRU	AD5433YRU-ND	DAC 10-Bit Multiply	20-TSSOP	5.82	4.66	3.93
AD5439YRU	AD5439YRU-ND	DAC 10-Bit Multiply, High Bandwidth	16-TSSOP	8.52	6.82	5.76
AD5439YRU-REEL7	AD5439YRU-REEL7TR-ND	DAC 10-Bit Multiply, High Bandwidth	16-TSSOP		5325.00/1,000	
EVAL-AD5439EB	EVAL-AD5439EB-ND	Evaluation Board for AD5439	—	111.38	—	—
AD5440YRU	AD5440YRU-ND	DAC 10-Bit Multiply, High Bandwidth **NEW!**	24-TSSOP	9.36	7.49	6.32
AD5443YRM	AD5443YRM-ND	DAC 12-Bit Multiply, High Bandwidth	10-MSOP	8.74	7.00	5.90
EVAL-AD5443EB	EVAL-AD5443EB-ND	Evaluation Board for AD5443	—	99.00	—	—
AD5445YCP	AD5445YCP-ND	DAC 12-Bit Multiply, High Bandwidth	20-LFCSP	7.94	6.36	5.36
AD5445YRU	AD5445YRU-ND	DAC 12-Bit Multiply, High Bandwidth	20-TSSOP	7.94	6.36	5.36
EVAL-AD5445EB	EVAL-AD5445EB-ND	Evaluation Board for AD5445	—	99.00	—	—
AD5447YRU	AD5447YRU-ND	DAC 12-Bit Multiply, High Bandwidth **NEW!**	24-TSSOP	9.36	7.49	6.32
AD5449YRU	AD5449YRU-ND	DAC 12-Bit Multiply, High Bandwidth	16-TSSOP	9.94	8.99	7.97
AD5449YRU-REEL7	AD5449YRU-REEL7TR-ND	DAC 12-Bit Multiply, High Bandwidth	16-TSSOP		7398.00/1,000	
EVAL-AD5449EB	EVAL-AD5449EB-ND	Evaluation Board for AD5449	—	111.38	—	—
AD5516ABC-1	AD5516ABC-1-ND	DAC 12-Bit, 16-Ch.	74-CSPBGA	47.33	44.17	41.02
AD5516ABC-2	AD5516ABC-2-ND	DAC 12-Bit, 16-Ch.	74-CSPBGA	47.33	44.17	41.02
AD5516ABC-3	AD5516ABC-3-ND	DAC 12-Bit, 16-Ch.	74-CSPBGA	47.33	44.17	41.02
AD5530BRU	AD5530BRU-ND	DAC 12-Bit Serial-In/Voltage Out	16-TSSOP	8.63	7.77	6.89
AD5531BRU	AD5531BRU-ND	DAC 14-Bit Serial-In/Voltage Out	16-TSSOP	14.11	12.71	11.27
AD5531BRUZ	AD5531BRUZ-ND	DAC 14-Bit Serial-In/Voltage Out* **NEW!**	16-TSSOP	14.11	12.71	11.27
AD5532ABC-1	AD5532ABC-1-ND	DAC 14-Bit, 32-Ch. Sample/Hold	74-LFBGA	81.90	76.44	70.98
AD5532ABC-2	AD5532ABC-2-ND	DAC 14-Bit, 32-Ch. Sample/Hold	74-LFBGA	81.90	76.44	70.98
AD5532BBC-1	AD5532BBC-1-ND	DAC 14-Bit, 32-Ch. Sample/Hold	74-CSPBGA	90.00	84.00	78.00
AD5533ABC-1	AD5533ABC-1-ND	DAC 14-Bit, 32-Ch.	74-LFBGA	77.25	72.10	66.95
AD5541AR	AD5541AR-ND	DAC 16-Bit Serial-In/Volt. Out	8-SOIC	16.50	15.40	14.30
AD5541ARZ	AD5541ARZ-ND	DAC 16-Bit Serial-In/Volt. Out* **NEW!**	8-SOIC	16.50	15.40	14.30
AD5541CR	AD5541CR-ND	DAC 16-Bit Serial-In/Volt. Out	8-SOIC	30.00	28.00	26.00
AD5541CRZ	AD5541CRZ-ND	DAC 16-Bit Serial-In/Volt. Out* **NEW!**	8-SOIC	30.00	28.00	26.00
AD5541JR	AD5541JR-ND	DAC 16-Bit Serial-In/Volt. Out	8-SOIC	15.00	14.00	13.00
AD5541JRZ	AD5541JRZ-ND	DAC 16-Bit Serial-In/Volt. Out* **NEW!**	8-SOIC	15.00	14.00	13.00
AD5541LR	AD5541LR-ND	DAC 16-Bit Serial-In/Volt. Out	8-SOIC	22.50	21.00	19.50
AD5541LRZ	AD5541LRZ-ND	DAC 16-Bit Serial-In/Volt. Out* **NEW!**	8-SOIC	22.50	21.00	19.50
AD5542AR	AD5542AR-ND	DAC 16-Bit Serial-In	14-SOIC	16.50	15.40	14.30
AD5542ARZ	AD5542ARZ-ND	DAC 16-Bit Serial-In* **NEW!**	14-SOIC	16.50	15.40	14.30
AD5542CR	AD5542CR-ND	DAC 16-Bit Serial-In	14-SOIC	30.00	28.00	26.00
AD5542LR	AD5542LR-ND	DAC 16-Bit Serial-In	14-SOIC	22.50	21.00	19.50
AD5543BRM	AD5543BRM-ND	DAC 16-Bit Serial-In/Current Out	8-MSOP	16.50	15.40	14.30
AD5543BR	AD5543BR-ND	DAC 16-Bit Serial-In/Current Out	8-SOIC	16.50	15.40	14.30
AD5544ARS	AD5544ARS-ND	DAC 16-Bit Quad Serial-In	28-SSOP	46.46	43.36	40.27
AD5545BRU	AD5545BRU-ND	DAC 16-Bit Dual Serial-In	16-TSSOP	19.82	18.50	17.18
AD5546BRU	AD5546BRU-ND	DAC 16-Bit Multiplying	28-TSSOP	26.10	24.36	22.62
AD5547BRU	AD5547BRU-ND	DAC 16-Bit Multiplying	38-TSSOP	24.23	22.61	21.00
AD5551BR	AD5551BR-ND	DAC 14-Bit Serial-In	8-SOIC	12.81	11.54	10.23
AD5553CRM	AD5553CRM-ND	DAC 14-Bit Serial-In/Current Out	8-MSOP	11.98	10.79	9.57
AD5553CRMZ	AD5553CRMZ-ND	DAC 14-Bit Serial-In/Current Out* **NEW!**	8-MSOP	11.98	10.79	9.57
AD5555CRU	AD5555CRU-ND	DAC 14-Bit Dual Serial-In	16-TSSOP	15.66	14.10	12.51
AD5555CRUZ	AD5555CRUZ-ND	DAC 14-Bit Dual Serial-In* **NEW!**	16-TSSOP	15.66	14.10	12.51

* Lead Free/RoHS Compliant

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Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD5556CRU	AD5556CRU-ND	DAC 14-Bit Multiplying	28-TSSOP	16.48	14.84	13.16
AD5570ARS	AD5570ARS-ND	DAC 16-Bit Serial-In/Volt. Out **NEW!**	16-SSOP	26.36	24.60	22.85
AD5570WRS	AD5570WRS-ND	DAC 16-Bit Serial-In/Volt. Out	16-SSOP	31.62	29.52	27.41
AD5582YRV	AD5582YRV-ND	DAC 12-Bit Quad Voltage Out	48-TSSOP	16.80	15.68	14.56
AD5583YRV	AD5583YRV-ND	DAC 10-Bit Quad Voltage Out	48-TSSOP	11.46	10.32	9.16
AD5621AKSZ-500RL7	AD5621AKSZ500RLCT-ND	DAC 12-Bit Voltage Out* **NEW!**	SC70-6	3.53	2.83	2.20
AD5621AKSZ-500RL7	AD5621AKSZ500RLTR-ND	DAC 12-Bit Voltage Out* **NEW!**	SC70-6	1020:50/500		
AD5641AKSZ-500RL7	AD5641AKSZ500RLCT-ND	DAC 14-Bit Voltage Out* **NEW!**	SC70-6	6.84	5.48	4.62
AD5641AKSZ-500RL7	AD5641AKSZ500RLTR-ND	DAC 14-Bit Voltage Out* **NEW!**	SC70-6	2171.50/500		
AD7111ABN	AD7111ABN-ND	DAC Logarithm	16-Dip	9.88	8.90	7.89
AD7224KN	AD7224KN-ND	DAC 8-Bit LC2MOS	18-Dip	8.86	7.09	5.99
AD7224KNZ	AD7224KNZ-ND	DAC 8-Bit LC2MOS* **NEW!**	18-Dip	8.86	7.09	5.99
AD7224KR-18	AD7224KR-18-ND	DAC 8-Bit LC2MOS	18-SOIC	8.08	6.47	5.46
AD7224LR-18	AD7224LR-18-ND	DAC 8-Bit LC2MOS	18-SOIC	8.86	7.98	7.08
AD7225KN	AD7225KN-ND	DAC 8-Bit LC2MOS Quad	24-Dip	23.09	21.55	20.01
AD7225LN	AD7225LN-ND	DAC 8-Bit LC2MOS Quad	24-Dip	27.45	25.62	23.79
AD7226KN	AD7226KN-ND	DAC 8-Bit LC2MOS Quad	20-Dip	21.65	20.21	18.76
AD7226KP	AD7226KP-ND	DAC 8-Bit LC2MOS Quad	20-PLCC	24.57	22.94	21.30
AD7226KR	AD7226KR-ND	DAC 8-Bit LC2MOS Quad	20-SOIC	21.65	20.21	18.76
AD7228ABN	AD7228ABN-ND	DAC 8-Bit LC2MOS Octal	24-Dip	23.15	21.61	20.06
AD7228ABR	AD7228ABR-ND	DAC 8-Bit LC2MOS Octal	24-SOIC	23.15	21.61	20.06
AD7228ACP	AD7228ACP-ND	DAC 8-Bit LC2MOS Octal	28-PLCC	27.17	25.36	23.55
AD7228ACR	AD7228ACR-ND	DAC 8-Bit LC2MOS Octal	24-SOIC	27.17	25.36	23.55
AD7228KN	AD7228KN-ND	DAC 8-Bit LC2MOS Octal	24-Dip	42.93	40.07	37.21
AD7228KP	AD7228KP-ND	DAC 8-Bit LC2MOS Octal	28-PLCC	49.37	46.08	42.79
AD7228LN	AD7228LN-ND	DAC 8-Bit LC2MOS Octal	24-Dip	50.31	46.96	43.61
AD7233AN	AD7233AN-ND	DAC 12-Bit LC2MOS Serial	8-Dip	12.15	10.94	9.70
AD7237AAN	AD7237AAN-ND	DAC 12-Bit LC2MOS Dual	24-Dip	26.40	24.64	22.88
AD7237ABN	AD7237ABN-ND	DAC 12-Bit LC2MOS Dual	24-Dip	30.98	28.91	26.85
AD7237ABR	AD7237ABR-ND	DAC 12-Bit LC2MOS Dual	24-SOIC	29.04	27.11	25.17
AD7237ABRZ	AD7237ABRZ-ND	DAC 12-Bit LC2MOS Dual* **NEW!**	24-SOIC	29.04	27.11	25.17
AD7237JN	AD7237JN-ND	DAC 12-Bit LC2MOS Dual	24-Dip	24.75	23.10	21.45
AD7237JNZ	AD7237JNZ-ND	DAC 12-Bit LC2MOS Dual* **NEW!**	24-Dip	24.75	23.10	21.45
AD7237JR	AD7237JR-ND	DAC 12-Bit LC2MOS Dual	24-SOIC	24.75	23.10	21.45
AD7237KN	AD7237KN-ND	DAC 12-Bit LC2MOS Dual	24-Dip	29.04	27.11	25.17
AD7243AN	AD7243AN-ND	Serial DAC 12-Bit LC2MOS	16-Dip	12.83	11.55	10.25
AD7243AR	AD7243AR-ND	Serial DAC 12-Bit LC2MOS	16-SOIC	12.83	11.55	10.25
AD7243ARZ	AD7243ARZ-ND	Serial DAC 12-Bit LC2MOS* **NEW!**	16-SOIC	12.83	11.55	10.25
AD7243BR	AD7243BR-ND	DAC 12-Bit with Amp/Reference	16-SOIC	15.58	14.03	12.44
AD7244JR	AD7244JR-ND	DAC 14-Bit LC2MOS Dual	28-SOIC	35.85	33.46	31.07
AD7244JRZ	AD7244JRZ-ND	DAC 14-Bit LC2MOS Dual* **NEW!**	28-SOIC	35.85	33.46	31.07
AD7245AAN	AD7245AAN-ND	DAC 12-Bit LC2MOS	24-Dip	13.26	11.94	10.59
AD7245AAR	AD7245AAR-ND	DAC 12-Bit with Reference	24-SOIC	13.26	11.94	10.59
AD7245AARZ	AD7245AARZ-ND	DAC 12-Bit with Reference* **NEW!**	24-SOIC	13.26	11.94	10.59
AD7245JN	AD7245JN-ND	DAC 12-Bit with Reference	24-Dip	14.68	13.22	11.72
AD7247AAN	AD7247AAN-ND	DAC 12-Bit with Amp/Buffer	24-Dip	24.75	23.10	21.45
AD7247AANZ	AD7247AANZ-ND	DAC 12-Bit with Amp/Buffer* **NEW!**	24-Dip	24.75	23.10	21.45
AD7247AAR	AD7247AAR-ND	DAC 12-Bit with Amp/C573 Buffer	24-SOIC	24.75	23.10	21.45
AD7247ABR	AD7247ABR-ND	DAC 12-Bit LC2MOS Dual	24-SOIC	29.04	27.11	25.17
AD7247JN	AD7247JN-ND	DAC 12-Bit LC2MOS Dual	24-Dip	24.75	23.10	21.45
AD7247JNZ	AD7247JNZ-ND	DAC 12-Bit LC2MOS Dual* **NEW!**	24-Dip	24.75	23.10	21.45
AD7248AAN	AD7248AAN-ND	DAC 12-Bit LC2MOS	24-Dip	13.26	11.94	10.59
AD7248AAR	AD7248AAR-ND	DAC 12-Bit with Reference	20-SOIC	13.26	11.94	10.59
AD7248AARZ	AD7248AARZ-ND	DAC 12-Bit with Reference* **NEW!**	20-SOIC	13.26	11.94	10.59
AD7248JN	AD7248JN-ND	DAC 12-Bit with Reference	20-Dip	14.68	13.22	11.72
AD7249AN	AD7249AN-ND	DAC 12-Bit Serial with Reference	16-Dip	16.28	15.19	14.11
AD7249AR	AD7249AR-ND	DAC 12-Bit Serial with Reference	16-SOIC	16.28	15.19	14.11
AD7302BN	AD7302BN-ND	DAC 8-Bit Dual 2.7V	20-Dip	5.14	4.12	3.47
AD7302BR	AD7302BR-ND	DAC 8-Bit Dual 2.7V	20-SOIC	5.14	4.12	3.47
AD7302BRZ	AD7302BRZ-ND	DAC 8-Bit Dual 2.7V* **NEW!**	20-SOIC	5.14	4.12	3.47
AD7302BR-REEL7	AD7302BR-REEL7CT-ND	DAC 8-Bit Dual 2.7V	20-SOIC	5.14	4.12	3.47
AD7302BR-REEL7	AD7302BR-REEL7TR-ND	DAC 8-Bit Dual 2.7V	20-SOIC	1336.40/400		
AD7302BRUZ	AD7302BRUZ-ND	DAC 8-Bit Dual 2.7V* **NEW!**	20-TSSOP	5.14	4.12	3.47
AD7303BN	AD7303BN-ND	DAC 8-Bit Dual 2.7V	8-Dip	6.02	4.82	4.07
AD7303BR	AD7303BR-ND	DAC 8-Bit Dual 2.7V	8-SOIC	6.02	4.82	4.07
AD7303BRZ	AD7303BRZ-ND	DAC 8-Bit Dual 2.7V* **NEW!**	8-SOIC	6.02	4.82	4.07
AD7303BRM	AD7303BRM-ND	DAC 8-Bit Dual 2.7V	8-MSOP	6.40	5.12	4.32
AD7303BRMZ	AD7303BRMZ-ND	DAC 8-Bit Dual 2.7V* **NEW!**	8-MSOP	6.40	5.12	4.32
AD7304BRU	AD7304BRU-ND	DAC 8-Bit Quad 3V/5V R-R	16-TSSOP	8.30	6.64	5.61
AD7304BRZ	AD7304BRZ-ND	DAC 8-Bit Quad 3V/5V R-R	16-SOIC	8.30	6.64	5.61
AD7304YRZ	AD7304YRZ-ND	DAC 8-Bit Quad 3V/5V R-R	16-SOIC	10.18	9.15	8.12
AD7305BR	AD7305BR-ND	DAC 8-Bit Quad 5V R-R	20-SOIC	9.60	7.68	6.48
AD7305BRU	AD7305BRU-ND	DAC 8-Bit Quad 5V R-R	20-TSSOP	9.60	7.68	6.48
AD7305BRUZ	AD7305BRUZ-ND	DAC 8-Bit Quad 5V R-R* **NEW!**	20-TSSOP	9.60	7.68	6.48
AD7390AR	AD7390AR-ND	DAC 12-Bit, 3V Serial-In	8-SOIC	9.33	8.40	7.45
AD7390ARZ	AD7390ARZ-ND	DAC 12-Bit, 3V Serial-In* **NEW!**	8-SOIC	9.33	8.40	7.45
AD7391AN	AD7391AN-ND	DAC 10-Bit, 3V Serial-In	8-Dip	7.22	5.78	4.88
AD7391AR	AD7391AR-ND	DAC 10-Bit, 3V Serial-In	8-SOIC	7.22	5.78	4.88
AD7391ARZ	AD7391ARZ-ND	DAC 10-Bit, 3V Serial-In* **NEW!**	8-SOIC	7.22	5.78	4.88
AD7392AR	AD7392AR-ND	DAC 12-Bit, 3V Parallel	20-SOIC	9.91	8.93	7.92
AD7392ARZ	AD7392ARZ-ND	DAC 12-Bit, 3V Parallel* **NEW!**	20-SOIC	9.91	8.93	7.92
AD7393AR	AD7393AR-ND	DAC 10-Bit, 3V Parallel	20-SOIC	7.66	6.13	5.18
AD7396ARZ	AD7396ARZ-ND	DAC 12-Bit, 3V Parallel* **NEW!**	24-SOIC	11.66	10.50	9.31
AD7397ARU	AD7397ARU-ND	DAC 10-Bit, 3V Parallel	24-TSSOP	8.24	6.60	5.57
AD7398BR	AD7398BR-ND	DAC 12-Bit Quad Serial-In	16-SOIC	16.13	15.05	13.98
AD7398BRU	AD7398BRU-ND	DAC 12-Bit Quad Serial-In	16-TSSOP	16.13	15.05	13.98
AD7524JN	AD7524JN-ND	DAC 8-Bit Multiplying	16-Dip	7.02	5.62	4.74
AD7524JR	AD7524JR-ND	DAC 8-Bit Multiplying	16-SOIC	7.66	6.13	5.18
AD7524JRZ	AD7524JRZ-ND	DAC 8-Bit Multiplying* **NEW!**	16-SOIC	7.66	6.13	5.18
AD7528JN	AD7528JN-ND	DAC 8-Bit Dual Multiplying	20-Dip	8.86	7.98	7.08
AD7528JNZ	AD7528JNZ-ND	DAC 8-Bit Dual Multiplying* **NEW!**	20-Dip	8.86	7.98	7.08
AD7528JP	AD7528JP-ND	DAC 8-Bit Dual Multiplying	20-PLCC	10.13	9.12	8.09
AD7528JR	AD7528JR-ND	DAC 8-Bit Dual Multiplying	20-SOIC	10.13	9.12	8.09
AD7528KN	AD7528KN-ND	DAC 8-Bit Dual Multiplying	20-Dip	9.16	8.25	7.32
AD7528KNZ	AD7528KNZ-ND	DAC 8-Bit Dual Multiplying* **NEW!**	20-Dip	9.16	8.25	7.32
AD7528LNZ	AD7528LNZ-ND	DAC 8-Bit Dual Multiplying* **NEW!**	20-Dip	14.83	13.35	11.84
AD7528LR	AD7528LR-ND	DAC 8-Bit Dual Multiplying	20-SOIC	15.23	14.21	13.20
AD7533JN	AD7533JN-ND	DAC 10-Bit Multiplying	16-Dip	6.26	5.01	4.23
AD7533KN	AD7533KN-ND	DAC 10-Bit Multiplying	16-Dip	6.76	5.41	4.57
AD7533LN	AD7533LN-ND	DAC 10-Bit Multiplying	16-Dip	8.10	6.48	5.47
AD7533UQ	AD7533UQ-ND	DAC 10-Bit Multiplying	16-CDip	24.44	22.81	21.18
AD7534JN	AD7534JN-ND	DAC 14-Bit Multiplying with Buffer	20-Dip	22.74	21.23	19.71
AD7537JN	AD7537JN-ND	DAC 12-Bit LC2MOS Dual	24-Dip	16.97	15.84	14.71
AD7537KN	AD7537KN-ND	DAC 12-Bit LC2MOS Dual	24-Dip	20.78	19.39	18.01
AD7537KP	AD7537KP-ND	DAC 12-Bit LC2MOS Dual	28-PLCC	22.88	21.35	19.83

Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD7537LN	AD7537LN-ND	DAC 12-Bit LC2MOS Dual	24-Dip	26.91	25.12	23.33
AD7541AJN	AD7541AJN-ND	DAC 12-Bit Multiplying	18-Dip	11.18	10.07	8.93
AD7541AJNZ	AD7541AJNZ-ND	DAC 12-Bit Multiplying* **NEW!**	18-Dip	11.18	10.07	8.93
AD7541AKN	AD7541AKN-ND	DAC 12-Bit Multiplying	18-Dip	12.43	11.19	9.93
AD7541AKNZ	AD7541AKNZ-ND	DAC 12-Bit Multiplying* **NEW!**	18-Dip	12.43	11.19	9.93
AD7542JN	AD7542JN-ND	DAC 12-Bit Multiplying	16-Dip	18.39	17.17	15.94
AD7542KN	AD7542KN-ND	DAC 12-Bit Multiplying	16-Dip	20.33	18.97	17.62
AD7542KR	AD7542KR-ND	DAC 12-Bit Multiplying	16-SOIC	20.33	18.97	17.62
AD7543GKR	AD7543GKR-ND	DAC 12-Bit Serial Input Multiplying	16-SOIC	24.29	22.67	21.05
AD7543JN	AD7543JN-ND	DAC 12-Bit Serial Input Multiplying	16-Dip	16.68	15.57	14.46
AD7543JNZ	AD7543JNZ-ND	DAC 12-Bit Serial Input Multiplying* **NEW!**	16-Dip	16.68	15.57	14.46
AD7543KN	AD7543KN-ND	DAC 12-Bit Serial Input Multiplying	16-Dip	18.44	17.21	15.98
AD7545AKN	AD7545AKN-ND	DAC 12-Bit Multiplying	20-Dip	9.81	8.84	7.84
AD7545AKNZ	AD7545AKNZ-ND	DAC 12-Bit Multiplying* **NEW!**	20-Dip	9.81	8.84	7.84
AD7545AKP	AD7545AKP-ND	DAC 12-Bit Multiplying	20-PLCC	11.86	10.68	9.47
AD7545GLN	AD7545GLN-ND	DAC 12-Bit Multiplying	20-Dip	22.47	20.98	19.48
AD7545JN	AD7545JN-ND	DAC 12-Bit Multiplying	20-Dip	11.93	10.74	9.53
AD7547JN	AD7547JN-ND	DAC 12-Bit LC2MOS Dual	24-Dip	19.46	18.16	16.87
AD7547JNZ	AD7547JNZ-ND	DAC 12-Bit LC2MOS Dual* **NEW!**	24-Dip	19.46	18.16	16.87
AD7547JR	AD7547JR-ND	DAC 12-Bit LC2MOS Dual	24-SOIC	19.46	18.16	16.87
AD7547JRZ	AD7547JRZ-ND	DAC 12-Bit LC2MOS Dual* **NEW!**	24-SOIC	19.46	18.16	16.87
AD7547KN	AD7547KN-ND	DAC 12-Bit LC2MOS Dual	24-Dip	22.80	21.28	19.76
AD7547KNZ	AD7547KNZ-ND	DAC 12-Bit LC2MOS Dual* **NEW!**	24-Dip	22.80	21.28	19.76
AD7548BQ	AD7548BQ-ND	DAC 12-Bit LC2MOS	20-CDip	19.49	18.19	16.89
AD7548JN	AD7548JN-ND	DAC 12-Bit LC2MOS	20-Dip	14.13	12.72	11.28
AD7548KN	AD7548KN-ND	DAC 12-Bit LC2MOS	20-Dip	15.44	14.41	13.38
AD7548KP	AD7548KP-ND	DAC 12-Bit LC2MOS	20-PLCC	17.57	16.40	15.23
AD7549BQ	AD7549BQ-ND	DAC 12-Bit LC2MOS Dual	20-CDip	34.68	32.37	30.06
AD7549JN	AD7549JN-ND	DAC 12-Bit LC2MOS Dual	20-Dip	22.74	21.23	19.71
AD7564BR	AD7564BR-ND	DAC 12-Bit LC2MOS Quad	28-SOIC	21.00	19.60	18.20
AD7564BRS	AD7564BRS-ND	DAC 12-Bit LC2MOS Quad	28-SSOP	21.00	19.60	18.20
AD7564BRSZ	AD7564BRSZ-ND	DAC 12-Bit LC2MOS Quad	28-SSOP	21.00	19.60	18.20
AD7568BP	AD7568BP-ND	DAC 12-Bit LC2MOS Octal	44-PLCC	46.20	43.12	40.04
AD7568BS	AD7568BS-ND	DAC 12-Bit LC2MOS Octal	44-PQFP	46.20	43.12	40.04
AD7568BSZ	AD7568BSZ-ND	DAC 12-Bit LC2MOS Octal* **NEW!**	44-PQFP	46.20	43.12	40.04
AD7628KN	AD7628KN-ND	DAC 8-Bit Dual Multiplying	20-Dip	4.75	3.80	2.96
AD7628KR	AD7628KR-ND	DAC 8-Bit Dual Multiplying	20-SOIC	4.75	3.80	2.96
AD7801BR	AD7801BR-ND	DAC 8-Bit, 2.7V	20-SOIC	5.20	4.16	3.24
AD7801BRU	AD7801BRU-ND	DAC 8-Bit, 2.7V	20-TSSOP	5.20	4.16	3.24
AD7801BRUZ	AD7801BRUZ-ND	DAC 8-Bit, 2.7V	20-TSSOP	5.20	4.16	3.24
AD7801BRZ	AD7801BRZ-ND	DAC 8-Bit, 2.7V	20-SOIC	5.20	4.16	3.24
AD7804BR	AD7804BR-ND	DAC 10-Bit, 3.3V Quad	16-SOIC	12.40	11.16	9.90
AD7805BRS	AD7805BRS-ND	DAC 10-Bit, 3.3V Quad	28-SSOP	12.25	11.03	9.78
AD7805BRSZ	AD7805BRSZ-ND	DAC 10-Bit, 3.3V Quad* **NEW!**	28-SOIC	12.25	11.03	9.78
AD7808BR	AD7808BR-ND	DAC 10-Bit, 3.3V Octal	24-SOIC	16.43	15.33	14.24
AD7809BST	AD7809BST-ND	DAC 10-Bit Octal	44-TQFP	20.91	19.52	18.13
AD7809BSTZ	AD7809BSTZ-ND	DAC 10-Bit Octal* **NEW!**	44-TQFP	20.91	19.52	18.13
AD7834AN	AD7834AN-ND	DAC 14-Bit Quad	28-Dip	37.50	35.00	32.50
AD7834AR	AD7834AR-ND	DAC 14-Bit Quad	28-SOIC	37.50	35.00	32.50
AD7834BN	AD7834BN-ND	DAC 14-Bit Quad	28-Dip	47.40	44.24	41.08
AD7834BR	AD7834BR-ND	DAC 14-Bit Quad	28-SOIC	47.40	44.24	41.08
AD7835AS	AD7835AS-ND	DAC 14-Bit Quad	44-MQFP	39.45	36.82	34.19
AD7835ASZ	AD7835ASZ-ND	DAC 14-Bit Quad* **NEW!**	44-MQFP	39.45	36.82	34.19
AD7836AS	AD7836AS-ND	DAC 14-Bit Quad LC2MOS	44-MQFP	39.45	36.82	34.19
AD7837AN	AD7837AN-ND	DAC 12-Bit Multiplying Dual	24-Dip	24.75	23.10	21.45
AD7837AR	AD7837AR-ND	DAC 12-Bit Multiplying Dual	24-SOIC	24.75	23.10	21.45
AD7837BR	AD7837BR-ND	DAC 12-Bit Multiplying Dual	24-SOIC	29.04	27.11	25.17
AD7839AS	AD7839AS-ND	DAC 13-Bit Octal Voltage Out	44-MQFP	48.53	45.29	42.06
AD7840ARS	AD7840ARS-ND	DAC 14-Bit Low Power 5V	24-SSOP	19.94	18.61	17.28
AD7840JN	AD7840JN-ND	DAC 14-Bit LC2MOS Volt. Out	24-Dip	17.33	16.17	15.02
AD7840JNZ	AD7840JNZ-ND	DAC 14-Bit LC2MOS Volt. Out* **NEW!**	24-Dip	17.33	16.17	15.02
AD7840JP	AD7840JP-ND	DAC 14-Bit LC2MOS Volt. Out	28-PLCC	19.94	18.61	17.28
AD7840KP	AD7840KP-ND	DAC 14-Bit LC2MOS Volt. Out	28-PLCC	22.77	21.26	19.74
AD7841AS	AD7841AS-ND	DAC 14-Bit Octal Volt. Out	44-MQFP	50.55	47.18	43.81
AD7841ASZ	AD7841ASZ-ND	DAC 14-Bit Octal Volt. Out* **NEW!**	44-MQFP	50.55	47.18	43.81
AD7841BS	AD7841BS-ND	DAC 14-Bit Octal Volt. Out	44-MQFP	59.63	55.65	51.68
AD7841BSZ	AD7841BSZ-ND	DAC 14-Bit Octal Volt. Out* **NEW!**	44-MQFP	59.63	55.65	51.68
AD7845JN	AD7845JN-ND	DAC 12-Bit Multiplying	24-Dip	10.60	9.54	8.46
AD7845JNZ	AD7845JNZ-ND	DAC 12-Bit Multiplying* **NEW!**	24-Dip	10.60	9.54	8.46
AD7845JP	AD7845JP-ND	DAC 12-Bit Multiplying	28-PLCC	12.20	10.98	9.74
AD7845JR	AD7845JR-ND	DAC 12-Bit Multiplying	24-SOIC	10.60	9.54	8.46
AD7845JRZ	AD7845JRZ-ND	DAC 12-Bit Multiplying* **NEW!**	24-SOIC	10.60	9.54	8.46
AD7846JN	AD7846JN-ND	DAC 16-Bit LC2MOS Voltage Out	28-Dip	30.84	28.79	26.73
AD7846JP	AD7846JP-ND	DAC 16-Bit LC2MOS Voltage Out	28-PLCC	33.93	31.67	29.41
AD7846KN	AD7846KN-ND	DAC 16-Bit LC2MOS Voltage Out	28-Dip	38.96	36.36	33.77
AD7846KP	AD7846KP-ND	DAC 16-Bit LC2MOS Voltage Out	28-PLCC	38.96	36.36	33.77
AD7847AN	AD7847AN-ND	DAC 12-Bit Multiply Dual	24-Dip	25.74	24.03	22.31
AD7847ANZ	AD7847ANZ-ND	DAC 12-Bit Multiply Dual* **NEW!**	24-Dip	25.74	24.03	22.31
AD7847AR	AD7847AR-ND	DAC 12-Bit Multiply Dual	24-SOIC	25.74	24.03	22.31
AD7847ARZ	AD7847ARZ-ND	DAC 12-Bit Multiply Dual* **NEW!**	24-SOIC	25.74	24.03	22.31
AD7847BR	AD7847BR-ND	DAC 12-Bit Multiply Dual	24-SOIC	30.20	28.19	26.17
AD7849BR	AD7849BR-ND	DAC 14/16-Bit Serial-In	20-SOIC	19.50	18.20	16.90
AD7943ARS-B	AD7943ARS-B-ND	DAC 12-Bit Multiplying	20-SSOP	9.30	7.44	6.28
AD7943BR	AD7943BR-ND	DAC 12-Bit Multiplying	16-SOIC	9.30	7.44	6.28
AD7945BR	AD7945BR-ND	DAC 12-Bit Multiplying	20-SOIC	9.30	7.44	6.28
AD7945BRZ	AD7945BRZ-ND	DAC 12-Bit Multiplying* **NEW!**	20-SOIC	9.30	7.44	6.28
AD7945BRS	AD7945BRS-ND	DAC 12-Bit Multiplying	20-SSOP	9.30	7.44	6.28
AD7945BRSZ	AD7945BRSZ-ND	DAC 12-Bit Multiplying* **NEW!**	20-SSOP	9.30	7.44	6.28
AD7948BR	AD7948BR-ND	DAC 12-Bit Multiplying	20-SOIC	9.30	7.44	6.28
AD8300AR	AD8300AR-ND	DAC 12-Bit 3V Serial-In	8-SOIC	9.63	8.67	7.69
AD8300ARZ	AD8300ARZ-ND	DAC 12-Bit 3V Serial-In* **NEW!**	8-SOIC	9.63	8.67	7.69
AD8522AR	AD8522AR-ND	DAC 12-Bit Dual 5V	14-SOIC	14.26	12.84	11.39
AD8522ARZ	AD8522ARZ-ND	DAC 12-Bit Dual 5V* **NEW!**	14-SOIC	14.26	12.84	11.39
AD8582AN	AD8582AN-ND	DAC 12-Bit Dual 5V	24-Dip	16.97	15.84	14.71
AD8582AR	AD8582AR-ND	DAC 12-Bit Dual 5V	24-SOIC	16.97	15.84	14.71
AD8582ARZ	AD8582ARZ-ND	DAC 12-Bit Dual 5V* **NEW!**	24-SOIC	16.97	15.84	14.71
AD8801AR	AD8801AR-ND	DAC 8-Bit Octal w/Shutdown	16-SOIC	7.66	6.13	5.18
AD8801ARZ	AD8801ARZ-ND	DAC 8-Bit Octal w/Shutdown* **NEW!**	16-SOIC	7.66	6.13	5.18
AD8803AR	AD8803AR-ND	DAC 8-Bit Octal with Shutdown	16-SOIC	7.66	6.13	5.18

* Lead Free/RoHS Compliant

(Continued)

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Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD8842AR	AD8842AR-ND	DAC 8-Bit Octal Multiplying	24-SOIC	14.51	13.07	11.59
AD8842ARZ	AD8842ARZ-ND	DAC 8-Bit Octal Multiplying* ***NEW!***	24-SOIC	14.51	13.07	11.59
AD9708AR	AD9708AR-ND	DAC 8-Bit, 100MSPS	28-SOIC	7.42	5.94	5.01
AD9708ARU	AD9708ARU-ND	DAC 8-Bit, 100MSPS	28-TSSOP	7.42	5.94	5.01
AD9708AST	AD9708AST-ND	DAC 8-Bit, 125MSPS	48-LQFP	8.81	7.94	7.04
AD9709ASTZ	AD9709ASTZ-ND	DAC 8-Bit, 125MSPS* ***NEW!***	48-LQFP	8.81	7.94	7.04
AD9713BAP	AD9713BAP-ND	DAC 12-Bit, 100MSPS TTL	28-PLCC	46.95	43.82	40.69
AD9731BR	AD9731BR-ND	DAC 10-Bit, 170MSPS	28-SOIC	14.58	13.13	11.64
AD9731BRS	AD9731BRS-ND	DAC 10-Bit, 170MSPS	28-SSOP	14.58	13.13	11.64
AD9740AR	AD9740AR-ND	DAC 10-Bit, 165MSPS	28-SOIC	8.33	7.50	6.65
AD9740ARU	AD9740ARU-ND	DAC 10-Bit, 165MSPS	28-TSSOP	8.33	7.50	6.65
AD9742ACP	AD9742ACP-ND	DAC 12-Bit, 165MSPS	32-LFCSP	12.25	11.03	9.78
AD9742AR	AD9742AR-ND	DAC 12-Bit, 165MSPS	28-SOIC	12.25	11.03	9.78
AD9742ARU	AD9742ARU-ND	DAC 12-Bit, 165MSPS	28-TSSOP	12.25	11.03	9.78
AD9744ACP	AD9744ACP-ND	DAC 14-Bit, 165MSPS	32-LFCSP	15.68	14.12	12.52
AD9744AR	AD9744AR-ND	DAC 14-Bit, 165MSPS	28-SOIC	15.68	14.12	12.52
AD9744ARU	AD9744ARU-ND	DAC 14-Bit, 165MSPS	28-TSSOP	15.68	14.12	12.52
AD9748ACP	AD9748ACP-ND	DAC 8-Bit, 165MSPS	32-LFCSP	6.94	5.56	4.69
AD9751AST	AD9751AST-ND	DAC 10-Bit, 300MSPS	48-LQFP	31.50	29.40	27.30
AD9752AR	AD9752AR-ND	DAC 12-Bit, 125MSPS	28-SOIC	12.64	11.39	10.10
AD9752ARU	AD9752ARU-ND	DAC 12-Bit, 125MSPS High Perf.	28-TSSOP	12.64	11.39	10.10
AD9754AR	AD9754AR-ND	DAC 14-Bit, 125MSPS High Perf.	28-SOIC	16.56	14.91	13.23
AD9754ARU	AD9754ARU-ND	DAC 14-Bit, 125MSPS	28-TSSOP	16.56	14.91	13.23
AD9755AST	AD9755AST-ND	DAC 14-Bit, 300MSPS	48-LQFP	62.63	58.45	54.28
AD9755-EB	AD9755-EB-ND	Evaluation Board for AD9755	—	337.50	—	—
AD9760AR	AD9760AR-ND	DAC 10-Bit, 125MSPS	28-SOIC	9.70	8.73	7.75
AD9760AR50	AD9760AR50-ND	DAC 10-Bit, 125MSPS	28-SOIC	9.58	8.63	7.65
AD9760ARU	AD9760ARU-ND	DAC 10-Bit, 125MSPS	28-TSSOP	9.70	8.73	7.75
AD9760ARUZ	AD9760ARUZ-ND	DAC 10-Bit, 125MSPS* ***NEW!***	28-TSSOP	9.70	8.73	7.75
AD9760ARU50	AD9760ARU50-ND	DAC 10-Bit, 50MSPS	28-TSSOP	9.58	8.63	7.65
AD9761ARS	AD9761ARS-ND	DAC 10-Bit Dual 40MSPS	28-SSOP	15.36	14.34	13.32
AD9762AR	AD9762AR-ND	DAC 12-Bit, 125MSPS	28-SOIC	11.96	10.77	9.55
AD9762ARU	AD9762ARU-ND	DAC 12-Bit, 125MSPS	28-TSSOP	11.96	10.77	9.55
AD9763AST	AD9763AST-ND	DAC 10-Bit, Dual 125MSPS	48-LQFP	12.74	11.48	10.18
AD9764AR	AD9764AR-ND	DAC 14-Bit, 125MSPS	28-SOIC	15.80	14.75	13.69
AD9764ARU	AD9764ARU-ND	DAC 14-Bit, 125MSPS	28-TSSOP	15.80	14.75	13.69
AD9765AST	AD9765AST-ND	DAC 12-Bit, Dual 125MSPS	48-LQFP	18.53	17.29	16.06
AD9765ASTZ	AD9765ASTZ-ND	DAC 12-Bit, Dual 125MSPS* ***NEW!***	48-LQFP	18.53	17.29	16.06
AD9767AST	AD9767AST-ND	DAC 14-Bit, Dual 125MSPS	48-LQFP	21.18	19.77	18.36
AD9772AAST	AD9772AAST-ND	DAC 14-Bit, 160MSPS	48-LQFP	35.21	32.86	30.52
AD9773BSV	AD9773BSV-ND	DAC 12-Bit, Dual 160MSPS	80-TQFP	39.96	37.30	34.64
AD9774AS	AD9774AS-ND	DAC 14-Bit, 32MSPS	44-MQFP	44.00	41.07	38.13
AD9775BSV	AD9775BSV-ND	DAC 14-Bit, Dual 160MSPS	80-TQFP	54.54	50.91	47.27
AD9777BSV	AD9777BSV-ND	DAC 16-Bit, Dual 160MSPS	80-TQFP	60.00	56.00	52.00
AD9777-EB	AD9777-EB-ND	Evaluation Board for AD9777	—	225.00	—	—
AD75004KP	AD75004KP-ND	DAC 12-Bit, Quad with Buffer	28-PLCC	53.87	50.28	46.69
AD9786BSV	AD9786BSV-ND	DAC 16-Bit, Interpolation and Signal Processing ***NEW!***	80-TQFP	63.45	59.22	54.99
ADDAC80-CCD-V	ADDAC80-CCD-V-ND	DAC 12-Bit, Low Cost	24-CDip	82.70	77.19	71.67
ADDAC80D-CBI-V	ADDAC80D-CBI-V-ND	DAC 12-Bit, Low Cost	24-CDip	26.21	24.46	22.72
ADDAC80N-CBI-V	ADDAC80N-CBI-V-ND	DAC 12-Bit, Binary Mono	24-Dip	17.24	16.09	14.94
ADV7120KST30	ADV7120KST30-ND	DAC Video 3-Ch. 30MHz	48-TQFP	9.23	8.31	7.37
ADV7122KST50	ADV7122KST50-ND	DAC Video 3-Ch. 50MHz	48-TQFP	12.33	11.10	9.85
ADV7123KST50	ADV7123KST50-ND	DAC Video 3-Ch. 50MHz	48-LQFP	10.03	9.03	8.01
ADV7125JST240	ADV7125JST240-ND	DAC Video 3-Ch. 240MHz	48-LQFP	16.63	14.97	13.28
ADV7125JST330	ADV7125JST330-ND	DAC Video 3-Ch. 330MHz	48-LQFP	19.46	18.16	16.87
ADV7125KST50	ADV7125KST50-ND	DAC Video 3-Ch. 50MHz	48-LQFP	9.64	7.72	6.51
ADV7125KST140	ADV7125KST140-ND	DAC Video 3-Ch. 140MHz	48-LQFP	10.15	9.14	8.10
ADV7127KRU140	ADV7127KRU140-ND	DAC Video 140MHz 3.3/5V	24-TSSOP	12.64	11.39	10.10
DV7129KS	ADV7129KS-ND	DAC Video Color 192-Bit	304-PQFP	1262.25	1178.10	1093.95
DV7171KS	ADV7171KS-ND	DAC Video Encoder NTSC	44-PQFP	11.66	10.50	9.31
DV7171KSU	ADV7171KSU-ND	DAC Video Encoder NTSC	44-TQFP	10.00	9.00	7.98
DV7173KST	ADV7173KST-ND	DAC Video NTSC 6-Ch.	48-LQFP	11.25	10.13	8.98
DV7177KS	ADV7177KS-ND	DAC Video NTSC 3-Ch.	44-MQFP	8.38	7.55	6.69
DV7179BCP	ADV7179BCP-ND	DAC Video NTSC 3-Ch.	40-LFCSP	13.11	11.81	10.47
DV7179KCP	ADV7179KCP-ND	DAC Video NTSC 3-Ch.	40-LFCSP	10.93	9.84	8.73
DV7301AKST	ADV7301AKST-ND	DAC Video HDTV 6-12-Bit	64-LQFP	37.17	34.70	32.22
AC08AQ	DAC08AQ-ND	DAC 8-Bit Multiply High Speed	16-CDip	9.68	7.75	6.54
AC08CP	DAC08CP-ND	DAC 8-Bit Multiply High Speed	16-Dip	2.40	1.92	1.44
AC08CS	DAC08CS-ND	DAC 8-Bit Multiply High Speed	16-SOIC	2.40	1.92	1.44
AC08EP	DAC08EP-ND	DAC 8-Bit Multiply High Speed	16-Dip	2.70	2.16	1.68
AC08EQ	DAC08EQ-ND	DAC 8-Bit Multiply High Speed	16-CDip	3.38	2.70	2.10
AC08HP	DAC08HP-ND	DAC 8-Bit Multiply High Speed	16-Dip	4.05	3.24	2.52
AC10GP	DAC10GP-ND	DAC 10-Bit Multiply High Speed	18-Dip	5.60	4.48	3.78
AC16FS	DAC16FS-ND	DAC 16-Bit Current Out	24-SOIC	39.03	36.43	33.83
AC16GS	DAC16GS-ND	DAC 16-Bit Current Out	24-SOIC	49.97	46.64	43.31
AC312HP	DAC312HP-ND	DAC 12-Bit Multiply High Speed	20-Dip	7.74	6.20	5.23
AC312HS	DAC312HS-ND	DAC 12-Bit Multiply High Speed	20-SOIC	7.74	6.20	5.23
AC8043AFP	DAC8043AFP-ND	DAC 12-Bit Multiply Serial In	8-Dip	8.58	6.87	5.80
AC8043AFS	DAC8043AFS-ND	DAC 12-Bit Multiply Serial In	8-SOIC	8.58	6.87	5.80
AC8043FP	DAC8043FP-ND	DAC 12-Bit Multiply CMOS	8-Dip	12.41	11.18	9.91
AC8043GP	DAC8043GP-ND	DAC 12-Bit Multiply CMOS	8-Dip	16.59	15.49	14.38
AC8143FP	DAC8143FP-ND	DAC 12-Bit Daisy-Chain	16-Dip	9.36	8.43	7.48
AC8143FS	DAC8143FS-ND	DAC 12-Bit Daisy-Chain	16-SOIC	9.36	8.43	7.48
AC8221FP	DAC8221FP-ND	DAC 12-Bit Dual Buffered	24-Dip	19.44	18.15	16.85
AC8222FS	DAC8222FS-ND	DAC 12-Bit Dual Buffered	24-SOIC	26.85	25.06	23.27
AC8222GP	DAC8222GP-ND	DAC 12-Bit Dual Buffered	24-Dip	31.59	29.49	27.38
AC8248FP	DAC8248FP-ND	DAC 12-Bit Dual Buffered	24-Dip	21.92	20.46	19.00
AC8408FPC	DAC8408FPC-ND	DAC 8-Bit Quad with Memory	28-PLCC	13.91	12.53	11.11
AC8408FS	DAC8408FS-ND	DAC 8-Bit Quad with Memory	28-SOIC	13.91	12.53	11.11
AC8412EP	DAC8412EP-ND	DAC 12-Bit Quad Readback	28-Dip	51.41	47.98	44.56
AC8412FPC	DAC8412FPC-ND	DAC 12-Bit Quad Readback	28-PLCC	42.05	39.25	36.44
AC8412FP	DAC8412FP-ND	DAC 12-Bit Quad Readback	28-Dip	42.05	39.25	36.44
AC8413EP	DAC8413EP-ND	DAC 12-Bit Quad Readback	28-Dip	51.41	47.98	44.56
AC8413FPC	DAC8413FPC-ND	DAC 12-Bit Quad Readback	28-PLCC	42.05	39.25	36.44
AC8420EP	DAC8420EP-ND	DAC 12-Bit Quad Serial-Out	16-Dip	52.43	48.93	45.44
AC8420ES	DAC8420ES-ND	DAC 12-Bit Quad Serial-Out	16-SOIC	52.43	48.93	45.44
AC8420FP	DAC8420FP-ND	DAC 12-Bit Quad Serial-Out	16-Dip	44.93	41.93	38.94
AC8420FS	DAC8420FS-ND	DAC 12-Bit Quad Serial-Out	16-SOIC	44.93	41.93	38.94
AC8426FS	DAC8426FS-ND	DAC 8-Bit Quad with Volt. Ref.	20-SOIC	24.90	23.24	21.58
AC8512FP	DAC8512FP-ND	DAC 12-Bit, 5V Complete	8-Dip	9.56	7.65	6.46
AC8512FS	DAC8512FS-ND	DAC 12-Bit, 5V Complete	8-SOIC	9.48	7.59	6.40
AC8562FS	DAC8562FS-ND	DAC 12-Bit, 5V Parallel	20-SOIC	14.11	12.71	11.27
AC8800FP	DAC8800FP-ND	DAC 8-Bit Octal CMOS	20-Dip	14.31	12.89	11.43
AC8800FS	DAC8800FS-ND	DAC 8-Bit Octal CMOS	20-SOIC	14.31	12.89	11.43

Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
DAC8800FS-REEL	DAC8800FS-REELCT-ND	DAC 8-Bit Octal CMOS	20-SOIC	14.31	12.89	11.43
DAC8800FS-REEL	DAC8800FS-REELTR-ND	DAC 8-Bit Octal CMOS	20-SOIC	10609.00/1,000		
DAC8840FP	DAC8840FP-ND	DAC 8-Bit Octal Multiplying	24-Dip	15.54	14.51	13.47
DAC8840FS	DAC8840FS-ND	DAC 8-Bit Octal Multiplying	24-SOIC	15.54	14.51	13.47
DAC8841FS	DAC8841FS-ND	DAC 8-Bit Octal 2-Quad	24-SOIC	15.54	14.51	13.47
PM7226HP	PM7226HP-ND	DAC 8-Bit Quad CMOS ***NEW!***	20-Dip	17.76	16.58	15.40
PM7226HS	PM7226HS-ND	DAC 8-Bit Quad CMOS ***NEW!***	20-SOP	20.16	18.82	17.48
PM7545FP	PM7545FP-ND	DAC 12-Bit Multiplying ***NEW!***	20-Dip	8.53	7.68	6.81
PM7545HP	PM7545HP-ND	DAC 12-Bit Multiplying ***NEW!***	20-Dip	8.53	7.68	6.81
PM7528HP	PM7528HP-ND	DAC 8-Bit Dual Multiply	20-PLCC	5.60	4.48	3.78
PM7548FS	PM7548FS-ND	DAC 12-Bit LC2MOS	20-SOIC	10.86	9.78	8.68
PM7628FP	PM7628FP-ND	DAC 8-Bit Dual Multiply	20-PLCC	6.02	4.82	4.07
Logarithmic Converter						
ADL5306ACP-R2	ADL5306ACP-R2CT-ND	Logarithmic Converter 60dB	16-LFCSP	8.60	7.74	6.87
ADL5306ACP-R2	ADL5306ACP-R2TR-ND	Logarithmic Converter 60dB	16-LFCSP	1644.75/250		
RMS-to-DC						
AD536AJD	AD536AJD-ND	True RMS/DC Converter	14-Dip	15.48	14.45	13.42
AD536AJH	AD536AJH-ND	True RMS/DC Converter	TO-100	11.25	10.13	8.98
AD536AJQ	AD536AJQ-ND	True RMS/DC Converter	14-Dip	11.25	10.13	8.98
AD536AKD	AD536AKD-ND	True RMS/DC Converter	14-CDip	32.21	30.06	27.92
AD536AKH	AD536AKH-ND	True RMS/DC Converter	TO-100	17.64	16.47	15.29
AD536ASD	AD536ASD-ND	True RMS/DC Converter	TO-116	77.82	72.64	67.45
AD536ASH	AD536ASH-ND	True RMS/DC Converter	TO-100	38.03	35.49	32.96
AD636JD	AD636JD-ND	True RMS/DC Converter Mono	14-Dip	14.89	13.41	11.90
AD636JH	AD636JH-ND	True RMS/DC Converter Mono	TO-100	9.31	8.39	7.44
AD637AQ	AD637AQ-ND	True RMS/DC Converter WB	14-Dip	28.91	26.98	25.06
AD637AR	AD637AR-ND	True RMS/DC Converter WB	16-SOIC	26.61	24.84	23.07
AD637BR	AD637BR-ND	True RMS/DC Converter WB	16-SOIC	31.56	29.46	27.36
AD637JD	AD637JD-ND	True RMS/DC Converter WB	14-Dip	36.90	34.44	31.98
AD637JQ	AD637JQ-ND	True RMS/DC Converter WB	14-Dip	16.08	15.01	13.94
AD637JR	AD637JR-ND	True RMS/DC Converter WB	16-SOIC	16.43	14.79	13.12
AD637KQ	AD637KQ-ND	True RMS/DC Converter WB	14-Dip	27.47	25.64	23.81
AD637SD	AD637SD-ND	True RMS/DC Converter WB	14-Dip	95.07	88.74	82.40
AD736ARZ	AD736ARZ-ND	True RMS/DC Converter LP* ***NEW!***	8-SOIC	7.54	6.04	5.09
AD736AQ	AD736AQ-ND	True RMS/DC Converter LP	8-Dip	12.20	10.98	9.74
AD736JN	AD736JN-ND	True RMS/DC Converter LP	8-Dip	7.54	6.04	5.09
AD736JNZ	AD736JNZ-ND	True RMS/DC Converter LP* ***NEW!***	8-Dip	7.54	6.04	5.09
AD736JR	AD736JR-ND	True RMS/DC Converter LP	8-SOIC	7.54	6.04	5.09
AD736KR	AD736KR-ND	True RMS/DC Converter LP	8-SOIC	11.80	10.62	9.42
AD737JN	AD737JN-ND	True RMS/DC Converter LP	8-Dip	6.00	4.80	4.05
AD737JNZ	AD737JNZ-ND	True RMS/DC Converter LP* ***NEW!***	8-Dip	6.00	4.80	4.05
AD737JR	AD737JR-ND	True RMS/DC Converter LP	8-SOIC	6.00	4.80	4.05
AD737JRZ	AD737JRZ-ND	True RMS/DC Converter LP* ***NEW!***	8-SOIC	6.00	4.80	4.05
Voltage-to-Frequency						
AD537JD	AD537JD-ND	Voltage/Frequency Converter	14-CDip	46.23	43.15	40.07
AD537JH	AD537JH-ND	Voltage/Frequency Converter	TO-100	13.74	12.38	10.98
AD650BD	AD650BD-ND	Volt. Freq./Freq. Volt. Converter	14-Dip	27.27	25.46	23.64
AD650JN	AD650JN-ND	Volt. Freq./Freq. Volt. Converter	14-Dip	13.11	11.81	10.47
AD650KN	AD650KN-ND	Volt. Freq./Freq. Volt. Converter	14-Dip	16.39	14.76	13.09
AD652AQ	AD652AQ-ND	Voltage/Frequency Converter Sync.	16-Dip	15.08	13.58	12.04
AD652BQ	AD652BQ-ND	Voltage/Frequency Converter Sync.	16-Dip	20.37	19.02	17.66
AD652JP	AD652JP-ND	Voltage/Frequency Converter Sync.	20-PLCC	14.99	13.50	11.97
AD652KP	AD652KP-ND	Voltage/Frequency Converter Sync.	20-PLCC	17.58	16.41	15.24
AD654JN	AD654JN-ND	Voltage/Frequency Converter Mono	8-Dip	8.30	6.64	5.61
AD654JR	AD654JR-ND	Voltage/Frequency Converter Mono	8-SOIC	8.30	6.64	5.61
AD654JR-REEL7	AD654JR-REEL7TR-ND	Voltage/Frequency Converter Mono	8-SOIC	3953.25/750		
AD654JRZ	AD654JRZ-ND	Voltage/Frequency Converter Mono	8-SOIC	8.30	6.64	5.61
AD7741BN	AD7741BN-ND	Voltage/Frequency Converter	8-Dip	4.61	3.69	2.87

ANALOG DEVICES — DIGITAL POTENTIOMETERS

Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD5160BRJ5-R2	AD5160BRJ5-R2CT-ND	Pot. Digital 5K, 256 Pos.	SOT-23-8	2.30	1.84	1.38
AD5160BRJ5-R2	AD5160BRJ5-R2TR-ND	Pot. Digital 5K, 256 Pos.	SOT-23-8	322.00/250		
AD5160BRJ10-R2	AD5160BRJ10-R2CT-ND	Pot. Digital 10K, 256 Pos.	SOT-23-8	2.30	1.84	1.38
AD5160BRJ10-R2	AD5160BRJ10-R2TR-ND	Pot. Digital 10K, 256 Pos.	SOT-23-8	322.00/250		
AD5160BRJ50-R2	AD5160BRJ50-R2CT-ND	Pot. Digital 50K, 256 Pos.	SOT-23-8	2.30	1.84	1.38
AD5160BRJ50-R2	AD5160BRJ50-R2TR-ND	Pot. Digital 50K, 256 Pos.	SOT-23-8	322.00/250		
AD51601BRJ100-R2	AD5160BRJ100-R2CT-ND	Pot. Digital 100K, 256 Pos.	SOT-23-8	2.30	1.84	1.38
AD5160BRJ100-R2	AD5160BRJ100-R2TR-ND	Pot. Digital 100K, 256 Pos.	SOT-23-8	322.00/250		
AD5160BRJZ100-R2	AD5160BRJZ100R2CT-ND	Pot. Digital 100K, 256 Pos.* ***NEW!***	SOT-23-8	2.30	1.84	1.38
AD5160BRJZ100-R2	AD5160BRJZ100R2TR-ND	Pot. Digital 100K, 256 Pos.* ***NEW!***	SOT-23-8	322.00/250		
AD5161BRM5	AD5161BRM5-ND	Pot. Digital 5K, 256 Pos.	10-MSOP	1.78	1.42	1.07
AD5161BRM10	AD5161BRM10-ND	Pot. Digital 10K, 256 Pos.	10-MSOP	1.78	1.42	1.07
AD5161BRMZ10	AD5161BRMZ10-ND	Pot. Digital 10K, 256 Pos.	10-MSOP	1.78	1.42	1.07
AD5161BRM50	AD5161BRM50-ND	Pot. Digital 50K, 256 Pos.	10-MSOP	1.78	1.42	1.07
AD5161BRMZ50	AD5161BRMZ50-ND	Pot. Digital 50K, 256 Pos.	10-MSOP	1.78	1.42	1.07
AD5161BRM100	AD5161BRM100-ND	Pot. Digital 100K, 256 Pos.	10-MSOP	1.78	1.42	1.07
AD5161BRMZ100	AD5161BRMZ100-ND	Pot. Digital 100K, 256 Pos.	10-MSOP	1.78	1.42	1.07
AD51628RM2.5	AD5162BRM2.5-ND	Pot. Dual 2.5K, 256 Pos.	10-MSOP	2.48	1.98	1.54
AD5162BRM10	AD5162BRM10-ND	Pot. Dual 10K, 256 Pos.	10-MSOP	2.48	1.98	1.54
AD5162BRM50	AD5162BRM50-ND	Pot. Dual 50K, 256 Pos.	10-MSOP	2.48	1.98	1.54
AD5162BRM100	AD5162BRM100-ND	Pot. Dual 100K, 256 Pos.	10-MSOP	2.48	1.98	1.54
AD5162BRMZ100	AD5162BRMZ100-ND	Pot. Dual 100K, 256 Pos.* ***NEW!***	10-MSOP	2.48	1.98	1.54
AD5170BRM2.5	AD5170BRM2.5-ND	Pot. Digital 2.5K, 256 Pos.	10-MSOP	2.48	1.98	1.54
AD5170BRM10	AD5170BRM10-ND	Pot. Digital 10K, 256 Pos.	10-MSOP	2.48	1.98	1.54
AD5170BRM50	AD5170BRM50-ND	Pot. Digital 50K, 256 Pos.	10-MSOP	2.48	1.98	1.54
AD5170BRM100	AD5170BRM100-ND	Pot. Digital 100K, 256 Pos.	10-MSOP	2.48	1.98	1.54
AD51718RJZ5-R2	AD5171BRJZ5-R2CT-ND	Pot. Digital 5K, OTP* ***NEW!***	SOT-23-8	2.43	1.95	1.52
AD51718RJZ5-R2	AD5171BRJZ5-R2TR-ND	Pot. Digital 5K, OTP* ***NEW!***	SOT-23-8	359.00/250		
AD51718RJZ10-R2	AD5171BRJZ10-R2CT-ND	Pot. Digital 10K, OTP* ***NEW!***	SOT-23-8	2.43	1.95	1.52
AD51718RJZ10-R2	AD5171BRJZ10-R2TR-ND	Pot. Digital 10K, OTP* ***NEW!***	SOT-23-8	359.00/250		
AD5171BRJZ50-R2	AD5171BRJZ50-R2CT-ND	Pot. Digital 50K, OTP* ***NEW!***	SOT-23-8	2.43	1.95	1.52
AD5171BRJZ50-R2	AD5171BRJZ50-R2TR-ND	Pot. Digital 50K, OTP* ***NEW!***	SOT-23-8	359.00/250		
AD5171BRJZ100-R2	AD5171BRJZ100R2CT-ND	Pot. Digital 100K, OTP* ***NEW!***	SOT-23-8	2.43	1.95	1.52
AD5171BRJZ100-R2	AD5171BRJZ100R2TR-ND	Pot. Digital 100K, OTP* ***NEW!***	SOT-23-8	359.00/250		
AD5171EVAL	AD5171EVAL-ND	Evaluation Board for AD5171 ***NEW!***	—	39.38	—	—
AD51728RM2.5	AD5172BRM2.5-ND	Pot. Dual 2.5K, 256 Pos.	10-MSOP	3.24	2.60	2.02
AD5172BRM10	AD5172BRM10-ND	Pot. Dual 10K, 256 Pos.	10-MSOP	3.24	2.60	2.02
AD5172BRM50	AD5172BRM50-ND	Pot. Dual 50K, 256 Pos.	10-MSOP	3.24	2.60	2.02
AD5172BRMZ50	AD5172BRMZ50-ND	Pot. Dual 50K, 256 Pos.	10-MSOP	3.24	2.60	2.02
AD5172BRM100	AD5172BRM100-ND	Pot. Dual 100K, 256 Pos.	10-MSOP	3.24	2.60	2.02

* Lead Free/RoHS Compliant

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ANALOG DEVICES — DIGITAL POTENTIOMETERS (Continued)

Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD5172BRMZ100	AD5172BRMZ100-ND	Pot. Dual 100K, 256 Pos.* **NEW!**	10-MSOP	3.24	2.60	2.02
AD5172BRMZ100-RL7	AD5172BRMZ100RLCT-ND	Pot. Dual 100K, 256 Pos.* **NEW!**	10-MSOP	3.24	2.60	2.02
AD5172BRMZ100-RL7	AD5172BRMZ100RLTR-ND	Pot. Dual 100K, 256 Pos.* **NEW!**	10-MSOP		1836.00/1,000	
AD5173BRM2.5	AD5173BRM2.5-ND	Pot. Digital Dual 2.5K OTP	10-MSOP	3.24	2.60	2.02
AD5173BRM10	AD5173BRM10-ND	Pot. Digital Dual 10K OTP	10-MSOP	3.24	2.60	2.02
AD5173BRM50	AD5173BRM50-ND	Pot. Digital Dual 50K OTP	10-MSOP	3.24	2.60	2.02
AD5173BRM100	AD5173BRM100-ND	Pot. Digital Dual 100K OTP	10-MSOP	3.24	2.60	2.02
AD5200BRM10	AD5200BRM10-ND	Pot. Digital 10K, 256 Pos.	10-SOIC	2.45	1.96	1.47
AD5204BR10	AD5204BR10-ND	Pot. Digital 10K, Quad 256 Pos.	24-SOIC	5.02	4.02	3.13
AD5204BRZ10	AD5204BRZ10-ND	Pot. Digital 10K, Quad 256 Pos.	24-SOIC	5.02	4.02	3.13
AD5204BRU50	AD5204BRU50-ND	Pot. Digital 50K, Quad 256 Pos.	24-TSSOP	5.02	4.02	3.13
AD5206BN10	AD5206BN10-ND	Pot. Digital 6-Ch. 256 Pos.	24-Dip	5.80	4.64	3.92
AD5206BRU10	AD5206BRU10-ND	Pot. Digital 6-Ch. 256 Pos.	24-TSSOP	5.80	4.64	3.92
AD5207BRU100-REEL7	AD5207BRU100RL7CT-ND	Pot. Digital Dual 256 Pos.	14-TSSOP	2.61	2.09	1.63
AD5207BRU100-REEL7	AD5207BRU100RL7TR-ND	Pot. Digital Dual 256 Pos.	14-TSSOP		1479.00/1,000	
AD5220BN10	AD5220BN10-ND	Pot. Digital 10K, 128 Pos.	8-Dip	2.48	1.98	1.49
AD5220BR10	AD5220BR10-ND	Pot. Digital 10K, 128 Pos.	8-SOIC	2.48	1.98	1.49
AD5220BRZ10	AD5220BRZ10-ND	Pot. Digital 10K, 128 Pos.	8-SOIC	2.48	1.98	1.49
AD5222BR1M	AD5222BR1M-ND	Pot. Digital Dual 128 Pos.	14-SOIC	4.01	3.21	2.50
AD5227BUJZ10-RL7	AD5227BUJZ10RL7CT-ND	Pot. Digital Up/Down 10K* **NEW!**	TSOT-23-8	1.47	1.23	.98
AD5227BUJZ10-RL7	AD5227BUJZ10RL7TR-ND	Pot. Digital Up/Down 10K* **NEW!**	TSOT-23-8		1911.00/3,000	
AD5227BUJZ100-RL7	AD5227BUJZ100RLCT-ND	Pot. Digital Up/Down 100K* **NEW!**	TSOT-23-8	1.47	1.23	.98
AD5227BUJZ100-RL7	AD5227BUJZ100RLTR-ND	Pot. Digital Up/Down 100K* **NEW!**	TSOT-23-8		1911.00/3,000	
AD5228BUJZ10-RL7	AD5228BUJZ10RL7CT-ND	Pot. Digital Up/Down 10K* **NEW!**	TSOT-23-8	1.29	1.08	.86
AD5228BUJZ10-RL7	AD5228BUJZ10RL7TR-ND	Pot. Digital Up/Down 10K* **NEW!**	TSOT-23-8		1677.00/3,000	
AD5228BUJZ100-RL7	AD5228BUJZ100RLCT-ND	Pot. Digital Up/Down 100K* **NEW!**	TSOT-23-8	1.29	1.08	.86
AD5228BUJZ100-RL7	AD5228BUJZ100RLTR-ND	Pot. Digital Up/Down 100K* **NEW!**	TSOT-23-8		1677.00/3,000	
AD5231BU10	AD5231BU10-ND	Pot. Digital 10K, 1024 Pos.	16-TSSOP	4.95	3.96	3.08
AD5231BUZ100	AD5231BUZ100-ND	Pot. Digital 100K, 1024 Pos.* **NEW!**	16-TSSOP	4.95	3.96	3.08
AD5232BRU10	AD5232BRU10-ND	Pot. Digital Dual 256 Pos.	16-TSSOP	5.90	4.72	3.99
AD5232EVAL10	AD5232EVAL10-ND	Evaluation Board 10 for AD5232	—	67.50	—	—
AD5233BRU10	AD5233BRU10-ND	Pot. Quad 10K, 64 Pos.	24-TSSOP	5.48	4.39	3.70
AD5233BRU50	AD5233BRU50-ND	Pot. Quad 50K, 64 Pos.	24-TSSOP	5.48	4.39	3.70
AD5233BRU100	AD5233BRU100-ND	Pot. Quad 100K, 64 Pos.	24-TSSOP	5.48	4.39	3.70
AD5235BRU25	AD5235BRU25-ND	Pot. Dual 25K, 1024 Pos.	16-TSSOP	9.38	8.45	7.49
AD5235BRU250	AD5235BRU250-ND	Pot. Dual 250K, 1024 Pos.	16-TSSOP	9.38	8.45	7.49
AD5241BR1M	AD5241BR1M-ND	Pot. Digital 256 Pos.	14-SOIC	2.27	1.82	1.42
AD5242BR1M	AD5242BR1M-ND	Pot. Digital 256 Pos.	16-SOIC	3.13	2.51	1.95
AD5242BRU10	AD5242BRU10-ND	Pot. Digital 10K, 256 Pos.	16-TSSOP	3.13	2.51	1.95
AD5242BRU100-REEL7	AD5242BRU100RL7CT-ND	Pot. Digital 100K, 256 Pos.	16-TSSOP	3.13	2.51	1.95
AD5242BRU100-REEL7	AD5242BRU100RL7TR-ND	Pot. Digital 100K, 256 Pos.	16-TSSOP		1772.00/1,000	
AD5242BRZ10	AD5242BRZ10-ND	Pot. Digital 10K, 256 Pos.* **NEW!**	16-SOIC	3.13	2.51	1.95
AD5243BRM2.5	AD5243BRM2.5-ND	Pot. Digital Dual 2.5K I2C	10-MSOP	2.48	1.98	1.54
AD5243BRM10	AD5243BRM10-ND	Pot. Digital Dual 10K I2C	10-MSOP	2.48	1.98	1.54
AD5243BRMZ10	AD5243BRMZ10-ND	Pot. Digital Dual 10K I2C* **NEW!**	10-MSOP	2.48	1.98	1.54
AD5243BRM50	AD5243BRM50-ND	Pot. Digital Dual 50K I2C	10-MSOP	2.48	1.98	1.54
AD5243BRM100	AD5243BRM100-ND	Pot. Digital Dual 100K I2C	10-MSOP	2.48	1.98	1.54
AD5243BRMZ100	AD5243BRMZ100-ND	Pot. Digital Dual 100K I2C* **NEW!**	10-MSOP	2.48	1.98	1.54
AD5245BRJ5-R2	AD5245BRJ5-R2CT-ND	Pot. Digital 5K, 256 Pos.	SOT-23-8	2.30	1.84	1.38
AD5245BRJ5-R2	AD5245BRJ5-R2TR-ND	Pot. Digital 5K, 256 Pos.	SOT-23-8		322.00/250	
AD5245BRJ10-R2	AD5245BRJ10-R2CT-ND	Pot. Digital 10K, 256 Pos.	SOT-23-8	2.30	1.84	1.38
AD5245BRJ10-R2	AD5245BRJ10-R2TR-ND	Pot. Digital 10K, 256 Pos.	SOT-23-8		322.00/250	
AD5245BRJ50-R2	AD5245BRJ50-R2CT-ND	Pot. Digital 50K, 256 Pos.	SOT-23-8	2.30	1.84	1.38
AD5245BRJ50-R2	AD5245BRJ50-R2TR-ND	Pot. Digital 50K, 256 Pos.	SOT-23-8		322.00/250	
AD5245BRJ100-R2	AD5245BRJ100-R2CT-ND	Pot. Digital 100K, 256 Pos.	SOT-23-8	2.30	1.84	1.38
AD5245BRJ100-R2	AD5245BRJ100-R2TR-ND	Pot. Digital 100K, 256 Pos.	SOT-23-8		322.00/250	
AD5246BKS5-R2	AD5246BKS5-R2CT-ND	Pot. Digital 5K, 128 Pos.	SC70-6	1.88	1.50	1.13
AD5246BKS5-R2	AD5246BKS5-R2TR-ND	Pot. Digital 5K, 128 Pos.	SC70-6		262.50/250	
AD5246BKS10-R2	AD5246BKS10-R2CT-ND	Pot. Digital 10K, 128 Pos.	SC70-6	1.88	1.50	1.13
AD5246BKS10-R2	AD5246BKS10-R2TR-ND	Pot. Digital 10K, 128 Pos.	SC70-6		262.50/250	
AD5246BKS50-R2	AD5246BKS50-R2CT-ND	Pot. Digital 50K, 128 Pos.	SC70-6	1.88	1.50	1.13
AD5246BKS50-R2	AD5246BKS50-R2TR-ND	Pot. Digital 50K, 128 Pos.	SC70-6		262.50/250	
AD5246BKS100-R2	AD5246BKS100-R2CT-ND	Pot. Digital 100K, 128 Pos.	SC70-6	1.88	1.50	1.13
AD5246BKS100-R2	AD5246BKS100-R2TR-ND	Pot. Digital 100K, 128 Pos.	SC70-6		262.50/250	
AD5246BKSZ100-R2	AD5246BKSZ100R2CT-ND	Pot. Digital 100K, 128 Pos.* **NEW!**	SC70-6	1.88	1.50	1.13
AD5246BKSZ100-R2	AD5246BKSZ100R2TR-ND	Pot. Digital 100K, 128 Pos.* **NEW!**	SC70-6		262.50/250	
AD5246BKSZ100-RL7	AD5246BKSZ100RLCT-ND	Pot. Digital 100K, 128 Pos.* **NEW!**	SC70-6	1.45	1.16	.87
AD5246BKSZ100-RL7	AD5246BKSZ100RLTR-ND	Pot. Digital 100K, 128 Pos.* **NEW!**	SC70-6		2226.00/3,000	
AD5247BKS5-R2	AD5247BKS5-R2CT-ND	Pot. Digital 5K, 128 Pos.	SC70-6	1.88	1.50	1.13
AD5247BKS5-R2	AD5247BKS5-R2TR-ND	Pot. Digital 5K, 128 Pos.	SC70-6		262.50/250	
AD5247BKS10-R2	AD5247BKS10-R2CT-ND	Pot. Digital 10K, 128 Pos.	SC70-6	1.88	1.50	1.13
AD5247BKS10-R2	AD5247BKS10-R2TR-ND	Pot. Digital 10K, 128 Pos.	SC70-6		262.50/250	
AD5247BKS50-R2	AD5247BKS50-R2CT-ND	Pot. Digital 50K, 128 Pos.	SC70-6	1.88	1.50	1.13
AD5247BKS50-R2	AD5247BKS50-R2TR-ND	Pot. Digital 50K, 128 Pos.	SC70-6		262.50/250	
AD5247BKS100-R2	AD5247BKS100-R2CT-ND	Pot. Digital 100K, 128 Pos.	SC70-6	1.88	1.50	1.13
AD5247BKS100-R2	AD5247BKS100-R2TR-ND	Pot. Digital 100K, 128 Pos.	SC70-6		262.50/250	
AD5248BRM2.5	AD5248BRM2.5-ND	Pot. Digital Dual 2.5K I2C	10-MSOP	2.48	1.98	1.54
AD5248BRMZ2.5	AD5248BRMZ2.5-ND	Pot. Digital Dual 2.5K I2C* **NEW!**	10-MSOP	2.48	1.98	1.54
AD5248BRM10	AD5248BRM10-ND	Pot. Digital Dual 10K I2C	10-MSOP	2.48	1.98	1.54
AD5248BRM50	AD5248BRM50-ND	Pot. Digital Dual 50K I2C	10-MSOP	2.48	1.98	1.54
AD5248BRM100	AD5248BRM100-ND	Pot. Digital Dual 100K I2C	10-MSOP	2.48	1.98	1.54
AD5252BRU1	AD5252BRU1-ND	Pot. Digital Dual 1K, 256 Pos.	14-TSSOP	5.26	4.21	3.56
AD5252BUZ1	AD5252BUZ1-ND	Pot. Digital Dual 1K, 256 Pos.* **NEW!**	14-TSSOP	5.26	4.21	3.56
AD5252BRU10	AD5252BRU10-ND	Pot. Digital Dual 10K, 256 Pos.	14-TSSOP	5.26	4.21	3.56
AD5252BRU100	AD5252BRU100-ND	Pot. Digital Dual 100K, 256 Pos.	14-TSSOP	5.26	4.21	3.56
AD5253BRU1	AD5253BRU1-ND	Pot. Digital Quad 1K, 64 Pos. **NEW!**	20-TSSOP	5.46	4.37	3.89
AD5253BRU10	AD5253BRU10-ND	Pot. Digital Quad 10K, 64 Pos. **NEW!**	20-TSSOP	5.46	4.37	3.69
AD5253BRU100	AD5253BRU100-ND	Pot. Digital Quad 100K, 64 Pos. **NEW!**	20-TSSOP	5.46	4.37	3.69
AD5254BRU10	AD5254BRU10-ND	Pot. Digital Quad 10K, 256 Pos. **NEW!**	20-TSSOP	6.62	5.30	4.47
AD5254BRU100	AD5254BRU100-ND	Pot. Digital Quad 100K, 256 Pos. **NEW!**	20-TSSOP	6.62	5.30	4.47
AD5254BUZ1	AD5254BUZ1-ND	Pot. Digital Quad 1K, 256 Pos.* **NEW!**	20-TSSOP	6.62	5.30	4.47
AD5255BRU25	AD5255BRU25-ND	Pot. Digital 25K, 3-Ch.	24-TSSOP	9.38	8.45	7.49
AD5255BRU250	AD5255BRU250-ND	Pot. Digital 250K, 3-Ch.	24-TSSOP	9.38	8.45	7.49
AD5260BRU20	AD5260BRU20-ND	Pot. Digital 20K, 256 Pos.	14-TSSOP	4.43	3.55	2.76
AD5260BRU50	AD5260BRU50-ND	Pot. Digital 50K, 256 Pos.	14-TSSOP	4.43	3.55	2.76
AD5260BRUZ50	AD5260BRUZ50-ND	Pot. Digital 50K, 256 Pos.* **NEW!**	14-TSSOP	4.43	3.55	2.76
AD5260BRU200	AD5260BRU200-ND	Pot. Digital 200K, 256 Pos.	14-TSSOP	4.43	3.55	2.76
AD5262BRU20	AD5262BRU20-ND	Pot. Dual 20K, 256 Pos.	16-TSSOP	4.86	3.89	3.03
AD5262BRUZ20	AD5262BRUZ20-ND	Pot. Dual 20K, 256 Pos.* **NEW!**	16-TSSOP	4.86	3.89	3.03
AD5262BRU50	AD5262BRU50-ND	Pot. Dual 50K, 256 Pos.	16-TSSOP	4.86	3.89	3.03
AD5262BRUZ50	AD5262BRUZ50-ND	Pot. Dual 50K, 256 Pos.* **NEW!**	16-TSSOP	4.86	3.89	3.03
AD5262BRU200	AD5262BRU200-ND	Pot. Dual 200K, 256 Pos.	16-TSSOP	4.86	3.89	3.03
AD5262BRUZ200	AD5262BRUZ200-ND	Pot. Dual 200K, 256 Pos.* **NEW!**	16-TSSOP	4.86	3.89	3.03
AD5263BRU20	AD5263BRU20-ND	Pot. Quad 20K, 256 Pos.	24-TSSOP	7.00	5.60	4.71
AD5263BRUZ20	AD5263BRUZ20-ND	Pot. Quad 20K, 256 Pos.	24-TSSOP	7.00	5.60	4.71
AD5263BRU50	AD5263BRU50-ND	Pot. Quad 50K, 256 Pos.	24-TSSOP	7.00	5.60	4.71
AD5263BRU200	AD5263BRU200-ND	Pot. Quad 200K, 256 Pos.	24-TSSOP	7.00	5.60	4.71
AD5263EVAL	AD5263EVAL-ND	Evaluation Board for AD5263	—	67.50	—	—
AD5273BRJ1-R2	AD5273BRJ1-R2CT-ND	Pot. Digital 1K, 64 Pos.	SOT-23-8	1.88	1.50	1.13
AD5273BRJ1-R2	AD5273BRJ1-R2TR-ND	Pot. Digital 1K, 64 Pos.	SOT-23-8		262.50/250	
AD5273BRJ10-R2	AD5273BRJ10-R2CT-ND	Pot. Digital 10K, 64 Pos.	SOT-23-8	1.88	1.50	1.13
AD5273BRJ10-R2	AD5273BRJ10-R2TR-ND	Pot. Digital 10K, 64 Pos.	SOT-23-8		262.50/250	
AD5273BRJ50-R2	AD5273BRJ50-R2CT-ND	Pot. Digital 50K, 64 Pos.	SOT-23-8	1.88	1.50	1.13
AD5273BRJ50-R2	AD5273BRJ50-R2TR-ND	Pot. Digital 50K, 64 Pos.	SOT-23-8		262.50/250	
AD5273BRJ100-R2	AD5273BRJ100-R2CT-ND	Pot. Digital 100K, 64 Pos.	SOT-23-8	1.88	1.50	1.13
AD5273BRJ100-R2	AD5273BRJ100-R2TR-ND	Pot. Digital 100K, 64 Pos.	SOT-23-8		262.50/250	
AD5273BRJZ10-R7	AD5273BRJZ10-R7CT-ND	Pot. Digital 10K, 64 Pos.* **NEW!**	SOT-23-8	1.88	1.50	1.13
AD5273BRJZ10-R7	AD5273BRJZ10-R7TR-ND	Pot. Digital 10K, 64 Pos.* **NEW!**	SOT-23-8		2880.00/3,000	
AD5280BRU20	AD5280BRU20-ND	Pot. Digital 20K, 256 Pos.	14-TSSOP	4.43	3.55	2.76
AD5280BRUZ20	AD5280BRUZ20-ND	Pot. Digital 20K, 256 Pos.* **NEW!**	14-TSSOP	4.43	3.55	2.76
AD5280BRU50	AD5280BRU50-ND	Pot. Digital 50K, 256 Pos.	14-TSSOP	4.43	3.55	2.76
AD5280BRUZ50	AD5280BRUZ50-ND	Pot. Digital 50K, 256 Pos.* **NEW!**	14-TSSOP	4.43	3.55	2.76
AD5280BRU200	AD5280BRU200-ND	Pot. Digital 200K, 256 Pos.	14-TSSOP	4.43	3.55	2.76
AD5282BRU20	AD5282BRU20-ND	Dual Pot. 20K, 256 Pos.	16-TSSOP	4.86	3.89	3.03
AD5282BRU50	AD5282BRU50-ND	Dual Pot. 50K, 256 Pos.	16-TSSOP	4.86	3.89	3.03
AD5282BRU200	AD5282BRU200-ND	Dual Pot. 200K, 256 Pos.	16-TSSOP	4.86	3.89	3.03
AD7376AN10	AD7376AN10-ND	Pot. Digital 10K, 128 Pos.	14-Dip	5.08	4.07	3.45
AD7376AR10	AD7376AR10-ND	Pot. Digital 10K, 128 Pos.	16-SOIC	5.08	4.07	3.45
AD7376AR1M	AD7376AR1M-ND	Pot. Digital 10K, 128 Pos.	16-SOIC	5.08	4.07	3.45
AD7376ARU10	AD7376ARU10-ND	Pot. Digital 10K, 128 Pos.	14-TSSOP	5.08	4.07	3.45
AD7376ARU50	AD7376ARU50-ND	Pot. Digital 10K, 128 Pos.	14-TSSOP	5.08	4.07	3.45
AD8400AR1	AD8400AR1-ND	Pot. Digital 8-Bit, 1K, 1-Ch.	8-SOIC	2.50	2.00	1.52
AD8400ARZ1	AD8400ARZ1-ND	Pot. Digital 8-Bit, 1K, 1-Ch.* **NEW!**	8-SOIC	2.50	2.00	1.52
AD8400AR10	AD8400AR10-ND	Pot. Digital 8-Bit, 10K, 1-Ch.	8-SOIC	2.50	2.00	1.52
AD8400ARZ10	AD8400ARZ10-ND	Pot. Digital 8-Bit, 10K, 1-Ch.* **NEW!**	8-SOIC	2.50	2.00	1.52
AD8400AR50	AD8400AR50-ND	Pot. Digital 8-Bit, 50K, 1-Ch.	8-SOIC	2.50	2.00	1.52
AD8400AR100	AD8400AR100-ND	Pot. Digital 8-Bit, 100K, 1-Ch.	8-SOIC	2.50	2.00	1.52
AD8400ARZ100	AD8400ARZ100-ND	Pot. Digital 8-Bit, 100K, 1-Ch.* **NEW!**	8-SOIC	2.50	2.00	1.52
AD8402AN10	AD8402AN10-ND	Pot. Digital 8-Bit, 10K, 2-Ch.	14-Dip	3.78	3.03	2.30
AD8402AR1	AD8402AR1-ND	Pot. Digital 8-Bit, 1K, 2-Ch.	14-SOIC	3.78	3.03	2.30
AD8402AR10	AD8402AR10-ND	Pot. Digital 8-Bit, 10K, 2-Ch.	14-SOIC	3.78	3.03	2.30
AD8402AR50	AD8402AR50-ND	Pot. Digital 8-Bit, 50K, 2-Ch.	14-SOIC	3.78	3.03	2.30
AD8402AR100	AD8402AR100-ND	Pot. Digital 8-Bit, 100K, 2-Ch.	14-SOIC	3.78	3.03	2.30
AD8402ARU10	AD8402ARU10-ND	Pot. Digital 8-Bit, 10K, 2-Ch.	14-TSSOP	3.78	3.03	2.30
AD8403ARUZ1	AD8403ARUZ1-ND	Pot. Digital 8-Bit, 1K, 4-Ch.	24-TSSOP	5.08	4.07	3.45
AD8403AR10	AD8403AR10-ND	Pot. Digital 8-Bit, 10K, 4-Ch.	24-SOIC	5.08	4.07	3.45
AD8403AR10-REEL	AD8403AR10-REELCT-ND	Pot. Digital 8-Bit, 10K, 4-Ch.	24-SOIC	5.08	4.07	3.45
AD8403AR10-REEL	AD8403AR10-REELTR-ND	Pot. Digital 8-Bit, 10K, 4-Ch.	24-SOIC		3175.00/1,000	
AD8403ARU10	AD8403ARU10-ND	Pot. Digital 8-Bit, 10K, 4-Ch.	24-TSSOP	5.08	4.07	3.45
AD8403ARU10-REEL	AD8403ARU10-RLCT-ND	Pot. Digital 8-Bit, 10K, 4-Ch.	24-TSSOP	5.08	4.07	3.45
AD8403ARU10-REEL	AD8403ARU10-RLTR-ND	Pot. Digital 8-Bit, 10K, 4-Ch.	24-TSSOP		7875.00/2,500	
AD8403AR50	AD8403AR50-ND	Pot. Digital 8-Bit, 50K, 4-Ch.	24-SOIC	5.08	4.07	3.45
AD8403AR100	AD8403AR100-ND	Pot. Digital 8-Bit, 100K, 4-Ch.	24-SOIC	5.08	4.07	3.45
AD8403ARU100	AD8403ARU100-ND	Pot. Digital 8-Bit, 100K, 4-Ch.	24-TSSOP	5.14	4.12	3.45
AD8403ARUZ100	AD8403ARUZ100-ND	Pot. Digital 8-Bit, 100K, 4-Ch.	24-TSSOP	5.14	4.12	3.45
		Rheostat				
ADN2850BCP25	ADN2850BCP25-ND	Pot. Digital Dual 25K 10-Bit	16-LFCSP	10.83	9.75	8.67
ADN2850BCP250	ADN2850BCP250-ND	Dual 1024 Position Prog. Resistor	16-LFCSP	14.63	11.70	9.17
ADN2860ACPZ25-RL7	ADN2860ACPZ25RLCT-ND	Pot. Digital 25K, 3-Ch.	24-LFCSP	9.83	8.85	7.87
ADN2860ACPZ25-RL7	ADN2860ACPZ25RLTR-ND	Pot. Digital 25K, 3-Ch.	24-LFCSP		10930.50/1,500	
ADN2860ACPZ250-RL7	ADN2860ACPZ250RCT-ND	Pot. Digital 250K, 3-Ch.	24-LFCSP	9.83	8.85	7.87
ADN2860ACPZ250-RL7	ADN2860ACPZ250RTR-ND	Pot. Digital 250K, 3-Ch.	24-LFCSP		10930.50/1,500	

ANALOG DEVICES — DISPLAY AND VIDEO CONVERTERS

Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD723ARU	AD723ARU-ND	RGB to NTSC/Pal Encoder	28-TSSOP	7.08	5.67	4.71
AD725AR	AD725AR-ND	Encoder RGB to NTSC	16-SOIC	9.14	7.32	6.10
AD725ARZ	AD725ARZ-ND	Encoder RGB to NTSC/PAL	16-SOIC	9.14	7.32	6.10
AD725-EB	AD725-EB-ND	Evaluation Board for AD725	—	367.50	—	—
AD9883ABST-110	AD9883ABST-110-ND	Flat Panel Interface	80-LQFP	15.48	14.45	13.40
AD9883AKST-140	AD9883AKST-140-ND	Flat Panel Interface	80-LQFP	13.39	12.06	10.72
AD9888KS-140	AD9888KS-140-ND	Flat Panel Interface	128-MQFP	19.35	18.06	16.77
ADV202BBC-115	ADV202BBC-115-ND	JPEG2000 Video Codec	121-BGA	52.77	49.26	45.75
ADV202BBC-150	ADV202BBC-150-ND	JPEG2000 Video Codec	144-CSBGA	70.59	65.89	61.19
ADV202BBCZ-150	ADV202BBCZ-150-ND	JPEG2000 Video Codec	144-CSBGA	70.59	65.89	61.19
ADV601LCJST	ADV601LCJST-ND	Video Encoder/Decoder	120-LQFP	51.54	48.11	44.68
ADV7123JST240	ADV7123JST240-ND	DAC Video Triple High Speed	48-LQFP	18.71	17.46	16.22
ADV7123KST140	ADV7123KST140-ND	DAC Video Triple High Speed	48-LQFP	12.68	11.42	10.17
ADV7127KRU50	ADV7127KRU50-ND	DAC Video Single High Speed	24-TSSOP	9.74	7.80	6.50
ADV7176AKS	ADV7176AKS-ND	Encoder Video PAL/NTSC	44-MQFP	15.14	13.64	12.07
ADV7181BCP	ADV7181BCP-ND	Multiformat SDTV Video Decoder	64-LFCSP	13.33	12.00	10.67
ADV7181BST	ADV7181BST-ND	Multiformat SDTV Video Decoder	64-LQFP	13.33	12.00	10.67
ADV7183ABST	ADV7183ABST-ND	Multiformat SDTV Video Decoder	80-LQFP	19.12	15.30	12.59
ADV7183AKST	ADV7183AKST-ND	Multiformat SDTV Video Decoder	80-LQFP	18.02	14.42	12.10
ADV7183KST	ADV7183KST-ND	Multiformat SDTV Video Decoder	80-LQFP	16.61	15.50	14.40
ADV7185KST	ADV7185KST-ND	Multiformat SDTV Video Decoder	80-LQFP	45.15	42.14	39.13
ADV7189KST	ADV7189KST-ND	Multiformat SDTV Video Decoder	80-LQFP	45.90	36.72	30.92
ADV7192KSTZ	ADV7192KSTZ-ND	Encoder Video with Six 10-Bit DACs	80-LQFP	20.09	18.75	17.40
ADV7194KST	ADV7194KST-ND	Encoder Video EXT-10	80-LQFP	44.93	41.93	38.93
ADV7196AKSZ	ADV7196AKSZ-ND	Encoder Multiformat Progressive Scan/HDTV	52-MQFP	14.79	13.32	11.85
ADVFC32BH	ADVFC32BH-ND	Volt./Freq. and Freq./Volt. Converter -25-85°C	TO-100	12.06	10.86	9.66
ADVFC32KN	ADVFC32KN-ND	Volt./Freq. and Freq./Volt. Converter 0-70°C	14-Dip	9.01	8.12	7.22
ADVFC32SH	ADVFC32SH-ND	Volt./Freq. and Freq./Volt. Converter -55-125°C	TO-100	16.23	15.15	14.08

* Lead Free/RoHS Compliant

(Continue

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ANALOG DEVICES — DISPLAY AND VIDEO CONVERTERS *(Continued)*

Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
		Analog				
AD9882KST-100	AD9882KST-100-ND	Analog Interface Dual	100-LQFP	11.75	10.58	9.38
AD9882KST-140	AD9882KST-140-ND	Analog Interface Dual	100-LQFP	12.89	11.61	10.30
AD9884AKS-100	AD9884AKS-100-ND	Analog Interface, 100MSPS	128-MQFP	15.04	13.55	12.01
AD9884AKS-140	AD9884AKS-140-ND	Analog Interface, 140MSPS	128-MQFP	19.35	18.06	16.77
AD9884AKSZ-140	AD9884AKSZ-140-ND	Analog Interface, 140MSPS* **NEW!**	128-MQFP	19.35	18.06	16.77
AD9887AKS-100	AD9887AKS-100-ND	Analog Interface Dual	160-MQFP	16.08	14.48	12.84
AD9887AKS-140	AD9887AKS-140-ND	Analog Interface Dual	160-MQFP	16.55	15.45	14.34
AD9887AKS-170	AD9887AKS-170-ND	Analog Interface Dual	160-MQFP	25.80	24.08	22.36
AD9887KS-140	AD9887KS-140-ND	Analog Interface Dual	160-MQFP	16.55	15.45	14.34
AD9888KS-170	AD9888KS-170-ND	Analog Interface, 170MSPS	128-MQFP	27.09	25.29	23.48
AD9888KS-205	AD9888KS-205-ND	Analog Interface, 205MSPS	128-MQFP	36.12	33.72	31.31

ANALOG DEVICES — EVALUATION BOARDS

Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD6624S/PCB	AD6624S/PCB-ND	Evaluation Board Signal Processor AD6624	—	562.50	—	—
EVAL-AD5379EB	EVAL-AD5379EB-ND	Evaluation Board for AD5379	—	199.00	—	—
EVAL-ADUSB1	EVAL-ADUSB1-ND	Evaluation Board for ADUSB1	—	118.80	—	—
EVAL-CONTROL BRD3	EVAL-CONTROL BRD3-ND	Evaluation Board Control	—	281.25	—	—
SSM2167-EVAL	SSM2167-EVAL-ND	Evaluation Board for SSM2167	—	56.25	—	—

ANALOG DEVICES — FIBER OPTICS AND NETWORKS

Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD809BR	AD809BR-ND	Synth. Frequency 155.52MHz	16-SOIC	8.26	6.61	5.58
ADN2807ACP	ADN2807ACP-ND	Clock/Data Recovery with Amp	48-LFCSP	16.29	15.21	14.12
ADN2811ACP-CML	ADN2811ACP-CML-ND	Recover Clock/Data	48-LFCSP	55.47	51.78	48.08
ADN2812ACP	ADN2812ACP-ND	Clock/Data Recovery w/Amp **NEW!**	32-LFCSP	92.84	86.65	80.46
ADN2819ACP-CML	ADN2819ACP-CML-ND	Recover Clock/Data	48-LFCSP	71.79	67.01	62.22
ADN2830ACP32	ADN2830ACP32-ND	Controller Power Wave Laser	32-LFCSP	15.99	14.93	13.86
ADN2841ACP-32	ADN2841ACP-32-ND	Driver Laser Diode 5V	32-LFCSP	24.06	22.46	20.86
ADN2847ACP-32	ADN2847ACP-32-ND	Driver Laser Diode 3.3V	32-LFCSP	15.98	14.39	12.76
ADN2847ACP-48	ADN2847ACP-48-ND	Driver Laser Diode 3.3V	48-LFCSP	15.98	14.39	12.76
ADN2848ACP-32	ADN2848ACP-32-ND	Driver Laser Diode 3.3V	32-LFCSP	9.13	8.22	7.29
ADN2870ACPZ	ADN2870ACPZ-ND	Driver Laser Diode 3.3V **NEW!**	24-LFCSP	9.46	7.57	6.39
ADN2890ACP-RL7	ADN2890ACP-RL7CT-ND	3.3V, 2.7Gb/s Limiting Amp **NEW!**	16-LFCSP	8.00	6.40	5.40
ADN2890ACP-RL7	ADN2890ACP-RL7TR-ND	3.3V, 2.7Gb/s Limiting Amp **NEW!**	16-LFCSP		7500.00/1,500	
ADN8830ACPREEL7	ADN8830ACPREEL7CT-ND	Controller Thermal Cooler	32-LFCSP	9.31	8.39	7.44
ADN8830ACPREEL7	ADN8830ACPREEL7TR-ND	Controller Thermal Cooler	32-LFCSP		10356.00/1,500	
ADN8830ACP-WP	ADN8830ACP-WP-ND	Controller Thermal Cooler	32-LFCSP	9.31	8.39	7.44
ADN8830-EVAL	ADN8830-EVAL-ND	Evaluation Board Thermo Cooler ADN8830	—	112.50	—	—

ANALOG DEVICES — HARDWARE MONITORS AND THERMAL MANAGEMENT

Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
ADM1027ARQ	ADM1027ARQ-ND	Thermal Controller Volt/Monitor	24-QSOP	9.00	7.20	6.08
ADM1031ARQ	ADM1031ARQ-ND	Sensor 2-Temp./Fan Control	16-QSOP	8.80	7.04	5.94
ADM1032AR	ADM1032AR-ND	Temp. Monitor Default Set at 85°C	8-SOIC	5.90	4.72	3.99
ADM1032AR-1	ADM1032AR-1-ND	Temp. Monitor Default Set at 108°C	8-SOIC	5.90	4.72	3.99
ADM1032ARM	ADM1032ARM-ND	Temp. Monitor Default Set at 85°C	8-MSOP	5.90	4.72	3.99
ADM1032ARM-1	ADM1032ARM-1-ND	Temp. Monitor Default Set at 108°C	8-MSOP	5.90	4.72	3.99
ADM1033ARQ	ADM1033ARQ-ND	Thermal Monitor/Fan Speed Controller	16-QSOP	7.64	6.12	5.16
ADM1033ARQZ	ADM1033ARQZ-ND	Thermal Monitor/Fan Speed Controller	16-QSOP	7.64	6.12	5.16
ADM1034ARQ	ADM1034ARQ-ND	Thermal Monitor/Fan Speed Controller	16-QSOP	7.94	6.36	5.36
ADM1034ARQZ	ADM1034ARQZ-ND	Thermal Monitor/Fan Speed Controller	16-QSOP	7.94	6.36	5.36
ADM1060ARU	ADM1060ARU-ND	Supervisor/Sequencer 7-Ch.	28-TSSOP	9.58	8.63	7.65
ADM1085AKS-REEL7	ADM1085AKSREEL7CT-ND	Simple Sequencer™	SC70-6	1.02	.85	.68
ADM1085AKS-REEL7	ADM1085AKSREEL7TR-ND	Simple Sequencer™	SC70-6		1326.00/3,000	
ADM1086AKS-REEL7	ADM1086AKSREEL7CT-ND	Simple Sequencer™	SC70-6	1.02	.85	.68
ADM1086AKS-REEL7	ADM1086AKSREEL7TR-ND	Simple Sequencer™	SC70-6		1326.00/3,000	
ADM1087AKS-REEL7	ADM1087AKSREEL7CT-ND	Simple Sequencer™	SC70-6	1.02	.85	.68
ADM1087AKS-REEL7	ADM1087AKSREEL7TR-ND	Simple Sequencer™	SC70-6		1326.00/3,000	
ADM1088AKS-REEL7	ADM1088AKSREEL7CT-ND	Simple Sequencer™	SC70-6	1.02	.85	.68
ADM1088AKS-REEL7	ADM1088AKSREEL7TR-ND	Simple Sequencer™	SC70-6		1326.00/3,000	
ADT70GR	ADT70GR-ND	PRTD Conditioning Circuit/Temp. Controller	20-SOIC	8.18	6.55	5.53
ADT7316ARQ	ADT7316ARQ-ND	Digital Temp. Sensor Quad DAC	16-QSOP	11.15	10.04	8.90
ADT7317ARQ	ADT7317ARQ-ND	Digital Temp. Sensor Quad DAC	16-QSOP	7.26	5.81	4.91
ADT7318ARQ	ADT7318ARQ-ND	Digital Temp. Sensor Quad DAC	16-QSOP	5.20	4.16	3.24
ADT7411ARQ	ADT7411ARQ-ND	Digital Temp. Sensor 8-Ch. ADC	16-QSOP	5.15	4.13	3.21
ADT7460ARQ	ADT7460ARQ-ND	Remote Thermal/Fan Controller	16-QSOP	5.90	4.72	3.99
ADT7461AR	ADT7461AR-ND	Temp. Monitor +/-1C Dual	8-SOIC	5.00	4.00	3.38
ADT7461ARM	ADT7461ARM-ND	Temp. Monitor +/-1C Dual	8-MSOP	5.00	4.00	3.38
ADT7463ARQ	ADT7463ARQ-ND	Remote Thermal Controller	24-QSOP	7.00	5.60	4.73
ADT7467ARQ	ADT7467ARQ-ND	dBCool™ Remote Thermal Monitor and Fan Controller	16-QSOP	5.90	4.72	3.99
ADT7516ARQ	ADT7516ARQ-ND	Temperature Sensor Quad DAC	16-QSOP	13.34	12.02	10.66
ADT7517ARQ	ADT7517ARQ-ND	Temperature Sensor Quad DAC	16-QSOP	8.36	7.53	6.68
ADT7518ARQ	ADT7518ARQ-ND	Temperature Sensor Quad DAC	16-QSOP	7.38	5.91	4.99

ANALOG DEVICES — INTERFACE

Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
		Analog				
MAT01AH	MAT01AH-ND	TX Matched Mono Dual	TO-78	13.36	12.03	10.67
MAT01GH	MAT01GH-ND	TX Matched Mono Dual	TO-78	9.76	7.81	6.59
MAT02EH	MAT02EH-ND	TX Matched Mono Dual Low Noise	TO-78	15.03	14.03	13.03
MAT02FH	MAT02FH-ND	TX Matched Mono Dual Low Noise	TO-78	8.60	7.74	6.87
MAT04FP	MAT04FP-ND	TX Matched Mono Quad	14-Dip	6.78	5.43	4.58
MAT04FS	MAT04FS-ND	TX Matched Mono Quad	14-SOIC	6.78	5.43	4.58

Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
		Audio/Video				
PKD01FP	PKD01FP-ND	Mono Peak Detector Reset and Hold Mode	14-Dip	10.80	9.72	8.62
		Digital Isolators				
AD260BND-1	AD260BND-1-ND	Logic Isolator 3.5kV, 1:4 I/O	22-Dip	73.61	68.70	63.80
AD260BND-2	AD260BND-2-ND	Logic Isolator 3.5kV, 2:3 I/O	22-Dip	73.61	68.70	63.80
		Multiplexer				
7705201EX	7705201EX-ND	Mux Analog 8-Ch.	16-CDip	16.33	14.70	13.04
AD7501JN	AD7501JN-ND	Mux Analog 8-Ch.	16-Dip	9.86	8.88	7.88
AD7501KN	AD7501KN-ND	Mux Analog 8-Ch.	16-Dip	10.33	9.30	8.25
AD7502JN	AD7502JN-ND	Mux Analog Dual 4-Ch.	16-Dip	9.86	8.88	7.88
AD7503JN	AD7503JN-ND	Mux Analog 8-Ch.	16-Dip	9.86	8.88	7.88
AD7503JNZ	AD7503JNZ-ND	Mux Analog 8-Ch.* **NEW!**	16-Dip	9.86	8.88	7.88
AD7503KN	AD7503KN-ND	Mux Analog 8-Ch.	16-Dip	10.33	9.30	8.25
AD7503KNZ	AD7503KNZ-ND	Mux Analog 8-Ch.* **NEW!**	16-Dip	10.33	9.30	8.25
AD7506JN	AD7506JN-ND	Mux Analog 16-Ch.	28-Dip	16.32	15.24	14.15
AD7506KN	AD7506KN-ND	Mux Analog 16-Ch.	28-Dip	17.03	15.89	14.76
AD7506KNZ	AD7506KNZ-ND	Mux Analog 16-Ch.* **NEW!**	28-Dip	17.03	15.89	14.76
AD8170AR	AD8170AR-ND	Mux with Amp Buffered	8-SOIC	5.00	4.00	3.11
AD8174AN	AD8174AN-ND	Mux with Amp Buffered	14-Dip	6.86	5.49	4.64
AD8174AR	AD8174AR-ND	Mux with Amp Buffered	14-SOIC	6.86	5.49	4.64
AD8180AR	AD8180AR-ND	Mux Switching 2:1	8-SOIC	4.30	3.44	2.68
AD8182AR	AD8182AR-ND	Mux Switching Dual 2:1	14-SOIC	5.44	4.36	3.68
AD8182ARZ	AD8182ARZ-ND	Mux Switching Dual 2:1	14-SOIC	5.44	4.36	3.68
AD8183ARU	AD8183ARU-ND	Mux Switching Triple	24-TSSOP	6.32	5.06	4.27
AD8184AR	AD8184AR-ND	Video Mux 4:1, 700MHz	14-SOIC	5.02	4.02	3.13
AD8184AR-REEL7	AD8184AR-REEL7CT-ND	Video Mux 4:1, 700MHz	14-SOIC	5.02	4.02	3.13
AD8184AR-REEL7	AD8184AR-REEL7TR-ND	Video Mux 4:1, 700MHz	14-SOIC		2843.00/1,000	
AD8185ARU	AD8185ARU-ND	Triple Switching Mux	24-TSSOP	6.32	5.06	4.27
AD8186ARU	AD8186ARU-ND	Triple Mux 2:1, 480MHz	24-TSSOP	6.10	4.88	4.12
AD8187ARU	AD8187ARU-ND	Triple Mux 2:1, 480MHz	24-TSSOP	6.10	4.88	4.12
ADG406BN	ADG406BN-ND	Mux 16-Ch. High Performance	28-Dip	8.43	7.59	6.73
ADG406BP	ADG406BP-ND	Mux 16-Ch. High Performance	28-PLCC	9.00	8.10	7.19
ADG406BP-REEL	ADG406BP-REELCT-ND	Mux 16-Ch. High Performance	28-PLCC	9.00	8.10	7.19
ADG406BP-REEL	ADG406BP-REELTR-ND	Mux 16-Ch. High Performance	28-PLCC		5062.50/750	
ADG407BN	ADG407BN-ND	Mux Analog 8-Ch. High Performance	28-Dip	9.06	8.16	7.24
ADG407BP	ADG407BP-ND	Mux Analog 8-Ch. High Performance	28-PLCC	9.68	8.72	7.73
ADG408BN	ADG408BN-ND	Mux Analog 8-Ch. High Performance	16-Dip	5.27	4.22	3.28
ADG408BR	ADG408BR-ND	Mux Analog 8-Ch. High Performance	16-SOIC	5.27	4.22	3.28
ADG408BRU	ADG408BRU-ND	Mux 8-Ch. High Performance	16-TSSOP	5.27	4.22	3.28
ADG409BN	ADG409BN-ND	Mux Dual 4-Ch. High Performance	16-Dip	5.27	4.22	3.28
ADG409BR	ADG409BR-ND	Mux Dual 4-Ch. High Performance	16-SOIC	5.27	4.22	3.28
ADG426BRS	ADG426BRS-ND	Mux Analog 16-Ch. High Perf.	28-SSOP	10.51	9.47	8.40
ADG428BP	ADG428BP-ND	Mux Analog 8-Ch. Latch High Perf.	20-PLCC	6.62	5.30	4.47
ADG438FBN	ADG438FBN-ND	Mux Analog 8-Ch. High Performance	16-Dip	8.56	6.85	5.78
ADG438FBR	ADG438FBR-ND	Mux Analog 8-Ch. High Perf.	16-SOIC	8.56	6.85	5.78
ADG439FBR	ADG439FBR-ND	Mux Analog 4-Ch. High Perf.	16-SOIC	8.56	6.85	5.78
ADG467BR	ADG467BR-ND	Channel Protector Octal	18-SOIC	5.33	4.27	3.32
ADG467BRS	ADG467BRS-ND	Channel Protector Octal	20-SSOP	5.33	4.27	3.32
ADG506AKN	ADG506AKN-ND	Mux Analog Single 16-Ch.	28-Dip	9.11	8.21	7.28
ADG506AKP	ADG506AKP-ND	Mux Analog Single 16-Ch.	28-PLCC	10.55	9.50	8.42
ADG506AKR	ADG506AKR-ND	Mux Analog Single 16-Ch.	28-SOIC	9.11	8.21	7.28
ADG507AKN	ADG507AKN-ND	Mux Analog Dual 8-Ch.	28-Dip	9.10	8.19	7.27
ADG507AKP	ADG507AKP-ND	Mux Analog Dual 8-Ch.	28-PLCC	10.55	9.50	8.42
ADG507AKR	ADG507AKR-ND	Mux Analog Dual 8-Ch.	28-SOIC	9.11	8.21	7.28
ADG507ATQ	ADG507ATQ-ND	Mux Analog Dual 8-Ch.	28-CDip	22.28	20.79	19.31
ADG508AKN	ADG508AKN-ND	Mux Analog Single 8-Ch.	16-Dip	5.10	4.08	3.45
ADG508AKP	ADG508AKP-ND	Mux Analog Single 8-Ch.	20-PLCC	5.54	4.44	3.74
ADG508AKR	ADG508AKR-ND	Mux Analog Single 8-Ch.	16-SOIC	5.10	4.08	3.45
ADG508AKR-REEL7	ADG508AKR-REEL7CT-ND	Mux Analog Single 8-Ch.	16-SOIC	5.10	4.08	3.45
ADG508AKR-REEL7	ADG508AKR-REEL7TR-ND	Mux Analog Single 8-Ch.	16-SOIC		3188.00/1,000	
ADG508AKRZ	ADG508AKRZ-ND	Mux Analog Single 8-Ch.	16-SOIC	5.10	4.08	3.45
ADG508ATQ	ADG508ATQ-ND	Mux Analog Single 8-Ch.	16-CDip	11.73	10.56	9.37
ADG508FBN	ADG508FBN-ND	Mux Single 8-Ch. Fault-Protected	16-Dip	6.62	5.30	4.47
ADG508FBRN	ADG508FBRN-ND	Mux Single 8-Ch. Fault-Protected	16-SOIC	6.62	5.30	4.47
ADG509AKN	ADG509AKN-ND	Mux Analog Dual 4-Ch.	16-Dip	4.86	3.89	3.03
ADG509AKP	ADG509AKP-ND	Mux Analog Dual 4-Ch.	20-PLCC	5.27	4.22	3.28
ADG509AKR	ADG509AKR-ND	Mux Analog Dual 4-Ch.	16-SOIC	4.86	3.89	3.03
ADG509FBN	ADG509FBN-ND	Mux Analog Dual 4-Ch.	16-Dip	6.62	5.30	4.47
ADG509FBRN	ADG509FBRN-ND	Mux Analog Dual 4-Ch. Fault-Protected	16-SOIC	6.62	5.30	4.47
ADG526AKN	ADG526AKN-ND	Mux Analog Single 16-Ch.	28-Dip	9.06	8.16	7.24
ADG526AKP	ADG526AKP-ND	Mux Analog Single 16-Ch.	28-PLCC	9.51	8.57	7.60
ADG526AKR	ADG526AKR-ND	Mux Analog Single 16-Ch.	28-SOIC	9.06	8.16	7.24
ADG527AKN	ADG527AKN-ND	Mux Analog Dual 8-Ch.	28-Dip	8.71	7.85	6.96
ADG527AKR	ADG527AKR-ND	Mux Analog Dual 8-Ch.	28-SOIC	8.71	7.85	6.96
ADG528AKN	ADG528AKN-ND	Mux Analog 8-Ch.	28-Dip	6.58	5.27	4.45
ADG528AKP	ADG528AKP-ND	Mux Analog 8-Ch.	20-PLCC	6.88	5.51	4.65
ADG528FBP	ADG528FBP-ND	Mux Analog 8-Ch. Fault-Protected	20-PLCC	7.80	6.24	5.27
ADG529AKN	ADG529AKN-ND	Mux Analog Dual 4-Ch.	18-Dip	6.58	5.27	4.45
ADG604YRU	ADG604YRU-ND	Mux 4-Ch., 2.7/5.5V	14-TSSOP	4.10	3.28	2.55
ADG608BN	ADG608BN-ND	Mux 8-Ch., 5/3V High Perf.	16-Dip	5.18	4.14	3.22
ADG608BR	ADG608BR-ND	Mux 8-Ch., 5/3V High Perf.	16-SOIC	5.18	4.14	3.22
ADG608BRU	ADG608BRU-ND	Mux 8-Ch., 5/3V High Perf.	16-TSSOP	5.18	4.14	3.22
ADG609BN	ADG609BN-ND	Mux Diff. 4-Ch., 5/3V Precision	16-Dip	5.18	4.14	3.22
ADG609BR	ADG609BR-ND	Mux Diff. 4-Ch., 5/3V Precision	16-SOIC	5.18	4.14	3.22
ADG609BRU	ADG609BRU-ND	Mux Diff. 4-Ch., 5/3V Precision	16-TSSOP	5.18	4.14	3.22
ADG658YRU	ADG658YRU-ND	Mux Single 8-Ch., 3/5V	16-TSSOP	2.25	1.80	1.40
ADG659YRU	ADG659YRU-ND	Mux Dual 8-Ch., 3/5V	16-TSSOP	2.25	1.80	1.40
ADG704BRM	ADG704BRM-ND	Mux 4-Ch., 1.8/5.5V	10-MSOP	2.43	1.95	1.52
ADG704BRM-REEL7	ADG704BRM-REEL7CT-ND	Mux 4-Ch., 1.8/5.5V	10-MSOP	2.43	1.95	1.52
ADG704BRM-REEL7	ADG704BRM-REEL7TR-ND	Mux 4-Ch., 1.8/5.5V	10-MSOP		1377.00/1,000	
ADG706BRU	ADG706BRU-ND	Mux 16-Ch., 1.8/5.5V	28-TSSOP	6.22	4.98	4.20
ADG706BRU-REEL7	ADG706BRU-REEL7CT-ND	Mux 16-Ch., 1.8/5.5V	28-TSSOP	6.22	4.98	4.20
ADG706BRU-REEL7	ADG706BRU-REEL7TR-ND	Mux 16-Ch., 1.8/5.5V	28-TSSOP		3888.00/1,000	
ADG708BRU	ADG708BRU-ND	Mux Single 8-Ch., 1.8/5.5V	16-TSSOP	3.42	2.74	2.13
ADG709BRU	ADG709BRU-ND	Mux Dual 4-Ch., 1.8/5.5V	16-TSSOP	3.42	2.74	2.13
ADG709BRU-REEL7	ADG709BRU-REEL7CT-ND	Mux Dual 4-Ch., 1.8/5.5V	16-TSSOP	3.42	2.74	2.13
ADG709BRU-REEL7	ADG709BRU-REEL7TR-ND	Mux Dual 4-Ch., 1.8/5.5V	16-TSSOP		1938.00/1,000	
ADG725BSU	ADG725BSU-ND	Mux SPI 16-Ch., 1.8/5.5V	48-TQFP	9.33	8.40	7.45
ADG726BSU	ADG726BSU-ND	Mux Differential 16-Ch., 1.8/5.5V	48-TQFP	9.16	8.25	7.32
ADG731BSU	ADG731BSU-ND	Mux SPI 32-Ch., 1.8/5.5V	48-TQFP	9.33	8.40	7.45

* Lead Free/RoHS Compliant

(Continued)

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

ANALOG DEVICES — INTERFACE (Continued)

Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
ADG732BSU	ADG732BSU-ND	Mux Single 32-Ch., 1.8/5.5V	48-TQFP	9.16	8.25	7.32
ADG738BRU	ADG738BRU-ND	Mux SPI 8-Ch., 2.7/5.5V	16-TSSOP	4.39	3.51	2.73
ADG759BCP	ADG759BCP-ND	Mux Dual 4-Ch., 1.8/5.5V	20-LFCSP	3.42	2.74	2.13
ADG774BR	ADG774BR-ND	Mux Quad 200MHz Low Volt.	16-SOIC	4.19	3.35	2.61
MUX08EP	MUX08EP-ND	Mux Analog JFET 8-Ch.	16-Dip	9.46	8.52	7.56
MUX24FP	MUX24FP-ND	Mux Analog Dual JFET 4-Ch.	16-Dip	9.76	7.81	6.59
SMP08FP	SMP08FP-ND	Mux Octal Sample-Hold	16-Dip	12.59	11.34	10.06
		Multiplier/Divider				
AD532JD	AD532JD-ND	Trimmed Multiplier/Divider	14-Dip	29.52	27.56	25.59
AD532JH	AD532JH-ND	Trimmed Multiplier/Divider	TO-100	22.80	21.28	19.76
AD532KD	AD532KD-ND	Trimmed Multiplier/Divider	14-Dip	53.67	50.10	46.52
AD532SD	AD532SD-ND	Trimmed Multiplier/Divider	14-Dip	80.49	75.13	69.76
AD532SH	AD532SH-ND	Trimmed Multiplier/Divider	TO-100	65.07	60.74	56.40
AD534JD	AD534JD-ND	Trimmed Multiplier/Divider	14-Dip	29.52	27.56	25.59
AD534JH	AD534JH-ND	Trimmed Multiplier/Divider	TO-100	22.74	21.23	19.71
AD534KD	AD534KD-ND	Trimmed Multiplier/Divider	14-CDip	42.93	40.07	37.21
AD534KH	AD534KH-ND	Trimmed Multiplier/Divider	TO-100	49.37	46.08	42.79
AD534LD	AD534LD-ND	Trimmed Multiplier/Divider	14-CDip	88.55	82.65	76.74
AD534LH	AD534LH-ND	Trimmed Multiplier/Divider	TO-100	72.99	68.13	63.26
AD534SH	AD534SH-ND	Trimmed Multiplier/Divider	TO-100	93.51	87.28	81.05
AD534TD	AD534TD-ND	Trimmed Multiplier/Divider	14-Dip	142.22	132.74	123.26
AD538AD	AD538AD-ND	Multiplier/Divider Real-Time ACU	18-CDip	39.54	36.91	34.27
AD538BD	AD538BD-ND	Multiplier/Divider Real-Time ACU	18-CDip	50.19	46.85	43.50
AD538SD	AD538SD-ND	Multiplier/Divider Real-Time ACU	18-CDip	90.15	84.14	78.13
AD632AD	AD632AD-ND	Precision Multiplier Pretrimmable	TO-116	33.54	31.31	29.07
AD734AN	AD734AN-ND	Multiplier/Divider 4-Quadrant	14-Dip	17.97	16.78	15.58
AD734ANZ	AD734ANZ-ND	Multiplier/Divider 4-Quadrant* **NEW!**	14-Dip	17.97	16.78	15.58
AD734AQ	AD734AQ-ND	Multiplier/Divider 4-Quadrant	14-Dip	20.69	19.31	17.93
AD734BN	AD734BN-ND	Multiplier/Divider 4-Quadrant	14-Dip	30.39	28.37	26.34
AD734BNZ	AD734BNZ-ND	Multiplier/Divider 4-Quadrant* **NEW!**	14-Dip	30.39	28.37	26.34
AD834AQ	AD834AQ-ND	Multiplier 4-Quadrant	8-CDip	42.51	39.68	36.85
AD834AR	AD834AR-ND	Multiplier 4-Quadrant	8-SOIC	24.20	22.59	20.97
AD834ARZ	AD834ARZ-ND	Multiplier 4-Quadrant* **NEW!**	8-SOIC	24.20	22.59	20.97
AD834JN	AD834JN-ND	Multiplier 4-Quadrant	8-Dip	23.61	22.04	20.47
AD834JR	AD834JR-ND	Multiplier 4-Quadrant	8-SOIC	22.71	21.20	19.69
AD835AN	AD835AN-ND	Multiplier 4-Quadrant	8-Dip	14.11	12.71	11.27
AD835AR	AD835AR-ND	Multiplier 4-Quadrant	8-SOIC	14.11	12.71	11.27
AD835AR-REEL7	AD835AR-REEL7CT-ND	Multiplier 4-Quadrant	8-SOIC	14.11	12.71	11.27
AD835AR-REEL7	AD835AR-REEL7TR-ND	Multiplier 4-Quadrant	8-SOIC		7941.00/750	
MLT04GP	MLT04GP-ND	Multiplier 4-Quadrant	18-Dip	16.97	15.84	14.71
MLT04GS	MLT04GS-ND	Multiplier 4-Quadrant	18-SOIC	16.97	15.84	14.71
		Transmitter/Receiver				
AD7306AR	AD7306AR-ND	TX/RX RS-232/RS-422, 5V	24-SOIC	11.46	10.32	9.16
AD7306JN	AD7306JN-ND	TX/RX RS-232/RS-422, 5V	24-Dip	11.31	10.19	9.04
ADM101EARM	ADM101EARM-ND	TX/RX RS-232 Single 5V	10-MSOP	2.38	1.90	1.43
ADM202EAN	ADM202EAN-ND	TX/RX RS-232, 5V, 15kV	16-Dip	1.32	1.10	.88
ADM202EARN	ADM202EARN-ND	TX/RX RS-232, 5V, 15kV	16-SOIC	1.32	1.10	.88
ADM202EARN-REEL7	ADM202EARNREEL7TR-ND	TX/RX RS-232, 5V, 15kV	16-SOIC		585.00/1,000	
ADM202EARN-REEL	ADM202EARN-REELTR-ND	TX/RX RS-232, 5V, 15kV	16-SOIC		1430.00/2,500	
ADM202EARU	ADM202EARU-ND	TX/RX RS-232, 5V, 15kV	16-TSSOP	1.32	1.10	.88
ADM202EARU-REEL7	ADM202EARUREEL7TR-ND	TX/RX RS-232, 5V, 15kV	16-TSSOP		585.00/1,000	
ADM202EARW	ADM202EARW-ND	TX/RX RS-232, 5V, 15kV	16-SOIC	1.32	1.10	.88
ADM202EARW-REEL	ADM202EARW-REELTR-ND	TX/RX RS-232, 5V, 15kV	16-SOIC		585.00/1,000	
ADM202JN	ADM202JN-ND	TX/RX RS-232, 5V, 15kV	16-Dip	1.23	1.03	.82
ADM202JRN	ADM202JRN-ND	TX/RX RS-232, 5V, 15kV	16-SOIC	1.23	1.03	.82
ADM202JRN-REEL7	ADM202JRN-REEL7TR-ND	TX/RX RS-232, 5V, 15kV	16-SOIC		545.00/1,000	
ADM202JRW	ADM202JRW-ND	TX/RX RS-232, 5V, 15kV	16-SOIC	1.23	1.03	.82
ADM202JRW-REEL	ADM202JRW-REELCT-ND	TX/RX RS-232, 5V, 15kV	16-SOIC	1.03	.82	.62
ADM202JRW-REEL	ADM202JRW-REELTR-ND	TX/RX RS-232, 5V, 15kV	16-SOIC		545.00/1,000	
ADM206EAR	ADM206EAR-ND	TX/RX RS-232, 5V Shutdown/Enable	24-SOIC	3.49	2.79	2.17
ADM207EAR	ADM207EAR-ND	TX/RX RS-232, 5V, 15kV	24-SOIC	2.10	1.68	1.26
ADM208AR	ADM208AR-ND	TX/RX RS-232, 5V, 0.1uF	24-SOIC	2.25	1.80	1.35
ADM208EAN	ADM208EAN-ND	TX/RX RS-232, 5V, 0.1uF	24-Dip	2.25	1.80	1.35
ADM208EAR	ADM208EAR-ND	TX/RX RS-232, 5V, 0.1uF	24-SOIC	2.25	1.80	1.35
ADM208EAR-REEL	ADM208EAR-REELCT-ND	TX/RX RS-232, 5V, 0.1uF	24-SOIC	3.29	2.63	2.05
ADM208EAR-REEL	ADM208EAR-REELTR-ND	TX/RX RS-232, 5V, 0.1uF	24-SOIC		1170.00/1,000	
ADM208EARS	ADM208EARS-ND	TX/RX RS-232, 5V, 0.1uF	24-SSOP	2.38	1.90	1.43
ADM211ARS	ADM211ARS-ND	TX/RX RS-232, 5V, 0.1uF	28-SSOP	1.80	1.44	1.08
ADM211ARS-REEL	ADM211ARS-REELCT-ND	TX/RX RS-232, 5V, 0.1uF	28-SSOP	3.29	2.63	2.05
ADM211ARS-REEL	ADM211ARS-REELTR-ND	TX/RX RS-232, 5V, 0.1uF	28-SSOP		1404.00/1,500	
ADM211EAR	ADM211EAR-ND	TX/RX RS-232, 5V, 0.1uF	28-SOIC	1.80	1.44	1.08
ADM211EAR-REEL	ADM211EAR-REELCT-ND	TX/RX RS-232, 5V, 0.1uF	28-SOIC	3.29	2.63	2.05
ADM211EAR-REEL	ADM211EAR-REELTR-ND	TX/RX RS-232, 5V, 0.1uF	28-SOIC		936.00/1,000	
ADM211EARS	ADM211EARS-ND	TX/RX RS-232, 5V, 0.1uF	28-SSOP	1.80	1.44	1.08
ADM211EARS-REEL	ADM211EARS-REELCT-ND	TX/RX RS-232, 5V, 0.1uF	28-SSOP	3.29	2.63	2.05
ADM211EARS-REEL	ADM211EARS-REELTR-ND	TX/RX RS-232, 5V, 0.1uF	28-SSOP		1404.00/1,500	
ADM213EAR	ADM213EAR-ND	TX/RX RS-232, 5V, 0.1uF	28-SOIC	1.80	1.44	1.08
ADM213EARS	ADM213EARS-ND	TX/RX RS-232, 5V, 0.1uF	28-SSOP	1.80	1.44	1.08
ADM213EARS-REEL	ADM213EARS-REELCT-ND	TX/RX RS-232, 5V, 0.1uF	28-SSOP	3.29	2.63	2.05
ADM213EARS-REEL	ADM213EARS-REELTR-ND	TX/RX RS-232, 5V, 0.1uF	28-SSOP		1404.00/1,500	
ADM213EARU	ADM213EARU-ND	TX/RX RS-232, 5V, 0.1uF	28-TSSOP	1.80	1.44	1.08
ADM222AN	ADM222AN-ND	TX/RX RS-232, 5V with Shutdown	18-Dip	1.85	1.48	1.11
ADM222AR	ADM222AR-ND	TX/RX RS-232, 5V with Shutdown	18-SOIC	1.85	1.48	1.11
ADM231LJN	ADM231LJN-ND	TX/RX RS-232, Dual 5V	14-Dip	1.45	1.16	.87
ADM232AAN	ADM232AAN-ND	TX/RX RS-232, Dual 5V	16-Dip	1.32	1.10	.88
ADM232AARN	ADM232AARN-ND	TX/RX RS-232, Dual 5V	16-SOIC	1.32	1.10	.88
ADM232AARN-REEL	ADM232AARN-REELCT-ND	TX/RX RS-232, Dual 5V	16-SOIC	2.25	1.80	1.40
ADM232AARN-REEL	ADM232AARN-REELTR-ND	TX/RX RS-232, Dual 5V	16-SOIC		1430.00/2,500	
ADM232AARW	ADM232AARW-ND	TX/RX RS-232, Dual 5V	16-SOIC	1.32	1.10	.88
ADM232AARW-REEL	ADM232AARW-REELCT-ND	TXRX RS-232, Dual 5V	16-SOIC	2.25	1.80	1.40
ADM232AARW-REEL	ADM232AARW-REELTR-ND	TXRX RS-232, Dual 5V	16-SOIC		585.00/1,000	
ADM232LAN	ADM232LAN-ND	TX/RX Dual RS-232, 5V LP	16-Dip	1.26	1.05	.84
ADM232LAR	ADM232LAR-ND	TX/RX Dual RS-232, 5V LP	16-SOIC	1.26	1.05	.84
ADM232LAR-REEL	ADM232LAR-REELCT-ND	TXRX RS-232, Dual 5V	16-SOIC	1.26	1.05	.84
ADM232LAR-REEL	ADM232LAR-REELTR-ND	TXRX RS-232, Dual 5V	16-SOIC		559.00/1,000	
ADM232LJN	ADM232LJN-ND	TX/RX Dual RS-232, 5V LP	16-Dip	1.38	1.15	.92
ADM232LJR	ADM232LJR-ND	TX/RX Dual RS-232, 5V LP	16-SOIC	1.32	1.10	.88
ADM233LAN	ADM233LAN-ND	TX/RX Dual RS-232, 5V LP	20-Dip	4.10	3.28	2.55
ADM233LJN	ADM233LJN-ND	TX/RX Dual RS-232, 5V LP	20-Dip	4.10	3.28	2.55
ADM238LJN	ADM238LJN-ND	TX/RX Quad RS-232, 5V LP	24-Dip	2.13	1.70	1.28
ADM238LJR	ADM238LJR-ND	TX/RX Quad RS-232, 5V LP	24-SOIC	2.03	1.62	1.22
ADM242AN	ADM242AN-ND	TX/RX RS-232 with Enable and SD	18-Dip	1.80	1.44	1.08
ADM242AR	ADM242AR-ND	TX/RX RS-232 with Enable and SD	18-SOIC	1.73	1.38	1.04
ADM242AR-REEL	ADM242AR-REELTR-ND	TX/RX RS-232 with Enable and SD	18-SOIC		897.00/1,000	
ADM483EAN	ADM483EAN-ND	TX/RX RS-485 Low-Slew 5V	8-Dip	1.90	1.52	1.14
ADM483EAR	ADM483EAR-ND	TX/RX RS-485 Low-Slew 5V	8-SOIC	1.90	1.52	1.14
ADM483EAR-REEL	ADM483EAR-REELTR-ND	TX/RX RS-485 Low-Slew 5V	8-SOIC		2432.50/2,500	
ADM485AN	ADM485AN-ND	TX/RX Single RS-485, 5V	8-Dip	1.28	1.02	.77
ADM485AR	ADM485AR-ND	TX/RX Single RS-485, 5V	8-SOIC	1.38	1.15	.92
ADM485AR-REEL	ADM485AR-REELTR-ND	TX/RX Single RS-485, 5V	8-SOIC		1495.00/2,500	
ADM485JN	ADM485JN-ND	TX/RX Single RS-485, 5V	8-Dip	1.38	1.15	.92
ADM485JR	ADM485JR-ND	TX/RX Single RS-485, 5V	8-SOIC	1.38	1.15	.92
ADM485JR-REEL	ADM485JR-REELTR-ND	TX/RX Single RS-485, 5V	8-SOIC		1495.00/2,500	
ADM488AN	ADM488AN-ND	TX/RX RS-485 Low-Slew	8-Dip	1.83	1.46	1.10
ADM488AR	ADM488AR-ND	TX/RX RS-485 Low-Slew	8-SOIC	1.68	1.34	1.01
ADM489AN	ADM489AN-ND	TX/RX RS-485 Low-Slew/Enable	14-Dip	1.98	1.58	1.19
ADM489AR	ADM489AR-ND	TX/RX RS-485 Low-Slew/Enable	14-SOIC	1.85	1.48	1.11
ADM1385ARS	ADM1385ARS-ND	TX/RX RS-232 High Speed 3.3V	20-SSOP	3.02	2.42	1.88
ADM1485AR	ADM1485AR-ND	TX/RX RS-485 High Speed 5V	8-SOIC	2.48	1.98	1.54
ADM1485JN	ADM1485JN-ND	TX/RX RS-485 High Speed 5V	8-Dip	2.38	1.90	1.43
ADM1485JR	ADM1485JR-ND	TX/RX RS-485 High Speed 5V	8-SOIC	2.13	1.70	1.28
ADM1486AR	ADM1486AR-ND	TX/RX RS-485 PROFIBUS 5V	8-SOIC	5.09	4.07	3.17
ADM2209EARU	ADM2209EARU-ND	TX/RX 6/10 RS-232, 12V	38-TSSOP	4.97	3.98	3.10
ADM2486BRW	ADM2486BRW-ND	TX/RX RS-485 High Speed	16-SOIC	9.16	8.25	7.32
ADM3202AN	ADM3202AN-ND	TX/RX Dual RS-232, 3.3V	16-Dip	2.54	2.04	1.59
ADM3202ARN	ADM3202ARN-ND	TX/RX Dual RS-232, 3.3V	16-SOIC	1.50	1.20	.90
ADM3202ARN-REEL7	ADM3202ARNREEL7CT-ND	TX/RX Dual RS-232, 3.3V	16-SOIC	2.54	2.04	1.59
ADM3202ARN-REEL7	ADM3202ARNREEL7TR-ND	TX/RX Dual RS-232, 3.3V	16-SOIC		780.00/1,000	
ADM3202ARU	ADM3202ARU-ND	TX/RX Dual RS-232, 3.3V	16-TSSOP	1.50	1.20	.90
ADM3202ARU-REEL	ADM3202ARU-REELCT-ND	TX/RX Dual RS-232, 3.3V	16-TSSOP	2.54	2.04	1.59
ADM3202ARU-REEL	ADM3202ARU-REELTR-ND	TX/RX Dual RS-232, 3.3V	16-TSSOP		1920.00/2,500	
ADM3202ARW	ADM3202ARW-ND	TX/RX Dual RS-232, 3.3V	16-SOIC	1.50	1.20	.90
ADM3222ARS	ADM3222ARS-ND	TX/RX RS-232, 3.3V w/Shutdown	20-SSOP	1.63	1.30	.98
ADM3222ARU	ADM3222ARU-ND	TX/RX RS-232, 3.3V w/Shutdown	20-TSSOP	1.63	1.30	.98
ADM3222ARW	ADM3222ARW-ND	TX/RX RS-232, 3.3V w/Shutdown	18-SOIC	1.63	1.30	.98
ADM3310EARU	ADM3310EARU-ND	TX/RX RS-232, 3-5, 2.7V	28-TSSOP	3.20	2.56	1.99
ADM3311EARS	ADM3311EARS-ND	TX/RX RS-232, 3-5, 2.7V	28-SSOP	1.88	1.50	1.13
ADM3311EARS-REEL	ADM3311EARSREEL7CT-ND	TX/RX RS-232, 3-5, 2.7V	28-SSOP	3.15	2.52	1.96
ADM3311EARS-REEL	ADM3311EARSREEL7TR-ND	TX/RX RS-232, 3-5, 2.7V	28-SSOP		975.00/1,000	
ADM3311EARU	ADM3311EARU-ND	TX/RX RS-232, 2.7/3.6V	28-TSSOP	1.88	1.50	1.13
ADM3311EARU-REEL7	ADM3311EARU-RL7CT-ND	TX/RX RS-232, 3-5, 2.7V	28-TSSOP	3.15	2.52	1.96
ADM3311EARU-REEL7	ADM3311EARU-RL7TR-ND	TX/RX RS-232, 3-5, 2.7V	28-TSSOP		975.00/1,000	
ADM3315EARU	ADM3315EARU-ND	TX/RX RS-232, 3-5, 2.7V	24-TSSOP	3.20	2.56	1.99
ADM3485EAR	ADM3485EAR-ND	TX/RX RS-485 HS 3.3V	8-SOIC	2.20	1.76	1.32
ADM3485EAR-REEL7	ADM3485EARREEL7CT-ND	TX/RX RS-485 HS 3.3V	8-SOIC	2.75	2.20	1.71
ADM3485EAR-REEL7	ADM3485EARREEL7TR-ND	TX/RX RS-485 HS 3.3V	8-SOIC		1157.00/1,000	
ADM3491AR	ADM3491AR-ND	TX/RX RS-485 HS Full Duplex 3.3V	14-SOIC	1.98	1.58	1.19
ADM3491ARU	ADM3491ARU-ND	TX/RX RS-485 HS Full Duplex 3.3V	16-TSSOP	1.98	1.58	1.19
ADM5170JP	ADM5170JP-ND	TX/RX RS232/423 Octal	28-PLCC	5.14	4.12	3.47
ADM5180JP	ADM5180JP-ND	TX/RX RS232/423 Octal	28-PLCC	5.14	4.12	3.47

ANALOG DEVICES — MOTION/MOTOR CONTROL

Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
1B31AN	1B31AN-ND	Signal Condition Strain Gage	28-Dip	210.06	196.06	182.06
AC1059	AC1059-ND	Socket for Model AD210 IC	—	22.23	20.75	19.27
AC2626L4	AC2626L4-ND	Probe Temp 4" General Purpose	—	143.66	134.08	124.51
AD2S80ABD	AD2S80ABD-ND	R/D Converter Tracking	40-CDip	205.20	191.52	177.84
AD2S80AJD	AD2S80AJD-ND	R/D Converter Tracking	40-CDip	133.65	124.74	115.83
AD2S80ALD	AD2S80ALD-ND	R/D Converter Tracking	40-CDip	267.30	249.48	231.66
AD2S80ASD	AD2S80ASD-ND	R/D Converter Tracking	40-CDip	368.28	343.73	319.18
AD2S81AJD	AD2S81AJD-ND	R/D Converter Tracking	28-CDip	126.00	117.60	109.20
AD2S82AHP	AD2S82AHP-ND	R/D Converter Tracking	44-PLCC	77.40	72.24	67.08
AD2S82AJP	AD2S82AJP-ND	R/D Converter Tracking	44-PLCC	153.98	143.71	133.45
AD2S82AKP	AD2S82AKP-ND	R/D Converter Tracking	44-PLCC	187.82	175.30	162.78
AD2S83AP	AD2S83AP-ND	R/D Converter Tracking	44-PLCC	126.72	118.28	109.83
AD2S90AP	AD2S90AP-ND	R/D Converter 12-Bit	20-PLCC	37.62	35.12	32.61
AD2S90-EB	AD2S90-EB-ND	Evaluation Board for AD2S90	—	108.00	—	—
AD2S99AP	AD2S99AP-ND	Programmable Oscillator	20-PLCC	13.96	12.57	11.15
AD2S1200WST	AD2S1200WST-ND	R/D Conv. Single-Supply w/Oscillator	44-LQFP	21.00	19.60	18.20
AD2S1200WSTZ	AD2S1200WSTZ-ND	R/D Conv. Single-Supply w/Oscillator* **NEW!**	44-LQFP	21.00	19.60	18.20
EVAL-AD2S1200CB	EVAL-AD2S1200CB-ND	Evaluation Board for AD2S1200 **NEW!**	—	149.63	—	—
AD598AD	AD598AD-ND	LVDT Signal Conditioning	20-Dip	46.37	43.28	40.19
AD598JR	AD598JR-ND	LVDT Signal Conditioning	20-SOIC	30.89	28.83	26.77
AD698AP	AD698AP-ND	LVDT Signal Conditioning	28-PLCC	26.91	25.12	23.33
AD698SQ	AD698SQ-ND	LVDT Signal Conditioning	24-Dip	80.01	74.68	69.35

ANALOG DEVICES — POWER MANAGEMENT

Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
		DC-to-DC				
AD8240YRM	AD8240YRM-ND	LED Driver/Monitor	8-MSOP	2.48	1.99	1.68
ADM660AN	ADM660AN-ND	Converter Switch Capacitor	8-Dip	1.38	1.10	.83
ADM660AR	ADM660AR-ND	Converter Switch Capacitor	8-SOIC	1.33	1.06	.80
ADP3041ARU-REEL	ADP3041ARU-REELCT-ND	TFT LCD Panel Power Module	20-TSSOP	4.64	3.71	2.89
ADP3041ARU-REEL	ADP3041ARU-REELTR-ND	TFT LCD Panel Power Module	20-TSSOP		6490.00/2,500	
ADP3162JRZ-REEL7	ADP3162JRZREEL7CT-ND	5-Bit Prog. 2-Phase Sync. Buck Controller	16-SOIC	4.03	3.23	2.51
ADP3162JRZ-REEL7	ADP3162JRZREEL7TR-ND	5-Bit Prog. 2-Phase Sync. Buck Controller	16-SOIC		2282.00/1,000	
ADP3163JRUZ-REEL	ADP3163JRUZREELCT-ND	5-Bit Prog. 2/3-Phase Sync. Buck Controller	20-TSSOP	4.05	3.24	2.52
ADP3163JRUZ-REEL	ADP3163JRUZREELTR-ND	5-Bit Prog. 2/3-Phase Sync. Buck Controller	20-TSSOP		5670.00/2,500	
ADP3164JRUZ-REEL7	ADP3164JRUZREELCT-ND	5-Bit Prog. 4-Phase Sync. Buck Controller	20-TSSOP	3.65	2.92	2.27
ADP3164JRUZ-REEL7	ADP3164JRUZREELTR-ND	5-Bit Prog. 4-Phase Sync. Buck Controller	20-TSSOP		2066.00/1,000	
ADP3171JR	ADP3171JR-ND	Controller Buck Dual Regulator	14-SOIC	3.04	2.43	1.89
ADP3178JRZ-REEL7	ADP3178JRZREEL7CT-ND	4-Bit Prog. Sync. Buck Controller	16-SOIC	3.13	2.51	1.95
ADP3178JRZ-REEL7	ADP3178JRZREEL7TR-ND	4-Bit Prog. Sync. Buck Controller	16-SOIC		1772.00/1,000	
ADP3605AR	ADP3605AR-ND	Inverted Volt 120mA Switch Cap.	8-SOIC	3.65	2.92	2.27
ADP3820ARTZ-4.2RL7	ADP3820ARTZ4.2RCT-ND	4.2V, Lithium-Ion Battery Charger	SOT-23-6	1.95	1.56	1.17

* Lead Free/RoHS Compliant

(Continued)

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
DP3820ARTZ-4.2RL7	ADP3820ARTZ4.2RTR-ND	4.2V, Lithium-Ion Battery Charger	SOT-23-6	2994.00/3,000		
		MOSFET Driver				
DP3414JRZ	ADP3414JRZ-ND	Dual Bootstrapped MOSFET Driver	8-SOIC	2.48	1.98	1.54
DP3415LRMZ-REEL	ADP3415LRMZREELCT-ND	Dual Bootstrapped MOSFET Driver ***NEW!***	10-MSOP	2.48	1.98	1.54
DP3415LRMZ-REEL	ADP3415LRMZREELTR-ND	Dual Bootstrapped MOSFET Driver ***NEW!***	10-MSOP	4158.00/3,000		
DP3418KRZ	ADP3418KRZ-ND	Dual Bootstrapped 12V MOSFET Driver ***NEW!***	8-SOIC	1.50	1.20	.90
DP3419JRM-REEL	ADP3419JRM-REELCT-ND	Dual Bootstrapped, High Voltage MOSFET Driver ***NEW!***	10-MSOP	1.80	1.44	1.08
DP3419JRM-REEL	ADP3419JRM-REELTR-ND	Dual Bootstrapped, High Voltage MOSFET Driver ***NEW!***	10-MSOP	2766.00/3,000		
		Regulators				
DP667AN	ADP667AN-ND	Regulator LDO 5V or Adjustable	8-Dip	3.83	3.06	2.38
DP667AR	ADP667AR-ND	Regulator LDO 5V or Adjustable	8-SOIC	3.67	2.94	2.29
DP1111AN	ADP1111AN-ND	Regulator Switching Adj. Volt.	8-Dip	4.52	3.62	2.82
DP3088ARM-REEL7	ADP3088ARMREEL7CT-ND	Buck Regulator 1MHz, 750mA	8-MSOP	4.55	3.64	2.83
DP3088ARM-REEL7	ADP3088ARMREEL7TR-ND	Buck Regulator 1MHz, 750mA	8-MSOP	2576.00/1,000		
DP3181JRUZ-REEL	ADP3181JRUZREELCT-ND	Buck Reg. Multiphase Sync. ***NEW!***	28-TSSOP	2.32	1.86	1.45
DP3181JRUZ-REEL	ADP3181JRUZREELTR-ND	Buck Reg. Multiphase Sync. ***NEW!***	28-TSSOP	3245.00/2,500		
DP3300ARTZ-2.7RL7	ADP3300ARTZ2.7RCT-ND	Regulator LDO 2.7V, 50mA	SOT-23-6	1.58	1.26	.95
DP3300ARTZ-2.7RL7	ADP3300ARTZ2.7RTR-ND	Regulator LDO 2.7V, 50mA	SOT-23-6	2418.00/3,000		
DP3300ARTZ-3.3RL7	ADP3300ARTZ3.3RCT-ND	Regulator LDO 3.3V, 50mA	SOT-23-6	1.58	1.26	.95
DP3300ARTZ-3.3RL7	ADP3300ARTZ3.3RTR-ND	Regulator LDO 3.3V, 50mA	SOT-23-6	2418.00/3,000		
DP3301AR-3.3	ADP3301AR-3.3-ND	Regulator LDO 3.3V, 100mA	8-SOIC	2.32	1.86	1.45
DP3303AR-3.3	ADP3303AR-3.3-ND	Regulator LDO 3.3V, 200mA	8-SOIC	2.79	2.24	1.74
DP3303AR-5	ADP3303AR-5-ND	Regulator LDO 5V, 200mA	8-SOIC	2.79	2.24	1.74
DP3330ART3.3-RL7	ADP3330ART3.3R7CT-ND	Regulator LDO 3.3V, 200mA	SOT-23-6	2.20	1.76	1.32
DP3330ART3.3-RL7	ADP3330ART3.3R7TR-ND	Regulator LDO 3.3V, 200mA	SOT-23-6	3378.00/3,000		
DP3331ART-REEL7	ADP3331ART-RL7CT-ND	Regulator LDO Adj. 200mA	SOT-23-6	2.20	1.76	1.32
DP3331ART-REEL7	ADP3331ART-RL7TR-ND	Regulator LDO Adj. 200mA	SOT-23-6	3378.00/3,000		
DP3334ARZ	ADP3334ARZ-ND	Regulator LDO Adj. 500mA	8-SOIC	2.52	2.02	1.57
DP3335ARM-3.3-RL7	ADP3335ARM3.3R7TR-ND	Regulator LDO 3.3V, 500mA	8-MSOP	3.29	2.63	2.05
DP3335ARM-3.3-RL7	ADP3335ARM3.3R7TR-ND	Regulator LDO 3.3V, 500mA	8-MSOP	1862.00/1,000		
DP3336ARM-REEL7	ADP3336ARMREEL7CT-ND	Regulator LDO 500mA, Adj.	8-MSOP	3.29	2.63	2.05
DP3336ARM-REEL7	ADP3336ARMREEL7TR-ND	Regulator LDO 500mA, Adj.	8-MSOP	1862.00/1,000		
DP3338AKC-2.5-RL7	ADP3338AKC2.5R7CT-ND	Regulator LDO 1A Prec. 2.5V	SOT-223	3.33	2.67	2.08
DP3338AKC-2.5-RL7	ADP3338AKC2.5R7TR-ND	Regulator LDO 1A Prec. 2.5V	SOT-223	962.00/500		
DP3338AKC-3.3-RL7	ADP3338AKC3.3R7CT-ND	Regulator LDO 1A Prec. 3.3V	SOT-223	3.33	2.67	2.08
DP3338AKC-3.3-RL7	ADP3338AKC3.3R7TR-ND	Regulator LDO 1A Prec. 3.3V	SOT-223	962.00/500		
DP3338AKC-5-REEL7	ADP3338AKC-5RL7CT-ND	Regulator LDO 1A Prec. 5V	SOT-223	3.33	2.67	2.08
DP3338AKC-5-REEL7	ADP3338AKC-5RL7TR-ND	Regulator LDO 1A Prec. 5V	SOT-223	962.00/500		
DP3339AKC-1.5-RL7	ADP3339AKC1.5RLCT-ND	Regulator LDO 1.5A, 1.5V	SOT-223	3.94	3.15	2.45
DP3339AKC-1.5-RL7	ADP3339AKC1.5RLTR-ND	Regulator LDO 1.5A, 1.5V	SOT-223	1137.50/500		
DP3339AKC-3-RL7	ADP3339AKC-3RL7CT-ND	Regulator LDO 1.5A, 3V	SOT-223	3.94	3.15	2.45
DP3339AKC-3-RL7	ADP3339AKC-3RL7TR-ND	Regulator LDO 1.5A, 3V	SOT-223	1137.50/500		
DP3339AKC-5-REEL7	ADP3339AKC-5RL7CT-ND	Regulator LDO 1.5A, 5V	SOT-223	3.94	3.15	2.45
DP3339AKC-5-REEL7	ADP3339AKC-5RL7TR-ND	Regulator LDO 1.5A, 5V	SOT-223	1137.50/500		
DP3367AR	ADP3367AR-ND	Regulator LDO Adj. 5V	8-SOIC	4.37	3.50	2.72
DP3367ARZ	ADP3367ARZ-ND	Regulator LDO Adj. 5V	8-SOIC	4.37	3.50	2.72
		Voltage Reference				
D580JH	AD580JH-ND	Precision Volt. Ref. 2.5V	TO-52	5.47	4.38	3.41
D580LH	AD580LH-ND	Precision Volt. Ref. 2.5V	TO-52	11.28	10.16	9.01
D580TH	AD580TH-ND	Precision Volt. Ref. 2.5V	TO-52	19.43	18.13	16.84
D581JH	AD581JH-ND	Precision Volt. Ref. 10V	TO-5	7.46	5.97	5.04
D581KH	AD581KH-ND	Precision Volt. Ref. 10V	TO-5	9.75	8.78	7.79
D581LH	AD581LH-ND	Precision Volt. Ref. 10V	TO-5	17.88	16.69	15.50
D581UH	AD581UH-ND	Precision Volt. Ref. 10V	TO-5	39.84	37.19	34.53
D584JH	AD584JH-ND	Precision Volt. Ref. Programmable	TO-99	8.80	7.04	5.94
D584JN	AD584JN-ND	Precision Volt. Ref. Programmable	8-Dip	5.54	4.44	3.74
D584KH	AD584KH-ND	Precision Volt. Ref. Programmable	TO-99	14.48	13.04	11.56
D584KN	AD584KN-ND	Precision Volt. Ref. Programmable	8-Dip	9.06	8.16	7.24
D584LH	AD584LH-ND	Precision Volt. Ref. Programmable	TO-99	21.98	20.51	19.05
D584TH	AD584TH-ND	Precision Volt. Ref. Programmable	TO-99	27.05	25.25	23.44
D586AR	AD586AR-ND	Precision Volt. Ref. 5V	8-SOIC	8.50	7.65	6.79
D586ARZ-REEL	AD586ARZ-REELCT-ND	Precision Volt. Ref. 5V	8-SOIC	8.50	7.65	6.79
D586ARZ-REEL	AD586ARZ-REELTR-ND	Precision Volt. Ref. 5V	8-SOIC	15492.50/2,500		
D586BR	AD586BR-ND	Precision Volt. Ref. 5V	8-SOIC	11.83	10.65	9.45
D586BRZ-REEL	AD586BRZ-REELCT-ND	Precision Volt. Ref. 5V	8-SOIC	11.83	10.65	9.45
D586BRZ-REEL	AD586BRZ-REELTR-ND	Precision Volt. Ref. 5V	8-SOIC	21567.50/2,500		
D586JN	AD586JN-ND	Precision Volt. Ref. 5V	8-Dip	5.82	4.66	3.93
D586JNZ	AD586JNZ-ND	Precision Volt. Ref. 5V* ***NEW!***	8-Dip	5.82	4.66	3.93
D586JR	AD586JR-ND	Precision Volt. Ref. 5V	8-SOIC	6.14	4.92	4.15
D586KN	AD586KN-ND	Precision Volt. Ref. 5V	8-Dip	7.48	5.99	5.05
D586KNZ	AD586KNZ-ND	Precision Volt. Ref. 5V* ***NEW!***	8-Dip	7.48	5.99	5.05
D586KR	AD586KR-ND	Precision Volt. Ref. 5V	8-SOIC	8.12	6.50	5.49
D586KR-REEL7	AD586KR-REEL7CT-ND	Precision Volt. Ref. 5V	8-SOIC	8.12	6.50	5.49
D586KR-REEL7	AD586KR-REEL7TR-ND	Precision Volt. Ref. 5V	8-SOIC	3867.00/750		
D586LN	AD586LN-ND	Precision Volt. Ref. 5V	8-Dip	8.73	7.86	6.97
D586LNZ	AD586LNZ-ND	Precision Volt. Ref. 5V* ***NEW!***	8-Dip	8.73	7.86	6.97
D586LQ	AD586LQ-ND	Precision Volt. Ref. 5V	8-Dip	11.83	10.65	9.45
D586LR	AD586LR-ND	Precision Volt. Ref. 5V	8-SOIC	9.28	8.36	7.41
D586LRZ	AD586LRZ-ND	Precision Volt. Ref. 5V* ***NEW!***	8-SOIC	9.28	8.36	7.41
D586LR-REEL7	AD586LR-REEL7CT-ND	Precision Volt. Ref. 5V	8-SOIC	9.28	8.36	7.41
D586LR-REEL7	AD586LR-REEL7TR-ND	Precision Volt. Ref. 5V	8-SOIC	5222.25/750		
D586MN	AD586MN-ND	Precision Volt. Ref. 5V	8-Dip	10.01	9.02	8.00
D586MNZ	AD586MNZ-ND	Precision Volt. Ref. 5V* ***NEW!***	8-Dip	10.01	9.02	8.00
D587JN	AD587JN-ND	Precision Volt. Ref. 10V	8-Dip	5.40	4.32	3.65
D587JR	AD587JR-ND	Precision Volt. Ref. 10V	8-SOIC	6.14	4.92	4.15
D587KN	AD587KN-ND	Precision Volt. Ref. 10V	8-Dip	6.14	4.92	4.15
D587KR	AD587KR-ND	Precision Volt. Ref. 10V	8-SOIC	6.96	5.57	4.70
D587LN	AD587LN-ND	Precision Volt. Ref. 10V	8-Dip	7.86	6.29	5.31
D587LNZ	AD587LNZ-ND	Precision Volt. Ref. 10V* ***NEW!***	8-Dip	7.86	6.29	5.31
D587UQ	AD587UQ-ND	Precision Volt. Ref. 10V	8-Dip	18.84	17.59	16.33
D588AQ	AD588AQ-ND	Precision Volt. Ref. Programmable	16-Dip	26.43	24.67	22.91
D588BQ	AD588BQ-ND	Precision Volt. Ref. Programmable	16-Dip	48.66	45.42	42.18
D588JQ	AD588JQ-ND	Precision Volt. Ref. Programmable	16-Dip	22.67	21.16	19.65
D588KQ	AD588KQ-ND	Precision Volt. Ref. Programmable	16-Dip	39.65	37.01	34.36
D589JH	AD589JH-ND	Voltage Ref. 1.2V, 2-Term.	H-02A	8.04	6.44	5.43
D589JR	AD589JR-ND	Voltage Ref. 1.2V, 2-Term.	8-SOIC	3.87	3.10	2.41
D589JRZ	AD589JRZ-ND	Voltage Ref. 1.2V, 2-Term.* ***NEW!***	8-SOIC	3.87	3.10	2.41
AD589KH	AD589KH-ND	Voltage Ref. 1.2V, 2-Term.	H-02A	8.70	6.96	5.88
AD589LH	AD589LH-ND	Voltage Ref. 1.2V, 2-Term.	H-02A	14.81	13.34	11.83
AD589MH	AD589MH-ND	Voltage Ref. 1.2V, 2-Term.	H-02A	28.98	27.05	25.12
AD680AR	AD680AR-ND	Voltage Reference 2.5V LP	8-SOIC	6.62	5.30	4.47
AD680JN	AD680JN-ND	Voltage Reference 2.5V LP	8-Dip	4.12	3.30	2.57
AD680JNZ	AD680JNZ-ND	Voltage Reference 2.5V LP* ***NEW!***	8-Dip	4.12	3.30	2.57
AD680JR	AD680JR-ND	Voltage Reference 2.5V LP	8-SOIC	4.12	3.30	2.57
AD680JR-REEL7	AD680JR-REEL7CT-ND	Voltage Reference 2.5V LP	8-SOIC	4.12	3.30	2.57
AD680JR-REEL7	AD680JR-REEL7TR-ND	Voltage Reference 2.5V LP	8-SOIC	1784.25/750		
AD680JT	AD680JT-ND	Voltage Reference 2.5V LP	TO-92	4.12	3.30	2.57
AD680JTZ	AD680JTZ-ND	Voltage Reference 2.5V LP* ***NEW!***	TO-92	4.12	3.30	2.57
AD688AQ	AD688AQ-ND	Precision Voltage Ref. +/-10V	16-Dip	24.20	22.59	20.97
AD688BQ	AD688BQ-ND	Precision Voltage Ref. +/-10V	16-CDip	40.80	38.08	35.36
AD780AN	AD780AN-ND	Precision Volt. Ref. 2.5V/3.0V	8-Dip	8.58	6.87	5.80
AD780ANZ	AD780ANZ-ND	Precision Volt. Ref. 2.5V/3.0V* ***NEW!***	8-Dip	8.58	6.87	5.80
AD780AR	AD780AR-ND	Precision Volt. Ref. 2.5V/3.0V	8-SOIC	8.58	6.87	5.80
AD780AR-REEL7	AD780AR-REEL7TR-ND	Precision Volt. Ref. 2.5V/3.0V	8-SOIC	4086.00/750		
AD780BN	AD780BN-ND	Precision Volt. Ref. 2.5V/3.0V	8-Dip	11.91	10.73	9.51
AD780BNZ	AD780BNZ-ND	Precision Volt. Ref. 2.5V/3.0V* ***NEW!***	8-Dip	11.91	10.73	9.51
AD780BR	AD780BR-ND	Precision Volt. Ref. 2.5V/3.0V	8-SOIC	11.91	10.73	9.51
AD1580ART-REEL7	AD1580ART-REEL7CT-ND	Voltage Reference 1.225V	SOT-23	1.70	1.36	1.02
AD1580ART-REEL7	AD1580ART-REEL7TR-ND	Voltage Reference 1.225V	SOT-23	2610.00/3,000		
AD1580BRT-REEL7	AD1580BRT-REEL7CT-ND	Voltage Reference 1.225V	SOT-23	2.36	1.89	1.47
AD1580BRT-REEL7	AD1580BRT-REEL7TR-ND	Voltage Reference 1.225V	SOT-23	3969.00/3,000		
AD1582ART-REEL7	AD1582ART-REEL7CT-ND	Voltage Reference 2.5V	SOT-23	1.48	1.18	.89
AD1582ART-REEL7	AD1582ART-REEL7TR-ND	Voltage Reference 2.5V	SOT-23	2265.00/3,000		
AD1582ARTZ-REEL7	AD1582ARTZREEL7CT-ND	Voltage Reference 2.5V* ***NEW!***	SOT-23	1.48	1.18	.89
AD1582ARTZ-REEL7	AD1582ARTZREEL7TR-ND	Voltage Reference 2.5V* ***NEW!***	SOT-23	2265.00/3,000		
AD1582BRT-REEL7	AD1582BRT-REEL7CT-ND	Voltage Reference 2.5V	SOT-23	2.97	2.38	1.85
AD1582BRT-REEL7	AD1582BRT-REEL7TR-ND	Voltage Reference 2.5V	SOT-23	4989.00/3,000		
AD1582BRTZ-REEL7	AD1582BRTZREEL7CT-ND	Voltage Reference 2.5V* ***NEW!***	SOT-23	2.97	2.38	1.85
AD1582BRTZ-REEL7	AD1582BRTZREEL7TR-ND	Voltage Reference 2.5V* ***NEW!***	SOT-23	4989.00/3,000		
AD1584ART-REEL7	AD1584ART-REEL7CT-ND	Voltage Reference 4.096V	SOT-23	1.43	1.14	.86
AD1584ART-REEL7	AD1584ART-REEL7TR-ND	Voltage Reference 4.096V	SOT-23	2190.00/3,000		
AD1584BRT-REEL7	AD1584BRT-REEL7CT-ND	Voltage Reference 4.096V	SOT-23	2.72	2.18	1.70
AD1584BRT-REEL7	AD1584BRT-REEL7TR-ND	Voltage Reference 4.096V	SOT-23	4575.00/3,000		
ADR01AR	ADR01AR-ND	Precision Volt. Ref. 10V, 10PPM	8-SOIC	2.93	2.34	1.82
ADR01AUJ-R2	ADR01AUJ-R2CT-ND	Precision Volt. Ref. 10V, 25PPM	TSOT-23-5	2.36	1.89	1.47
ADR01AUJ-R2	ADR01AUJ-R2TR-ND	Precision Volt. Ref. 10V, 25PPM	TSOT-23-5	349.25/250		
ADR01BR	ADR01BR-ND*	Precision Volt. Ref. 10V, 3PPM	8-SOIC	8.00	6.40	5.40
ADR02AKS-R2	ADR02AKS-R2CT-ND	Precision Volt. Ref. 5V, 10mA Out	SC70-5	4.23	3.39	2.64
ADR02AKS-R2	ADR02AKS-R2TR-ND	Precision Volt. Ref. 5V, 10mA Out	SC70-5	349.25/250		
ADR02AUJZ-REEL7	ADR02AUJZ-REEL7CT-ND	Precision Volt. Ref. 5V, 10mA Out	TSOT-23-5	2.36	1.89	1.47
ADR02AUJZ-REEL7	ADR02AUJZ-REEL7TR-ND	Precision Volt. Ref. 5V, 10mA Out	TSOT-23-5	3969.00/3,000		
ADR02BKS-R2	ADR02BKS-R2CT-ND	Precision Volt. Ref. 5V, 10mA Out	SC70-5	9.06	7.25	6.12
ADR02BKS-R2	ADR02BKS-R2TR-ND	Precision Volt. Ref. 5V, 10mA Out	SC70-5	395.75/250		
ADR02AR	ADR02AR-ND	Precision Volt. Ref. 5V, 10PPM	8-SOIC	2.93	2.34	1.82
ADR02AUJ-R2	ADR02AUJ-R2CT-ND	Precision Volt. Ref. 5V, 25PPM	TSOT-23-5	2.36	1.89	1.47
ADR02AUJ-R2	ADR02AUJ-R2TR-ND	Precision Volt. Ref. 5V, 25PPM	TSOT-23-5	349.25/250		
ADR02BR	ADR02BR-ND	Precision Volt. Ref. 5V, 3PPM	8-SOIC	8.00	6.40	5.40
ADR02BUJ-R2	ADR02BUJ-R2CT-ND	Precision Volt. Ref. 5V, 9PPM	TSOT-23-5	2.68	2.15	1.67
ADR02BUJ-R2	ADR02BUJ-R2TR-ND	Precision Volt. Ref. 5V, 9PPM	TSOT-23-5	395.75/250		
ADR03AKS-R2	ADR03AKS-R2CT-ND	Precision Volt. Ref. 2.5V, 10mA	SC70-5	4.23	3.39	2.64
ADR03AKS-R2	ADR03AKS-R2TR-ND	Precision Volt. Ref. 2.5V, 10mA	SC70-5	349.25/250		
ADR03AR	ADR03AR-ND	Precision Volt. Ref. 2.5V, 10PPM	8-SOIC	2.93	2.34	1.82
ADR03AUJ-R2	ADR03AUJ-R2CT-ND	Precision Volt. Ref. 2.5V, 10mA	TSOT-23-5	4.23	3.39	2.64
ADR03AUJ-R2	ADR03AUJ-R2TR-ND	Precision Volt. Ref. 2.5V, 10mA	TSOT-23-5	349.25/250		
ADR03BKS-R2	ADR03BKS-R2CT-ND	Precision Volt. Ref. 2.5V, 10mA	SC70-5	9.06	7.25	6.12
ADR03BKS-R2	ADR03BKS-R2TR-ND	Precision Volt. Ref. 2.5V, 10mA	SC70-5	395.75/250		
ADR03BR	ADR03BR-ND	Precision Volt. Ref. 2.5V, 3PPM	8-SOIC	8.00	6.40	5.40
ADR03BUJ-R2	ADR03BUJ-R2CT-ND	Precision Volt. Ref. 2.5V, 9PPM	TSOT-23-5	2.68	2.15	1.67
ADR03BUJ-R2	ADR03BUJ-R2TR-ND	Precision Volt. Ref. 2.5V, 9PPM	TSOT-23-5	395.75/250		
ADR06AKS-R2	ADR06AKS-R2CT-ND	Precision Volt. Ref. 3V, 10mA Out	SC70-5	2.36	1.89	1.47
ADR06AKS-R2	ADR06AKS-R2TR-ND	Precision Volt. Ref. 3V, 10mA Out	SC70-5	349.25/250		
ADR06AR	ADR06AR-ND	Precision Volt. Ref. 3V, 10PPM	8-SOIC	2.93	2.34	1.82
ADR06AUJ-R2	ADR06AUJ-R2CT-ND	Precision Volt. Ref. 3V, 10mA	TSOT-23-5	4.23	3.39	2.64
ADR06AUJ-R2	ADR06AUJ-R2TR-ND	Precision Volt. Ref. 3V, 10mA	TSOT-23-5	349.25/250		
ADR06BKS-R2	ADR06BKS-R2CT-ND	Precision Volt. Ref. 3V, 10mA Out	SC70-5	2.68	2.15	1.67
ADR06BKS-R2	ADR06BKS-R2TR-ND	Precision Volt. Ref. 3V, 10mA Out	SC70-5	395.75/250		
ADR06BR	ADR06BR-ND	Precision Volt. Ref. 3V, 3PPM	8-SOIC	8.00	6.40	5.40
ADR06BUJ-R2	ADR06BUJ-R2CT-ND	Precision Volt. Ref. 3V, 10mA	TSOT-23-5	2.38	1.91	1.61
ADR06BUJ-R2	ADR06BUJ-R2TR-ND	Precision Volt. Ref. 3V, 10mA	TSOT-23-5	395.75/250		
ADR280AKS-R2	ADR280AKS-R2CT-ND	Volt. Ref. Ultralow Power 1.2V	SC70-3	2.33	1.86	1.40
ADR280AKS-R2	ADR280AKS-R2TR-ND	Volt. Ref. Ultralow Power 1.2V	SC70-3	325.50/250		
ADR280ART-R2	ADR280ART-R2CT-ND	Ref. Volt. High PSRR 1.2V	SOT-23	2.33	1.86	1.40
ADR280ART-R2	ADR280ART-R2TR-ND	Ref. Volt. High PSRR 1.2V	SOT-23	325.50/250		
ADR291ER	ADR291ER-ND	Precision Volt. Ref. 2.5V, 5mA Out	8-SOIC	14.26	12.84	11.39
ADR291FR	ADR291FR-ND	Precision Volt. Ref. 2.5V, 5mA Out	8-SOIC	8.60	6.88	5.81
ADR291GR	ADR291GR-ND	Precision Volt. Ref. 2.5V, 5mA Out	8-SOIC	5.78	4.63	3.91
ADR292ER	ADR292ER-ND	Precision Volt. Ref. 4.096V, 5mA	8-SOIC	14.26	12.84	11.39
ADR292GR	ADR292GR-ND	Precision Volt. Ref. 4.096V, 5mA	8-SOIC	5.78	4.63	3.91
ADR292GRU	ADR292GRU-ND	Precision Volt. Ref. 4.096V, 5mA	8-TSSOP	5.47	4.38	3.41
ADR318ARJ-R2	ADR318ARJ-R2CT-ND	Precision Ref. Low Drift	SOT-23-5	2.81	2.25	1.75
ADR318ARJ-R2	ADR318ARJ-R2TR-ND	Precision Ref. Low Drift	SOT-23-5	415.75/250		
ADR370ART-R2	ADR370ART-R2CT-ND	Precision Ref. Low Power 2.048V	SOT-23	2.81	2.25	1.75
ADR370ART-R2	ADR370ART-R2TR-ND	Precision Ref. Low Power 2.048V	SOT-23	415.75/250		
ADR370BRT-R2	ADR370BRT-R2CT-ND	Precision Ref. Low Power 2.048V	SOT-23	3.71	2.97	2.31
ADR370BRT-R2	ADR370BRT-R2TR-ND	Precision Ref. Low Power 2.048V	SOT-23	548.75/250		
ADR381ART-REEL7	ADR381ART-REEL7CT-ND	Precision Volt. Ref. 2.5V Low Drift	SOT-23	1.93	1.54	1.16
ADR381ART-REEL7	ADR381ART-REEL7TR-ND	Precision Volt. Ref. 2.5V Low Drift	SOT-23	2958.00/3,000		
ADR390AUJZ-REEL7	ADR390AUJZREEL7CT-ND	Micropower, LN Precision Voltage Reference 2.048V	TSOT-23-5	1.65	1.32	.99
ADR390AUJZ-REEL7	ADR390AUJZREEL7TR-ND	Micropower, LN Precision Voltage Reference 2.048V	TSOT-23-5	2535.00/3,000		
ADR390BUJZ-REEL7	ADR390BUJZREEL7CT-ND	Micropower, LN Precision Voltage Reference 2.048V	TSOT-23-5	5.60	4.48	3.78
ADR390BUJZ-REEL7	ADR390BUJZREEL7TR-ND	Micropower, LN Precision Voltage Reference 2.048V	TSOT-23-5	10416.00/3,000		
ADR391AUJZ-REEL7	ADR391AUJZREEL7CT-ND	Micropower, LN Precision Voltage Reference 2.5V	TSOT-23-5	1.93	1.54	1.16
ADR391AUJZ-REEL7	ADR391AUJZREEL7TR-ND	Micropower, LN Precision Voltage Reference 2.5V	TSOT-23-5	2958.00/3,000		

* Lead Free/RoHS Compliant

(Continued)

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Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
ADR391BUJZ-REEL7	ADR391BUJZREEL7CT-ND	Micropower, LN Precision Voltage Reference 2.5V	TSOT-23-5	5.60	4.48	3.78
ADR391BUJZ-REEL7	ADR391BUJZREEL7TR-ND	Micropower, LN Precision Voltage Reference 2.5V	TSOT-23-5		10416.00/3,000	
ADR392ART-R2	ADR392ART-R2CT-ND	Precision Ref. Low Drift 4.096V	SOT-23-5	3.04	2.43	1.89
ADR392AUJZ-REEL7	ADR392AUJZREEL7CT-ND	Micropower, LN Precision Voltage Reference 4.096V	TSOT-23-5	1.65	1.32	.99
ADR392AUJZ-REEL7	ADR392AUJZREEL7TR-ND	Micropower, LN Precision Voltage Reference 4.096V	TSOT-23-5		2535.00/3,000	
ADR392BUJZ-REEL7	ADR392BUJZREEL7CT-ND	Micropower, LN Precision Voltage Reference 4.096V	TSOT-23-5	5.60	4.48	3.78
ADR392BUJZ-REEL7	ADR392BUJZREEL7TR-ND	Micropower, LN Precision Voltage Reference 4.096V	TSOT-23-5		10416.00/3,000	
ADR395AUJZ-REEL7	ADR395AUJZREEL7CT-ND	Micropower, LN Precision Voltage Reference 5V	TSOT-23-5	1.65	1.32	.99
ADR395AUJZ-REEL7	ADR395AUJZREEL7TR-ND	Micropower, LN Precision Voltage Reference 5V	TSOT-23-5		2535.00/3,000	
ADR395BUJZ-REEL7	ADR395BUJZREEL7CT-ND	Micropower, LN Precision Voltage Reference 5V	TSOT-23-5	5.60	4.48	3.78
ADR395BUJZ-REEL7	ADR395BUJZREEL7TR-ND	Micropower, LN Precision Voltage Reference 5V	TSOT-23-5		10416.00/3,000	
ADR420BR	ADR420BR-ND	Precision Volt. Ref. 2.048V, 10mA	8-SOIC	8.33	7.50	6.65
ADR421AR	ADR421AR-ND	Precision Ref. Low Noise 2.50V	8-SOIC	5.62	4.50	3.80
ADR421BR	ADR421BR-ND	Precision Ref. Low Noise 2.50V	8-SOIC	8.33	7.50	6.65
ADR423AR	ADR423AR-ND	Precision Volt. Ref. 3V, 10mA Out	8-SOIC	5.62	4.50	3.80
ADR423ARZ	ADR423ARZ-ND	Precision Volt. Ref. 3V, 10mA Out	8-SOIC	5.62	4.50	3.80
ADR425BR	ADR425BR-ND	Precision Volt. Ref. 5V, 10mA Out	8-SOIC	8.33	7.50	6.65
ADR430ARM	ADR430ARM-ND	2V, XFET Voltage Reference ***NEW!***	8-MSOP	5.70	4.56	3.85
ADR434AR	ADR434AR-ND	4.096V, 30mA XFET Volt. Ref.	8-SOIC	5.70	4.56	3.85
ADR434ARM	ADR434ARM-ND	4.096V, 30mA XFET Volt. Ref.	8-MSOP	5.70	4.56	3.85
ADR435AR	ADR435AR-ND	5V, 30mA XFET Volt, Ref.	8-SOIC	5.70	4.56	3.85
ADR435ARM	ADR435ARM-ND	5V, 30mA XFET Volt, Ref.	8-MSOP	5.70	4.56	3.85
ADR435ARMZ	ADR435ARMZ-ND	5V, 30mA XFET Volt. Ref.	8-MSOP	5.70	4.56	3.85
ADR439AR	ADR439AR-ND	4.5V, 30mA XFET Volt. Ref.	8-SOIC	5.70	4.56	3.85
ADR439ARM	ADR439ARM-ND	4.5V, 30mA XFET Volt. Ref.	8-MSOP	5.70	4.56	3.85
ADR510ART-R2	ADR510ART-R2CT-ND	Precision Ref. Shunt Volt. 1V	SOT-23	2.81	2.25	1.75
ADR510ART-R2	ADR510ART-R2TR-ND	Precision Ref. Shunt Volt. 1V	SOT-23		415.75/250	
ADR512ART-R2	ADR512ART-R2CT-ND	Precision Ref. Shunt 1.2V	SOT-23	2.43	1.95	1.52
ADR512ART-R2	ADR512ART-R2TR-ND	Precision Ref. Shunt 1.2V	SOT-23		359.00/250	
ADR520ART-R2	ADR520ART-R2CT-ND	Volt. Ref. Shunt 2.048V	SOT-23	1.44	1.20	.96
ADR520ART-R2	ADR520ART-R2TR-ND	Volt. Ref. Shunt 2.048V	SOT-23		180.00/250	
ADR520BKS-R2	ADR520BKS-R2CT-ND	Volt. Ref. Shunt 2.048V	SC-70	2.43	1.94	1.46
ADR520BKS-R2	ADR520BKS-R2TR-ND	Volt. Ref. Shunt 2.048V	SC-70		290.50/250	
ADR520BRT-R2	ADR520BRT-R2CT-ND	Volt. Ref. Shunt 2.048V	SOT-23	2.23	1.78	1.34
ADR520BRT-R2	ADR520BRT-R2TR-ND	Volt. Ref. Shunt 2.048V	SOT-23		269.50/250	
ADR525ART-R2	ADR525ART-R2CT-ND	Volt. Ref. Shunt 2.5V	SOT-23	1.44	1.20	.96
ADR525ART-R2	ADR525ART-R2TR-ND	Volt. Ref. Shunt 2.5V	SOT-23		153.75/250	
ADR525BKS-R2	ADR525BKS-R2CT-ND	Volt. Ref. Shunt 2.5V	SC-70	2.43	1.94	1.46
ADR525BKS-R2	ADR525BKS-R2TR-ND	Volt. Ref. Shunt 2.5V	SC-70		290.50/250	
ADR525BRT-R2	ADR525BRT-R2CT-ND	Volt. Ref. Shunt 2.5V	SOT-23	2.23	1.78	1.34
ADR525BRT-R2	ADR525BRT-R2TR-ND	Volt. Ref. Shunt 2.5V	SOT-23		269.50/250	
ADR530ART-R2	ADR530ART-R2CT-ND	Volt. Ref. Shunt 3.0V	SOT-23	1.44	1.20	.96
ADR530ART-R2	ADR530ART-R2TR-ND	Volt. Ref. Shunt 3.0V	SOT-23		153.75/250	
ADR530BKS-R2	ADR530BKS-R2CT-ND	Volt. Ref. Shunt 3.0V	SC-70	2.43	1.94	1.46
ADR530BKS-R2	ADR530BKS-R2TR-ND	Volt. Ref. Shunt 3.0V	SC-70		339.50/250	
ADR530BRT-R2	ADR530BRT-R2CT-ND	Volt. Ref. Shunt 3.0V	SOT-23	2.23	1.78	1.34
ADR530BRT-R2	ADR530BRT-R2TR-ND	Volt. Ref. Shunt 3.0V	SOT-23		269.50/250	
ADR540ART-R2	ADR540ART-R2CT-ND	Volt. Ref. Shunt 4.096V	SOT-23	1.44	1.20	.96
ADR540ART-R2	ADR540ART-R2TR-ND	Volt. Ref. Shunt 4.096V	SOT-23		153.75/250	
ADR540BKS-R2	ADR540BKS-R2CT-ND	Volt. Ref. Shunt 4.096V	SC-70	2.43	1.94	1.46
ADR540BKS-R2	ADR540BKS-R2TR-ND	Volt. Ref. Shunt 4.096V	SC-70		290.50/250	
ADR540BRT-R2	ADR540BRT-R2CT-ND	Volt. Ref. Shunt 4.096V	SOT-23	2.23	1.78	1.34
ADR540BRT-R2	ADR540BRT-R2TR-ND	Volt. Ref. Shunt 4.096V	SOT-23		269.50/250	
ADR550ART-R2	ADR550ART-R2CT-ND	Volt. Ref. Shunt 5.0V	SOT-23	1.44	1.20	.96
ADR550ART-R2	ADR550ART-R2TR-ND	Volt. Ref. Shunt 5.0V	SOT-23		153.75/250	
ADR550BKS-R2	ADR550BKS-R2CT-ND	Volt. Ref. Shunt 5.0V	SC-70	2.43	1.94	1.46
ADR550BKS-R2	ADR550BKS-R2TR-ND	Volt. Ref. Shunt 5.0V	SC-70		290.50/250	
ADR550BRT-R2	ADR550BRT-R2CT-ND	Volt. Ref. Shunt 5.0V	SOT-23	2.23	1.78	1.34
ADR550BRT-R2	ADR550BRT-R2TR-ND	Volt. Ref. Shunt 5.0V	SOT-23		269.50/250	
REF01CP	REF01CP-ND	Precision Volt. Reference 10V	8-Dip	2.48	1.98	1.49
REF01CPZ	REF01CPZ-ND	Precision Volt. Reference 10V	8-Dip	2.48	1.98	1.49
REF01CS	REF01CS-ND	Precision Volt. Reference 10V	8-SOIC	2.38	1.90	1.43
REF01EJ	REF01EJ-ND	Precision Volt. Reference 10V	TO-99	15.09	14.09	13.08
REF01EZ	REF01EZ-ND	Precision Volt. Reference 10V	8-CDip	8.58	7.73	6.85
REF01HP	REF01HP-ND	Precision Volt. Reference 10V	8-Dip	3.40	2.72	2.12
REF01HPZ	REF01HPZ-ND	Precision Volt. RefErence 10V	8-Dip	3.40	2.72	2.12
REF02AZ	REF02AZ-ND	Prec. Volt. Ref./Temp. 5V Transducer	8-CDip	27.09	25.29	23.48
REF02CP	REF02CP-ND	Precision Volt. Reference 5V	8-Dip	2.48	1.98	1.49
REF02CS	REF02CS-ND	Precision Volt. Reference 5V	8-SOIC	2.38	1.90	1.43
REF02CS-REEL7	REF02CS-REEL7CT-ND	Precision Volt. Reference 5V	8-SOIC	2.52	2.02	1.57
REF02CS-REEL7	REF02CS-REEL7TR-ND	Precision Volt. Reference 5V	8-SOIC		1235.00/1,000	
REF02CSZ	REF02CSZ-ND	Precision Volt. Reference 5V	8-SOIC	2.38	1.90	1.43
REF02EZ	REF02EZADI-ND	Precision Volt. Reference 5V	8-CDip	8.93	8.04	7.13
REF02HP	REF02HP-ND	Precision Volt. Reference 5V	8-Dip	3.40	2.72	2.12
REF03GP	REF03GP-ND	Precision Volt. Reference 2.5V	8-Dip	2.48	1.98	1.49
REF03GS	REF03GS-ND	Precision Volt. Reference 2.5V	8-SOIC	2.38	1.90	1.43
REF43FZ	REF43FZ-ND	Precision Volt. Ref. LP 2.5V	8-CDip	13.31	11.99	10.63
REF43GP	REF43GP-ND	Precision Volt. Reference LP 2.5V	8-Dip	6.70	5.36	4.53
REF43GS	REF43GS-ND	Precision Volt. Reference LP 2.5V	8-SOIC	6.70	5.36	4.53
REF43GSZ	REF43GSZ-ND	Precision Volt. Reference LP 2.5V	8-SOIC	6.70	5.36	4.53
REF43GZ	REF43GZ-ND	Precision Volt. Ref. LP 2.5V	8-CDip	8.32	5.06	4.27
REF191ES	REF191ES-ND	Volt. Reference LDO 2.048V	8-SOIC	4.37	3.50	2.72
REF191GS	REF191GS-ND	Volt. Reference LDO 2.048V	8-SOIC	2.43	1.95	1.52
REF192ES	REF192ES-ND	Volt. Reference LDO 2.5V	8-SOIC	4.37	3.50	2.72
REF192FS	REF192FS-ND	Volt. Reference LDO 2.5V	8-SOIC	3.40	2.72	2.12
REF192GRUZ-REEL7	REF192GRUZREEL7CT-ND	Volt. Reference LDO 2.5V	8-TSSOP	3.83	3.06	2.38
REF192GRUZ-REEL7	REF192GRUZREEL7TR-ND	Volt. Reference LDO 2.5V	8-TSSOP		2168.00/1,000	
REF192GS	REF192GS-ND	Volt. Reference LDO 2.5V	8-SOIC	2.43	1.95	1.52
REF193GS	REF193GS-ND	Volt. Reference LDO 3V	8-SOIC	2.43	1.95	1.52
REF194ES	REF194ES-ND	Volt. Reference LDO 4.5V	8-SOIC	4.37	3.50	2.72
REF194GP	REF194GP-ND	Volt. Reference LDO 4.5V	8-Dip	2.43	1.95	1.52
REF194GS	REF194GS-ND	Volt. Reference LDO 4.5V	8-SOIC	2.43	1.95	1.52
REF195ES	REF195ES-ND	Volt. Reference LDO 5V	8-SOIC	4.37	3.50	2.72
REF195FS	REF195FS-ND	Volt. Reference LDO 5V	8-SOIC	3.40	2.72	2.12
REF195FS-REEL	REF195FS-REELCT-ND	Volt. Reference LDO 5V	8-SOIC	4.55	3.64	2.83
REF195FS-REEL	REF195FS-REELTR-ND	Volt. Reference LDO 5V	8-SOIC		4757.50/2,500	
REF195GP	REF195GP-ND	Volt. Reference LDO 5V	8-Dip	2.43	1.95	1.52
REF195GPZ	REF195GPZ-ND	Volt. Reference LDO 5V	8-Dip	2.43	1.95	1.52
REF195GS	REF195GS-ND	Volt. Reference LDO 5V	8-SOIC	2.43	1.95	1.52
REF196GS	REF196GS-ND	Volt. Reference LDO 3.3V	8-SOIC	2.43	1.95	1.52
REF198ES	REF198ES-ND	Volt. Reference LDO 4.096V	8-SOIC	4.37	3.50	2.72
REF198FS	REF198FS-ND	Volt. Reference LDO 4.096V	8-SOIC	3.40	2.72	2.12
REF198FSZ	REF198FSZ-ND	Volt. Reference LDO 4.096V	8-SOIC	3.40	2.72	2.12
REF198GP	REF198GP-ND	Volt. Reference LDO 4.096V	8-Dip	2.43	1.95	1.52
REF198GS	REF198GS-ND	Volt. Reference LDO 4.096V	8-SOIC	2.43	1.95	1.52

Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD6620AS	AD6620AS-ND	Digital Receiver Signal Processor	80-PQFP	25.80	24.08	22.36
AD6634BBC	AD6634BBC-ND	RSP 80MSPS Dual	196-CSPBGA	49.02	45.76	42.49
AD6635BB	AD6635BB-ND	RSP 80MSPS Quad	324-PBGA	56.76	52.98	49.20
AD6636BBCZ	AD6636BBCZ-ND	6-Ch., 150MSPS Wideband Digital Down Converter	256-CSPBGA	66.77	62.32	57.87
AD6636BC/PCB	AD6636BC/PCB-ND	Evaluation Board for AD6636	—	650.00	—	—
AD6636CBCZ	AD6636CBCZ-ND	4-Ch., 150MSPS Wideband Digital Down Converter	256-CSPBGA	44.51	41.54	38.58
AD8302ARU	AD8302ARU-ND	Detector RF/IF	14-TSSOP	22.50	21.00	19.50
AD8314ARM	AD8314ARM-ND	RF Detector/Controller 45dB	8-MSOP	9.48	7.59	6.40
AD8314ARM-REEL7	AD8314ARM-REEL7CT-ND	RF Detector/Controller 45dB	8-MSOP	9.48	7.59	6.40
AD8314ARM-REEL7	AD8314ARM-REEL7TR-ND	RF Detector/Controller 45dB	8-MSOP		5925.00/1,000	
AD8314-EVAL	AD8314-EVAL-ND	Evaluation Board for AD8314	—	111.38	—	—
AD8347ARU	AD8347ARU-ND	Quad Demodulator	28-TSSOP	10.41	9.38	8.32
AD8349ARE	AD8349ARE-ND	Quad Modulator 800MHz	16-TSSOP	8.68	7.82	6.95
AD8349-EVAL	AD8349-EVAL-ND	Evaluation Board for AD8349	—	118.80	—	—
AD8353ACP-R2	AD8353ACP-R2CT-ND	RF Gain Block	8-LFCSP	2.76	2.21	1.87
AD8353ACP-R2	AD8353ACP-R2TR-ND	RF Gain Block	8-LFCSP		458.75/250	
AD8354ACP-R2	AD8354ACP-R2CT-ND	RF Gain Block	8-LFCSP	2.76	2.21	1.87
AD8354ACP-R2	AD8354ACP-R2TR-ND	RF Gain Block	8-LFCSP		458.75/250	
AD8361ARM	AD8361ARM-ND	Power Detector 2.5GHz	8-MSOP	7.90	6.32	5.34
AD8361ART-REEL7	AD8361ART-REEL7CT-ND	Power Detector 2.5GHz	SOT-23-6	7.50	6.00	5.07
AD8361ART-REEL7	AD8361ART-REEL7TR-ND	Power Detector 2.5GHz	SOT-23-6		13950.00/3,000	
AD8361-EVAL	AD8361-EVAL-ND	Evaluation Board for AD8361	—	112.50	—	—
AD8362ARU	AD8362ARU-ND	Power Detector 2.7GHz	16-TSSOP	12.50	11.25	9.98
AD8362-EVAL	AD8362-EVAL-ND	Evaluation Board for AD8362	—	111.38	—	—
AD8367ARU	AD8367ARU-ND	VGA with AGC Detector	14-TSSOP	9.96	7.97	6.73
AD8367-EVAL	AD8367-EVAL-ND	Evaluation Board for AD8367	—	111.38	—	—
AD8369ARU	AD8369ARU-ND	VGA Digital Controller	16-TSSOP	9.96	7.97	6.73
AD8369ARUZ	AD8369ARUZ-ND	VGA Digital Controller* ***NEW!***	16-TSSOP	9.96	7.97	6.73
AD9864BCPZ	AD9864BCPZ-ND	IF Subsystem GP	48-LFCSP	15.11	14.10	13.10
AD9901KP	AD9901KP-ND	Phase/Frequency Discriminator	20-PLCC	7.70	6.16	5.20
ADF4001BCP	ADF4001BCP-ND	200MHz Clock Generator PLL	20-LFCSP	3.87	3.10	2.41
ADF4001BRU	ADF4001BRU-ND	200MHz Clock Generator PLL	16-TSSOP	3.87	3.10	2.41
		DDS				
AD7008AP20	AD7008AP20-ND	CMOS DDS Modulator	44-PLCC	29.03	27.09	25.16
AD7008JP50	AD7008JP50-ND	CMOS DDS Modulator	44-PLCC	34.83	32.51	30.19
AD9830AST	AD9830AST-ND	DDS DAC 10-Bit, 50MHz	48-TQFP	17.55	16.38	15.21
AD9830ASTZ	AD9830ASTZ-ND	DDS DAC 10-Bit, 50MHz* ***NEW!***	48-TQFP	17.55	16.38	15.21
AD9831AST	AD9831AST-ND	DDS DAC 10-Bit, 25MHz	48-LQFP	12.25	11.03	9.78
AD9832BRU	AD9832BRU-ND	DDS DAC 10-Bit, 25MHz	16-TSSOP	9.80	8.82	7.85
AD9832BRUZ	AD9832BRUZ-ND	DDS DAC 10-Bit, 25MHz* ***NEW!***	16-TSSOP	9.80	8.82	7.85
AD9833BRM	AD9833BRM-ND	Prog. Waveform Generator	10-MSOP	9.30	7.44	6.26
AD9833BRMZ	AD9833BRMZ-ND	Prog. Waveform Generator* ***NEW!***	10-MSOP	9.30	7.44	6.26
AD9834BRU	AD9834BRU-ND	Complete DDS 2.3V, 50MHz	20-TSSOP	9.70	8.73	7.75
AD9834BRUZ	AD9834BRUZ-ND	Complete DDS 2.3V, 50MHz* ***NEW!***	20-TSSOP	9.70	8.73	7.75
AD9835BRU	AD9835BRU-ND	DDS DAC 10-Bit, 50MHz	16-TSSOP	11.28	10.16	9.01
AD9835BRUZ	AD9835BRUZ-ND	DDS DAC 10-Bit, 50MHz* ***NEW!***	16-TSSOP	11.28	10.16	9.01
AD9850BRS	AD9850BRS-ND	Complete DDS with DAC 125MHz	28-SSOP	21.83	20.37	18.90
AD9850/FSPCB	AD9850/FSPCB-ND	Evaluation Board for AD9850/FS	—	281.25	—	—
AD9851BRS	AD9851BRS-ND	Complete DDS with DAC 180MHz	28-SSOP	23.93	22.33	20.74
AD9851BRSZ	AD9851BRSZ-ND	Complete DDS with DAC 180MHz	28-SSOP	23.93	22.33	20.74
AD9852ASQ	AD9852ASQ-ND	Complete DDS with Dual DAC	80-LQFP	37.50	35.00	32.50
AD9852AST	AD9852AST-ND	DDS Synthesizer CMOS	80-LQFP	26.93	25.13	23.34
AD9854ASQ	AD9854ASQ-ND	DDS Quad CMOS	80-LQFP	42.00	39.20	36.40
AD9854AST	AD9854AST-ND	DDS Quad CMOS	80-LQFP	29.18	27.23	25.29
AD9858BSV	AD9858BSV-ND	DDS DAC 10-Bit, 1GSPS	100-TQFP	79.64	74.33	69.03
AD9858/PCB	AD9858/PCB-ND	Evaluation Board for AD9858	—	393.75	—	—
AD9859YSV	AD9859YSV-ND	DDS DAC 10-Bit, 400MSPS	48-TQFP	17.21	16.06	14.92
AD9952YSV	AD9952YSV-ND	DDS DAC 14-Bit, 400MSPS	48-TQFP	27.35	25.53	23.70
AD9953YSV	AD9953YSV-ND	DDS DAC 14-Bit, 400MSPS	48-TQFP	26.03	24.29	22.56
AD9956/PCB	AD9956/PCB-ND	Evaluation Board for AD9956 ***NEW!***	—	322.50	—	—
		Frequency Synthesizer				
ADF4106BRU	ADF4106BRU-ND	PLL Frequency Synthesizer 6GHz	16-TSSOP	5.70	4.56	3.88
ADF4107BRU	ADF4107BRU-ND	PLL Frequency Synthesizer 7GHz	16-TSSOP	6.20	4.96	4.19
ADF4110BCP	ADF4110BCP-ND	PLL Synthesizer 550MHz	20-LFCSP	4.56	3.65	3.08
ADF4110BRU	ADF4110BRU-ND	PLL Synthesizer 550MHz	16-TSSOP	5.13	4.11	3.20
ADF4110BRU-REEL7	ADF4110BRUREEL7CT-ND	PLL Synthesizer 550MHz	16-TSSOP	5.08	4.07	3.43
ADF4110BRU-REEL7	ADF4110BRUREEL7TR-ND	PLL Synthesizer 550MHz	16-TSSOP		2850.00/1,000	
ADF4111BRU	ADF4111BRU-ND	PLL Synthesizer	16-TSSOP	4.56	3.65	3.08
ADF4112BRU	ADF4112BRU-ND	PLL Synthesizer 3.0GHz	16-TSSOP	5.13	4.11	3.20
ADF4113BCP	ADF4113BCP-ND	PLL Synthesizer 4.0GHz	20-LFCSP	5.30	4.24	3.58
ADF4113BRU	ADF4113BRU-ND	PLL Synthesizer 4.0GHz	16-TSSOP	5.30	4.24	3.58
ADF4113BRU-REEL7	ADF4113BRUREEL7CT-ND	PLL Synthesizer 4.0GHz	16-TSSOP	6.40	5.12	4.34
ADF4113BRU-REEL7	ADF4113BRUREEL7TR-ND	PLL Synthesizer 4.0GHz	16-TSSOP		3313.00/1,000	
EVAL-ADF4113EB1	EVAL-ADF4113EB1-ND	Evaluation Board for ADF4113	—	193.50	—	—
ADF4116BRU	ADF4116BRU-ND	PLL Synthesizer 550MHz	16-TSSOP	2.43	1.95	1.52
ADF4118BRU	ADF4118BRU-ND	PLL Synthesizer 3.0GHz	16-TSSOP	2.70	2.16	1.68
ADF4118BRUZ	ADF4118BRUZ-ND	RF PLL Freq. Synthesizer ***NEW!***	16-TSSOP	2.70	2.16	1.68
ADF4153BCP	ADF4153BCP-ND	PLL Synthesizer Fractional-N Freq.	20-LFCSP	5.80	4.64	3.94
ADF4153BRU	ADF4153BRU-ND	PLL Synthesizer Fractional-N Freq.	16-TSSOP	5.80	4.64	3.94
ADF4154BRU	ADF4154BRU-ND	Fractional-N Freq. Synthesizer ***NEW!***	16-TSSOP	5.80	4.64	3.94

* Lead Free/RoHS Compliant

(Continued)

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ANALOG DEVICES — RF/IF (Continued)

Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
ADF4212LBRU	ADF4212LBRU-ND	PLL Synthesizer Dual Freq.	20-TSSOP	4.07	3.26	2.54
ADF4213BRU	ADF4213BRU-ND	PLL Frequency Synthesizer	20-TSSOP	4.07	3.26	2.54
ADF4217LBRU	ADF4217LBRU-ND	Frequency Synthesizer Dual LP	20-TSSOP	2.81	2.25	1.75
ADF4218LBRU	ADF4218LBRU-ND	Frequency Synthesizer Dual LP	20-TSSOP	3.29	2.63	2.05
ADF4219LBRU	ADF4219LBRU-ND	Frequency Synthesizer Dual LP	20-TSSOP	3.29	2.63	2.05
ADF4252BCP	ADF4252BCP-ND	PLL Frequency Synthesizer	24-LFCSP	5.36	4.29	3.34
ADF4360-0BCP	ADF4360-0BCP-ND	Integrated Synthesizer/VCO	24-LFCSP	7.20	5.76	4.86
EVAL-ADF4360-0EB1	EVAL-ADF4360-0EB1-ND	Evaluation Board for ADF4360-0	—	160.00	—	—
EVAL-ADF4360-1EB1	EVAL-ADF4360-1EB1-ND	Evaluation Board for ADF4360-1 ***NEW!***	—	159.60	—	—
ADF4360-2BCP	ADF4360-2BCP-ND	Integrated Synthesizer/VCO	24-LFCSP	7.20	5.76	4.86
ADF4360-4BCP	ADF4360-4BCP-ND	Integrated Synthesizer/VCO	24-LFCSP	7.20	5.76	4.86
EVAL-ADF4360-4EB1	EVAL-ADF4360-4EB1-ND	Evaluation Board for ADF4360-4 ***NEW!***	—	159.60	—	—
EVAL-ADF4360-5EB1	EVAL-ADF4360-5EB1-ND	Evaluation Board for ADF4360-5 ***NEW!***	—	159.60	—	—
ADF4360-7BCP	ADF4360-7BCP-ND	Integrated Synthesizer/VCO	24-LFCSP	7.20	5.76	4.86
EVAL-ADF4360-7EB1	EVAL-ADF4360-7EB1-ND	Evaluation Board for ADF4360-7	—	180.00	—	—
		Mixer				
AD831AP	AD831AP-ND	Mixer Down Conversion Low Dist.	20-PLCC	11.61	10.46	9.28
AD831AP-REEL7	AD831AP-REEL7TR-ND	Mixer Down Conversion Low Dist.	20-PLCC	2221.75/250		
AD8343ARU	AD8343ARU-ND	Mixer Active High IP3	14-TSSOP	8.72	6.98	5.89
		Receiver				
AD607ARS	AD607ARS-ND	LIN Receiver IF Subsystem LP	20-SSOP	7.30	5.84	4.93
AD608AR	AD608AR-ND	Mixer/Limiter 3V IF	16-SOIC	5.33	4.27	3.32
AD6650BBC	AD6650BBC-ND	Diversity IF to Baseband GSM/EDGE Narrowband Receiver	121-BGA	30.96	28.90	26.84
AD6650/PCB	AD6650/PCB-ND	Evaluation Board for AD6650 with Software	—	650.00	—	—
		Transmitter/Receiver				
ADF7010BRU	ADF7010BRU-ND	TX ASK/FSK/GFSK HP	24-TSSOP	3.67	2.94	2.29
ADF7011BRU	ADF7011BRU-ND	TX ASK/FSK/GFSK HP	24-TSSOP	3.67	2.94	2.29

ANALOG DEVICES — SENSOR/SIGNAL CONDITIONING

Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
		Energy Measurement				
ADE7752AR	ADE7752AR-ND	Energy Metering Detector	24-SOIC	8.76	7.01	5.92
ADE7753ARS	ADE7753ARS-ND	Energy Metering Detector	20-SSOP	5.58	4.47	3.77
ADE7754AR	ADE7754AR-ND	Energy Meter with Serial	24-SOIC	9.30	8.37	7.43
ADE7757ARN	ADE7757ARN-ND	Energy Metering	16-SOIC	3.22	2.58	2.01
ADE7758ARW	ADE7758ARW-ND	Energy Metering	24-SOIC	12.50	11.25	9.98
ADE7759ARS	ADE7759ARS-ND	Energy Meter with Sensor Interface	20-SSOP	6.88	5.51	4.65
ADE7760ARS	ADE7760ARS-ND	Energy Meter with On-Chip Fault Detection	20-SSOP	6.32	5.06	4.27
ADE7761ARS	ADE7761ARS-ND	Energy Meter with On-Chip Fault Detection	20-SSOP	6.62	5.30	4.47
EVAL-ADE7763EB	EVAL-ADE7763EB-ND	Evaluation Board for ADE7763	—	300.00	—	—
		Temperature				
AD590JF	AD590JF-ND	Temp. Transducer 2-Term.	Flatpack	14.38	12.95	11.48
AD590JH	AD590JH-ND	Temp. Transducer 2-Term.	TO-52	7.10	5.68	4.80
AD590KF	AD590KF-ND	Temp. Transducer 2-Term.	Flatpack	15.71	14.15	12.55
AD590KH	AD590KH-ND	Temp. Transducer 2-Term.	TO-52	8.95	8.06	7.15
AD590LF	AD590LF-ND	Temp. Transducer 2-Term.	Flatpack	35.19	32.85	30.50
AD590LH	AD590LH-ND	Temp. Transducer 2-Term.	TO-52	17.93	16.73	15.54
AD590MF	AD590MF-ND	Temp. Transducer 2-Term.	Flatpack	64.65	60.34	56.03
AD590MH	AD590MH-ND	Temp. Transducer 2-Term.	TO-52	42.65	39.81	36.96
AD592AN	AD592AN-ND	Temp. Transducer 2-Term.	TO-92	4.28	3.42	2.66
AD592ANZ	AD592ANZ-ND	Temp. Transducer 2-Term.* ***NEW!***	TO-92	4.28	3.42	2.66
AD592BN	AD592BN-ND	Temp. Transducer 2-Term.	TO-92	9.85	8.87	7.87
AD592BNZ	AD592BNZ-ND	Temp. Transducer 2-Term.* ***NEW!***	TO-92	9.85	8.87	7.87
AD592CN	AD592CN-ND	Temp. Transducer 2-Term.	TO-92	13.13	11.82	10.49
AD592CNZ	AD592CNZ-ND	Temp. Transducer 2-Term.* ***NEW!***	TO-92	13.13	11.82	10.49
AD594AQ	AD594AQ-ND	Thermocouple Amp with Comp.	14-Dip	10.43	9.39	8.33
AD594CQ	AD594CQ-ND	Thermocouple Amp with Comp.	14-Dip	16.98	15.85	14.72
AD595AQ	AD595AQ-ND	Thermocouple Amp with Comp.	14-Dip	10.43	9.39	8.33
AD595CQ	AD595CQ-ND	Thermocouple Amp with Comp.	14-Dip	16.98	15.85	14.72
AD596AH	AD596AH-ND	Thermocouple Conditioning	TO-100	11.60	10.44	9.26
AD597AH	AD597AH-ND	Thermocouple Conditioning	TO-100	11.60	10.44	9.26
AD597AR	AD597AR-ND	Thermocouple Conditioning	8-SOIC	5.16	4.13	3.49
AD597ARZ	AD597ARZ-ND	Thermocouple Conditioning* ***NEW!***	8-SOIC	5.16	4.13	3.49
AD22100AR	AD22100AR-ND	Temp. Sensor Voltage Out	8-SOIC	5.78	4.63	3.91
AD22100ARZ	AD22100ARZ-ND	Temp. Sensor Voltage Out* ***NEW!***	8-SOIC	5.78	4.63	3.91
AD22100AT	AD22100AT-ND	Temp. Sensor Voltage Out	TO-92	5.26	4.21	3.56
AD22100ATZ	AD22100ATZ-ND	Temp. Sensor Voltage Out* ***NEW!***	TO-92	5.26	4.21	3.56
AD22100KR	AD22100KR-ND	Temp. Sensor Voltage Out	8-SOIC	3.94	3.15	2.45
AD22100KT	AD22100KT-ND	Temp. Sensor Voltage Out	TO-92	3.49	2.79	2.17
AD22100SR	AD22100SR-ND	Temp. Sensor Voltage Out	8-SOIC	6.36	5.09	4.30
AD22100ST	AD22100ST-ND	Temp. Sensor Voltage Out	TO-92	5.78	4.63	3.91
AD22105AR	AD22105AR-ND	Thermostatic Switch Solid State	8-SOIC	3.08	2.47	1.92
AD7414ARM-0REEL7	AD7414ARM0REEL7CT-ND	Temp. Sensor 10-Bit Digital	8-MSOP	2.59	2.07	1.61
AD7414ARM-0REEL7	AD7414ARM0REEL7TR-ND	Temp. Sensor 10-Bit Digital	8-MSOP	1466.00/1,000		
AD7414ARM-1REEL7	AD7414ARM1REEL7CT-ND	Temp. Sensor 10-Bit Digital	8-MSOP	2.59	2.07	1.61
AD7414ARM-1REEL7	AD7414ARM1REEL7TR-ND	Temp. Sensor 10-Bit Digital	8-MSOP	1466.00/1,000		
AD7414ART-0REEL7	AD7414ART0REEL7CT-ND	Temp. Sensor 10-Bit	SOT-23-6	2.35	1.88	1.41
AD7414ART-0REEL7	AD7414ART0REEL7TR-ND	Temp. Sensor 10-Bit	SOT-23-6	3609.00/3,000		
AD7414ART-1REEL7	AD7414ART1REEL7CT-ND	Temp. Sensor 10-Bit	SOT-23-6	2.35	1.88	1.41
AD7414ART-1REEL7	AD7414ART1REEL7TR-ND	Temp. Sensor 10-Bit	SOT-23-6	3609.00/3,000		
AD7414ARTZ-0500RL7	AD7414ART0500RCT-ND	Temp. Sensor 10-Bit* ***NEW!***	SOT-23-6	2.30	1.84	1.43
AD7414ARTZ-0500RL7	AD7414ART0500RTR-ND	Temp. Sensor 10-Bit* ***NEW!***	SOT-23-6	663.00/500		
AD7415ART-0500RL7	AD7415ART0500R7CT-ND	Temp. Sensor 10-Bit	SOT-23-5	2.30	1.84	1.43
AD7415ART-0500RL7	AD7415ART0500R7TR-ND	Temp. Sensor 10-Bit	SOT-23-5	663.00/500		
AD7416AR	AD7416AR-ND	Temp. Sensor 10-Bit	8-SOIC	2.34	1.88	1.46
AD7416ARZ	AD7416ARZ-ND	Temp. Sensor 10-Bit* ***NEW!***	8-SOIC	2.34	1.88	1.46
AD7416ARM	AD7416ARM-ND	Temp. Sensor 10-Bit	8-MSOP	2.34	1.88	1.46
AD7416ARMZ	AD7416ARMZ-ND	Temp. Sensor 10-Bit* ***NEW!***	8-MSOP	2.34	1.88	1.46
AD7814ARM	AD7814ARM-ND	Digital Temp. Sensor 10-Bit	8-MSOP	2.48	1.98	1.54
AD7814ARMZ	AD7814ARMZ-ND	Digital Temp. Sensor 10-Bit* ***NEW!***	8-MSOP	2.48	1.98	1.54
AD7814ART-REEL7	AD7814ART-REEL7CT-ND	Digital Temp. Sensor 10-Bit	SOT-23-6	2.25	1.80	1.35
AD7814ART-REEL7	AD7814ART-REEL7TR-ND	Digital Temp. Sensor 10-Bit	SOT-23-6	3456.00/3,000		
AD7814ARTZ-500RL7	AD7814ART2500RLCT-ND	Digital Temp. Sensor 10-Bit* ***NEW!***	SOT-23-6	2.25	1.80	1.40
AD7814ARTZ-500RL7	AD7814ART2500RLTR-ND	Digital Temp. Sensor 10-Bit* ***NEW!***	SOT-23-6	650.00/500		
AD22103KT	AD22103KT-ND	Temp. Sensor 3.3V Signal Conditioning	TO-92	2.86	2.29	1.78
AD22151YR	AD22151YR-ND	Magnetic Field Sensor Linear	8-SOIC	4.79	3.84	2.99

Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
ADM1021AARQZ	ADM1021AARQZ-ND	Digital Thermometer 2-Ch.	16-QSOP	7.90	6.32	5.34
ADM1022ARQ	ADM1022ARQ-ND	Sensor Temp./Detector 3/5.5V	16-QSOP	7.50	6.00	5.07
ADM1024ARU	ADM1024ARU-ND	Monitor System Temp./Volt	24-TSSOP	7.50	6.00	5.07
TMP01ES	TMP01ES-ND	Temp. Sensor/Controller	8-SOIC	8.38	6.71	5.66
TMP01FP	TMP01FP-ND	Temp. Sensor/Controller	8-Dip	5.10	4.08	3.45
TMP01FS	TMP01FS-ND	Temp. Sensor/Controller	8-SOIC	5.13	4.11	3.20
TMP04FS	TMP04FS-ND	Temp. Sensor/Serial	8-SOIC	5.60	4.48	3.78
TMP04FS-REEL	TMP04FS-REELCT-ND	Temp. Sensor/Serial	8-SOIC	5.60	4.48	3.78
TMP04FS-REEL	TMP04FS-REELTR-ND	Temp. Sensor/Serial	8-SOIC	8680.00/2,500		
TMP04FT9	TMP04FT9-ND	Temp. Sensor/Serial	TO-92	5.60	4.48	3.78
TMP12FS	TMP12FS-ND	Temp. Sensor/Airflow	8-SOIC	4.48	3.59	2.79
TMP35GRT-REEL7	TMP35GRT-REEL7CT-ND	Temp. Sensor 2.7/5.5V	SOT-23-5	1.20	1.00	.80
TMP35GRT-REEL7	TMP35GRT-REEL7TR-ND	Temp. Sensor 2.7/5.5V	SOT-23-5	1560.00/3,000		
TMP35GT9	TMP35GT9-ND	Temp. Sensor 2.7/5.5V	TO-92	1.20	1.00	.80
TMP36FS	TMP36FS-ND	Temp. Sensor 2.7/5.5V	8-SOIC	1.45	1.16	.87
TMP36FS-REEL	TMP36FS-REELCT-ND	Temp. Sensor 2.7/5.5V	8-SOIC	1.45	1.16	.87
TMP36FS-REEL	TMP36FS-REELTR-ND	Temp. Sensor 2.7/5.5V	8-SOIC	1855.00/2,500		
TMP36GS	TMP36GS-ND	Temp. Sensor 2.7/5.5V	8-SOIC	1.20	1.00	.80
TMP36GT9	TMP36GT9-ND	Temp. Sensor 2.7/5.5V	TO-92	1.20	1.00	.80
		Transmitter				
AD693AD	AD693AD-ND	Signal Conditioning 4-20mA Transmitter	20-Dip	24.05	22.45	20.84
AD693AQ	AD693AQ-ND	Signal Conditioning 4-20mA Transmitter	20-Dip	15.78	14.21	12.60
AD694AQ	AD694AQ-ND	Signal Conditioning 4-20mA Transmitter	16-CDip	14.78	13.31	11.80
AD694AR	AD694AR-ND	Transmitter 4-20mA	16-SOIC	9.93	8.94	7.93
AD694ARZ	AD694ARZ-ND	Transmitter 4-20mA* ***NEW!***	16-SOIC	9.93	8.94	7.93
AD694JN	AD694JN-ND	Transmitter 4-20mA	16-Dip	10.78	9.71	8.61
AD694JNZ	AD694JNZ-ND	Transmitter 4-20mA* ***NEW!***	16-Dip	10.78	9.71	8.61

ANALOG DEVICES — SIGNAL PROCESSOR

Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD9814JR	AD9814JR-ND	14-Bit CCD/CIS Signal Processor	28-SOIC	15.98	14.39	12.76
AD9821KST	AD9821KST-ND	12-Bit Image Signal Processor	48-LQFP	16.80	15.68	14.56
AD9822JR	AD9822JR-ND	14-Bit CCD/CIS Signal Processor	28-SOIC	6.94	5.56	4.69
AD9826KRS	AD9826KRS-ND	16-Bit Image Signal Processor	28-SSOP	9.16	8.25	7.32
AD9826KRSZ	AD9826KRSZ-ND	16-Bit Image Signal Processor	28-SSOP	9.16	8.25	7.32

ANALOG DEVICES — SPECIALIZED IC

Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD246JY	AD246JY-ND	Clock Driver	4-Dip	111.48	104.05	96.62
AD630JN	AD630JN-ND	Mod/Demod Balanced	20-Dip	16.14	14.54	12.89
AD5533BBC-1	AD5533BBC-1-ND	Infinite Sample and Hold 32-Ch.	74-CSPBGA	82.35	76.86	71.37
AD73311AR	AD73311AR-ND	Analog Front End Low Power	20-SOIC	7.84	6.28	5.30
AD73360ASU	AD73360ASU-ND	Analog Front End 6-Ch.	44-TQFP	13.73	12.36	10.96
AD73360LAR	AD73360LAR-ND	Analog Front End 6-Ch.	28-SOIC	9.10	8.19	7.27
AD73422BB-80	AD73422BB-80-ND	Front End Dual with DSP	119-BGA	35.21	32.86	30.52
AD7720BRU	AD7720BRU-ND	Modulator Sigma-Delta	28-TSSOP	15.68	14.12	12.52
AD8345ARE	AD8345ARE-ND	Quadrature Modulator 250MHz	16-TSSOP	8.68	7.82	6.93
AD8346ARU	AD8346ARU-ND	Quadrature Modulator 3GHz	16-TSSOP	9.24	7.40	6.24
AD8348ARU	AD8348ARU-ND	Quadrature Demodulator 50MHz	28-TSSOP	9.15	8.24	7.31
AD8348-EVAL	AD8348-EVAL-ND	Evaluation Board for AD8348 ***NEW!***	—	118.80	—	—
AD8383ACPZ	AD8383ACPZ-ND	10-Bit, 6-Ch. Output, Decimating LCD DecDriver®	48-LFCSP	8.20	6.56	5.54
AD8384ASVZ	AD8384ASVZ-ND	10-Bit, 6-Ch. Decimating LCD DecDriver®	80-TQFP	8.66	7.80	6.92
AD8389ACPZ	AD8389ACPZ-ND	Triple, 6-Ch. LCD Timing Delay Locked Loop	48-LFCSP	3.38	2.70	2.10
AD9856AST	AD9856AST-ND	Quadrature Digital Up Converter	48-TQFP	23.22	21.68	20.13
AD9857AST	AD9857AST-ND	Quadrature Digital Up Converter	80-QFP	24.65	23.01	21.36
AD9662ARQZ	AD9662ARQZ-ND	Laser Diode Driver 3-Ch.	16-QSOP	5.36	4.29	3.62
AD96685BRZ	AD96685BRZ-ND	Ultrafast Comparator	16-SOIC	5.84	4.68	3.95
ADM1041ARQ	ADM1041ARQ-ND	Secondary-Side Controller with Current Share/Housekeeping	24-QSOP	9.91	8.93	7.92
PKD01EP	PKD01EP-ND	Mono Peak Detector Reset/Hold	14-Dip	12.96	11.67	10.35
PKD01EY	PKD01EY-ND	Mono Peak Detector Reset/Hold	14-CDip	16.21	14.60	12.95

ANALOG DEVICES — SUPERVISORY CIRCUITS AND RESET GENERATORS

Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
ADM690AARN	ADM690AARN-ND	Supervisor MPU 4.65V Watchdog	8-SOIC	1.60	1.28	.96
ADM690AN	ADM690AN-ND	Supervisor MPU 4.65V Watchdog	8-Dip	1.60	1.28	.96
ADM691AAN	ADM691AAN-ND	Supervisor MPU 4.65V, 250mA	16-Dip	1.60	1.28	.96
ADM691AARN	ADM691AARN-ND	Supervisor MPU 4.65V, 250mA	16-SOIC	1.60	1.28	.96
ADM691AARW	ADM691AARW-ND	Supervisor MPU 4.65V, 250mA	16-SOIC	1.60	1.28	.96
ADM691AARW-REEL	ADM691AARW-REELCT-ND	Supervisor MPU 4.65V, 250mA	16-SOIC	3.87	3.10	2.41
ADM691AARW-REEL	ADM691AARW-REELTR-ND	Supervisor MPU 4.65V, 250mA	16-SOIC	832.00/1,000		
ADM691AN	ADM691AN-ND	Supervisor MPU 4.65V, 100mA	16-Dip	1.60	1.28	.96
ADM691AR	ADM691AR-ND	Supervisor MPU 4.65V, 250mA	16-SOIC	1.60	1.28	.96
ADM691AR-REEL	ADM691AR-REELTR-ND	Supervisor MPU 4.65V, 250mA	16-SOIC	832.00/1,000		
ADM692AN	ADM692AN-ND	Supervisor MPU 4.4V Watchdog	8-Dip	1.58	1.26	.95
ADM693AN	ADM693AN-ND	Supervisor MPU 4.4V Watchdog	16-Dip	1.58	1.26	.95
ADM693AR	ADM693AR-ND	Supervisor MPU 4.4V Watchdog	16-SOIC	1.58	1.26	.95
ADM694AN	ADM694AN-ND	Supervisor MPU 4.65V, 100mA	8-Dip	1.53	1.22	.92
ADM695AN	ADM695AN-ND	Supervisor MPU 4.65V, 100mA	16-Dip	1.53	1.22	.92
ADM695AR	ADM695AR-ND	Supervisor MPU 4.65V, 100mA	16-SOIC	1.53	1.22	.92
ADM696AR	ADM696AR-ND	Supervisor MPU 4.65V, 100mA	16-SOIC	1.48	1.18	.89
ADM699AN	ADM699AN-ND	Supervisor MPU 4.65V Watchdog	8-Dip	1.30	1.04	.78
ADM699AR	ADM699AR-ND	Supervisor MPU 4.65V Watchdog	16-SOIC	1.47	1.23	.98
ADM699AR-REEL	ADM699AR-REELCT-ND	Supervisor MPU 4.65V Watchdog	16-SOIC	1.47	1.23	.98
ADM699AR-REEL	ADM699AR-REELTR-ND	Supervisor MPU 4.65V Watchdog	16-SOIC	652.00/1,000		
ADM705AN	ADM705AN-ND	Supervisor MPU 4.65V Watchdog	8-Dip	1.32	1.10	.88
ADM705AR	ADM705AR-ND	Supervisor MPU 4.65V Watchdog	8-SOIC	1.38	1.15	.92
ADM705AR-REEL7	ADM705AR-REEL7TR-ND	Supervisor MPU 4.65V Watchdog	8-SOIC	612.00/1,000		
ADM706AN	ADM706AN-ND	Supervisor MPU 4.4V Watchdog	8-Dip	1.32	1.10	.88

* Lead Free/RoHS Compliant

(Continued)

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

ANALOG DEVICES — SUPERVISORY CIRCUITS AND RESET GENERATORS (Continued)

Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
ADM706AR	ADM706AR-ND	Supervisor MPU 4.4V Watchdog	8-SOIC	1.29	1.08	.86
ADM706RAR	ADM706RAR-ND	Supervisor MPU 2.63V Watchdog	8-SOIC	1.29	1.08	.86
ADM706SAR	ADM706SAR-ND	Supervisor MPU 2.93V Watchdog	8-SOIC	1.29	1.08	.86
ADM706TAR	ADM706TAR-ND	Supervisor MPU 3.08V Watchdog	8-SOIC	1.29	1.08	.86
ADM707AN	ADM707AN-ND	Supervisor MPU 4.65V Watchdog	8-Dip	1.32	1.10	.88
ADM707AR	ADM707AR-ND	Supervisor MPU 4.65V Watchdog	8-SOIC	1.29	1.08	.86
ADM707AR-REEL	ADM707AR-REELCT-ND	Supervisor MPU 4.65V Watchdog	8-SOIC	2.25	1.80	1.40
ADM707AR-REEL7	ADM707AR-REEL7R-ND	Supervisor MPU 4.65V Watchdog	8-SOIC		1397.50/2,500	
ADM708AN	ADM708AN-ND	Supervisor MPU 4.4V Watchdog	8-Dip	1.32	1.10	.88
ADM708AR	ADM708AR-ND	Supervisor MPU 4.4V Watchdog	8-SOIC	1.29	1.08	.86
ADM708RAR	ADM708RAR-ND	Supervisor MPU 2.63V Watchdog	8-SOIC	1.29	1.08	.86
ADM708SAR	ADM708SAR-ND	Supervisor MPU 2.93V Watchdog	8-SOIC	1.29	1.08	.86
ADM708TAR	ADM708TAR-ND	Supervisor MPU 3.08V Watchdog	8-SOIC	1.29	1.08	.86
ADM709LAN	ADM709LAN-ND	Supervisor MPU 4.65V	8-Dip	1.32	1.10	.88
ADM709LAR	ADM709LAR-ND	Supervisor MPU 4.65V	8-SOIC	1.11	.93	.74
ADM809LART-REEL7	ADM809LARTREEL7TR-ND	Supervisor MPU 4.63V	SOT-23		624.00/3,000	
ADM1232AN	ADM1232AN-ND	Supervisor/CPU	8-Dip	1.28	1.02	.77
ADM1232ARN	ADM1232ARN-ND	Supervisor/CPU	8-SOIC	1.28	1.02	.77
ADM6713LAKS-REEL7	ADM6713LAKS-RL7CT-ND	Supervisor Open Drain 4.63V	SC70-4	.78	.65	.52
ADM6713LAKS-REEL7	ADM6713LAKS-RL7TR-ND	Supervisor Open Drain 4.63V	SC70-4		1014.00/3,000	
ADM6713MAKS-REEL7	ADM6713MAKS-RL7CT-ND	Supervisor Open Drain 4.38V	SC70-4	.78	.65	.52
ADM6713MAKS-REEL7	ADM6713MAKS-RL7TR-ND	Supervisor Open Drain 4.38V	SC70-4		1014.00/3,000	
ADM6713RAKS-REEL7	ADM6713RAKS-RL7CT-ND	Supervisor Open Drain 2.63V	SC70-4	.78	.65	.52
ADM6713RAKS-REEL7	ADM6713RAKS-RL7TR-ND	Supervisor Open Drain 2.63V	SC70-4		1014.00/3,000	
ADM6713SAKS-REEL7	ADM6713SAKS-RL7CT-ND	Supervisor Open Drain 2.93V	SC70-4	.78	.65	.52
ADM6713SAKS-REEL7	ADM6713SAKS-RL7TR-ND	Supervisor Open Drain 2.93V	SC70-4		1014.00/3,000	
ADM6713TAKS-REEL7	ADM6713TAKS-RL7CT-ND	Supervisor Open Drain 3.08V	SC70-4	.78	.65	.52
ADM6713TAKS-REEL7	ADM6713TAKS-RL7TR-ND	Supervisor Open Drain 3.08V	SC70-4		1014.00/3,000	
ADM6713ZAKS-REEL7	ADM6713ZAKS-RL7CT-ND	Supervisor Open Drain 2.32V	SC70-4	.78	.65	.52
ADM6713ZAKS-REEL7	ADM6713ZAKS-RL7TR-ND	Supervisor Open Drain 2.32V	SC70-4		1014.00/3,000	
ADM809SART-REEL7	ADM809SART-RL7CT-ND	Supervisor Pushpull 2.93V	SOT-23	.40	.32	.24
ADM809SART-REEL7	ADM809SART-RL7TR-ND	Supervisor Pushpull 2.93V	SOT-23		624.00/3,000	
ADM809TART-REEL7	ADM809TART-RL7CT-ND	Supervisor Pushpull 3.08V	SOT-23	.64	.48	.36
ADM809TART-REEL7	ADM809TART-RL7TR-ND	Supervisor Pushpull 3.08V	SOT-23		624.00/3,000	
ADM810JAKS-REEL7	ADM810JAKS-RL7CT-ND	Supervisor Pushpull 4.0V	SC-70	1.50	1.20	.90
ADM810JAKS-REEL7	ADM810JAKS-RL7TR-ND	Supervisor Pushpull 4.0V	SC-70		2304.00/3,000	
ADM810LART-REEL7	ADM810LART-RL7CT-ND	Supervisor Pushpull 4.63V	SOT-23	.68	.51	.39
ADM810LART-REEL7	ADM810LART-RL7TR-ND	Supervisor Pushpull 4.63V	SOT-23		663.00/3,000	
ADM811LART-REEL7	ADM811LART-RL7CT-ND	Supervisor with Reset 4.63V	SOT-143-4	1.35	1.13	.90
ADM811LART-REEL7	ADM811LART-RL7TR-ND	Supervisor with Reset 4.63V	SOT-143-4		702.00/3,000	
ADM811RART-REEL7	ADM811RART-RL7CT-ND	Supervisor with Reset 2.63V	SOT-143-4	1.35	1.13	.90
ADM811RART-REEL7	ADM811RART-RL7TR-ND	Supervisor with Reset 2.63V	SOT-143-4		702.00/3,000	
ADM811SART-REEL7	ADM811SART-RL7CT-ND	Supervisor with Reset 2.93V	SOT-143-4	.72	.54	.41
ADM811SART-REEL7	ADM811SART-RL7TR-ND	Supervisor with Reset 2.93V	SOT-143-4		702.00/3,000	
ADM809-5SART-REEL7	ADM809-5SARTRL7CT-ND	Supervisor Pushpull 2.93V	SOT-23	1.55	1.24	.93
ADM809-5SART-REEL7	ADM809-5SARTRL7TR-ND	Supervisor Pushpull 2.93V	SOT-23		2382.00/3,000	
ADM1026JST-REEL7	ADM1026JSTREEL7CT-ND	Control System Reference/EEPROM	48-LQFP	9.91	8.93	7.92
ADM1026JST-REEL7	ADM1026JSTREEL7TR-ND	Control System Reference/EEPROM	48-LQFP		3719.00/500	
ADM1070ART-REEL7	ADM1070ARTREEL7CT-ND	Hotswap Controller 48V	SOT-23-6	3.49	2.79	2.17
ADM1070ART-REEL7	ADM1070ARTREEL7TR-ND	Hotswap Controller 48V	SOT-23-6		5859.00/3,000	
ADM1232ARN-REEL7	ADM1232ARNREEL7TR-ND	Supervisor for CPU	8-SOIC		663.00/1,000	
ADM1815-20ART-RL7	ADM1815202ARTRL7CT-ND	Monitor Reset 2.55V	SOT-23	1.17	.98	.78
ADM1815-20ART-RL7	ADM1815202ARTRL7TR-ND	Monitor Reset 2.55V	SOT-23		1521.00/3,000	
ADM1818-10ART-RL7	ADM1818102ARTRL7CT-ND	Monitor Reset 2.88V	SOT-23	1.20	1.00	.80
ADM1818-10ART-RL7	ADM1818102ARTRL7TR-ND	Monitor Reset 2.88V	SOT-23		1560.00/3,000	
ADM1818-20ART-RL7	ADM1818202ARTRL7CT-ND	Monitor Reset 2.55V	SOT-23	1.20	1.00	.80
ADM1818-20ART-RL7	ADM1818202ARTRL7TR-ND	Monitor Reset 2.55V	SOT-23		1560.00/3,000	
ADM8695ARW	ADM8695ARW-ND	Supervisor MPU 4.65V Adj.	16-SOIC	5.22	4.18	3.25
ADM9240ARU	ADM9240ARU-ND	MPU System Hardware Monitor	24-TSSOP	8.50	6.80	5.74
ADMC201AP	ADMC201AP-ND	Motion Co-Processor 25MHz	68-PLCC	22.71	21.20	19.69

ANALOG DEVICES — SWITCHES

Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
Analog						
AD7510DIJN	AD7510DIJN-ND	Switch Analog CMOS Quad Protection	16-Dip	10.50	9.45	8.38
AD7510DIKN	AD7510DIKN-ND	Switch Analog CMOS Quad Protection	16-Dip	11.56	10.41	9.24
AD7510DIKP	AD7510DIKP-ND	Switch Analog CMOS Quad Protection	20-PLCC	13.29	11.97	10.62
AD7511DIJN	AD7511DIJN-ND	Switch Analog CMOS Quad Protection	16-Dip	10.50	9.45	8.38
AD7511DIKN	AD7511DIKN-ND	Switch Analog CMOS Quad Protection	16-Dip	11.56	10.41	9.24
AD7512DIJN	AD7512DIJN-ND	Switch Analog CMOS Dual	14-Dip	10.50	9.45	8.38
AD7512DIKN	AD7512DIKN-ND	Switch Analog CMOS Dual	14-Dip	11.56	10.41	9.24
AD7512DIKNZ	AD7512DIKNZ-ND	Switch Analog CMOS Dual* **NEW!**	14-Dip	11.56	10.41	9.24
AD7512DIKQ	AD7512DIKQ-ND	Switch Analog CMOS Dual	16-CDip	22.41	20.92	19.43
ADG201ABQ	ADG201ABQ-ND	Switch Analog Quad SPST	16-CDip	5.56	4.45	3.76
ADG201AKN	ADG201AKN-ND	Switch Analog Quad SPST	16-Dip	3.22	2.58	2.01
ADG201AKR	ADG201AKR-ND	Switch Analog Quad SPST	16-SOIC	3.22	2.58	2.01
ADG201HSJN	ADG201HSJN-ND	Switch Analog HS Quad SPST	16-Dip	5.34	4.28	3.61
ADG201HSKR	ADG201HSKR-ND	Switch Analog HS Quad SPST	16-SOIC	8.74	7.00	5.90
ADG202AKN	ADG202AKN-ND	Switch Analog Quad SPST	16-Dip	3.22	2.58	2.01
ADG202AKR	ADG202AKR-ND	Switch Analog Quad SPST	16-SOIC	3.22	2.58	2.01
ADG211AKN	ADG211AKN-ND	Switch Analog Quad SPST	16-Dip	2.95	2.36	1.84
ADG211AKR	ADG211AKR-ND	Switch Analog Quad SPST	16-SOIC	2.95	2.36	1.84
ADG212AKN	ADG212AKN-ND	Switch Analog Quad SPST	16-Dip	2.95	2.36	1.84
ADG212AKR	ADG212AKR-ND	Switch Analog Quad SPST	16-SOIC	2.95	2.36	1.84
ADG221KN	ADG221KN-ND	Switch Analog Quad SPST	16-Dip	3.38	2.70	2.10
ADG221KR	ADG221KR-ND	Switch Analog Quad SPST	16-SOIC	3.38	2.70	2.10
ADG222KN	ADG222KN-ND	Switch Analog Quad Latches SPST	16-Dip	3.38	2.70	2.10
ADG333ABN	ADG333ABN-ND	Switch Analog Quad SPDT	20-Dip	6.42	5.14	4.34
ADG333ABR	ADG333ABR-ND	Switch Analog Quad SPDT	20-SOIC	6.42	5.14	4.34
ADG333ABRS	ADG333ABRS-ND	Switch Analog Quad SPDT	20-SSOP	6.42	5.14	4.34
ADG411BN	ADG411BN-ND	Switch Analog Quad Precision SPST	16-Dip	3.87	3.10	2.41
ADG411BR	ADG411BR-ND	Switch Analog Quad Precision SPST	16-SOIC	3.87	3.10	2.41
ADG412BN	ADG412BN-ND	Switch Analog Quad Precision SPST	16-Dip	3.94	3.15	2.45
ADG412BR	ADG412BR-ND	Switch Analog Quad Precision SPST	16-SOIC	3.87	3.10	2.41
ADG413BR	ADG413BR-ND	Switch Analog Quad SPST	16-SOIC	3.87	3.10	2.41
ADG417BR	ADG417BR-ND	Switch Analog Single	8-SOIC	2.25	1.80	1.35
ADG419BN	ADG419BN-ND	Switch Analog Single Precision	8-Dip	2.70	2.16	1.68
ADG419BR	ADG419BR-ND	Switch Analog Single Precision	8-SOIC	2.70	2.16	1.68
ADG419BRM	ADG419BRM-ND	Switch Analog Single Precision	8-MSOP	2.70	2.16	1.68
ADG419BRMZ	ADG419BRMZ-ND	Switch Analog Single Precision	8-MSOP	2.70	2.16	1.68
ADG419BRZ	ADG419BRZ-ND	Switch Analog Single Precision	8-SOIC	2.70	2.16	1.68
ADG431ABR	ADG431ABR-ND	Switch Analog Quad Precision SPST	16-SOIC	6.26	5.01	4.23
ADG431ABR-REEL7	ADG431ABR-REEL7CT-ND	Switch Analog Quad Precision SPST	16-SOIC	6.26	5.01	4.23
ADG431ABR-REEL7	ADG431ABR-REEL7TR-ND	Switch Analog Quad Precision SPST	16-SOIC		3913.00/1,000	
ADG431BR	ADG431BR-ND	Switch Analog Quad Precision SPST	16-SOIC	4.43	3.55	2.76
ADG432ABR	ADG432ABR-ND	Switch Analog Quad Precision SPST	16-SOIC	6.26	5.01	4.23
ADG432BN	ADG432BN-ND	Switch Analog Quad Precision SPST	16-Dip	4.43	3.55	2.76
ADG432BR	ADG432BR-ND	Switch Analog Quad Precision SPST	16-SOIC	4.43	3.55	2.76
ADG433ABR	ADG433ABR-ND	Switch Analog Quad Precision SPST	16-SOIC	6.26	5.01	4.23
ADG433BN	ADG433BN-ND	Switch Analog Quad Precision SPST	16-Dip	4.43	3.55	2.76
ADG433BR	ADG433BR-ND	Switch Analog Quad Precision SPST	16-SOIC	4.43	3.55	2.76
ADG436BN	ADG436BN-ND	Switch Analog Dual SPDT	16-Dip	5.44	4.36	3.68
ADG436BR	ADG436BR-ND	Switch Analog Dual SPDT	16-SOIC	5.44	4.36	3.68
ADG441BN	ADG441BN-ND	Switch Analog Quad SPST	16-Dip	3.13	2.51	1.95
ADG441BR	ADG441BR-ND	Switch Analog Quad SPST	16-SOIC	3.13	2.51	1.95
ADG442BN	ADG442BN-ND	Switch Analog Quad SPST	16-Dip	4.16	3.33	2.59
ADG442BR	ADG442BR-ND	Switch Analog Quad SPST	16-SOIC	3.13	2.51	1.95
ADG444BN	ADG444BN-ND	Switch Analog Quad SPST 5V	16-Dip	2.25	1.80	1.40
ADG444BR	ADG444BR-ND	Switch Analog Quad SPST 5V	16-SOIC	2.25	1.80	1.40
ADG451BR	ADG451BR-ND	Switch Analog Quad 4-Ohm	16-SOIC	5.00	4.00	3.38
ADG451BRUZ	ADG451BRUZ-ND	Switch Analog Quad 4-Ohm	16-SOIC	5.00	4.00	3.38
ADG452BN	ADG452BN-ND	Switch Analog Quad 4-Ohm	16-Dip	5.00	4.00	3.38
ADG452BR	ADG452BR-ND	Switch Analog Quad 4-Ohm	16-SOIC	5.00	4.00	3.38
ADG452BRZ	ADG452BRZ-ND	Switch Analog Quad 4-Ohm **NEW!**	16-SOIC	5.00	4.00	3.38
ADG452BRUZ	ADG452BRUZ-ND	Switch Analog Quad 4-Ohm	16-SOIC	5.00	4.00	3.38
ADG453BR	ADG453BR-ND	Switch Analog Quad 4-Ohm	16-SOIC	5.00	4.00	3.38
ADG453BRUZ	ADG453BRUZ-ND	Switch Analog Quad 4-Ohm	16-SOIC	5.00	4.00	3.38
ADG511ABR	ADG511ABR-ND	Switch L2CMOS Quad 5/3V	16-SOIC	5.49	4.40	3.42
ADG511BR	ADG511BR-ND	Switch L2CMOS Quad 5/3V	16-SOIC	4.64	3.71	2.89
ADG512BR	ADG512BR-ND	Switch L2CMOS Quad 5/3V	16-SOIC	4.64	3.71	2.89
ADG702BRJ-500RL7	ADG702BRJ500RL7CT-ND	Switch CMOS 2-Ohm SPST	SOT-23-5	1.65	1.32	.99
ADG702BRJ-500RL7	ADG702BRJ500RL7TR-ND	Switch CMOS 2-Ohm SPST	SOT-23-5		445.50/500	
ADG811YRU	ADG811YRU-ND	Switch CMOS Quad SPST	16-TSSOP	3.35	2.69	2.09
ADG812YRU	ADG812YRU-ND	Switch CMOS Quad SPST	16-TSSOP	3.35	2.69	2.09
ADG813YRU	ADG813YRU-ND	Switch CMOS Quad SPST	16-TSSOP	3.35	2.69	2.09
ADG849YKSZ-500RL7	ADG849YKSZ500RLCT-ND	3V/5V CMOS 0.5-Ohm SPDT/2:1 Mux Switch	SC70-6	1.95	1.56	1.17
ADG849YKSZ-500RL7	ADG849YKSZ500RLTR-ND	3V/5V CMOS 0.5-Ohm SPDT/2:1 Mux Switch	SC70-6		526.50/500	
ADG904BRU	ADG904BRU-ND	Wideband, CMOS 1.65V-2.75V, 4:1 Mux/SP4T	20-TSSOP	3.70	2.96	2.50
ADG936BRU-R	ADG936BRU-R-ND	1.65V-2.75V, SPDT Dual Switch	20-TSSOP	4.16	3.33	2.59
SW06GP	SW06GP-ND	Switch Quad JFET Analog SPST	16-Dip	4.07	3.26	2.54
SW06GS	SW06GS-ND	Switch Quad JFET Analog SPST	16-SOIC	3.80	3.05	2.37
Audio/Video						
AD7592DIKN	AD7592DIKN-ND	Switch Analog w/Data Latch	14-Dip	12.20	10.98	9.74
AD7592DIKNZ	AD7592DIKNZ-ND	Switch Analog w/Data Latch* **NEW!**	14-Dip	12.20	10.98	9.74
AD8108AST	AD8108AST-ND	Video Switch 8x8 with Buffer	80-LQFP	28.07	26.20	24.33
AD8108ASTZ	AD8108ASTZ-ND	Video Switch 8x8 with Buffer	80-LQFP	28.07	26.20	24.33
AD8109AST	AD8109AST-ND	Video Switch 8x8 with Buffer	80-LQFP	28.07	26.20	24.33
AD8110AST	AD8110AST-ND	Video Switch 16x8 with Buffer	80-LQFP	57.36	53.54	49.72
AD8111AST	AD8111AST-ND	Video Crosspoint Switch	80-LQFP	57.36	53.54	49.72
AD8111ASTZ	AD8111ASTZ-ND	Video Crosspoint Switch* **NEW!**	80-LQFP	57.36	53.54	49.72
AD8113JST	AD8113JST-ND	Audio/Video Switch 16x16 w/Buff.	100-LQFP	44.91	41.92	38.93
AD8114AST	AD8114AST-ND	Video Crosspoint Switch 16x16	100-LQFP	117.44	109.61	101.78
AD8115AST	AD8115AST-ND	Video Crosspoint Switch 16x16	100-LQFP	117.44	109.61	101.78
AD8116JST	AD8116JST-ND	Video Switch 16x16 w/Buff.	128-LQFP	139.41	130.12	120.83
AD8152JBP	AD8152JBP-ND	Async. Digital X-Point Switch	256-BGA	250.20	233.52	216.84
AD75019JP	AD75019JP-ND	Crosspoint Switch Array 16x16	44-PLCC	22.58	21.07	19.57
ADG836LYRM	ADG836LYRM-ND	0.5-Ohm CMOS 1.65V-3.6V Dual SPDT 2:1 Mux	10-MSOP	2.40	1.92	1.62
SSM2402S	SSM2402S-ND	Switch Dual Audio Analog	16-SOIC	6.68	5.35	4.51
SSM2404P	SSM2404P-ND	Switch Quad Audio Analog	20-Dip	6.54	5.24	4.42
SSM2404S	SSM2404S-ND	Switch Quad Audio Analog	20-SOIC	6.54	5.24	4.42
Bus						
ADG3233BRJ-REEL7	ADG3233BRJREEL7CT-ND	Switch Logic Level Translation 1.65/3.6V Bypass	SOT-23-8	1.43	1.14	.86
ADG3233BRJ-REEL7	ADG3233BRJREEL7TR-ND	Switch Logic Level Translation 1.65/3.6V Bypass	SOT-23-8		2190.00/3,000	
ADG3233BRM	ADG3233BRM-ND	Switch 1.65/3.6V Bypass	8-MSOP	1.73	1.38	1.04
ADG3233BRM-REEL7	ADG3233BRMREEL7CT-ND	Switch 1.65/3.6V Bypass	8-MSOP	1.73	1.38	1.04
ADG3233BRM-REEL7	ADG3233BRMREEL7TR-ND	Switch 1.65/3.6V Bypass	8-MSOP		897.00/1,000	
ADG3242BRJ-R2	ADG3242BRJ-R2CT-ND	Switch Bus Controller 2.5/3.3V	SOT-23-8	1.70	1.36	1.02
ADG3242BRJ-R2	ADG3242BRJ-R2TR-ND	Switch Bus Controller 2.5/3.3V	SOT-23-8		238.00/250	
ADG3243BRJ-R2	ADG3243BRJ-R2CT-ND	Switch Bus Control 2.5/3.3V	SOT-23-8	1.70	1.36	1.02
ADG3243BRJ-R2	ADG3243BRJ-R2TR-ND	Switch Bus Control 2.5/3.3V	SOT-23-8		238.00/250	
ADG3245BRU	ADG3245BRU-ND	Switch Bus 2.5/3.3V, 8-Bit	20-TSSOP	2.18	1.74	1.31
ADG3246BRU	ADG3246BRU-ND	Switch Bus 2.5/3.3V, 10-Bit	24-TSSOP	2.25	1.80	1.35
ADG3247BCP	ADG3247BCP-ND	Switch Bus 2.5/3.3V, 16-Bit	40-LFCSP	2.68	2.15	1.67
ADG3247BRU	ADG3247BRU-ND	Switch Bus 2.5/3.3V, 16-Bit	38-TSSOP	3.24	2.60	2.02
ADG3248BKS-R2	ADG3248BKS-R2CT-ND	Mux/Demux Bus Switch 2:1	SC70-6	1.70	1.36	1.02
ADG3248BKS-R2	ADG3248BKS-R2TR-ND	Mux/Demux Bus Switch 2:2	SC70-6		238.00/250	
ADG3249BRJ-R2	ADG3249BRJ-R2CT-ND	Mux/Demux Bus Switch 2:3	SOT-23-8	1.70	1.36	1.02
ADG3249BRJ-R2	ADG3249BRJ-R2TR-ND	Mux/Demux Bus Switch 2:4	SOT-23-8		238.00/250	
ADG3257BRQ	ADG3257BRQ-ND	Mux/Demux Quad 3.3/5V HS	16-QSOP	1.75	1.40	1.05
Crosspoint						
AD8150AST	AD8150AST-ND	Digital Crosspoint Switch 33x17	184-LQFP	152.87	—	—
AD8150ASTZ	AD8150ASTZ-ND	Digital Crosspoint Switch 33x17* **NEW!**	184-LQFP	152.87	—	—
AD8152JBPZ	AD8152JBPZ-ND	Digital Crosspoint Switch 34x34	256-BGA	250.20	—	—
RF/Video						
ADG511BN	ADG511BN-ND	Switch CMOS Quad 5/3V	16-Dip	4.64	3.71	2.89
ADG513BR	ADG513BR-ND	Switch CMOS Quad 5/3V	16-SOIC	4.64	3.71	2.89
ADG601BRT-REEL7	ADG601BRT-REEL7CT-ND	Switch Tiny 2-Ohm SPST	SOT-23-6	2.23	1.78	1.34
ADG601BRT-REEL7	ADG601BRT-REEL7TR-ND	Switch Tiny 2-Ohm SPST	SOT-23-6		3417.00/3,000	
ADG611YRU	ADG611YRU-ND	Switch Quad 3/5V SPST	16-TSSOP	3.83	3.06	2.38
ADG612YRU	ADG612YRU-ND	Switch Quad 3/5V SPST	16-TSSOP	3.83	3.06	2.38
ADG613YRU	ADG613YRU-ND	Switch Quad 3/5V SPST	16-TSSOP	3.83	3.06	2.38
ADG619BRM	ADG619BRM-ND	Switch 2.7/5.5 SPDT BBM	8-MSOP	2.48	1.98	1.54
ADG633YRU	ADG633YRU-ND	Tri-Switch 3/5V SPDT	16-TSSOP	2.25	1.80	1.40
ADG636YRU	ADG636YRU-ND	Switch Dual 3/5V SPDT	14-TSSOP	4.10	3.28	2.55

* Lead Free/RoHS Compliant

(Continued)

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ANALOG DEVICES — SWITCHES (Continued)

Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	25	100
ADG711BR	ADG711BR-ND	Switch Quad SPST 1.8/5.5V	16-SOIC	2.48	1.98	1.54
ADG711BRU	ADG711BRU-ND	Switch Quad SPST 1.8/5.5V	16-TSSOP	2.48	1.98	1.54
ADG712BR	ADG712BR-ND	Switch Quad SPST 1.8/5.5V	16-SOIC	2.48	1.98	1.54
ADG712BRU	ADG712BRU-ND	Switch Quad SPST 1.8/5.5V	16-TSSOP	2.48	1.98	1.54
ADG713BRU	ADG713BRU-ND	Switch Quad SPST 1.8/5.5V	16-TSSOP	2.48	1.98	1.54
ADG714BRU	ADG714BRU-ND	Switch Octal Serial 2.7/5.5V	24-TSSOP	4.82	3.86	3.00
ADG715BRU	ADG715BRU-ND	Switch Octal Serial 2.7/5.5V	24-TSSOP	4.82	3.86	3.00
ADG719BRM	ADG719BRM-ND	Switch Single SPDT 1.8/5.5V	8-MSOP	1.93	1.54	1.16
ADG719BRT-REEL7	ADG719BRT-REEL7CT-ND	Switch SPDT 1.8/5.5V	SOT-23-6	1.75	1.40	1.05
ADG719BRT-REEL7	ADG719BRT-REEL7TR-ND	Switch SPDT 1.8/5.5V	SOT-23-6	2688.00/3,000		
ADG721BRM	ADG721BRM-ND	Switch Dual SPST 1.8/5.5V	8-MSOP	1.93	1.54	1.16
ADG723BRM	ADG723BRM-ND	Switch Dual SPST 1.8/5.5V	8-MSOP	1.93	1.54	1.16
ADG734BRU	ADG734BRU-ND	Switch Quad 1.8/5.5V SPDT	20-TSSOP	3.71	2.97	2.31
ADG734BRU-REEL7	ADG734BRU-REEL7CT-ND	Switch Quad 1.8/5.5V SPDT	20-TSSOP	3.71	2.97	2.31
ADG734BRU-REEL7	ADG734BRU-REEL7TR-ND	Switch Quad 1.8/5.5V SPDT	20-TSSOP	2104.00/1,000		
ADG736BRM	ADG736BRM-ND	Switch Dual SPDT 1.8/5.5V	10-MSOP	2.30	1.84	1.43
ADG736BRM-REEL7	ADG736BRM-REEL7CT-ND	Switch Dual SPDT 1.8/5.5V	10-MSOP	2.30	1.84	1.43
ADG736BRM-REEL7	ADG736BRM-REEL7TR-ND	Switch Dual SPDT 1.8/5.5V	10-MSOP	1301.00/1,000		
ADG779BKS-REEL7	ADG779BKS-REEL7CT-ND	Switch SPDT 1.8/5.5V	SC70-6	1.60	1.28	.96
ADG779BKS-REEL7	ADG779BKS-REEL7TR-ND	Switch SPDT 1.8/5.5V	SC70-6	2496.00/3,000		
ADG788BCP	ADG788BCP-ND	Switch Quad 1.8/5.5V SPDT	20-LFCSP	3.71	2.97	2.31
ADG801BRM	ADG801BRM-ND	Switch Single SPST 1.8/5.5V	8-MSOP	2.41	1.93	1.50
ADG802BRM	ADG802BRM-ND	Switch Single SPST 1.8/5.5V	8-MSOP	2.41	1.93	1.50
ADG819BRM	ADG819BRM-ND	Switch Fast SPDT 1.8/5.5V	8-MSOP	2.54	2.04	1.59
ADG820BRM	ADG820BRM-ND	Switch Fast SPDT 1.8/5.5V	8-MSOP	2.54	2.04	1.59
ADG821BRM	ADG821BRM-ND	Switch Dual SPST 1.8/5.5V	8-MSOP	2.70	2.16	1.68
ADG822BRM	ADG822BRM-ND	Switch Dual SPST 1.8/5.5V	8-MSOP	2.70	2.16	1.68
ADG823BRM	ADG823BRM-ND	Switch Dual SPST 1.8/5.5V	8-MSOP	2.70	2.16	1.68
ADG836YRM	ADG836YRM-ND	Switch Dual SPDT 1.6/3.6V	10-MSOP	2.70	2.16	1.68
ADG901BRM	ADG901BRM-ND	Switch Single HS SPST 1.6/2.7V	8-MSOP	2.81	2.25	1.75
ADG902BRM	ADG902BRM-ND	Switch Single HS SPST 1.6/2.7V	8-MSOP	2.81	2.25	1.75
ADG918BRM	ADG918BRM-ND	Switch Single HS SPDT 1.6/2.7V	8-MSOP	2.93	2.34	1.82
ADG919BRM	ADG919BRM-ND	Switch Single HS SPDT 1.6/2.7V	8-MSOP	2.93	2.34	1.82

freescale — ADVANCED CLOCK GENERATORS

Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	25	100
Buffers					
MC100ES6011D-ND	2.5V/3.3V ECL 1:2 Differential Fanout Buffer **NEW!**	8-SOIC	7.69	5.49	4.99
MC100ES6111AC-ND	Low Voltage Differential Fanout Buffer **NEW!**	32-LQFP	10.53	7.97	7.35
MC100ES6111FA-ND	Low Voltage Differential Fanout Buffer	32-LQFP	10.53	7.97	7.35
MC100ES6111FAR2CT-ND	Low Voltage Differential Fanout Buffer	32-LQFP	10.53	7.97	7.35
MC100ES6111FAR2TR-ND	Low Voltage Differential Fanout Buffer	32-LQFP	13200.00/2,000		
MC100ES6210AC-ND	Low Voltage Differential Fanout Buffer **NEW!**	32-LQFP	10.53	7.97	7.35
MC100ES6210FA-ND	Low Voltage Differential Fanout Buffer	32-LQFP	10.53	7.97	7.35
MC100ES6220TB-ND	Low Voltage Dual 1:10 Differential Fanout Buffer	52-LQFP	13.14	9.94	9.16
MC100ES6221TB-ND	Low Voltage 1:20 Differential Fanout Buffer	52-LQFP	11.89	9.00	8.30
MC100ES6222TB-ND	Low Voltage 1:15 Differential Fanout Buffer	52-LQFP	11.13	8.42	7.76
MC100ES6226AC-ND	Low Voltage 1:9 Differential Clock Driver **NEW!**	32-LQFP	10.78	8.16	7.52
MC100ES6226FA-ND	Low Voltage 1:9 Differential Clock Driver	32-LQFP	10.78	8.16	7.52
MC100ES6254AC-ND	Low Voltage Differential Fanout Buffer **NEW!**	32-LQFP	11.30	8.55	7.88
MC100ES6254FA-ND	Low Voltage Differential Fanout Buffer	32-LQFP	11.30	8.55	7.88
MC100ES6535DT-ND	3.3V LVCMOS to LVPECL 1:4 Fanout Buffer **NEW!**	20-TSSOP	13.16	9.95	9.18
MC100ES8111FA-ND	Low Voltage 1:10 Diff. HSTL Clock Fanout Buffer **NEW!**	32-LQFP	13.39	10.13	9.34
MPC961CFA-ND	Low Voltage Zero Delay Buffer	32-LQFP	10.19	6.96	6.62
MPC961PFA-ND	Low Voltage Zero Delay Buffer	32-LQFP	10.40	7.10	6.76
MPC9443AE-ND	1:16 LVCMOS Clock Fanout Buffer **NEW!**	48-LQFP	8.98	6.13	5.83
MPC9443FA-ND	1:16 LVCMOS Clock Fanout Buffer	48-LQFP	8.98	6.13	5.83
MPC9446AC-ND	1:10 LVCMOS Clock Distribution Buffer **NEW!**	32-LQFP	6.43	4.60	4.18
MPC9446FA-ND	1:10 LVCMOS Clock Distribution Buffer	32-LQFP	6.43	4.60	4.18
MPC9446FAR2CT-ND	1:10 LVCMOS Clock Distribution Buffer	32-LQFP	6.43	4.60	4.18
MPC9446FAR2TR-ND	1:10 LVCMOS Clock Distribution Buffer	32-LQFP	7436.00/2,000		
MPC9447AC-ND	1:9 LVCMOS Clock Fanout Buffer **NEW!**	32-LQFP	6.43	4.60	4.18
MPC9447FA-ND	1:9 LVCMOS Clock Fanout Buffer	32-LQFP	6.43	4.60	4.18
MPC9448AC-ND	1:12 LVCMOS Clock Fanout Buffer **NEW!**	32-LQFP	6.43	4.60	4.18
MPC9448FA-ND	1:12 LVCMOS Clock Fanout Buffer	32-LQFP	6.43	4.60	4.18
MPC9448FAR2CT-ND	1:12 LVCMOS Clock Fanout Buffer	32-LQFP	6.43	4.60	4.18
MPC9448FAR2TR-ND	1:12 LVCMOS Clock Fanout Buffer	32-LQFP	7436.00/2,000		
MPC9449AE-ND	1:15 PECL/LVCMOS Clock Fanout Buffer **NEW!**	52-LQFP	8.28	5.92	5.38
MPC9449FA-ND	1:15 PECL/LVCMOS Clock Fanout Buffer	52-LQFP	8.28	5.92	5.38
MPC9449FAR2CT-ND	1:15 PECL/LVCMOS Clock Fanout Buffer	52-LQFP	8.28	5.92	5.38
MPC9449FAR2TR-ND	1:15 PECL/LVCMOS Clock Fanout Buffer	52-LQFP	7177.50/1,500		
MPC9456AC-ND	1:10 LVCMOS Clock Distribution Buffer **NEW!**	32-LQFP	8.26	5.90	5.37
MPC9456FA-ND	1:10 LVCMOS Clock Distribution Buffer	32-LQFP	8.26	5.90	5.37
MPC9608AC-ND	1:10 LVCMOS Zero Delay Clock Buffer **NEW!**	32-LQFP	6.43	4.60	4.18
MPC9608FA-ND	1:10 LVCMOS Zero Delay Clock Buffer **NEW!**	32-LQFP	6.43	4.60	4.18
MPC962305D-1-ND	Low-Cost 3.3V Zero Delay Buffer **NEW!**	8-SOIC	1.76	1.08	.93
MPC962305D-1H-ND	Low-Cost 3.3V Zero Delay Buffer **NEW!**	8-SOIC	1.88	1.15	.99
MPC962305DT-1H-ND	Low-Cost 3.3V Zero Delay Buffer **NEW!**	8-TSSOP	1.88	1.15	.99
MPC962308D-1-ND	3.3V Zero Delay Buffer **NEW!**	16-SOIC	3.23	2.07	1.87
MPC962308D-1H-ND	3.3V Zero Delay Buffer **NEW!**	16-SOIC	3.33	2.14	1.93
MPC962308DT-1H-ND	3.3V Zero Delay Buffer **NEW!**	16-TSSOP	3.33	2.14	1.93
MPC962309D-1-ND	Low-Cost 3.3V Zero Delay Buffer **NEW!**	16-SOIC	2.80	1.71	1.48
MPC962309D-1H-ND	Low-Cost 3.3V Zero Delay Buffer **NEW!**	16-SOIC	2.50	1.61	1.45
MPC962309DT-1H-ND	Low-Cost 3.3V Zero Delay Buffer **NEW!**	16-TSSOP	2.50	1.61	1.45
Clock Generators					
MC100ES60T22D-ND	3.3V Dual LVTTL/LVCMOS to Diff. LVPECL Translator **NEW!**	8-SOIC	5.33	3.23	3.09
MC100ES6014DT-ND	2.5V/3.3V 1:5 Differential ECL/PECL/HSTL/LVDS Clock Driver **NEW!**	20-TSSOP	9.75	7.38	6.80
MC100ES6039DW-ND	3.3V ECL/PECL/HSTL/LVDS Clock Generation Chip **NEW!**	20-SOIC	12.41	9.39	8.66
MC100ES6056DT-ND	2.5V/3.3V ECL/PECL/LVDS Dual Diff. 2:1 Mux **NEW!**	20-TSSOP	11.15	8.43	7.77
MC100ES6130DT-ND	2.5V/3.3V, 1:4 PECL Clock Driver with 2:1 Input Mux **NEW!**	16-TSSOP	12.77	9.66	8.91
MC100ES6139DT-ND	3.3V-ECL/PECL/HSTL/LVDS Clock Generation Chip **NEW!**	20-TSSOP	13.06	9.88	9.11
MC88LV915TEI-ND	Tri-State, 100MHz, Low Volt., PLL Clock Driver **NEW!**	28-PLCC	8.70	5.94	5.65
MC88LV915TFN-ND	Tri-State, 100MHz, Low Volt. PLL Clock Driver	28-PLCC	8.70	5.94	5.65
MC88LV915TFNR2CT-ND	Tri-State, 100MHz, Low Volt. PLL Clock Driver	28-PLCC	8.70	5.94	5.65
MC88LV915TFNR2TR-ND	Tri-State, 100MHz, Low Volt. PLL Clock Driver	28-PLCC	5150.00/1,000		
MC88LV926DWR2CT-ND	Low Skew CMOS PLL 68060 Clock Driver	20-SOIC	9.07	6.19	5.89
MC88LV926DWR2TR-ND	Low Skew CMOS PLL 68060 Clock Driver	20-SOIC	5363.00/1,000		
MC14489BDWR2CT-ND	Multi-Character LED Display/Lamp Driver	20-SOG	4.50	2.89	2.61
MC14489BDWR2TR-ND	Multi-Character LED Display/Lamp Driver	20-SOG	2336.00/1,000		
MC88915EI55-ND	55MHz, Low Skew CMOS PLL Clock Driver **NEW!**	28-PLCC	8.13	5.81	5.28
MC88915EI70-ND	70MHz, Low Skew CMOS PLL Clock Driver **NEW!**	28-PLCC	8.43	6.02	5.48
MC88915FN55-ND	55MHz, Low Skew PLL Clock Driver	28-PLCC	7.62	5.57	5.18
MC88915FN55R2CT-ND	55MHz, Low Skew PLL Clock Driver	28-PLCC	8.13	5.81	5.28
MC88915FN55R2TR-ND	55MHz, Low Skew PLL Clock Driver	28-PLCC	2485.50/500		
MC88915FN70-ND	70MHz, Low Skew PLL Clock Driver	28-PLCC	8.43	5.75	5.48
MC88915FN70R2CT-ND	70MHz, Low Skew PLL Clock Driver	28-PLCC	8.43	6.02	5.48
MC88915FN70R2TR-ND	70MHz, Low Skew PLL Clock Driver	28-PLCC	2576.50/500		
MC88915TFN55-ND	Tri-State, 55MHz, Low Skew PLL Clock Driver	28-PLCC	8.43	6.22	5.80
MC88915TFN70-ND	Tri-State, 70MHz, Low Skew PLL Clock Driver	28-PLCC	8.43	5.75	5.48
MC88915TFN70R2CT-ND	Tri-State, 70MHz, Low Skew PLL Clock Driver	28-PLCC	8.43	6.02	5.48
MC88915TFN70R2TR-ND	Tri-State, 70MHz, Low Skew PLL Clock Driver	28-PLCC	2576.50/500		
MC88915TFN100-ND	Tri-State, 100MHz, Low Skew PLL Clock Driver	28-PLCC	8.96	6.12	5.82
MC88915TFN100CT-ND	Tri-State, 100MHz, Low Skew PLL Clock Driver	28-PLCC	9.21	6.85	6.40
MC88915TFN100TR-ND	Tri-State, 100MHz, Low Skew PLL Clock Driver	28-PLCC	2738.78/500		
MC88915TFN133R2CT-ND	Tri-State, 133MHz, Low Skew PLL Clock Driver	28-PLCC	9.40	6.42	6.11
MC88915TFN133R2TR-ND	Tri-State, 133MHz, Low Skew PLL Clock Driver	28-PLCC	2875.00/500		
MC88915TFN160-ND	Tri-State, 160MHz, Low Skew PLL Clock Driver	28-PLCC	9.68	6.61	6.29
MC88916DW70-ND	70MHz, Low Skew PLL Clock Driver with Reset	20-SOIC	12.35	9.43	8.84
MC88916DW80-ND	80MHz, Low Skew PLL Clock Driver with Reset	20-SOIC	13.21	10.00	9.22
MC88920DW-ND	50MHz, Low Skew PLL Clock Driver with Power Control	20-SOIC	10.50	7.90	7.39
MPC93H51FA-ND	3.3V Low Voltage PLL Clock Generator **NEW!**	32-LQFP	6.67	4.77	4.33
MPC93H52FA-ND	3.3V, 1:11 LVCMOS Zero Delay Clock Generator **NEW!**	32-LQFP	5.86	4.19	3.81
MPC93R51AC-ND	3.3V Low Voltage PLL Clock Generator **NEW!**	32-LQFP	6.67	4.77	4.33
MPC93R51FA-ND	3.3V Low Voltage PLL Clock Generator **NEW!**	32-LQFP	6.67	4.77	4.33
MPC93R52FA-ND	3.3V, 1:11 LVCMOS Zero Delay Clock Generator	32-LQFP	6.67	4.77	4.33
MPC97H73FA-ND	3.3V, 1:12 LVCMOS PLL Clock Generator **NEW!**	52-LQFP	7.86	5.61	5.10
MPC97H74FA-ND	3.3V, 1:14 LVCMOS PLL Clock Generator **NEW!**	52-LQFP	7.86	5.61	5.10
MPC99J93FA-ND	Intelligent Dynamic Clock Switch (IDCS) PLL Clock Driver	32-LQFP	6.67	4.77	4.33
MPC905DR2CT-ND	1:6 PCI Clock Generator/Fanout Buffer	16-SOIC	3.70	2.38	2.15
MPC905DR2TR-ND	1:6 PCI Clock Generator/Fanout Buffer	16-SOIC	4647.50/2,500		
MPC940LAC-ND	Low Voltage 1:18 Clock Distribution Chip **NEW!**	32-LQFP	5.52	3.95	3.59
MPC940LFA-ND	Low Voltage 1:18 Clock Distribution Chip	32-LQFP	5.52	3.95	3.59
MPC940LFACT-ND	Low Voltage 1:18 Clock Distribution Chip	32-LQFP	5.52	3.95	3.59
MPC940LFATR-ND	Low Voltage 1:18 Clock Distribution Chip	32-LQFP	6630.00/2,000		
MPC941AE-ND	Low Voltage 1:27 Clock Distribution Chip **NEW!**	48-LQFP	11.64	8.81	8.12
MPC941FA-ND	Low Voltage 1:27 Clock Distribution Chip	48-LQFP	11.64	8.81	8.12
MPC942CAC-ND	Low Voltage 1:18 Clock Distribution Chip **NEW!**	32-TQFP	6.92	4.95	4.50
MPC942CFA-ND	Low Voltage 1:18 Clock Distribution Chip	32-TQFP	6.92	4.95	4.50
MPC942PAC-ND	Low Voltage 1:18 Clock Distribution Chip **NEW!**	32-LQFP	8.17	5.84	5.31
MPC942PFA-ND	Low Voltage 1:18 Clock Distribution Chip	32-LQFP	8.17	5.84	5.31
MPC9109AC-ND	Low Voltage 1:18 Clock Distribution Chip **NEW!**	32-QFP	4.83	3.10	2.80
MPC9109FA-ND	Low Voltage 1:18 Clock Distribution Chip	32-LQFP	4.83	3.10	2.80
MPC9229AC-ND	400MHz Low Voltage Clock Synthesizer **NEW!**	32-LQFP	8.53	5.83	5.54
MPC9229FA-ND	400MHz Low Voltage Clock Synthesizer	32-LQFP	8.53	5.83	5.54
MPC9229FN-ND	400MHz Low Voltage Clock Synthesizer	28-PLCC	8.53	5.83	5.54
MPC9230AC-ND	800MHz Low Voltage Clock Synthesizer **NEW!**	32-LQFP	8.98	6.13	5.83
MPC9230FA-ND	800MHz Low Voltage Clock Synthesizer	32-LQFP	8.98	6.13	5.83
MPC9230FN-ND	800MHz Low Voltage Clock Synthesizer	28-PLCC	8.98	6.13	5.83
MPC9239FA-ND	900MHz Low Voltage Clock Synthesizer	32-LQFP	9.28	6.33	6.03
MPC9239FN-ND	900MHz Low Voltage Clock Synthesizer	28-PLCC	9.28	6.33	6.03
MPC9315AC-ND	Low Voltage CMOS PLL Clock Generator/Driver **NEW!**	32-LQFP	8.07	5.77	5.24
MPC9315FA-ND	Low Voltage CMOS PLL Clock Generator/Driver	32-LQFP	8.07	5.77	5.24
MPC9330AC-ND	1:6 Low Voltage PLL Clock Synthesizer **NEW!**	32-LQFP	10.38	7.09	6.74
MPC9330FA-ND	1:6 Low Voltage PLL Clock Synthesizer	32-LQFP	10.38	7.09	6.74
MPC9331AC-ND	3.3V, 1:6 LVCMOS PLL Clock Generator **NEW!**	32-LQFP	10.38	7.09	6.74
MPC9331FA-ND	3.3V, 1:6 LVCMOS PLL Clock Generator	32-LQFP	10.38	7.09	6.74
MPC9331FAR2CT-ND	3.3V, 1:6 LVCMOS PLL Clock Generator	32-LQFP	10.38	7.09	6.74
MPC9331FAR2TR-ND	3.3V, 1:6 LVCMOS PLL Clock Generator	32-LQFP	12000.00/2,000		
MPC9350AC-ND	Low Voltage CMOS PLL Clock Generator **NEW!**	32-LQFP	7.62	5.45	4.95
MPC9350FA-ND	Low Voltage CMOS PLL Clock Generator	32-LQFP	7.62	5.45	4.95
MPC9351AC-ND	2.5V/3.3V, CMOS PLL CLock Generator **NEW!**	32-LQFP	6.67	4.77	4.33
MPC9351FA-ND	2.5V/3.3V, CMOS PLL Clock Generator	32-LQFP	6.67	4.77	4.33
MPC9352AC-ND	LVCMOS 1:11 Clock Driver **NEW!**	32-LQFP	6.67	4.77	4.33
MPC9352FA-ND	LVCMOS 1:11 Clock Driver	32-LQFP	6.67	4.77	4.33
MPC9600AE-ND	Low Voltage CMOS PLL Clock Driver **NEW!**	48-LQFP	7.90	5.64	5.13
MPC9600FA-ND	Low Voltage CMOS PLL Clock Driver	48-LQFP	7.90	5.64	5.13
MPC9653AAC-ND	1:8 LVCMOS PLL Clock Generator **NEW!**	32-LQFP	6.09	4.36	3.96
MPC9653AFA-ND	1:8 LVCMOS PLL Clock Generator **NEW!**	32-LQFP	6.09	4.36	3.96
MPC9653AFAR2CT-ND	1:8 LVCMOS PLL Clock Generator **NEW!**	32-LQFP	6.09	4.36	3.96
MPC9653AFAR2TR-ND	1:8 LVCMOS PLL Clock Generator **NEW!**	32-LQFP	7042.00/2,000		
MPC9653FA-ND	1:8 LVCMOS PLL Clock Generator	32-LQFP	6.09	4.36	3.96
MPC9658AC-ND	3.3V, 1:10 LVCMOS PLL Clock Generator **NEW!**	32-LQFP	8.06	5.72	5.20
MPC9658FA-ND	3.3V, 1:10 LVCMOS PLL Clock Generator	32-LQFP	8.00	5.72	5.20
MPC9772AE-ND	3.3V, 1:12 LVCMOS PLL Clock Generator **NEW!**	52-LQFP	7.86	5.61	5.10
MPC9772FA-ND	3.3V, 1:12 LVCMOS PLL Clock Generator	52-LQFP	7.86	5.61	5.10
MPC9772FAR2CT-ND	3.3V, 1:12 LVCMOS PLL CLock Generator	52-LQFP	7.86	5.61	5.10
MPC9772FAR2TR-ND	3.3V, 1:12 LVCMOS PLL CLock Generator	52-LQFP	6810.00/1,500		
MPC9773AE-ND	3.3V, 1:12 LVCMOS PLL Clock Generator **NEW!**	52-LQFP	7.86	5.61	5.10
MPC9773FA-ND	3.3V, 1:12 LVCMOS PLL Clock Generator	52-LQFP	7.86	5.61	5.10
MPC9774AE-ND	3.3V, 1:14 LVCMOS PLL Clock Generator **NEW!**	52-LQFP	7.86	5.61	5.10
MPC9774FA-ND	3.3V, 1:14 LVCMOS PLL Clock Generator	52-LQFP	7.86	5.61	5.10
MPC9893AE-ND	Low Voltage PLL Intelligent Dynamic Clock Switch **NEW!**	48-LQFP	15.32	11.59	10.88
MPC9893FA-ND	Low Voltage PLL Intelligent Dynamic Clock Switch **NEW!**	48-LQFP	15.32	11.59	10.88
MPC9992AC-ND	3.3V Diff. ECL/PECL PLL Clock Generator **NEW!**	32-LQFP	15.70	11.88	10.95
MPC9992FA-ND	3.3V Diff. ECL/PECL PLL Clock Generator **NEW!**	32-LQFP	15.70	11.88	10.95
MPC9993FA-ND	Intelligent Dynamic Clock Switch PLL Clock Driver **NEW!**	32-LQFP	14.59	11.04	10.18
MPC926508SD-ND	Networking Clock Source **NEW!**	20-SSOP	4.35	2.79	2.52

freescale — ANALOG

Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	25	100
MC3PHACVDW-ND	High Perf. Mono Intelligent Motor Controller	28-SOIC	10.51	7.17	6.83
MC33099DW-ND	Alternator Voltage Regulator	16-SOIC	5.30	3.22	3.07
MC33143DW-ND	Dual High Side Switch for Inductive Loads	24-SOIC	5.90	3.58	3.42
MC33186DH1-ND	20KHz Automotive H-Bridge Driver	20-HSOP	5.73	4.10	3.73
MC33285D-ND	40V Dual High Side TMOS Driver	8-SOIC	2.40	1.46	1.26

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freescale — ANALOG (Continued)

Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	25	100
MC33286DW-ND	40V Gemini Dual High Side Switch	20-SOIC	4.70	3.02	2.73
MC33287DW-ND	Contact Monitoring and Dual Low Side Switch	20-SOIC	2.86	1.74	1.51
MC33287DWR2CT-ND	Contact Monitoring and Dual Low Side Switch	20-SOIC	2.86	1.74	1.51
MC33287DWR2TR-ND	Contact Monitoring and Dual Low Side Switch	20-SOIC		1322.00/1,000	
MC33288DH-ND	Dual High Side SSR for Automotive Flasher Application	20-HSOP	9.26	6.32	6.01
MC33289DW-ND	Dual High Side Switch for Inductive Loads	20-SOIC	4.53	2.91	2.63
MC33289DWR2CT-ND	Dual High Side Switch for Inductive Loads	20-SOIC	4.53	2.91	2.63
MC33289DWR2TR-ND	Dual High Side Switch for Inductive Loads	20-SOIC		2349.00/1,000	
MC33290D-ND	ISO K Line Serial Link Interface	8-SOIC	1.66	.87	.79
MC33290DR2CT-ND	ISO K Line Serial Link Interface	8-SOIC	1.04	.87	.79
MC33290DR2TR-ND	ISO K Line Serial Link Interface	8-SOIC		1590.00/2,500	
MC33291DW-ND	1.2Ω RDS (on) Smart 8-Output Switch with SPI	24-SOIC	4.83	3.10	2.80
MC33291DWR2CT-ND	1.2Ω RDS (on) Smart 8-Output Switch with SPI	24-SOIC	4.83	3.10	2.80
MC33291DWR2TR-ND	1.2Ω RDS (on) Smart 8-Output Switch with SPI	24-SOIC		2505.00/1,000	
MC33291LDW-ND	1.4Ω RDS (on) Smart 8-Output Switch with SPI	24-SOIC	3.88	2.49	2.25
MC33298DW-ND	Octal Serial Switch with 8-Bit SPI I/O	24-SOIC	5.49	3.88	3.58
MC33298DWCT-ND	Octal Serial Switch with 8-Bit SPI I/O	24-SOP	5.64	3.92	3.61
MC33298DWTR-ND	Octal Serial Switch with 8-Bit SPI I/O	24-SOP		3260.00/1,000	
MC33298P-ND	Octal Serial Switch with 8-Bit SPI I/O	20-Dip	5.63	3.99	3.69
MC33385DH-ND	Automotive Quad Low Side Driver	20-HSOP	6.54	4.67	4.25
MC33388D-ND	Fault Tolerant CAN Interface	14-SOIC	3.20	2.06	1.86
MC33389CDH-ND	System Base Chip w/Low Speed Fault Tolerant CAN	20-HSOP	9.53	6.51	6.19
MC33389CDW-ND	System Base Chip with CAN	28-SOIC	8.26	5.90	5.37
MC33389CDWR2CT-ND	System Base Chip with CAN	28-SOIC	8.26	5.90	5.37
MC33389CDWR2TR-ND	System Base Chip with CAN	28-SOIC		4886.00/1,000	
MC33389DDWR2CT-ND	System Base Chip with CAN	28-SOIC	7.58	5.42	4.92
MC33389DDWR2TR-ND	System Base Chip with CAN	28-SOIC		4484.00/1,000	
MC33390DR2CT-ND	Class-B Serial Transceiver	8-SOIC	2.50	1.61	1.45
MC33390DR2TR-ND	Class-B Serial Transceiver	8-SOIC		3140.00/2,500	
MC33399D-ND	Local Interconnect Network Physical Interface (LIN)	8-SOIC	1.53	.94	.81
MC33399DR2CT-ND	Local Interconnect Network Physical Interface (LIN)	8-SOIC	1.53	.94	.81
MC33399DR2TR-ND	Local Interconnect Network Physical Interface (LIN)	8-SOIC		1720.00/2,500	
MC33486ADH-ND	Dual High Side Switch for H-Bridge Automotive Applications	20-HSOP	7.43	5.31	4.83
MC33486ADHR2CT-ND	Dual High Side Switch for H-Bridge Automotive Applications	20-HSOP	7.43	5.31	4.83
MC33486ADHR2TR-ND	Dual High Side Switch for H-Bridge Automotive Applications	20-HSOP		3297.00/750	
MC33790DW-ND	2-Ch. DSI Physical Interface for Bus Master	16-SOIC	4.80	3.08	2.79
MC33793D-ND	DSI Slave for Remote Sensing	16-SOIC	3.78	2.43	2.19
MC33793DR2CT-ND	DSI Slave for Remote Sensing	16-SOIC	3.78	2.43	2.19
MC33793DR2TR-ND	DSI Slave for Remote Sensing	16-SOIC		4742.50/2,500	
MC33794DH-ND	E-Field Sensor for MCU Support	44-HSOP	7.56	5.40	4.91
MC33880DWB-ND	8-Output Hardware Configurable High-Side/Low-Side Switch with SPI	32-SOIC	5.43	3.29	3.15
MC33882DH-ND	6-Output Low Side Switch	30-HSOP	8.19	5.86	5.32
MC33883DW-ND	Full Bridge Pre-Driver for Power Application	20-SOIC	3.63	2.33	2.10
MC33883DWR2CT-ND	Full Bridge Pre-Driver for Power Application	20-SOIC	3.63	2.33	2.10
MC33883DWR2TR-ND	Full Bridge Pre-Driver for Power Application	20-SOIC		1882.00/1,000	
MC33884DW-ND	SDI Monitoring Switch	24-SOIC	3.68	2.36	2.13
MC33886DH-ND	5.2A Output H-Bridge	20-HSOP	6.26	4.48	4.07
MC33887DH-ND	5.2A Integrated H-Bridge with Sleep Mode	20-HSOP	6.77	4.84	4.40
MC33887DWB-ND	5.2A Integrated H-Bridge with Sleep Mode	54-SOIC	5.05	3.07	2.93
MC33888FB-ND	Quad High Side and Octal Low Side Switch	64-QFP	11.47	8.68	8.00
MC33889DW-ND	System Base Chip Lite with Low Speed CAN	28-SOIC	5.68	3.45	3.29
MC33897D-ND	Single-Wire CAN Transceiver	14-SOIC	2.80	1.56	1.48
MC33972DWBR2CT-ND	Multiple Switch Detection Interface with Suppressed Wake-Up	32-SOIC	4.80	3.08	2.79
MC33972DWBR2TR-ND	Multiple Switch Detection Interface with Suppressed Wake-Up	32-SOIC		2492.00/1,000	
MC33989DW-ND	System Base Chip with High Speed CAN	28-SOIC	4.75	3.05	2.76
MC33989DWR2CT-ND	System Base Chip with High Speed CAN	28-SOIC	4.75	3.05	2.76
MC33989DWR2TR-ND	System Base Chip with High Speed CAN	28-SOIC		2466.00/1,000	
MC33990D-ND	J1850 Serial Transceiver	8-SOIC	2.63	1.69	1.53
MC33990DR2CT-ND	J1850 Serial Transceiver	8-SOIC	2.63	1.69	1.53
MC33990DR2TR-ND	J1850 Serial Transceiver	8-SOIC		3297.50/2,500	
MC33993DWB-ND	22-Switch Multiple Detection Interface	32-SOIC	4.78	3.07	2.77
MC33997DW-ND	Switching Power Supply with Linear Regulator	24-SOIC	6.13	3.72	3.55
MC34119DTBR2CT-ND	Low Power Audio Amp	8-TSSOP	1.59	.97	.84
MC34119DTBR2TR-ND	Low Power Audio Amp	8-TSSOP		1785.00/2,500	
MC34119P-ND	Low Power Audio Amp	8-Dip	1.53	.80	.73
MC34129DR2CT-ND	High Performance Current Mode Controller	14-SOIC	3.90	2.51	2.26
MC34129DR2TR-ND	High Performance Current Mode Controller	14-SOIC		4897.50/2,500	
MPC17511AEPR2CT-ND	1.0A, 6.8V H-Bridge Motor Driver	24-QFN	1.99	1.22	1.05
MPC17511AEPR2TR-ND	1.0A, 6.8V H-Bridge Motor Driver	24-QFN		2240.00/2,500	
MPC17529EVELCT-ND	0.7A Dual H-Bridge Motor Driver with 3V/5V Compatible Logic I/O	20-MFP	2.48	1.52	1.31
MPC17529EVELTR-ND	0.7A Dual H-Bridge Motor Driver with 3V/5V Compatible Logic I/O	20-MFP		2232.00/2,000	
MPC17531AEVELCT-ND	2-Ch. H-Bridge Motor Driver	20-MFP	2.74	1.67	1.45
MPC17531AEVELTR-ND	2-Ch. H-Bridge Motor Driver	20-MFP		2466.00/2,000	
MPC17550EVELCT-ND	Quad H-Bridge Micromotor Driver with DC/DC Boost Converter	36-MFP	5.60	3.40	3.25
MPC17550EVELTR-ND	Quad H-Bridge Micromotor Driver with DC/DC Boost Converter	36-MFP		5626.00/2,000	
KIT33291DWEVB-ND	Evaluation Kit for MC33291	—	66.50	—	—
KIT33298DWEVB-ND	Evaluation Kit for MC33298	—	66.50	—	—
KIT33794DWBEVM-ND	Evaluation Kit for MC33794	—	59.85	—	—
KIT33880DWBEVB-ND	Evaluation Kit for MC33880	—	99.75	—	—
KIT33883DWEVB-ND	Evaluation Kit for MC33883	—	79.80	—	—
KIT33886DHEVB-ND	Evaluation Kit for MC33886	—	59.85	—	—
KIT33993DWBEVB-ND	Evaluation Kit for MC33993	—	113.05	—	—

freescale — DISPLAY DRIVERS

Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	25	100
MC14489BDW-ND	5-Channel LED Display/25 Lamp Driver	20-SOG	4.04	2.76	2.53
MC14489BP-ND	5-Channel LED Display/25 Lamp Driver	20-Dip	4.04	2.76	2.53

freescale — MATH COPROCESSORS

Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	25	100
MC68882FN25A-ND	M68000 Family Math CoProcessor	68-PLCC	51.00	42.58	40.50

freescale — MICROPROCESSORS

Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	25	100
MC68MH360ZP25L-ND	32-Bit QUICC™ Microprocessor	357-PBGA	67.94	55.01	53.23
MC68MH360ZP33L-ND	32-Bit QUICC™ Microprocessor	357-PBGA	74.88	60.63	58.67
MC68SEC000FU20-ND	Low Cost 32-Bit Microprocessor	64-QFP	14.23	10.76	9.92

freescale — INTERFACE

Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	25	100
MC33199DCT-ND	ISO9141 Serial Ink Driver	14-SOIC	2.54	1.55	1.34
MC33199DTR-ND	ISO9141 Serial Ink Driver	14-SOIC		2855.60/2,500	

freescale — RF/IF PRODUCTS

Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	25	100
	Amplifiers				
13192DSK-A00-ND	Developer's Starter Kit for MC13191 and MC13192	—	245.00	—	—
13192RFC-A00-ND	Daughter Card for MC13192	—	184.62	—	—
13193EVK-A00-ND	Development Kit; Contains ZigBee Boards ***NEW!***	—	1653.65	—	—
MBC13720CT-ND	SiGe:C Low Noise Amp with Bypass Switch	SOT-363	1.49	.78	.71
MBC13720TR-ND	SiGe:C Low Noise Amp with Bypass Switch	SOT-363		1713.00/3,000	
MBC13900CT-ND	RF NPN Silicon Low Noise Transistor	SC-70	.77	.39	.32
MBC13900TR-ND	RF NPN Silicon Low Noise Transistor	SC-70		720.00/3,000	
MBC13916CT-ND	General Purpose SiGe:C RF Cascode Amp	SOT-343R	.99	.45	.41
MBC13916TR-ND	General Purpose SiGe:C RF Cascode Amp	SOT-343R		921.15/3,000	
MC13190FCCT-ND	2.4GHz Short-Range, Low-Power Transceiver	32-QFN	5.05	3.07	2.93
MC13190FCTR-ND	2.4GHz Short-Range, Low-Power Transceiver	32-QFN		6197.50/2,500	
MC13191FC-ND	2.4GHz RF Transceiver	32-QFN	5.50	3.93	3.57
MC13191FCR2CT-ND	2.4GHz RF Transceiver	32-QFN	5.50	3.93	3.57
MC13191FCR2TR-ND	2.4GHz RF Transceiver	32-QFN		7945.00/2,500	
MC13192FC-ND	2.4GHz RF Transceiver	32-QFN	6.37	4.55	4.14
MC13192FCR2CT-ND	2.4GHz RF Transceiver	32-QFN	6.37	4.55	4.14
MC13192FCR2TR-ND	2.4GHz RF Transceiver	32-QFN		9202.50/2,500	
MC13193FC-ND	2.4GHz Low Power Transceiver ***NEW!***	32-QFN	7.86	5.61	5.10
MC13193FCR2CT-ND	2.4GHz Low Power Transceiver ***NEW!***	32-QFN	7.86	5.61	5.10
MC13193FCR2TR-ND	2.4GHz Low Power Transceiver ***NEW!***	32-QFN		11350.00/2,500	
MC13751FCGT-ND	Dual-Band Upmixer and Driver Amp	24-QFN	4.00	2.57	2.32
MC13751FCTR-ND	Dual-Band Upmixer and Driver Amp	24-QFN		5025.00/2,500	
MC92600JUB-ND	Quad 1.25 Gbaud SERDES Transceiver	217-PBGA	41.95	34.94	32.87
MMM5063CT-ND	Tri-Band GSM GPRS 3.5V Power Amp	—	8.05	5.75	5.23
MMM5063TR-ND	Tri-Band GSM GPRS 3.5V Power Amp	—		9300.00/2,000	
MRFIC1870CT-ND	3.2V DCS/PCS GaAs Integrated Power Amp	20-QFN	5.82	4.16	3.76
	D/A Converters				
MC144110DWTR-ND	6-Bit Hex Serial Interface D/A Converter	20-SOIC		2396.00/1,000	
MC144111DW-ND	6-Bit Quad Serial Interface D/A Converter	16-SOIC	3.98	2.71	2.49
MC144111DWTR-ND	6-Bit Quad Serial Interface D/A Converter	16-SOIC		2360.00/1,000	
	Encoders / Decoders				
MC145026D-ND	Serial Data Output 9-Line Trinary Encoder	16-SOIC	2.19	1.39	1.25
MC145026DTR-ND	Serial Data Output 9-Line Trinary Encoder	16-SOIC		2682.50/2,500	
MC145026P-ND	9-Line Simplex Encoder	16-Dip	2.19	1.39	1.25
MC145027DW-ND	Serial Data Input 9-Line (5 Address, 4 Data) Trinary Decoder	16-SOIC	2.60	1.68	1.52
MC145027DWTR-ND	Serial Data Input 9-Line (5 Address, 4 Data) Trinary Decoder	16-SOIC		1360.00/1,000	
MC145027P-ND	Serial Data Input 9-Line (5 Address, 4 Data) Trinary Decoder	16-Dip	2.60	1.68	1.52
MC145028DWTR-ND	Serial Data Input 9-Line Trinary Decoder	16-SOIC		1634.00/1,000	
	Frequency Conversion				
MC13770FCCT-ND	RF LNA Down Converter	12-QFN	5.75	3.49	3.34
MC13770FCTR-ND	RF LNA Down Converter	12-QFN		5463.60/2,500	
	Frequency Synthesis				
MC145151DW2TR-ND	Parallel-Input PLL Freq. Synthesizer (Single-Modulu)	28-SOIC		3767.00/1,000	
MC145152DW2TR-ND	Parallel-Input PLL Freq. Synthesizer (Dual-Modulus)	28-SOIC		4848.00/1,000	
MC145170D2-ND	Serial-Input CMOS PLL Frequency Synthesizer	16-SOIC	4.95	3.46	3.19
MC145170D2TR-ND	Serial-Input CMOS PLL Frequency Synthesizer	16-SOIC		7022.50/2,500	
	Receivers/Transmitters				
MC33493DTB-ND	PLL Tuned UHF Transmitter, 315-434MHz and 868-928MHz	14-TSSOP	2.60	1.59	1.37
MC33493DTBR2CT-ND	PLL Tuned UHF Transmitter, 315-434MHz and 868-928MHz	14-TSSOP	2.60	1.59	1.37
MC33493DTBR2TR-ND	PLL Tuned UHF Transmitter, 315-434MHz and 868-928MHz	14-TSSOP		3212.50/2,500	
MC33591FTA-ND	PLL Tuned UHF Receiver, 315, 434MHz	24-LQFP	5.75	3.49	3.34
MC33591FTAR2CT-ND	PLL Tuned UHF Receiver, 315, 434MHz	24-LQFP	6.00	3.64	3.48
MC33591FTAR2TR-ND	PLL Tuned UHF Receiver, 315, 434MHz	24-LQFP		6028.00/2,000	
MC33592FTA-ND	PLL Tuned UHF Receiver, 315, 434MHz	24-LQFP	5.75	3.49	3.34
MC33592FTAR2CT-ND	PLL Tuned UHF Receiver, 315, 434MHz	24-LQFP	6.00	3.64	3.48
MC33592FTAR2TR-ND	PLL Tuned UHF Receiver, 315, 434MHz	24-LQFP		6028.00/2,000	
MC33594FTA-ND	PLL Tuned UHF Receiver, 315, 434MHz	24-LQFP	5.75	3.49	3.34
MC33594FTAR2CT-ND	PLL Tuned UHF Receiver, 315, 434MHz	24-LQFP	6.00	3.64	3.48
MC33594FTAR2TR-ND	PLL Tuned UHF Receiver, 315, 434MHz	24-LQFP		6028.00/2,000	

freescale — SMOKE DETECTION

Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	25	100
MC14467P1-ND	Ionization Smoke Detector	16-Dip	1.47	.90	.78
MC145010DW-ND	Photoelectric Smoke Detector IC with I/O	16-SOIC	2.53	1.62	1.47
MC145012DW-ND	Photoelectric Smoke Detector IC with I/O	16-SOIC	2.58	1.66	1.50
MC145012P-ND	Photoelectric Smoke Detector IC with I/O	16-Dip	2.53	1.64	1.48

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freescale — TELECOMMUNICATIONS

Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	25	100
MC145423DT-ND	Universal Digital Loop Transceiver	28-TSSOP	6.18	4.42	4.01
MC145481DT-ND	3V PCM Codec-Filter	20-TSSOP	3.45	2.22	2.00
MC145481DW-ND	3V PCM Codec-Filter	20-SOG	3.30	2.12	1.92
MC145481SD-ND	3V PCM Codec-Filter	20-SSOP	3.73	2.39	2.16
MC145481SDR2CT-ND	3V PCM Codec-Filter	20-SSOP	3.85	2.47	2.23
MC145481SDR2TR-ND	3V PCM Codec-Filter	20-SSOP		2998.50/1,500	
MC145483DT-ND	3V, 13-Bit Linear PCM Codec-Filter	20-TSSOP	3.73	2.39	2.16
MC145483DW-ND	3V, 13-Bit Linear PCM Codec-Filter	20-SOIC	3.38	2.17	1.96
MC145483DWR2CT-ND	3V, 13-Bit Linear PCM Codec-Filter	20-SOIC	3.38	2.17	1.96
MC145483DWR2TR-ND	3V, 13-Bit Linear PCM Codec-Filter	20-SOIC		1817.00/1,000	
MC145483FC-ND	3V, 13-Bit Linear PCM Codec-Filter	32-QFN	3.58	2.30	2.08
MC145483SD-ND	3V, 13-Bit Linear PCM Codec-Filter	20-SSOP	3.73	2.39	2.16
MC145483SDR2CT-ND	3V, 13-Bit Linear PCM Codec-Filter	20-SSOP	3.85	2.47	2.23
MC145483SDR2TR-ND	3V, 13-Bit Linear PCM Codec-Filter	20-SSOP		2998.50/1,500	
MC145484DT-ND	5V PCM Codec-Filter	20-TSSOP	3.38	2.17	1.96
MC145484DW-ND	5V PCM Codec-Filter	20-SOG	2.95	1.90	1.71
MC145484SDCT-ND	5V PCM Codec-Filter	20-SSOP	3.50	2.25	2.03
MC145484SDTR-ND	5V PCM Codec-Filter	20-SSOP		2725.80/1,500	
MC145572AFN-ND	Universal Interface ISDN Transceiver	44-PLCC	21.38	17.01	16.06
MC145572APB-ND	iSDN Interface Transceiver	44-TQFP	17.71	13.90	13.10
MC145574ADWR2CT-ND	S/T Interface ISDN Transceiver	28-SOIC	6.41	4.58	4.17
MC145574ADWR2TR-ND	S/T Interface ISDN Transceiver	28-SOIC		3793.00/1,000	
MC145574APB-ND	S/T Interface ISDN Transceiver	32-TQFP	5.58	3.39	3.23
MC14LC5480DT-ND	5V PCM Codec-Filter	20-TSSOP	3.45	2.22	2.00
MC14LC5480DW-ND	5V PCM Codec-Filter	20-SOG	2.95	1.90	1.71
MC14LC5480DWCT-ND	5V PCM Codec-Filter	20-SOG	3.58	2.30	2.08
MC14LC5480DWTR-ND	5V PCM Codec-Filter	20-SOG		1596.54/1,000	
MC14LC5480SDCT-ND	5V PCM Codec-Filter	20-SSOP	3.58	2.30	2.08
MC14LC5480SDTR-ND	5V PCM Codec-Filter	20-SSOP		2784.21/1,500	
MC33390D-ND	Class B Serial Link Transceiver	8-SOIC	2.50	1.61	1.45
MC34018P-ND	Voice Switched Speakerphone Circuit	28-Dip	2.75	1.77	1.60
MC34118DW-ND	Voice Switch Speakerphone	28-SOIC	2.88	1.85	1.67
MC34118DW3CT-ND	Voice Switch Speakerphone	28-SOIC	2.88	1.85	1.67
MC34118DW3TR-ND	Voice Switch Speakerphone	28-SOIC		1493.00/1,000	

intel — EMBEDDED INTEL ARCHITECTURE MICROPROCESSORS

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	10	100
KU80C186EC20	802933-ND	20MHz, 16-Bit, Enhanced 80C186 MPU, 5V	100-QFP	21.15	16.65	12.60
KU80C186EC25	802951-ND	25MHz, 16-Bit, Enhanced 80C186 MPU, 5V	100-QFP	21.15	16.65	12.60
TN80C186EB20	802875-ND	20MHz, 16-Bit, Enhanced 80C186 MPU, 5V	84-PLCC	16.22	12.77	9.66
N80C186EA25	802825-ND	25MHz, 16-Bit, 80C186EA MPU, 5V, Extended Temperature	68-PLCC	14.81	11.66	8.82
TN80C186EA13	802768-ND	13MHz, 16-Bit, 80C186EA MPU, 5V, Extended Temperature	68-PLCC	14.81	11.66	8.82
TN80C186EA20	802799-ND	20MHz, 16-Bit, 80C186EA MPU, 5V, Extended Temperature	68-PLCC	14.81	11.66	8.82
N80C186EB25	802891-ND	25MHz, 16-Bit, 80C186EB MPU, 5V, Extended Temperature	84-PLCC	16.22	12.77	9.66
S80C186EB25	802897-ND	25MHz, 16-Bit, 80C186EB MPU, 5V, Extended Temperature	80-MQFP	18.21	14.34	10.85
SB80C186EB13	808818-ND	13MHz, 16-Bit, 80C186EB MPU, 5V, Extended Temperature	80-SQFP	11.87	9.35	7.07
SB80C186EB20	802869-ND	20MHz, 16-Bit, 80C186EB MPU, 5V, Extended Temperature	80-SQFP	11.87	9.35	7.07
SB80C186EB25	802905-ND	25MHz, 16-Bit, 80C186EB MPU, 5V, Extended Temperature	80-SQFP	11.87	9.35	7.07
TN80C186EB13	802851-ND	13MHz, 16-Bit, 80C186EB MPU, 5V, Extended Temperature	84-PLCC	16.22	12.77	9.66
TS80C186EB13	802853-ND	13MHz, 16-Bit, 80C186EB MPU, 5V, Extended Temperature	80-MQFP	17.27	13.60	10.29
TS80C186EB20	802885-ND	20MHz, 16-Bit, 80C186EB MPU, 5V, Extended Temperature	80-MQFP	17.27	13.60	10.29
A80C186ECI	802919-ND	25MHz, 16-Bit, 80C186EC MPU, 5V, Extended Temperature	132-CPGA	62.32	49.20	42.64
S80C186EC25	802957-ND	25MHz, 16-Bit, 80C186EC MPU, 5V, Extended Temperature	100-MQFP	20.70	16.30	12.34
SB80C186EC13	808819-ND	13MHz, 16-Bit, 80C186EC MPU, 5V, Extended Temperature	100-SQFP	21.00	16.60	13.50
SB80C186EC20	802939-ND	20MHz, 16-Bit, 80C186EC MPU, 5V, Extended Temperature	100-SQFP	21.00	16.60	13.50
SB80C186EC25	802965-ND	25MHz, 16-Bit, 80C186EC MPU, 5V, Extended Temperature	100-SQFP	21.00	16.60	13.50
TS80C186EC20	802945-ND	20MHz, 16-Bit, 80C186EC MPU, 5V, Extended Temperature	100-MQFP	20.70	16.30	12.34
A80C186XL12	803000-ND	12MHz, 16-Bit, 80C186XL Microprocessor, 5V	68-PGA	40.53	32.04	26.06
A80C186XL20	803128-ND	20MHz, 16-Bit, 80C186XL Microprocessor, 5V	68-PGA	44.10	34.86	28.35
A80C186XL25	803250-ND	25MHz, 16-Bit, 80C186XL Microprocessor, 5V	68-PGA	44.10	34.86	28.35
N80C186XL12	803020-ND	12MHz, 16-Bit, 80C186XL Microprocessor, 5V	68-PLCC	9.35	7.48	4.93
N80C186XL20	803140-ND	20MHz, 16-Bit, 80C186XL Microprocessor, 5V	68-PLCC	9.35	7.48	4.93
N80C186XL25	803256-ND	25MHz, 16-Bit, 80C186XL Microprocessor, 5V	68-PLCC	9.35	7.48	4.93
N80C188XL12	803698-ND	12MHz, 16-Bit, 80C188XL Microprocessor, 5V	68-PLCC	9.08	7.26	4.79
N80C188XL20	803820-ND	20MHz, 16-Bit, 80C188XL Microprocessor, 5V	68-PLCC	9.08	7.26	4.79
R80C186XL20	803196-ND	20MHz, 16-Bit, 80C186XL Microprocessor, 5V	68-LCC	33.08	26.15	21.27
R80C186XL25	803262-ND	25MHz, 16-Bit, 80C186XL Microprocessor, 5V	68-LCC	33.08	26.15	21.27
S80C186XL20	803199-ND	20MHz, 16-Bit, 80C186XL Microprocessor, 5V	80-MQFP	13.06	10.45	6.89
S80C186XL25	803269-ND	25MHz, 16-Bit, 80C186XL Microprocessor, 5V	80-MQFP	13.06	10.45	6.89
SB80C186XL12	808823-ND	12MHz, 16-Bit, 80C186XL Microprocessor, 5V	80-SQFP	11.87	9.35	7.07
SB80C186XL20	808824-ND	20MHz, 16-Bit, 80C186XL Microprocessor, 5V	80-SQFP	11.87	9.35	7.07
SB80C186XL25	808825-ND	25MHz, 16-Bit, 80C186XL Microprocessor, 5V	80-SQFP	11.87	9.35	7.07
TA80C186XL20	803206-ND	20MHz, 16-Bit, 80C186XL MPU, 5V, Extended Temperature	68-PGA	44.10	34.86	28.35
TN80C186XL12	803077-ND	12MHz, 16-Bit, 80C186XL MPU, 5V, Extended Temperature	68-PLCC	9.35	7.48	4.93
TN80C186XL20	803212-ND	20MHz, 16-Bit, 80C186XL Microprocessor, 5V, Ext. Temp.	68-PLCC	9.35	7.48	4.93
TR80C186XL12	803091-ND	12MHz, 16-Bit, 80C186XL MPU, 5V, Extended Temperature	68-LCC	35.28	27.89	22.68
TR80C186XL20	803233-ND	20MHz, 16-Bit, 80C186XL MPU, 5V, Extended Temperature	68-LCC	35.28	27.89	22.68
TS80C186XL20	803242-ND	20MHz, 16-Bit, 80C186XL MPU, 5V, Extended Temperature	80-MQFP	13.34	10.67	7.04
TN80L186EA13	806072-ND	13MHz, 16-Bit, 80L186EA Enhanced MPU, 3V, Extended Temp.	68-PLCC	14.81	11.66	8.82
N80L186EB16	806093-ND	16MHz, 16-Bit, 80L186EB Enhanced MPU, 3V, Extended Temp.	84-PLCC	16.22	12.77	9.66
S80L186EB16	806099-ND	16MHz, 16-Bit, 80L186EB Enhanced MPU, 3V, Extended Temp.	80-MQFP	18.21	14.34	10.85
SB80L186EB13	808880-ND	13MHz, 16-Bit, 80L186EB Enhanced MPU, 3V, Extended Temp.	80-SQFP	11.87	9.35	7.07
SB80L186EB16	806105-ND	16MHz, 16-Bit, 80L186EB Enhanced MPU, 3V, Extended Temp.	80-SQFP	11.87	9.35	7.07
TN80L186EB13	806081-ND	13MHz, 16-Bit, 80L186EB Enhanced MPU, 3V, Extended Temp.	84-PLCC	16.22	12.77	9.66
TS80L186EB13	806087-ND	13MHz, 16-Bit, 80L186EB Enhanced MPU, 3V, Extended Temp.	80-MQFP	17.27	13.60	10.29
KU80L186EC13	806111-ND	13MHz, 16-Bit, 80L186EC Enhanced MPU, 3V, Extended Temp.	100-QFP	21.15	16.65	12.60
KU80L186EC16	806116-ND	16MHz, 16-Bit, 80L186EC Enhanced MPU, 3V, Extended Temp.	100-QFP	21.15	16.65	12.60
S80L186EC16	808881-ND	16MHz, 16-Bit, 80L186EC Enhanced MPU, 3V, Extended Temp.	100-MQFP	20.70	16.30	12.34
SB80L186EC13	809626-ND	13MHz, 16-Bit, 80L186EC Enhanced MPU, 3V, Extended Temp.	100-SQFP	21.00	16.60	13.50
TN80C188EB13	803537-ND	13MHz, 16-Bit, 80C188 Enhanced MPU, 5V, Extended Temp.	84-PLCC	16.22	12.77	9.66
TN80C188EB20	803562-ND	20MHz, 16-Bit, 80C188 Enhanced MPU, 5V, Extended Temp.	84-PLCC	16.22	12.77	9.66
TS80C188EB20	803586-ND	20MHz, 16-Bit, 80C188 Enhanced MPU, 5V, Extended Temp.	80-QFP	17.27	13.60	10.29
N80C188EA25	808826-ND	25MHz, 16-Bit, 80C188EA MPU, 5V, Extended Temperature	68-PLCC	14.81	11.66	8.82
TN80C188EA13	803477-ND	13MHz, 16-Bit, 80C188EA MPU, 5V, Extended Temperature	68-PLCC	14.81	11.66	8.82
TN80C188EA20	803497-ND	20MHz, 16-Bit, 80C188EA MPU, 5V, Extended Temperature	68-PLCC	14.81	11.66	8.82
N80C188EB25	803592-ND	25MHz, 16-Bit, 80C188EB MPU, 5V, Extended Temperature	84-PLCC	16.22	12.77	9.66
S80C188EB25	803598-ND	25MHz, 16-Bit, 80C188EB MPU, 5V, Extended Temperature	80-MQFP	18.21	14.34	10.85
SB80C188EB13	803520-ND	13MHz, 16-Bit, 80C188EB MPU, 5V, Extended Temperature	80-SQFP	17.27	13.60	10.29
SB80C188EB20	803555-ND	20MHz, 16-Bit, 80C188EB MPU, 5V, Extended Temperature	80-SQFP	17.27	13.60	10.29
SB80C188EB25	803604-ND	25MHz, 16-Bit, 80C188EB MPU, 5V, Extended Temperature	80-SQFP	17.27	13.60	10.29
KU80C188EC13	803612-ND	13MHz, 16-Bit, 80C188EC MPU, 5V, Extended Temperature	100-QFP	21.15	16.65	12.60
KU80C188EC20	803638-ND	20MHz, 16-Bit, 80C188EC MPU, 5V, Extended Temperature	100-QFP	17.16	13.51	10.22
KU80C188EC25	803656-ND	25MHz, 16-Bit, 80C188EC MPU, 5V, Extended Temperature	100-QFP	17.16	13.51	10.22
S80C188EC25	803664-ND	25MHz, 16-Bit, 80C188EC MPU, 5V, Extended Temperature	100-MQFP	20.70	16.30	12.34
SB80C188EC13	803618-ND	13MHz, 16-Bit, 80C188EC MPU, 5V, Extended Temperature	100-SQFP	21.00	16.60	13.50
SB80C188EC20	803644-ND	20MHz, 16-Bit, 80C188EC MPU, 5V, Extended Temperature	100-SQFP	21.00	16.60	13.50
SB80C188EC25	808828-ND	25MHz, 16-Bit, 80C188EC MPU, 5V, Extended Temperature	100-SQFP	21.00	16.60	13.50
TS80C188EC13	803632-ND	13MHz, 16-Bit, 80C188EC MPU, 5V, Extended Temperature	100-QFP	20.70	16.30	12.34
TS80C188EC20	803650-ND	20MHz, 16-Bit, 80C188EC MPU, 5V, Extended Temperature	100-MQFP	20.70	16.30	12.34
A80C188XL25	803884-ND	25MHz, 16-Bit, 80C188XL MPU, 5V	68-PGA	42.00	33.20	27.00
N80C188XL25	803895-ND	25MHz, 16-Bit, 80C188XL MPU, 5V	68-PLCC	9.08	7.26	4.79
R80C188XL20	803844-ND	20MHz, 16-Bit, 80C188XL MPU, 5V	68-LCC	30.98	24.49	19.92
R80C188XL25	803902-ND	25MHz, 16-Bit, 80C188XL MPU, 5V	68-LCC	30.98	24.49	19.92
S80C188XL12	803759-ND	12MHz, 16-Bit, 80C188XL MPU, 5V	80-MQFP	11.69	9.35	6.17
S80C188XL20	803850-ND	20MHz, 16-Bit, 80C188XL MPU, 5V	80-MQFP	11.69	9.35	6.17
S80C188XL25	808831-ND	25MHz, 16-Bit, 80C188XL MPU, 5V	80-MQFP	11.69	9.35	6.17
SB80C188XL12	803769-ND	12MHz, 16-Bit, 80C188XL MPU, 5V	80-SQFP	13.04	10.27	7.77
SB80C188XL20	803856-ND	20MHz, 16-Bit, 80C188XL MPU, 5V	80-SQFP	13.04	10.27	7.77
SB80C188XL25	803908-ND	25MHz, 16-Bit, 80C188XL MPU, 5V	80-SQFP	13.04	10.27	7.77
TA80C188XL20	803862-ND	20MHz, 16-Bit, 80C188XL MPU, 5V, Extended Temperature	68-PGA	42.00	33.20	27.00
TN80C188XL12	803787-ND	12MHz, 16-Bit, 80C188XL MPU, 5V, Extended Temperature	68-PLCC	9.08	7.26	4.79
TN80C188XL20	803867-ND	20MHz, 16-Bit, 80C188XL MPU, 5V, Extended Temperature	68-PLCC	9.08	7.26	4.79
TR80C188XL20	803873-ND	20MHz, 16-Bit, 80C188XL MPU, 5V, Extended Temperature	68-LCC	33.08	26.15	21.27
TS80C188XL20	803878-ND	20MHz, 16-Bit, 80C188XL MPU, 5V, Extended Temperature	80-MQFP	11.96	9.57	6.31

(Continued)

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intel EMBEDDED INTEL ARCHITECTURE MICROPROCESSORS (Continued)

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	10	100
TN80L188EA13	806131-ND	13MHz, 16-Bit, 80L188EA Enhanced MPU, 3V, Extended Temp.	68-PLCC	14.81	11.66	8.82
N80L188EB16	806163-ND	16MHz, 16-Bit, 80L188EB Enhanced MPU, 3V, Extended Temp.	84-PLCC	16.22	12.77	9.66
SB80L188EB16	806175-ND	16MHz, 16-Bit, 80L188EB Enhanced MPU, 3V, Extended Temp.	80-SQFP	17.27	13.60	10.29
TN80L188EB13	806149-ND	13MHz, 16-Bit, 80L188EB Enhanced MPU, 3V, Extended Temp.	84-PLCC	16.22	12.77	9.66
TS80L188EB13	806156-ND	13MHz, 16-Bit, 80L188EB Enhanced MPU, 3V, Extended Temp.	80-MQFP	17.27	13.60	10.29
KU80L188EC13	806192-ND	13MHz, 16-Bit, 80L188EC Enhanced MPU, 3V, Extended Temp.	100-QFP	17.16	13.51	10.22
SB80L188EC13	806197-ND	13MHz, 16-Bit, 80L188EC Enhanced MPU, 3V, Extended Temp.	100-SQFP	21.00	16.60	13.50
SB80L188EC16	809627-ND	16MHz, 16-Bit, 80L188EC Enhanced MPU, 3V, Extended Temp.	100-SQFP	21.00	16.60	13.50
TS80L188EC13	808882-ND	13MHz, 16-Bit, 80L188EC Enhanced MPU, 3V, Extended Temp.	100-MQFP	20.70	16.30	12.34
NG88C0196EC40	859794-ND	40MHz, 16-Bit MCU with 256Kb on Chip Flash Memory	132-QFP	23.10	18.26	14.85
TG88C0196EC40	859797-ND	40MHz, 16-Bit MCU with 256Kb on Chip Flash Memory Ext. Temp.	132-QFP	24.26	19.18	15.60
A80386DX16	807050-ND	16MHz, 32-Bit, 386DX Processor, 5.0V	132-PGA	52.50	41.50	33.75
A80386DX20	807066-ND	20MHz, 32-Bit, 386DX Processor, 5.0V	132-PGA	52.50	41.50	33.75
A80386DX25	807094-ND	25MHz, 32-Bit, 386DX Processor, 5.0V	132-PGA	52.50	41.50	33.75
A80386DX33	807129-ND	33MHz, 32-Bit, 386DX Processor, 5.0V	132-PGA	52.50	41.50	33.75
NG80386DX20	807082-ND	20MHz, 32-Bit, 386DX Processor, 5.0V	132-QFP	13.87	10.92	8.26
NG80386DX25	807111-ND	25MHz, 32-Bit, 386DX Processor, 5.0V	132-QFP	13.87	10.92	8.26
NG80386DX33	807141-ND	33MHz, 32-Bit, 386DX Processor, 5.0V	132-QFP	13.87	10.92	8.26
A80386EXI	807153-ND	33MHz, 32-Bit, 386EX Processor, 5.0V	168-CPGA	68.40	54.00	46.80
FA80386EXTB25	807257-ND	25MHz, 32-Bit, 386EX Integrated Processor, 3.3V, Ext. Temp.	144-TQFP	26.25	20.75	16.88
FA80386EXTC25	807267-ND	25MHz, 32-Bit, 386EX Integrated Processor, 5.0V, Ext. Temp.	144-TQFP	21.00	16.60	13.50
FA80386EXTC33	807274-ND	33MHz, 32-Bit, 386EX Integrated Processor, 5.0V, Ext. Temp.	144-TQFP	22.05	17.43	14.18
KU80386EXTB25	807262-ND	25MHz, 386EX Integrated Processor, 3.3V	132-QFP	24.15	19.09	15.53
KU80386EXTC25	807271-ND	25MHz, 386EX Integrated Processor, 5.0V	132-QFP	21.53	17.02	13.84
KU80386EXTC33	807277-ND	33MHz, 386EX Integrated Processor, 5.0V	132-QFP	21.53	17.02	13.84
KU80386SXTA25	800169-ND	25MHz, 32-Bit, 386SX Processor, 5.0V, Extended Temperature	100-QFP	15.04	11.84	8.96
KU80386SXTA33	800175-ND	33MHz, 32-Bit, 386SX Processor, 5.0V, Extended Temperature	100-QFP	15.04	11.84	8.96
KU80386SXTA40	800183-ND	40MHz, 32-Bit, 386SX Processor, 5.0V, Extended Temperature	100-QFP	15.04	11.84	8.96
NG80386SX25	800310-ND	25MHz, 32-Bit, 386SX Processor, 5.0V	100-QFP	12.22	9.62	7.28
NG80386SX33	800353-ND	33MHz, 32-Bit, 386SX Processor, 5.0V	100-QFP	12.22	9.62	7.28
NG80386SXLP20	800112-ND	20MHz, 32-Bit, 386SX Processor, 5.0V	100-QFP	15.28	12.03	9.10
NG80386SXLP25	800134-ND	25MHz, 32-Bit, 386SX Processor, 5.0V	100-QFP	12.22	9.62	7.28
NG80386SXLP33	800149-ND	33MHz, 32-Bit, 386SX Processor, 5.0V	100-QFP	12.22	9.62	7.28
A80486DX2SA50SX912	800940-ND	50MHz, 32-Bit, 486DX2 MPU, 5.0V	168-PGA	54.15	42.75	37.05
A80486DX2SA66SX911	800948-ND	66MHz, 32-Bit, 486DX2 MPU, 5.0V	168-PGA	61.75	48.75	42.25
SB80486DX2SC50SX920	800952-ND	50MHz, 32-Bit, 486DX2 MPU, 3.3V	208-SQFP	38.05	30.08	24.47
A80486DX4WB100SK096	801069-ND	100MHz, 32-Bit, 486DX4 MPU, 3.3V	168-PGA	72.20	57.00	49.40
A80486DX4WB100SK101	808894-ND	100MHz, 32-Bit, 486DX4 MPU, 3.3V	168-PGA	72.20	57.00	49.40
FC80486DX4WB100SL2M9	816435-ND	100MHz, 32-Bit, 486DX4 MPU, 3.3V	208-SQFP	42.15	33.32	27.10
FA80486GXSF33	801241-ND	33MHz, 32-Bit 486GX MPU, 3.3V	176-TQFP	33.08	26.15	21.27
A80486SXSA25SX930	801266-ND	25MHz, 32-Bit, 486SX MPU, 5.0V	168-PGA	62.23	49.13	42.58
A80486SXSA33SX931	801301-ND	33MHz, 32-Bit, 486SX MPU, 5.0V	168-PGA	66.50	52.50	45.50
KU80486SXSA25SX934	801281-ND	25MHz, 32-Bit, 486SX MPU, 5.0V	196-QFP	50.35	39.75	34.45
KU80486SXSA33SX935	801318-ND	33MHz, 32-Bit, 486SX MPU, 5.0V	196-QFP	50.35	39.75	34.45
FV80524RX300128SL36A	820704-ND	300MHz, Celeron, 66MHz Bus, 128K L2 Cache, 2.0V	370-PGA	88.92	70.20	60.84
FV80524RX433128SL3BA	821636-ND	433MHz, Celeron, 66MHz Bus, 128K L2 Cache, 2.0V	370-PGA	77.22	67.86	59.67
KC80524KX366128SL3C7	822451-ND	366MHz, LP Celeron, 66MHz Bus, 128K L2 Cache, 1.6V	615-BGA	108.90	95.70	84.15
KC80526LL300128SL5LG	835679-ND	300MHz, LP Celeron, 100MHz Bus, 128K L2 Cache, 1.1V	495-BGA	82.50	72.50	63.75
KC80526LY400128SL4J8	830981-ND	400MHz, LP Celeron, 100MHz Bus, 128K L2 Cache, 1.3V	495-BGA	91.20	72.00	62.40
KC80526LY400128SL544	833480-ND	400MHz, Celeron, 100MHz Bus, 128K L2 Cache, 1.35V	495-BGA	85.50	67.50	58.50
RB80526RX733128SL52Y	833440-ND	733MHz, Celeron, 66MHz Bus, 128K L2 Cache, 1.7V	370-FC-PGA	76.00	60.00	52.00
RB80526RY850128SL54Q	833470-ND	850MHz, Celeron, 100MHz Bus, 128K L2 Cache, 1.75V	370-PGA	76.00	60.00	52.00
RK80532RC041128S L6RV	851346-ND	2.0GHz Celeron, 400MHz Bus, 128K L2 Cache, 1.525V	478-FC-PGA2	99.00	87.00	76.50
RJ80530VY400256S L6SE	850928-ND	400MHz Celeron LP, 400MHz Bus, 256K L2 Cache, .95V	479-uFc-BGA	66.50	52.50	45.50
RJ80530VY650256S L6B8	846835-ND	650MHz Celeron LP, 400MHz Bus, 256K L2 Cache, .95V	479-uFc-BGA	66.50	62.50	60.00
RK80532RC041128SL6VR	852181-ND	2GHz Celeron Proc.	478-FC-PGA2	99.00	87.00	76.50
RK80532RC060128SL72B	854328-ND	2.5GHz Celeron Proc.	478-FC-PGA2	123.75	108.75	95.63
A80502066100SL2TU	818463-ND	100MHz, Pentium I, 66MHz, 3.3V	296-CPGA	66.54	52.53	45.53
A80502066166SY016	801878-ND	166MHz, Pentium I, 66MHz Bus, 3.3V	296-CPGA	83.60	66.00	57.20
FV80503CSM66166SL2ZX	819416-ND	166MHz, Pentium I with MMX, 66MHz Bus, 1.9V	296-PGA	82.08	64.80	56.16
FV80503CSM66266SL2Z4	819033-ND	266MHz, Pentium I with MMX, 66MHz Bus, 1.9V	296-PGA	85.14	74.82	65.79
GC80503CS166EXTSL3B8	822631-ND	166MHz, Pentium I with MMX, 66MHz Bus, 1.8V, Low Power	352-BGA	75.24	59.40	51.48
GC80503CSM66166SL388	821225-ND	166MHz, Pentium I with MMX, 66MHz Bus, 1.9V	352-BGA	79.80	63.00	54.60
KC80526LY400256SL546	833482-ND	400MHz, LP Pentium III, 100MHz Bus, 256K L2 Cache, 1.35V	495-BGA	123.75	108.75	95.63
KC80526LY500256SL545	833481-ND	500MHz, Pentium III, 100MHz Bus, 256K L2 Cache, 1.35V	495-BGA	140.25	123.25	108.38
RB80526PY600256S L5BT	834318-ND	600MHz, Pentium III, 100MHz Bus, 256K L2 Cache, 1.75V	370-FC-PGA	123.75	108.75	95.63
RB80526PY700256S L4ZM	833747-ND	700MHz, Pentium III, 100MHz Bus, 256K L2 Cache, 1.75V	370-FC-PGA	123.75	108.75	95.63
KC80526GY850256SL547	833483-ND	850MHz, LP Pentium III, 100MHz Bus, 256K L2 Cache, 1.6V	495-BGA	113.05	106.25	102.00
RB80526PY850256S L4Z2	833400-ND	850MHz, Pentium III, 100MHz Bus, 256K L2 Cache, 1.75V	370-FC-PGA	123.75	108.75	95.63
RB80526PZ001256SL52R	833416-ND	1.0GHz, Pentium III, 100MHz Bus, 256K L2 Cache, 1.75V	370-PGA	140.25	123.25	108.38
RB80526PY001256S L5QV	836655-ND	1.0GHz Pentium III, 100MHz Bus, 256K L2 Cache, 1.75V	370-FC-PGA	152.95	143.75	138.00
RJ80530KZ933512S L69K	849162-ND	933MHz, Pentium III, 133MHz Bus, 512K L2 Cache, 1.15V	470-uFC-BGA	269.99	253.75	243.60
RH80532GC029512SL6V6	852229-ND	1.7GHz, Pentium 4	478-MFC-PGA	220.78	207.50	199.20
RK80532PC041512SL6GQ	848653-ND	2.0GHz, Pentium 4, 400MHz Bus, 512K L2 Cache, 1.5V	478-PGA	251.37	236.25	226.80
RH80532GC049512SL6VB	852256-ND	2.2GHz, Pentium 4	478-MFC-PGA	255.36	240.00	230.40
RK80532PE056512S L6PC	850158-ND	2.4GHz, Pentium 4, 400MHz Bus, 512K L2 Cache, 1.5V	478-uFC-BGA	184.87	173.75	166.80
RK80532PE056512SL79B	857396-ND	2.4GHz, Pentium 4, Front Side Bus, 400MHz	478-FC-PGA2	184.87	173.75	166.80
RK80532PC064512SL6PP	850369-ND	2.6GHz, Pentium 4, Front Side Bus, 533MHz	478-FC-PGA2	211.47	198.75	190.80
RJ80535LC0051MSL6NC	851287-ND	1.1GHz, Pentium M	478-MFC-PGA	337.82	317.50	304.80
RH80532GC029512S L6FG	848089-ND	1.7GHz, Pentium 4 Mobile, 400MHz Bus, 512K L2 Cache, 1.3V	478-uFC-BGA	220.78	207.50	199.20
RK80532EC025512S L6GV	849205-ND	1.6GHz, Xeon, 400MHz Bus, 512K L2 Cache 1.3V	604-FC-mPGA-2P	266.00	250.00	240.00
RK80532EC025512SL6XK	852509-ND	1.6GHz, Xeon LV	604-FC-mPGA-2P	266.00	250.00	240.00
RK80532EC041512SL6XL	852510-ND	2GHz, Xeon LV	604-FC-mPGA-2P	272.65	256.25	246.00
RK80532EE056512SL74T	854517-ND	2.4GHz, Xeon LV	604-FC-mPGA-2P	285.95	268.75	258.00
RK80532KE056512S L6GD	848396-ND	2.4GHz, Xeon, 533MHz Bus, 512K L2 Cache 1.5V	604-FC-mPGA-2P	258.02	242.50	232.80
RK80532KE056512SL73L	854163-ND	2.4GHz, Xeon	604-FC-mPGA-2P	258.02	242.50	232.80
RK80532KE072512SL73N	854168-ND	2.8GHz, Xeon	604-FC-mPGA-2P	329.84	310.00	297.60
FW82443BXSL2VH	818428CT-ND	82443BX Controller	492-PBGA	25.94	20.51	16.68
FW82443BXSL2VH	818428TR-ND	82443BX Controller	492-PBGA		5779.80/360	

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LPM25P2F266A	833449-ND	Pentium II, 266MHz, Low Power Module	320.53	301.25	289.20

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21281DB	821351-ND	166MHz, Strong Arm SA-110 Microprocessor	144-TQFP	30.98	24.49	19.92

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GCIXP1200EB	829764-ND	2V, 200MHz, Network Processor	432-BGA	251.90	236.75	227.28
GCIXP1200FB	833954-ND	2V, 200MHz, Network Processor	432-BGA	251.90	236.75	227.28
GCIXP1200FC	833956-ND	2V, 232MHz, Network Processor	432-BGA	338.09	317.75	305.04
GCIXP1200GA	839427-ND	2V, 166MHz, Network Processor	432-BGA	192.32	180.75	173.52
GCIXP1200GB	839428-ND	2V, 200MHz, Network Processor	432-BGA	251.90	236.75	227.28
GCIXP1200GC	839429-ND	2V, 232MHz, Network Processor	432-BGA	338.09	317.75	305.04
GCIXP1240AA	837150-ND	2V, 166MHz, Network Processor with CRC Support	432-BGA	258.55	243.00	233.28
GCIXP1240AB	837151-ND	2V, 200MHz, Network Processor with CRC Support	432-BGA	318.27	299.13	287.16
GCIXP1240AC	837152-ND	2V, 232MHz, Network Processor with CRC Support	432-BGA	404.45	380.13	364.92
GCIXP1250BA	837411-ND	2V, 166MHz, Network Processor with CRC and ECC Support	520-BGA	271.85	255.50	245.28
GCIXP1250BB	837412-ND	2V, 200MHz, Network Processor with CRC and ECC Support	520-BGA	331.44	311.50	299.04
GCIXP1250BC	837414-ND	2V, 232MHz, Network Processor with CRC and ECC Support	520-BGA	417.62	392.50	376.80

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80C31BH1SF88	809484-ND	5V, 16MHz, 8-Bit MPU	40-Dip	3.60	2.88	1.71
80C31BH24SF88	809495-ND	5V, 24MHz, 8-Bit MPU	40-Dip	3.60	2.88	1.71
80C31BH1SF88	809486-ND	5V, 16MHz, 8-Bit MPU	44-MQFP	3.60	2.88	1.71
80C31BH24SF88	811520-ND	5V, 24MHz, 8-Bit MPU	44-QFP	3.60	2.88	1.71
N80C31BH1SF88	810026-ND	5V, 16MHz, 8-Bit MPU, Ext. Temp.	44-PLCC	4.20	3.36	2.00
P80C31BH1SF88	809488-ND	5V, 16MHz, 8-Bit MPU, Ext. Temp.	40-Dip	4.20	3.36	2.00
S80C31BH1SF88	809489-ND	5V, 16MHz, 8-Bit MPU, Ext. Temp.	44-QFP	4.20	3.36	2.00
80C321SF88	809512-ND	5V, 16MHz, 8-Bit MPU	44-PLCC	4.40	3.52	2.09
80C3224SF88	809521-ND	5V, 24MHz, 8-Bit MPU	44-PLCC	4.40	3.52	2.09
80C321SF88	809515-ND	5V, 16MHz, 8-Bit MPU	40-Dip	4.40	3.52	2.09
80C3224SF88	809523-ND	5V, 24MHz, 8-Bit MPU	40-Dip	4.40	3.52	2.09
80C321SF88	809516-ND	5V, 16MHz, 8-Bit MPU	44-MQFP	4.40	3.52	2.09
80C3224SF88	810024-ND	5V, 24MHz, 8-Bit MPU	44-MQFP	4.40	3.52	2.09
N80C321SF88	809517-ND	5V, 16MHz, 8-Bit MPU, Ext. Temp.	44-PLCC	5.00	4.00	2.38
N80C3224SF88	809524-ND	5V, 24MHz, 8-Bit MPU, Ext. Temp.	44-PLCC	5.00	4.00	2.38
P80C321SF88	809518-ND	5V, 16MHz, 8-Bit MPU, Ext. Temp.	40-Dip	5.00	4.00	2.38
S80C321SF88	809519-ND	5V, 16MHz, 8-Bit MPU, Ext. Temp.	44-MQFP	5.00	4.00	2.38
N80C51FA1SF88	811045-ND	5V, 16MHz, 8-Bit MPU, Ext. Temp.	44-PLCC	7.60	6.08	3.61
P80C51FA1SF88	810037-ND	5V, 16MHz, 8-Bit MPU, Ext. Temp.	40-Dip	7.60	6.08	3.61
80C51FA1SF88	809568-ND	5V, 16MHz, 8-Bit MPU	44-PLCC	6.20	4.96	2.95
80C51FA24SF88	809581-ND	5V, 24MHz, 8-Bit MPU	44-PLCC	6.20	4.96	2.95
80C51FA33SF88	810981-ND	5V, 33MHz, 8-Bit MPU	44-PLCC	6.84	5.48	3.25
80C51RA1	804496-ND	5V, 16MHz, 8-Bit MPU	44-PLCC	9.20	7.36	4.37
80C51RA24	804579-ND	5V, 24MHz, 8-Bit MPU	44-PLCC	6.33	5.06	3.34
87C511SF76	810977-ND	5V, 16MHz, 8-Bit, 4K OTP EPROM	44-PLCC	4.95	3.96	2.61
87C51FA1SF76	810760-ND	5V, 16MHz, 8-Bit, 8K OTP EPROM	44-PLCC	7.70	6.16	4.06
87C51FA24SF76	810758-ND	5V, 24MHz, 8-Bit, 8K OTP EPROM	44-PLCC	7.70	6.16	4.06
87C51FC1	811087-ND	5V, 16MHz, 8-Bit, 32K OTP EPROM	44-PLCC	7.99	6.29	4.76
87C51RB1	807251-ND	5V, 16MHz, 8-Bit, 16K OTP EPROM	44-PLCC	7.99	6.29	4.76
87C51RC1	800186-ND	5V, 16MHz, 8-Bit, 32K OTP EPROM	44-PLCC	8.93	7.03	5.32
80C51FA1SF88	810046-ND	5V, 16MHz, 8-Bit MPU	40-Dip	6.20	4.96	2.95
80C51FA24SF88	810039-ND	5V, 24MHz, 8-Bit MPU	40-Dip	6.20	4.96	2.95
80C51RA1	804514-ND	5V, 16MHz, 8-Bit MPU	40-Dip	9.20	7.36	4.37
80C51RA24	804586-ND	5V, 24MHz, 8-Bit MPU	40-Dip	6.33	5.06	3.34
87C511SF76	810992-ND	5V, 16MHz, 8-Bit, 4K OTP EPROM	40-Dip	4.95	3.96	2.61
87C51FB1SF76	811013-ND	5V, 16MHz, 8-Bit, 16K OTP EPROM	40-Dip	7.05	5.55	4.20
80C51FA1SF88	809572-ND	5V, 16MHz, 8-Bit MPU	44-MQFP	6.20	4.96	2.95
80C51RA1	804523-ND	5V, 16MHz, 8-Bit MPU	44-MQFP	9.20	7.36	4.37
80C51RA24	804592-ND	5V, 24MHz, 8-Bit MPU	44-MQFP	6.33	5.06	3.34
N80C51FA1SF88	809574-ND	5V, 16MHz, 8-Bit MPU, Ext. Temp.	44-PLCC	6.80	5.44	3.23
N80C51FA24SF88	809583-ND	5V, 24MHz, 8-Bit MPU, Ext. Temp.	44-PLCC	6.80	5.44	3.23
P80C51FA1SF88	810034-ND	5V, 16MHz, 8-Bit MPU, Ext. Temp.	40-Dip	6.80	5.44	3.23
S80C51FA1SF88	810998-ND	5V, 16MHz, 8-Bit MPU, Extended Temperature	44-MQFP	6.80	5.44	3.23
S80C51RA1	804534-ND	5V, 16MHz, 8-Bit MPU Extended Temperature	44-MQFP	6.74	5.39	3.56
S80C51RA24	804603-ND	5V, 24MHz, 8-Bit MPU Extended Temperature	44-MQFP	6.74	5.39	3.56
S87C51FA1SF76	811518-ND	5V, 16MHz, 8-Bit, 8K OTP EPROM MCU, Extended Temp.	44-QFP	8.11	6.49	4.28
N87C51FA20F8	821038-ND	5V, 20MHz, 8-Bit, 8K OTP MCU, Automotive	44-PLCC	13.84	10.90	8.25
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87C51FC20SF76	811050-ND	5V, 20MHz, 8-Bit, 32K UV EPROM MCU	40-CDip	38.85	30.71	24.98
N87C511SF76	823401-ND	5V, 16MHz, 8-Bit, 4K OTP MCU, Extended Temperature	44-PLCC	5.91	4.73	3.12
N87C51FA1SF76	823334-ND	5V, 16MHz, 8-Bit, 8K OTP MCU, Extended Temperature	44-PLCC	8.66	6.93	4.57
N87C51FC20SF76	811064-ND	5V, 20MHz, 8-Bit, 32K OTP MCU, Extended Temperature	44-PLCC	8.81	6.94	5.25
N87C51FC24SF76	812078-ND	5V, 24MHz, 8-Bit, 32K OTP MCU, Extended Temperature	44-PLCC	8.81	6.94	5.25
P87C51FC1SF76	823340-ND	5V, 16MHz, 8-Bit, 32K OTP MCU, Extended Temperature	40-Dip	8.81	6.94	5.25
87C5124SF76	810976-ND	5V, 24MHz, 8-Bit, 4K OTP MCU	44-PLCC	4.95	3.96	2.61
87C51FA33SF76	810753-ND	5V, 33MHz, 8-Bit, 8K OTP MCU	44-PLCC	8.47	6.78	4.47
87C51FB1SF76	812060-ND	5V, 16MHz, 8-Bit, 16K OTP MCU	44-PLCC	7.05	5.55	4.20
87C51FB20SF76	810972-ND	5V, 20MHz, 8-Bit, 16K OTP MCU	44-PLCC	8.81	6.94	5.25
87C51FB24SF76	811012-ND	5V, 24MHz, 8-Bit, 16K OTP MCU	44-PLCC	7.05	5.55	4.20
87C51FB33SF76	811022-ND	5V, 33MHz, 8-Bit, 16K OTP MCU	44-PLCC	7.76	6.11	4.62
87C51FC24SF76	811089-ND	5V, 24MHz, 8-Bit, 32K OTP MCU	44-PLCC	7.99	6.29	4.76
87C51FC33SF76	811090-ND	5V, 33MHz, 8-Bit, 32K OTP MCU	44-PLCC	8.79	6.92	5.24
87C51RA1	806959-ND	5V, 16MHz, 8-Bit, 8K OTP MCU	44-PLCC	7.05	5.55	4.20
87C51RA24	807119-ND	5V, 24MHz, 8-Bit, 8K OTP MCU	44-PLCC	7.05	5.55	4.20
87C51RB24	807306-ND	5V, 24MHz, 8-Bit, 16K OTP MCU	44-PLCC	7.99	6.29	4.76
87C51RC24	800338-ND	5V, 24MHz, 8-Bit, 32K OTP MCU	44-PLCC	8.93	7.03	5.32
87C5124SF76	811003-ND	5V, 24MHz, 8-Bit, 4K OTP MCU	40-Dip	4.95	3.96	2.61
87C51FA1SF76	810744-ND	5V, 16MHz, 8-Bit, 8K OTP MCU	40-Dip	7.70	6.16	4.06
87C51FA24SF76	810748-ND	5V, 24MHz, 8-Bit, 8K OTP MCU	40-Dip	7.70	6.16	4.06
87C51FA33SF76	810756-ND	5V, 33MHz, 8-Bit, 8K OTP MCU	40-Dip	8.47	6.78	4.47
87C51FB24SF76	811020-ND	5V, 24MHz, 8-Bit, 16K OTP MCU	40-Dip	7.05	5.55	4.20
87C51FB33SF76	810366-ND	5V, 33MHz, 8-Bit, 16K OTP MCU	40-Dip	7.76	6.11	4.62
87C51FC1SF76	811076-ND	5V, 16MHz, 8-Bit, 32K OTP MCU	40-Dip	7.99	6.29	4.76
87C51FC24SF76	811077-ND	5V, 24MHz, 8-Bit, 32K OTP MCU	40-Dip	7.99	6.29	4.76
87C51FC33SF76	811074-ND	5V, 33MHz, 8-Bit, 32K OTP MCU	40-Dip	8.79	6.92	5.24
87C51RA1	806971-ND	5V, 16MHz, 8-Bit, 8K OTP MCU	40-Dip	7.05	5.55	4.20
87C51RA24	807140-ND	5V, 24MHz, 8-Bit, 8K OTP MCU	40-Dip	7.05	5.55	4.20
87C51RB1	807273-ND	5V, 16MHz, 8-Bit, 16K OTP MCU	40-Dip	7.99	6.29	4.76
87C51RB24	807310-ND	5V, 24MHz, 8-Bit, 16K OTP MCU	40-Dip	7.99	6.29	4.76
87C51RC1	800209-ND	5V, 16MHz, 8-Bit, 32K OTP MCU	40-Dip	8.93	7.03	5.32
87C51RC24	800354-ND	5V, 24MHz, 8-Bit, 32K OTP MCU	40-Dip	8.93	7.03	5.32
87C511SF76	823331-ND	5V, 16MHz, 8-Bit, 4K OTP MCU	44-MQFP	4.95	3.96	2.61
87C51FA1SF76	804439-ND	5V, 16MHz, 8-Bit, 8K OTP MCU	44-MQFP	7.70	6.16	4.06
87C51FA24SF76	810749-ND	5V, 24MHz, 8-Bit, 8K OTP MCU	44-MQFP	7.70	6.16	4.06
87C51FB1SF76	805377-ND	5V, 16MHz, 8-Bit, 16K OTP MCU	44-MQFP	7.05	5.55	4.20
87C51FB24SF76	811017-ND	5V, 24MHz, 8-Bit, 16K OTP MCU	44-MQFP	7.05	5.55	4.20
87C51FB33SF76	811019-ND	5V, 33MHz, 8-Bit, 16K OTP MCU	44-MQFP	7.76	6.11	4.62
S87C51FC1SF76	806104-ND	5V, 16MHz, 8-Bit, 32K OTP MCU	44-MQFP	7.99	6.29	4.76
S87C51FC24SF76	811081-ND	5V, 24MHz, 8-Bit, 32K OTP MCU	44-MQFP	7.99	6.29	4.76
S87C51RA1	806989-ND	5V, 16MHz, 8-Bit, 8K OTP MCU	44-MQFP	7.05	5.55	4.20
S87C51RA24	807154-ND	5V, 24MHz, 8-Bit, 8K OTP MCU	44-MQFP	7.05	5.55	4.20
S87C51RB1	807279-ND	5V, 16MHz, 8-Bit, 16K OTP MCU	44-MQFP	7.99	6.29	4.76
S87C51RB24	807314-ND	5V, 24MHz, 8-Bit, 16K OTP MCU	44-MQFP	7.99	6.29	4.76
S87C51RC1	800221-ND	5V, 16MHz, 8-Bit, 32K OTP MCU	44-MQFP	8.93	7.03	5.32
S87C51RC24	800375-ND	5V, 24MHz, 8-Bit, 32K OTP MCU	44-MQFP	8.93	7.03	5.32
TN87C511SF76	811004-ND	5V, 16MHz, 8-Bit, 4K OTP MCU, Extended Temperature	44-PLCC	5.36	4.29	2.83
TN87C5124SF76	810989-ND	5V, 24MHz, 8-Bit, 4K OTP MCU, Extended Temperature	44-PLCC	5.36	4.29	2.83
TN87C51FA1SF76	810774-ND	5V, 16MHz, 8-Bit, 8K OTP MCU, Extended Temperature	44-PLCC	8.11	6.49	4.28
TN87C51FA24SF76	810975-ND	5V, 24MHz, 8-Bit, 8K OTP MCU, Extended Temperature	44-PLCC	8.11	6.49	4.28
TN87C51FB1SF76	812042-ND	5V, 16MHz, 8-Bit, 16K OTP MCU, Extended Temperature	44-PLCC	7.40	5.83	4.41
TN87C51FB24SF76	812495-ND	5V, 24MHz, 8-Bit, 16K OTP MCU, Extended Temperature	44-PLCC	7.40	5.83	4.41
TN87C51FC1SF76	812059-ND	5V, 16MHz, 8-Bit, 32K OTP MCU, Extended Temperature	44-PLCC	8.34	6.57	4.97
TN87C51FC24SF76	811071-ND	5V, 24MHz, 8-Bit, 32K OTP MCU, Extended Temperature	44-PLCC	8.34	6.57	4.97
TN87C51RA1	807001-ND	5V, 16MHz, 8-Bit, 8K OTP MCU, Extended Temperature	44-PLCC	7.40	5.83	4.41
TN87C51RB24	807318-ND	5V, 24MHz, 8-Bit, 16K OTP MCU, Extended Temperature	44-PLCC	8.34	6.57	4.97
TN87C51RC24	800391-ND	5V, 24MHz, 8-Bit, 32K OTP MCU, Extended Temperature	44-PLCC	9.28	7.31	5.53
TP87C511SF76	811000-ND	5V, 16MHz, 8-Bit, 4K OTP MCU, Extended Temperature	40-Dip	5.36	4.29	2.83
TP87C51FA1SF76	810986-ND	5V, 16MHz, 8-Bit, 8K OTP MCU, Extended Temperature	40-Dip	8.11	6.49	4.28
TP87C51FA24SF76	810990-ND	5V, 24MHz, 8-Bit, 8K OTP MCU, Extended Temperature	40-Dip	8.11	6.49	4.28
TP87C51FB1SF76	811023-ND	5V, 16MHz, 8-Bit, 16K OTP MCU, Extended Temperature	40-Dip	7.40	5.83	4.41
TP87C51FB24SF76	811015-ND	5V, 24MHz, 8-Bit, 16K OTP MCU, Extended Temperature	40-Dip	7.40	5.83	4.41
TP87C51FC1SF76	814033-ND	5V, 16MHz, 8-Bit, 32K OTP MCU, Extended Temperature	40-Dip	8.34	6.57	4.97
TP87C51RB24	807320-ND	5V, 24MHz, 8-Bit, 16K OTP MCU, Extended Temperature	40-Dip	8.34	6.57	4.97
TP87C51RC24	800408-ND	5V, 24MHz, 8-Bit, 32K OTP MCU, Extended Temperature	40-Dip	9.28	7.31	5.53
TS87C51FA24SF76	810982-ND	5V, 24MHz, 8-Bit, 8K OTP MCU, Extended Temperature	44-MQFP	8.11	6.49	4.28
TS87C51FB1SF76	812058-ND	5V, 16MHz, 8-Bit, 16K OTP MCU, Extended Temperature	44-MQFP	7.40	5.83	4.41
TS87C51RA1	807033-ND	5V, 16MHz, 8-Bit, 8K OTP MCU, Extended Temperature	44-MQFP	7.40	5.83	4.41
TS87C51RA24	807166-ND	5V, 24MHz, 8-Bit, 8K OTP MCU, Extended Temperature	44-MQFP	7.40	5.83	4.41
TS87C51RB1	807285-ND	5V, 16MHz, 8-Bit, 16K OTP MCU, Extended Temperature	44-MQFP	8.34	6.57	4.97
TS87C51RB24	807322-ND	5V, 24MHz, 8-Bit, 16K OTP MCU, Extended Temperature	44-MQFP	8.34	6.57	4.97
TS87C51RC24	800417-ND	5V, 24MHz, 8-Bit, 32K OTP MCU, Extended Temperature	44-MQFP	9.28	7.31	5.53
N87C521SF76	810755-ND	5V, 16MHz, 8-Bit, 8K OTP EPROM	44-PLCC	5.78	4.62	3.05
N87C5224SF76	810752-ND	5V, 24MHz, 8-Bit, 8K OTP MCU	44-PLCC	5.78	4.62	3.05
N87C5233SF76	810763-ND	5V, 33MHz, 8-Bit, 8K OTP MCU	44-PLCC	6.35	5.09	3.35
P87C521SF76	810765-ND	5V, 16MHz, 8-Bit, 8K OTP EPROM	40-Dip	5.78	4.62	3.05
P87C5224SF76	810767-ND	5V, 24MHz, 8-Bit, 8K OTP MCU	40-Dip	5.78	4.62	3.05
P87C5233SF76	810768-ND	5V, 33MHz, 8-Bit, 8K OTP MCU	40-Dip	6.35	5.09	3.35
S87C521SF76	810770-ND	5V, 16MHz, 8-Bit, 8K OTP MCU	44-MQFP	5.78	4.62	3.05
TN87C521SF76	810688-ND	5V, 16MHz, 8-Bit, 8K OTP MCU, Extended Temperature	44-PLCC	6.19	4.95	3.27
TN87C5224SF76	819853-ND	5V, 24MHz, 8-Bit, 8K OTP MCU, Extended Temperature	44-PLCC	6.19	4.95	3.27
AN87C54F8	821116-ND	5V, 16MHz, 8-Bit, 16K OTP MCU, Automotive	44-PLCC	14.52	11.44	8.66
D87C541SF76	810730-ND	5V, 16MHz, 8-Bit, 16K UV EPROM	40-CDip	26.25	20.75	16.88
D87C5433SF76	810732-ND	5V, 33MHz, 8-Bit, 16K UV EPROM	40-CDip	28.88	22.83	18.57
N87C541SF76	810719-ND	5V, 16MHz, 8-Bit, 16K OTP MCU	44-PLCC	7.70	6.16	4.06
N87C5424SF76	810720-ND	5V, 24MHz, 8-Bit, 16K OTP MCU	44-PLCC	7.70	6.16	4.06
N87C5433SF76	810721-ND	5V, 33MHz, 8-Bit, 16K OTP MCU	44-PLCC	7.24	5.70	4.32
S87C541SF76	810369-ND	5V, 16MHz, 8-Bit, 16K OTP MCU	44-MQFP	7.70	6.16	4.06
S87C5424SF76	810712-ND	5V, 24MHz, 8-Bit, 16K OTP MCU	44-MQFP	7.70	6.16	4.06
TD87C541SF76	823347-ND	5V, 16MHz, 8-Bit, 16K UV EPROM MCU, Extended Temp.	40-CDip	26.57	21.00	17.08
N87C581SF76	810724-ND	5V, 16MHz, 8-Bit, 32K OTP MCU	44-PLCC	6.11	4.81	3.64
N87C5833SF76	810725-ND	5V, 33MHz, 8-Bit, 32K OTP MCU	44-PLCC	6.72	5.30	4.01
P87C581SF76	823402-ND	5V, 16MHz, 8-Bit, 32K OTP MCU	40-Dip	6.11	4.81	3.64
P87C5820SF76	810728-ND	5V, 20MHz, 8-Bit, 32K OTP MCU	40-Dip	6.11	4.81	3.64
P87C5833SF76	810729-ND	5V, 33MHz, 8-Bit, 32K OTP MCU	40-Dip	6.72	5.30	4.01
S87C581SF76	810734-ND	5V, 16MHz, 8-Bit, 32K OTP MCU	44-MQFP	6.11	4.81	3.64

intel — MCS® 96 MICROCONTROLLERS

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	10	100
N80C196KB16	804072-ND	5V, 16MHz, 16-Bit MPU	68-PLCC	10.86	8.69	5.73
N80C196KC20	804097-ND	5V, 20MHz, 16-Bit MPU	68-PLCC	14.34	11.29	8.54
N80C196MC	804195-ND	5V, 16MHz, 16-Bit Industrial Motor Control MPU	84-PLCC	16.45	12.95	9.80
N80C196MD	804212-ND	5V, 16MHz, 16-Bit Industrial Motor Control MPU	84-PLCC	17.16	13.51	10.22
N80C196MH	804221-ND	5V, 16MHz, 16-Bit Industrial Motor Control MPU	84-PLCC	19.27	15.17	11.48
N80C196NT	804261-ND	5V, 20MHz, 16-Bit Event Processor Array MPU	68-PLCC	20.68	16.28	12.32
S80C196EA	816572-ND	5V, 40MHz, 16-Bit Event Processor Array MPU	160-QFP	18.90	14.94	12.15

(Continued)

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intel MCS® 96 MICROCONTROLLERS (Continued)

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	10	100
S80C196KB16	804079-ND	5V, 16MHz, 16-Bit HS I/O MPU	80-QFP	10.86	8.69	5.73
S80C196KC20	804117-ND	5V, 20MHz, 16-Bit HS I/O MPU	80-MQFP	14.34	11.29	8.54
S80C196MC	804203-ND	5V, 16MHz, 16-Bit Industrial Motor Control MPU	80-MQFP	16.45	12.95	9.80
S80C196MH	804227-ND	5V, 16MHz, 16-Bit Industrial Motor Control MPU	80-MQFP	19.27	15.17	11.48
S80C196NP25	804249-ND	5V, 25MHz, 16-Bit Event Processor Array MPU	100-QFP	17.63	13.88	10.50
S80C196NU40	804302-ND	5V, 40MHz, 16-Bit Event Processor Array MPU	100-QFP	18.80	14.80	11.20
S80C196NU50	804314-ND	5V, 50MHz, 16-Bit Event Processor Array MPU	100-QFP	20.68	16.28	12.32
SB80C196KC20	811735-ND	5V, 20MHz, 16-Bit HS I/O MPU	80-SQFP	14.34	11.29	8.54
SB80C196NP	804243-ND	5V, 25MHz, 16-Bit Event Processor Array MPU	100-SQFP	17.63	13.88	10.50
SB80C196NP25	804256-ND	5V, 25MHz, 16-Bit Event Processor Array MPU	100-SQFP	17.63	13.88	10.50
SB80C196NU40	804308-ND	5V, 40MHz, 16-Bit Event Processor Array MPU	100-SQFP	18.80	14.80	11.20
SB80C196NU50	804321-ND	5V, 50MHz, 16-Bit Event Processor Array MPU	100-SQFP	18.48	14.61	11.88
TN80C196KB16	808448-ND	5V, 16MHz, 16-Bit MPU, Extended Temperature	68-PLCC	11.28	9.02	5.95
TN80C196KC20	804155-ND	5V, 20MHz, 16-Bit High Speed I/O MPU, Extended Temperature	68-PLCC	14.69	11.57	8.75
TN80C196NT	804267-ND	5V, 20MHz, 16-Bit Event Processor Array MPU, Extended Temp.	68-PLCC	18.80	14.86	12.09
AN87C196CAF8	820748-ND	5V, 16MHz, 16-Bit, 32K OTP MCU, Automotive	68-PLCC	39.63	31.33	25.48
AN87C196JRF8	821035-ND	5V, 16MHz, 16-Bit, 16K OTP MCU, Automotive	52-PLCC	19.98	15.73	11.90
AN87C196JTWB20	828470-ND	5V, 20MHz, 16-Bit, 32K OTP MCU, Automotive	52-PLCC	21.15	16.65	12.60
AN87C196JV20F8	821068-ND	5V, 20MHz, 16-Bit, 48K OTP MCU, Automotive	52-PLCC	25.20	19.92	16.20
AN87C196KC16F8	820746-ND	5V, 16MHz, 16-Bit, 16K OTP MCU, Automotive	68-PLCC	18.90	14.94	12.15
AN87C196KDF8	820752-ND	5V, 16MHz, 16-Bit, 32K OTP MCU, Automotive	68-PLCC	25.20	19.92	16.20
AN87C196KRF8	820754-ND	5V, 16MHz, 16-Bit, 32K OTP MCU, Automotive	68-PLCC	29.53	23.34	18.99
AN87C196KTF8	820756-ND	5V, 16MHz, 16-Bit, 16K OTP MCU, Automotive	68-PLCC	44.67	35.31	28.72
AN87C196LA20F8	821030-ND	5V, 20MHz, 16-Bit, 24K OTP MCU, Automotive	52-PLCC	33.62	26.58	21.62
AS87C196CB20F8	821067-ND	5V, 20MHz, 16-Bit, 56K OTP MCU, Automotive	100-QFP	39.48	31.21	25.38
N87C196KB16	802532-ND	5V, 16MHz, 16-Bit, 8K OTP MCU	68-PLCC	18.92	14.90	11.27
N87C196KC20	802695-ND	5V, 20MHz, 16-Bit, 16K OTP MCU	68-PLCC	23.21	18.35	14.92
N87C196KD	802848-ND	5V, 16MHz, 16-Bit, 32K OTP MCU	68-PLCC	25.31	20.01	16.27
N87C196KD20	802914-ND	5V, 20MHz, 16-Bit, 32K OTP MCU	68-PLCC	25.31	20.01	16.27
N87C196MC	803344-ND	5V, 16MHz, 16-Bit, 16K OTP Industrial Motor Control MCU	84-PLCC	17.85	14.11	11.48
N87C196MD	803624-ND	5V, 16MHz, 16-Bit, 16K OTP MCU	84-PLCC	18.48	14.61	11.88
N87C196MH	803661-ND	5V, 16MHz, 16-Bit, 32K OTP MCU	84-PLCC	19.95	15.77	12.83
N87C196NT	803728-ND	5V, 20MHz, 16-Bit, 32K OTP MCU	68-PLCC	27.30	21.58	17.55
S87C196KB16	802539-ND	5V, 16MHz, 16-Bit, 8K OTP MCU	80-QFP	18.92	14.90	11.27
S87C196KC20	802755-ND	5V, 20MHz, 16-Bit, 16K OTP MCU	80-MQFP	23.21	18.35	14.92
S87C196KD	802861-ND	5V, 16MHz, 16-Bit, 32K OTP MCU	80-MQFP	25.31	20.01	16.27
S87C196MC	803364-ND	5V, 16MHz, 16-Bit, 16K OTP MCU	80-MQFP	17.85	14.11	11.48
S87C196MD	803636-ND	5V, 16MHz, 16-Bit, 16K OTP MCU	80-MQFP	18.48	14.61	11.88
S87C196MH	803677-ND	5V, 16MHz, 16-Bit, 32K OTP Industrial Motor Control MCU	80-QFP	19.95	15.77	12.83
SB87C196KC20	802774-ND	5V, 20MHz, 16-Bit, 16K OTP MCU	80-SQFP	23.21	18.35	14.92
SB87C196KD20	802938-ND	5V, 20MHz, 16-Bit, 32K OTP MCU	80-SQFP	25.31	20.01	16.27
TN87C196CA	817074-ND	5V, 16MHz, 16-Bit, 32K OTP MCU, Extended Temp.	68-PLCC	17.85	14.11	11.48
TN87C196CB	817075-ND	5V, 16MHz, 16-Bit, 56K OTP MCU, Extended Temp.	84-PLCC	19.95	15.77	12.83
TN87C196KB16	802547-ND	5V, 16MHz, 16-Bit, 8K OTP MCU, Extended Temp.	68-PLCC	19.27	15.17	11.48
TN87C196KC20	802788-ND	5V, 20MHz, 16-Bit, 16K OTP MCU, Extended Temp.	68-PLCC	23.52	18.60	15.12
TN87C196NT	803734-ND	5V, 20MHz, 16-Bit, 32K OTP MCU, Extended Temp.	68-PLCC	27.62	21.83	17.76
U87C196MC	803558-ND	5V, 16MHz, 16-Bit, 16K OTP MCU	64-SDip	18.90	14.94	12.15

intel MCS® 251 MICROPROCESSORS

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	10	100
N80C251SB16SF87	804421-ND	5V, 16MHz, 8-Bit MPU, 1K Register RAM	44-PLCC	9.35	7.48	4.93
N80C251SQ16	804459-ND	5V, 16MHz, 8-Bit MPU, 512 Byte Register RAM	44-PLCC	8.80	7.04	4.64
N80C251TB24	816721-ND	5V, 24MHz, 8-Bit MPU, 1K Register RAM	44-PLCC	8.25	6.60	4.35
N80C251TQ24	816722-ND	5V, 24MHz, 8-Bit MPU, 512K Register RAM	44-PLCC	7.70	6.16	4.06
P80C251SB16	804434-ND	5V, 16MHz, 8-Bit MPU, 1K Register RAM	40-Dip	9.35	7.48	4.93
P80C251SQ16	804477-ND	5V, 16MHz, 8-Bit MPU, 512 Byte Register RAM	40-Dip	8.80	7.04	4.64
P80C251TB24	816703-ND	5V, 24MHz, 8-Bit MPU, 1K Register RAM	40-Dip	8.25	6.60	4.35
P80C251TQ24	816704-ND	5V, 24MHz, 8-Bit MPU, 512K Register RAM	40-Dip	7.70	6.16	4.06
TN80C251SB16	804441-ND	5V, 16MHz, 8-Bit MPU, 1K Register RAM, Ext. Temp.	44-PLCC	9.76	7.81	5.15
TN80C251SQ16	804487-ND	5V, 16MHz, 8-Bit MPU, 512 Byte Register RAM, Ext. Temp.	44-PLCC	9.21	7.37	4.86
TN80C251TB24	816729-ND	5V, 24MHz, 8-Bit MPU, 1K Register RAM, Ext. Temp.	44-PLCC	8.66	6.93	4.57
TN80C251TQ24	816720-ND	5V, 24MHz, 8-Bit MPU, 512K Register RAM, Ext. Temp.	44-PLCC	8.11	6.49	4.28
TP80C251SB16	804453-ND	5V, 16MHz, 8-Bit MPU, 1K Register RAM, Extended Temp.	40-Dip	9.76	7.81	5.1
TP80C251SQ16	804495-ND	5V, 16MHz, 8-Bit MPU, 512 Byte Register RAM, Extended Temp.	40-Dip	9.21	7.37	4.8
TP80C251TB24	816714-ND	5V, 24MHz, 8-Bit MPU, 1K Register RAM, Extended Temp.	40-Dip	8.66	6.93	4.5
TP80C251TQ24	816718-ND	5V, 24MHz, 8-Bit MPU, 512K Register RAM, Ext. Temp.	40-Dip	8.11	6.49	4.2
N87C251SA16	803771-ND	5V, 16MHz, 8-Bit, 8K OTP MCU	44-PLCC	8.23	6.48	4.9
N87C251SB16SF87	803916-ND	5V, 16MHz, 8-Bit, 16K OTP MCU	44-PLCC	9.17	7.22	5.4
N87C251SP16	803998-ND	5V, 16MHz, 8-Bit, 8K OTP MCU	44-PLCC	8.06	6.35	4.8
N87C251SQ16	804054-ND	5V, 16MHz, 8-Bit, 16K OTP MCU	44-PLCC	8.72	6.87	5.2
P87C251SA16	803788-ND	5V, 16MHz, 8-Bit, 8K OTP MCU	40-Dip	8.23	6.48	4.9
P87C251SB16	803923-ND	5V, 16MHz, 8-Bit, 16K OTP MCU	40-Dip	9.17	7.22	5.4
P87C251SP16	804007-ND	5V, 16MHz, 8-Bit, 8K OTP MCU	40-Dip	8.06	6.35	4.8
P87C251SQ16	804066-ND	5V, 16MHz, 8-Bit, 16K OTP MCU	40-Dip	8.72	6.87	5.2
TN87C251SA16	803800-ND	5V, 16MHz, 8-Bit, 8K OTP MCU, Extended Temp.	44-PLCC	8.58	6.76	5.1
TN87C251SB16	803953-ND	5V, 16MHz, 8-Bit, 16K OTP MCU, Extended Temp.	44-PLCC	9.52	7.50	5.6
TN87C251SP16	804021-ND	5V, 16MHz, 8-Bit, 8K OTP MCU, Extended Temp.	44-PLCC	8.41	6.63	5.0
TN87C251SQ16	804087-ND	5V, 16MHz, 8-Bit, 16K OTP MCU, Extended Temp.	44-PLCC	9.07	7.15	5.4
TP87C251SA16	803809-ND	5V, 16MHz, 8-Bit, 8K OTP MCU, Extended Temp.	40-Dip	8.58	6.76	5.1
TP87C251SB16	803973-ND	5V, 16MHz, 8-Bit, 16K OTP MCU, Extended Temp.	40-Dip	9.52	7.50	5.6
TP87C251SP16	804036-ND	5V, 16MHz, 8-Bit, 8K OTP MCU, Extended Temp.	40-Dip	8.41	6.63	5.0
TP87C251SQ16	804103-ND	5V, 16MHz, 8-Bit, 16K OTP MCU, Extended Temp.	40-Dip	9.07	7.15	5.4

intel MCS® 296 MICROPROCESSORS

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	10	100
S80296SA40	806832-ND	5V, 40MHz, 16-Bit MPU	100-QFP	22.05	17.43	14.1
S80296SA50	806844-ND	5V, 50MHz, 16-Bit MPU	100-QFP	24.26	19.18	15.8

intel i960 MICROPROCESSORS

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	10	100
A80960CA16	802846-ND	16MHz, i960CA, 32-Bit MPU with DMA, 1K Cache	168-PGA	64.85	51.20	44.3
A80960CA25	802884-ND	25MHz, i960CA, 32-Bit MPU with DMA, 1K Cache	168-PGA	69.96	55.23	47.8
A80960CA33	802946-ND	33MHz, i960CA, 32-Bit MPU with DMA, 1K Cache	168-PGA	83.56	65.97	57.1
A80960CF25	803021-ND	25MHz, i960CF, 32-Bit MPU with DMA, 4K Cache	168-PGA	86.60	68.37	59.2
A80960CF33	803084-ND	33MHz, i960CF, 32-Bit MPU with DMA, 4K Cache	168-PGA	89.78	78.90	69.3
A80960CF40	803133-ND	40MHz, i960CF, 32-Bit MPU with DMA, 4K Cache	168-PGA	111.47	97.97	86.1
A80960HA33SL2GY	813629-ND	33MHz, i960HA, 32-Bit MPU, 3.3V, 16K Cache	168-PGA	87.06	68.73	59.5
A80960HA40SL2GZ	813628-ND	40MHz, i960HA, 32-Bit MPU, 3.3V, 16K Cache	168-PGA	90.74	71.64	62.0
A80960HD50SL2GH	815231-ND	50MHz, i960HD, 32-Bit MPU, 3.3V, 16K Cache	168-CPGA	85.19	74.87	65.5
A80960HD66SL2GJ	815230-ND	66MHz, i960HD, 32-Bit MPU, 33MHz Bus, 3.3V	168-CPGA	91.66	80.55	70.8
A80960HT75SL2GP	814114-ND	75MHz, i960HT, 32-Bit MPU, 3.3V, 16K Cache	168-PGA	101.76	89.43	78.6
A80960JA3V25	819528-ND	25MHz, i960JA, 32-Bit MPU, 3.3V, 2K Cache	132-PGA	48.09	37.97	32.9
A80960JA3V33	819529-ND	33MHz, i960JA, 32-Bit MPU, 3.3V, 2K Cache	132-PGA	57.00	45.00	39.0
A80960JD3V33	819533-ND	33MHz, i960JD, 32-Bit MPU, 16MHz Bus, 3.3V, 4K Cache	132-PGA	66.50	52.50	45.5
A80960JD3V50	819536-ND	50MHz, i960JD, 32-Bit MPU, 3.3V, 4K Cache	132-PGA	74.18	58.56	50.7
A80960JD3V66	819538-ND	66MHz, i960JD, 32-Bit MPU, 3.3V, 4K Cache	132-QFP	83.60	66.00	57.2
A80960JF3V25	819540-ND	25MHz, i960JF, 32-Bit MPU, 3.3V, 4K Cache	132-PGA	66.50	52.50	45.5
A80960JF3V33	819542-ND	33MHz, i960JF, 32-Bit MPU, 3.3V, 4K Cache	132-PGA	76.00	60.00	52.0
A80960KA16	803435-ND	16MHz, i960KA, 32-Bit MPU, 512 Byte Cache	132-PGA	48.30	38.18	31.0
A80960KA25	803490-ND	25MHz, i960KA, 32-Bit MPU, 512 Byte Cache	132-PGA	51.45	40.67	33.0
A80960KB16	803496-ND	16MHz, i960KB, 32-Bit MPU, 512 Byte Cache	132-PGA	42.69	33.75	27.4
A80960KB20	803516-ND	20MHz, i960KB, 32-Bit MPU, 512 Byte Cache	132-PGA	53.97	42.67	34.7
A80960KB25	803535-ND	25MHz, i960KB, 32-Bit MPU, 512 Byte Cache	132-PGA	56.70	44.82	36.4
A80960MC25	816319-ND	25MHz, i960MC, 32-Bit MPU, 512 Byte Cache	132-CPGA	192.05	180.50	173.2
FC80960HA25SL2GU	813626-ND	25MHz, i960HA, 32-Bit MPU, 3.3V, 16K Cache	208-QFP	65.74	51.90	44.9
FC80960HA33SL2GV	813627-ND	33MHz, i960HA, 32-Bit MPU, 3.3V, 16K Cache	208-QFP	73.66	58.16	50.4
FC80960HA40SL2GW	813625-ND	40MHz, i960HA, 32-Bit MPU, 3.3V, 16K Cache	208-QFP	77.12	60.89	52.7
FC80960HD32SL2GL	815243-ND	32MHz, i960HD, 32-Bit MPU, 3.3V, 16K Cache	208-QFP	78.36	61.86	53.6
FC80960HD50SL2GM	815241-ND	50MHz, i960HD, 32-Bit MPU, 3.3V, 16K Cache	208-QFP	83.89	66.23	57.4
FC80960HD66SL2GN	815238-ND	66MHz, i960HD, 32-Bit MPU, 3.3V, 16K Cache	208-SQFP	84.86	74.58	65.5

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intel i960 MICROPROCESSORS (Continued)

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	10	100
FC80960HT75SL2GT	815234-ND	75MHz, i960HT, 32-Bit MPU, 3.3V, 16K Cache	208-QFP	89.45	78.61	69.12
FW80960VH100	820682-ND	100MHz, i960VH, 32-Bit MPU, 3.3V, 16K Cache	324-BGA	75.43	59.55	51.61
GD80960JA25	820061-ND	25MHz, i960JA, 32-Bit MPU, 3.3V, 2K Cache	196-BGA	28.41	22.46	18.27
GD80960JA33	820063-ND	33MHz, i960JA, 32-Bit MPU, 3.3V, 2K Cache	196-BGA	35.47	28.04	22.81
GD80960JF33	819771-ND	33MHz, i960JF, 32-Bit MPU, 3.3V, 4K Cache	196-BGA	44.75	35.38	28.77
KU80960CA16	802858-ND	16MHz, i960CA, 32-Bit MPU with DMA, 1K Cache	196-QFP	71.69	56.68	46.09
KU80960CF25	803044-ND	25MHz, i960CF, 32-Bit MPU with DMA, 4K Cache	196-QFP	70.78	55.88	48.43
KU80960CF33	803114-ND	33MHz, i960CF, 32-Bit MPU with DMA, 4K Cache	196-QFP	85.37	67.40	58.41
N80960SA10	803819-ND	10MHz, i960SA, 32-Bit MPU, 512 Byte Cache	84-PLCC	19.98	15.73	11.90
N80960SA16	803825-ND	16MHz, i960SA, 32-Bit MPU, 512 Byte Cache	84-PLCC	21.15	16.72	13.60
N80960SA20	803859-ND	20MHz, i960SA, 32-Bit MPU, 5V	84-PLCC	22.74	17.98	14.63
N80960SA20SW227	803859TR-ND	20MHz, i960SA, 32-Bit MPU, 512 Byte Cache	84-PLCC		3519.75/250	
N80960SB10	803870-ND	10MHz, i960SB, 32-Bit MPU, 512 Byte Cache	84-PLCC	18.75	14.77	11.18
N80960SB16	803883-ND	16MHz, i960SB, 32-Bit MPU, 512 Byte Cache	84-PLCC	20.77	16.36	12.38
NG80960JA3V16819544	819544-ND	16MHz, i960JA, 32-Bit MPU, 2K Cache, 3.3V	132-QFP	23.45	18.47	13.98
NG80960JA3V25	819545-ND	25MHz, i960JA, 32-Bit MPU, 3.3V, 2K Cache	132-QFP	28.41	22.46	18.27
NG80960JA3V33	819546-ND	33MHz, i960JA, 32-Bit MPU, 3.3V, 2K Cache	132-QFP	35.47	28.04	22.81
NG80960JC33	820340-ND	33MHz, i960JC, 32-Bit MPU, 16MHz Bus, 16K Cache	132-PQFP	55.23	43.66	35.51
NG80960JC66	820343-ND	66MHz, i960JC, 32-Bit MPU, 33MHz Bus, 16K Cache	132-PQFP	67.79	53.52	46.39
NG80960JC50	820342-ND	50MHz, i960JC, 32-Bit MPU, 3.3V, 16K Cache	132-QFP	61.07	48.21	41.79
NG80960JD3V40	819550-ND	40MHz, i960JD, 32-Bit MPU, 3.3V, 4K Cache	132-QFP	48.66	38.42	33.30
NG80960JD3V50	819551-ND	50MHz, i960JD, 32-Bit MPU, 3.3V, 4K Cache	132-PGA	53.92	42.57	36.90
NG80960JD3V66	819553-ND	66MHz, i960JD, 32-Bit MPU, 3.3V, 4K Cache	132-QFP	59.76	47.18	40.89
NG80960JF3V25	819556-ND	25MHz, i960JF, 32-Bit MPU, 3.3V, 4K Cache	132-QFP	37.42	29.59	24.06
NG80960JF3V33	819557-ND	33MHz, i960JF, 32-Bit MPU, 3.3V, 4K Cache	132-QFP	44.75	35.38	28.77
NG80960JS25	820348-ND	25MHz, i960JS, 32-Bit MPU, 3.3V, 16K Cache	132-QFP	40.97	32.39	26.34
NG80960JS33	820349-ND	33MHz, i960JS, 32-Bit MPU, 3.3V, 16K Cache	132-QFP	49.08	38.80	31.55
NG80960JT100	818018-ND	100MHz, i960JT, 32-Bit MPU, 3.3V, 16K Cache	132-QFP	80.18	63.30	54.86
NG80960KA16	803445-ND	16MHz, i960KA, 32-Bit MPU, 512 Byte Cache	132-QFP	22.34	17.67	14.37
NG80960KA20	803464-ND	20MHz, i960KA, 32-Bit MPU, 512 Byte Cache	132-QFP	26.12	20.65	16.80
NG80960KB16	803504-ND	16MHz, i960KB, 32-Bit MPU, 512 Byte Cache	132-QFP	24.55	19.41	15.79
NG80960KB20	803523-ND	20MHz, i960KB, 32-Bit MPU, 512 Byte Cache	132-QFP	27.43	21.68	17.64
NG80960KB25	803540-ND	25MHz, i960KB, 32-Bit MPU, 512 Byte Cache	132-QFP	30.53	24.14	19.63
S80960SA16	803843-ND	16MHz, i960SA, 32-Bit MPU, 512 Byte Cache	80-MQFP	22.24	17.58	14.30
TA80960KA20	803470-ND	20MHz, i960KA, 32-Bit MPU, 512 Byte Cache, Extended Temp.	132-PGA	46.18	36.51	29.69
TA80960KB16	803510-ND	16MHz, i960KB, 32-Bit MPU, 512 Byte Cache, Extended Temp.	132-PGA	47.38	37.45	30.46
TA80960KB20	803529-ND	20MHz, i960KB, 32-Bit MPU, 512 Byte Cache, Extended Temp.	132-PGA	50.17	39.66	32.26
TA80960KB25	803546-ND	25MHz, i960KB, 32-Bit MPU, 512 Byte Cache, Extended Temp.	132-PGA	48.20	38.06	32.99
TG80960JA3V25	819558-ND	25MHz, i960JA, 32-Bit MPU, 3.3V, 2K Cache, Extended Temp.	132-QFP	30.85	24.39	19.84
TG80960JC66	826102-ND	66MHz, i960JC, 32-Bit MPU, 16K Cache	132-PQFP	71.14	56.16	48.68
TG80960JS25	824382-ND	25MHz, i960JS, 32-Bit MPU, 3.3V, 16K Cache, Extended Temp.	132-QFP	42.88	33.90	27.57
TG80960JS33	825153-ND	33MHz, i960JS, 32-Bit MPU, 3.3V, 16K Cache, Extended Temp.	132-QFP	51.51	40.72	33.12
TG80960JT100	824389-ND	100MHz, i960JT, 32-Bit MPU, 3.3V, 16K Cache, Extended Temp.	132-QFP	84.19	66.47	57.61
TG80960KA20	803479-ND	20MHz, i960KA, 32-Bit MPU, 512 Byte Cache, Extended Temp.	132-QFP	27.43	21.68	17.64
TG80960KB25	803553-ND	25MHz, i960KB, 32-Bit MPU, 512 Byte Cache, Extended Temp.	132-QFP	33.41	26.42	21.48
TN80960SA16	803846-ND	16MHz, i960SA, 32-Bit MPU, 512 Byte Cache, Extended Temp.	84-PLCC	24.95	19.73	16.04
TN80960SB16	803896-ND	16MHz, i960SB, 32-Bit MPU, 512 Byte Cache, Extended Temp.	84-PLCC	27.92	21.98	16.64

intel CONTROLLERS (PCI / LAN / WAN / CAN)

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	10	100
21143TD	821339-ND	PCI/CardBus 10/100 Ethernet LAN Controller	144-TQFP	18.80	14.80	11.20
AN82527F8	820732-ND	CAN Protocol Serial Communications Controller, Automotive	44-PLCC	7.64	6.02	4.55
AS82527F8	820722-ND	CAN Protocol Serial Communications Controller, Automotive	44-QFP	7.99	6.29	4.76
DA82562ET	829706-ND	Platform LAN Connect (PLC) Controller	48-SSOP	9.31	7.33	5.55
FW82439HXSU115	807787CT-ND	82439HX System Controller (MHXC)	324-BGA	26.00	21.58	17.55
FW82439TXSL28T	813149TR-ND	82439TX System Controller (MTXC)	324-BGA		4189.68/360	
FW82439TXSL28T	813149CT-ND	82439TX System Controller (MTXC)	324-BGA	20.56	16.19	12.25
GCIXF440AC	831001-ND	Multiport 10/100 Mbps Ethernet Controller	352-BGA	60.61	47.85	41.47
GD82550EYSL4MJ	830751-ND	Fast Ethernet Multifunction PCI/Cardbus Controller	196-BGA	33.43	26.43	21.50
GD82559ERSL3DG	825111-ND	Fast Ethernet Multifunction PCI/Cardbus Controller	196-BGA	18.31	14.42	10.91
GD82559SL3HD	822772-ND	Fast Ethernet Multifunction PCI/Cardbus Controller	196-BGA	36.44	28.81	23.43
KU82596CA25SZ716	806726-ND	25MHz, 5V, LAN Coprocessor	132-QFP	33.60	26.56	21.60
KU82596CA33SZ717	806764-ND	33MHz, 5V, LAN Coprocessor	132-QFP	39.90	31.54	25.65
KU82596DX25SZ714	806807-ND	25MHz, 5V, LAN Coprocessor	132-QFP	39.90	31.54	25.65
KU82596DX33SZ715	806835-ND	33MHz, 5V, LAN Coprocessor	132-QFP	44.10	34.86	28.35
KU82596SX20SZ713	806867-ND	20MHz, 5V, LAN Coprocessor	132-QFP	32.55	25.73	20.93
SB82371SBSU093	805436-ND	PCI ISA IDE Xceierator (PIIX3)	208-QFP	18.80	14.80	11.20
SCD223110QCD	832550-ND	2-Ch. Serial WAN Controller	100-MQFP	21.00	16.60	13.50
SCD240210QCM	832517-ND	Intelligent Multiprotocol WAN Communications Controller	160-QFP	21.15	16.65	12.60
SCD243110QCD	832518-ND	Advanced 4-Channel Serial WAN Communications Controller	100-MQFP	37.80	29.88	24.30
SCD248110QCD	832519-ND	Programmable 4-Channel WAN Communications Controller	100-QFP	40.43	31.96	25.99
TN82527	817073-ND	CAN Protocol Serial Communications Controller	44-PLCC	10.15	8.12	5.36

intel ETHERNET CONTROLLERS

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	10	100
DA82562EM	829707-ND	10/100 Ethernet Platform LAN Connect Bus Controller	48-SSOP	18.73	14.75	11.16
FW82546GB	855352-ND	Dual Port Gigabit, Mac/Phy Ethernet Controller	364-BGA	111.06	97.60	85.83
GCIXF1002ED	832414-ND	Dual Port Gigabit Ethernet Media Access Controller	304-BGA	92.07	80.91	71.15
GD82541ER	858265-ND	Single Port Gigabit, Mac/Phy Ethernet Controller	196-BGA	31.37	24.80	20.17
GD82541PI	857520-ND	Single Port Gigabit, Mac/Phy Ethernet Controller	196-BGA	37.04	29.29	23.82
GD82547GI	855106-ND	Single Port, 1 Gigabit, Mac/Phy Ethernet Controller using CSA	196-BGA	53.56	42.29	36.65
GD82550ELSL4MK	830748-ND	Fast Ethernet PCI/CardBus Cont.	196-BGA	34.13	26.98	21.94
GD82550GMSL4ML	831172-ND	Ethernet PCI/CardBus Controller	196-BGA	33.43	26.43	21.50
GD82550GYSL4Y5	833858-ND	Fast Ethernet PCI/CardBus Cont.	196-BGA	33.43	26.43	21.50
GD82550PMSL4Y7	834051-ND	Ethernet PCI/CardBus Controller	196-BGA	33.43	26.43	21.50
GD82551ER	844687-ND	Ethernet PCI/CardBus Controller	196-BGA	12.36	9.74	7.37
GD82551QM	844662-ND	10/100 Fast Ethernet Controller with Advanced IP Protocol	196-BGA	21.90	17.32	14.09
GD82559CSL3DF	825112-ND	10/100 PCI Bus Mac/PHY Ethernet Controller	196-BGA	36.44	28.81	23.43
GD82559ERSL3TU	826238-ND	10/100 PCI Bus Mac/PHY Ethernet Controller	196-BGA	16.36	12.94	10.52
GD82562EZ	845000-ND	10/100 Integrated Ethernet Platform LAN Connect Device	196-LBGA	10.89	8.72	5.75
RC82545GM	855561-ND	Single Port Gigabit Mac/Phy Ethernet Controller with SerDes	364-TBGA	85.23	67.29	58.32
RC82562EP	832361-ND	10/100 Ethernet Platform LAN Connect Bus Controller	64-BGA	18.73	14.75	11.16
S82562EH	829047-ND	10/100 Ethernet Platform LAN Connect Bus Controller	64-QFP	11.75	9.25	7.00
S82595FX	806680-ND	ISA/PCMCIA High Integration Ethernet Controller	160-MQFP	29.40	23.24	18.90
SB82558BSL2P4	816075-ND	32-Bit Fast Ethernet PCI Bus Controller with Integrated PHY	208-SQFP	35.70	28.22	22.95
TL82543GCSL4AC	829160-ND	10/100/100 PCI Bus Mac Gigabit Ethernet Controller	352-BGA	94.41	82.97	72.96

intel ETHERNET TRANSCEIVERS / RECEIVERS

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	10	100
DJLXT360LE,A2	832029-ND	1-Port Long-Haul T1/E1 Serial Transceiver	44-LQFP	22.33	17.58	13.30
DJLXT361LE.A2	832034-ND	1-Port Long-Haul T1/E1 Parallel Transceiver	44-LQFP	22.33	17.58	13.30
DJLXT380LE.B4	832251-ND	3.3V, 8-Port Short-Haul E1 Transceiver	144-LQFP	43.89	34.70	28.22
DJLXT381LE.B4	832255-ND	3.3V, 8-Port Short-Haul E1 Transceiver	144-LQFP	35.70	28.22	22.95
DJLXT384LE.B1	835827-ND	3.3V, 8-Port, T1/E1/J1 Short-Haul Transceiver	144-LQFP	43.21	34.11	29.57
DJLXT386LEB2834195	834195-ND	Quad T1/E1/J1 Short-Haul Xcvr.	100-LQFP	39.69	31.38	25.52
DJLXT388LEB2834197	834197-ND	Dual T1/E1/J1 Short-Haul Xcvr.	100-LQFP	21.23	16.79	13.65
DJLXT901ALC.A4	831684-ND	5V, Univ. 10BASE-T/AUI Xcvr.	64-LQFP	12.18	9.75	6.43
DJLXT901LC.E2	831686-ND	5V, Univ. 10BASE-T/AUI Xcvr.	64-LQFP	11.11	8.89	5.86
DJLXT905LC.C2	831645-ND	3.3V/5V, Univ. 10BASE-T Xcvr.	32-LQFP	7.92	6.34	4.18
DJLXT905LE.C2	831646-ND	3.3V/5V, Univ. 10BASE-T Xcvr.	32-LQFP	10.62	8.50	5.60
DJLXT907ALC.A4	831647-ND	3.3V, Univ. 10BASE-T/AUI Xcvr.	64-LQFP	12.18	9.75	6.43
DJLXT908LC.A4	831651-ND	3.3V, Univ. 10BASE-T/AUI Xcvr.	64-LQFP	12.27	9.82	6.47
DJLXT908LE.A4	831652-ND	3.3V, Univ. 10BASE-T/AUI Xcvr.	64-LQFP	12.87	10.30	6.79
DJLXT971ALCA4834105	834105-ND	3.3V, Fast Ethernet Transceiver	64-LQFP	10.04	8.03	5.30
DJLXT971ALE.A4	835676-ND	3.3V, 10/100Mbps Ethernet Xcvr.	64-LQFP	12.60	10.08	6.65
DJLXT972ALCA4834109	834109-ND	3.3V, Fast Ethernet Transceiver	64-LQFP	7.98	6.38	4.21
FALXT970ATCB11	833825-ND	10/100Mbps Ethernet Transceiver	64-TQFP	13.65	10.75	8.14
FLLXT386BEB2834206	834206-ND	Quad T1/E1/J1 Short-Haul Xcvr.	160-BGA	39.69	31.38	25.52
FLLXT971ABCA4834103	834103-ND	3.3V, Fast Ethernet Transceiver	64-BGA	10.55	8.31	6.29
FLLXT971ABEA4834104	834104-ND	3.3V, Fast Ethernet Transceiver	64-BGA	12.15	9.57	7.24

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intel ETHERNET TRANSCEIVERS / RECEIVERS (Continued)

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	10	100
FWLXT9781BCA9831679	831679-ND	8-Port Fast Ethernet Xcvr. (RMII)	272-BGA	21.84	17.27	14.04
FWLXT9782BCA9831681	831681-ND	8-Port Fast Ethernet Xcvr. (SMII)	272-BGA	21.84	17.27	14.04
FWLXT9782BC.C4	834115-ND	8-Port Fast Ethernet Xcvr. (SMII)	272-BGA	33.60	26.56	21.60
FWLXT9784BCA3834928	834928-ND	8-Port Fast Ethernet Transceiver (SMII, RMII)	324-BGA	73.50	58.10	47.25
FWLXT9784BE.A3	833561-ND	3.3V, 8-Port 10/100Mbps Transceiver (RMII, SMII)	324-BGA	73.50	58.10	47.25
FWLXT9785BC.D0	853308-ND	2.5V, Low Power, 8-Port, Ethernet Transceiver	208-HQFP	22.94	18.06	13.67
FWLXT9785EBC.D0	853300-ND	2.5V, Low Power, 8-Port, Advanced IP Telephony, Ethernet Xcvr.	208-HQFP	23.58	18.65	15.17
HBLXT970AHCB11	831600-ND	10/100Mbps Ethernet Xcvr.	64-HQFP	16.31	12.84	9.72
HBLXT974BHC.A8	831627-ND	5V, 4-Port 10/100 Ethernet Xcvr.	160-HQFP	21.19	16.75	13.63
HBLXT975BHC.A8	831630-ND	5V, 4-Port 10/100 Ethernet Xcvr.	160-HQFP	21.19	16.75	13.63
HBLXT9761HCB2835066	835066-ND	6-Port Fast Ethernet Xcvr. (RMII)	208-HQFP	18.82	14.88	12.10
HBLXT9761HC.C4	837202-ND	6-Port Fast Ethernet Xcvr. (RMII)	208-HQFP	33.60	26.56	21.60
HBLXT9762HCB2835376	835376-ND	6-Port Fast Ethernet Xcvr. (SMII)	208-HQFP	18.82	14.88	12.10
HBLXT9763HCA9831634	831634-ND	6-Port Fast Ethernet Xcvr. (MII)	208-HQFP	18.82	14.88	12.10
HBLXT9785EHC.D0	853334-ND	2.5V, Low Power, Advanced IP Telephony, Ethernet Xcvr.	208-HQFP	23.58	18.65	15.17
HBLXT9785HC.D0	853353-ND	2.5V, Low Power, 8-Port, Ethernet Transceiver	208-HQFP	22.96	18.08	13.68
N82503	806119-ND	Dual Serial Ethernet Transceiver (802.3 10BASE-T/AUI)	44-PLCC	11.75	9.25	7.00
NLXT307PE.F4	832110-ND	5V, E1 Short-Haul Xcvr.	28-PLCC	13.59	10.87	7.17
NLXT317PE.A2	832059-ND	5V, Long-Haul DECT LIU Xcvr.	28-PLCC	22.05	17.43	14.18
NLXT332PE.G2	832128-ND	5V, Short-Haul 2-Ch. LIU T1/E1 Transceiver	44-PLCC	25.20	19.92	16.20
NLXT350PE.A2	832138-ND	1-Port Short-Haul T1/E1/J1 Serial Transceiver	28-PLCC	16.45	12.95	9.80
NLXT351PE.A2	832141-ND	1-Port Short-Haul T1/E1/J1 Parallel Transceiver	28-PLCC	16.45	12.95	9.80
NLXT360PE.A2	832100-ND	1-Port Long-Haul T1/E1 Serial Transceiver	28-PLCC	21.15	16.65	12.60
NLXT361PE.A2	832102-ND	1-Port Long-Haul T1/E1 Parallel Transceiver	28-PLCC	21.15	16.65	12.60
NLXT362PE.A3	832121-ND	1-Port Long-Haul T1 Serial Transceiver	28-PLCC	16.59	13.07	9.89
NLXT901APC.A4	831653-ND	5V, Universal 10BASE-T/AUI Transceiver	44-PLCC	10.67	8.54	5.63
NLXT905PC.C2	831661-ND	3.3V/5V, Universal 10BASE-T Transceiver	28-PLCC	6.93	5.55	3.66
NLXT905PE.C2	831662-ND	3.3V/5V, Universal 10BASE-T Transceiver	28-PLCC	10.07	8.06	5.31
NLXT907APC.A4	831664-ND	3.3V, Universal 10BASE-T/AUI Transceiver	44-PLCC	11.85	9.49	6.25
NLXT908PC.A4	831668-ND	3.3V, Universal 10BASE-T/AUI Transceiver	44-PLCC	11.94	9.55	6.30
NLXT908PE.A4	831669-ND	3.3V, Universal 10BASE-T/AUI Transceiver	44-PLCC	12.57	10.06	6.63
PDLXT305ANE.F4	832171-ND	5V, T1/E1 Short-Haul Xcvr.	28-Dip	16.45	12.95	9.80
PDLXT312ANE.A2	832288-ND	5V, Low Power, Dual T1 PCM Repeater/Transceiver	16-Dip	15.75	12.45	10.13
PDLXT315ANE.A2	832291-ND	5V, Low Power T1 PCM Repeater/Transceiver	16-Dip	16.45	12.95	9.80
S82503	806140-ND	Dual Serial Ethernet Transceiver (802.3, 10BASE-T/AUI)	44-MQFP	11.75	9.25	7.00
SLXT332AQE.A1	832209-ND	5V, Short-Haul 2-Channel LIU T1/E1 Transceiver	44-QFP	21.00	16.60	13.50
SLXT350QE.A2	832244-ND	1-Port Short-Haul T1/E1/J1 Serial Transceiver	44-QFP	17.63	13.88	10.50
SLXT351QE.A2	832246-ND	1-Port Short-Haul T1/E1/J1 Parallel Transceiver	44-QFP	18.80	14.80	11.20
SLXT360QE.A2	832197-ND	1-Port Long-Haul T1/E1 Serial Transceiver	44-QFP	22.33	17.58	13.30
SLXT361QE.A2	832199-ND	1-Port Long-Haul T1/E1 Parallel Transceiver	44-QFP	22.33	17.58	13.30
SLXT970AQC.B11	831643-ND	10/100Mbps Ethernet Transceiver	64-QFP	13.04	10.27	7.77
SLXT973QCA3V	856775-ND	2.5V, 10/100Mbps, Dual Port Ethernet Transceiver	100-MQFP	12.27	9.66	7.31

intel ETHERNET REPEATERS

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	10	100
HBLXT983QC.A8	831540-ND	5V, 4-Port 10/100Mbps Ethernet Repeater	208-HQFP	33.60	26.56	21.60
HBLXT9860HCB3831549	831549-ND	6-Port Dual Speed 10/100 Fast Ethernet Repeater	208-HQFP	28.98	22.91	18.63
HBLXT9863HCB3834131	834131-ND	6-Port Dual Speed 10/100 Fast Ethernet Repeater	208-HQFP	21.86	17.29	14.06
HBLXT9863AHC.B4	837734-ND	6-Port Dual Speed 10/100 Fast Ethernet Repeater	208-HQFP	18.00	14.23	11.57
HBLXT9880AHC.B4	837736-ND	8-Port Dual Speed 10/100 Fast Ethernet Repeater	208-HQFP	42.76	33.80	27.49
HBLXT9883HCB3834133	834133-ND	8-Port Dual Speed 10/100 Fast Ethernet Repeater	208-HQFP	27.32	21.60	17.57
HBLXT9883AHC.B4	837738-ND	8-Port Dual Speed 10/100 Fast Ethernet Repeater	208-HQFP	18.38	14.53	11.82
NLXT914PC.B3	831504-ND	5V, 4-Port 10Mbps Ethernet Repeater (IRB, SMI, AUI)	68-PLCC	15.96	12.57	9.51
NLXT914PC.C4	831509-ND	5V, 4-Port 10Mbps Ethernet Repeater (IRB, SMI, AUI)	68-PLCC	15.96	12.57	9.51
NLXT914PE.B3	831518-ND	5V, 4-Port 10Mbps Ethernet Repeater (IRB, SMI, AUI)	68-PLCC	18.66	14.69	11.12
SLXT914QC.B3	831521-ND	5V, 4-Port 10Mbps Ethernet Repeater (IRB, AUI)	100-QFP	14.36	11.31	8.56
SLXT914QC.C4	831524-ND	5V, 4-Port 10Mbps Ethernet Repeater (IRB, AUI)	100-QFP	14.36	11.31	8.56
SLXT915QC.B3	831529-ND	5V, 4-Port 10Mbps Ethernet Repeater (IRB, AUI)	64-QFP	12.29	9.68	7.33

intel ETHERNET PHYS

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	10	100
GDLXT9785MBC.D0	854705-ND	8-Port, 10/100 Octal Phy	196-PBGA	23.58	18.65	15.17

intel TELECOM BROADBAND

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	10	100
DJLXT6282LEA3831836	831836-ND	Octal E1 Digital Interface Xcvr.	144-LQFP	44.10	34.86	28.35
FLIXF6151BEA2834984	834984-ND	28 T1/E1 Mapper	352-BGA	79.14	74.38	71.40
IXF6401BEC7A1835148	835148-ND	Broadband Access Processor	352-BGA	274.65	258.13	247.80
SLXT6051QEA1831841	831841-ND	SDH/SONET Overhead Terminator	208-QFP	129.48	113.79	100.05

intel BRIDGE CONTROLLERS

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	10	100
GD31244SL786	856145-ND	4-Port PCI-X SATA Controller Bridge	256-LPBGA	35.91	28.39	23.09
BW31154SL7AB	857352-ND	64-Bit Transparent, PCI-X to PCI-X Bridge, 33MHz	421-BGA	47.50	37.50	32.50
NQ41210SL7JE	860909-ND	Serial to Parallel, 64-Bit Transparent, PCI Express to PCI X Bridge, 133MHz	567-FCBGA	69.50	54.87	47.56

intel PCI-to-PCI BRIDGES

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	10	100
21050AB	821286-ND	PCI-to-PCI Bridge	208-QFP	30.35	23.99	19.51
S21152BB	837092-ND	32-Bit, 33MHz Transparent PCI-to-PCI Bridge	160-QFP	18.99	14.95	11.32
FW21555ABSL6G8	848191-ND	64-Bit, 33MHz, PCI-to-PCI Bridge	304-BGA	49.65	39.20	33.97
FW21154AE	834404-ND	64-Bit, 33MHz Transparent PCI-to-PCI Bridge	304-BGA	47.80	37.79	30.73
FW21154BE	834405-ND	64-Bit, 66MHz Transparent PCI-to-PCI Bridge	304-BGA	46.40	36.63	31.75
FW21555BB	848192-ND	64-Bit, 66MHz Non-Transparent PCI-to-PCI Bridge	304-PBGA	63.18	49.88	43.23
GD21150BC	828154-ND	32-Bit, 66MHz Transparent PCI-to-PCI Bridge	256-LPBGA	42.82	33.85	27.53
SB21150AC	823168-ND	32-Bit, 33MHz Transparent PCI-to-PCI Bridge	208-QFP	39.06	30.88	25.11
SB21150BC	822894-ND	32-Bit, 66MHz Transparent PCI-to-PCI Bridge	208-QFP	42.82	33.85	27.53

intel INTERFACE ADAPTERS/CARDS

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	10	100
A8238910	808498-ND	Multibus II Bus Interface Cont.	149-CPGA	132.00	116.00	102.00
DZPD6729VCE	832535-ND	PCI-to-PC Card Controller	208-LQFP	23.73	18.76	15.26
SPD6729QCE	832534-ND	PCI-to-PC Card Controller	208-MQFP	19.82	15.67	12.75
SPD6729QCC	832533-ND	PCI-to-PCMCIA Host Adapter	208-QFP	22.33	17.58	13.30
CNLA6000PK5	830447-ND	PRO/100 VE Desktop Adapter		178.95	168.19	161.46
MBLA3400C3	829954-ND	PRO/100 SR Mobile Adapter		91.77	86.25	82.80
MBLA3456C3	829957-ND	PRO/100 SR Combo Mobile Adapter		198.17	186.25	178.80
PILA8460C3	832696-ND	PRO/100 S Desktop Adapter		74.25	65.25	57.38
PILA8470C3	832702-ND	PRO/100 S Server Adapter		87.45	76.85	67.58

intel FLASH MEMORY

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	10	100
E28F008S5120	808704-ND	8Mb, 5V, FLASH Memory (1Mx8)	40-TSOP	16.45	12.95	9.80
TB28F008SA100	816471-ND	8Mb, 5V, FLASH Memory (1Mx8)	44-PSOP	16.45	12.95	9.80
TE28F008SA100	811350-ND	8Mb, 5V, FLASH Memory (1Mx8)	40-TSOP	16.45	12.95	9.80
TE28F800C3BD70	868489-ND	8Mb, 3V, FLASH Memory (1Mx8) ***NEW!***	48-TSOP	4.96	3.97	2.48
JS28F800C3BD70	868492-ND	8Mb, 3V, FLASH Memory (1Mx8) ***NEW!***	48-TSOP	4.96	3.97	2.48
RC28F800C3BD70	867943-ND	8Mb, 3V, FLASH Memory (1Mx8) ***NEW!***	64-BGA	4.96	3.97	2.48
PC28F800C3BD70	868493-ND	8Mb, 3V, FLASH Memory (1Mx8) ***NEW!***	64-BGA	4.96	3.97	2.48
GT28F160B3BA90SB93	823475-ND	16Mb, 3V, FLASH Memory (1Mx16)	46-MBGA	4.89	3.85	2.92
GT28F160C3BA110	819287-ND	16Mb, 3V, FLASH Memory (1Mx16)	46-MBGA	5.43	4.28	3.24
GT28F160C3BA90SB93	823477-ND	16Mb, 3V, FLASH Memory (1Mx16)	46-MBGA	9.35	7.37	5.58
GT28F160C3TA110	819293-ND	16Mb, 3V, FLASH Memory (1Mx16)	46-MBGA	5.43	4.28	3.24
GT28F160C3TA90SB93	823478-ND	16Mb, 3V, FLASH Memory (1Mx16)	46-MBGA	9.35	7.37	5.58
GE28F160C3TD70	853978-ND	16Mb, 3V, FLASH Memory (1Mx16)	46-BGA	5.72	4.58	2.92
RC28F160C3BA110	830116-ND	16Mb, 3V, FLASH Memory (1Mx16)	64-BGA	4.49	3.54	2.68
RC28F160C3BD70	853981-ND	16Mb, 3V, FLASH Memory (1Mx16)	64-BGA	4.98	3.99	2.63
RC28F160C3TA90SB93	827673-ND	16Mb, 3V, FLASH Memory (1Mx16)	64-BGA	4.65	3.67	2.78
RC28F160C3TC70	843612-ND	16Mb, 3V, FLASH Memory (1Mx16)	64-BGA	4.98	3.99	2.63
RC28F160C3TD70	853933-ND	16Mb, 3V, FLASH Memory (1Mx16)	64-BGA	4.98	3.99	2.63
RD28F1604C3BD70SB93	855156-ND	16Mb, 3V, Stacked FLASH Memory with 4Mb SRAM	66-EBGA	11.08	8.87	5.85
RD28F1604C3TD70SB93	855158-ND	16Mb, 3V, Stacked FLASH Memory with 4Mb SRAM	66-EBGA	11.08	8.87	5.85
TE28F160B3BA90SB93	823471-ND	16Mb, 3V, FLASH Memory (1Mx16)	48-TSOP	6.11	4.81	3.64

(Continued)

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intel FLASH MEMORY (Continued)

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	10	100
TE28F160B3BD70	853987-ND	16Mb, 3V, FLASH Memory (1Mx16)	48-TSOP	7.24	5.80	3.62
TE28F160B3TD70	853991-ND	16Mb, 3V, FLASH Memory (1Mx16)	48-TSOP	7.24	5.80	3.62
TE28F160C3BD70	853988-ND	16Mb, 3V, FLASH Memory (1Mx16)	48-TSOP	4.98	3.99	2.63
TE28F160C3BD90	853990-ND	16Mb, 3V, FLASH Memory (1Mx16)	48-TSOP	7.24	5.80	3.62
TE28F160C3TD70	853932-ND	16Mb, 3V, FLASH Memory (1Mx16)	48-TSOP	4.98	3.99	2.63
GE28F320B3BC70	831096-ND	32Mb, 3V, FLASH Memory (2Mx16)	47-BGA	7.71	6.10	4.96
GE28F320B3BC70SB93	831112-ND	32Mb, 3V, FLASH Memory (2Mx16)	47-BGA	7.71	6.10	4.96
GE28F320C3BC70SB93	831113-ND	32Mb, 3V, FLASH Memory (2Mx16)	64-BGA	7.71	6.10	4.96
GE28F320C3BC90	830946-ND	32Mb, 3V, FLASH Memory (2Mx16)	47-BGA	7.71	6.10	4.96
GE28F320C3TC70SB93	831095-ND	32Mb, 3V, FLASH Memory (2Mx16)	47-BGA	7.71	6.10	4.96
GE28F320C3TC90	830950-ND	32Mb, 3V, FLASH Memory (2Mx16)	47-BGA	9.45	7.47	6.08
GT28F320B3BA100	823191-ND	32Mb, 3V, FLASH Memory (2Mx16)	47-MBGA	7.88	6.23	5.07
GT28F320B3BA100SB93	823193-ND	32Mb, 3V, FLASH Memory (2Mx16)	47-MBGA	22.72	17.89	13.54
GT28F320B3TA100	823197-ND	32Mb, 3V, FLASH Memory (2Mx16)	47-MBGA	7.88	6.23	5.07
GT28F320B3TA100SB93	823211-ND	32Mb, 3V, FLASH Memory (2Mx16)	47-MBGA	18.27	14.45	11.75
GT28F320B3TA110	820972-ND	32Mb, 3V, FLASH Memory (2Mx16)	47-MBGA	7.88	6.23	5.07
GT28F320C3BA100	823205-ND	32Mb, 3V, FLASH Memory (2Mx16)	47-MBGA	7.88	6.23	5.07
GT28F320C3BA100SB93	823207-ND	32Mb, 3V, FLASH Memory (2Mx16)	47-MBGA	7.88	6.23	5.07
GT28F320C3BA110	820975-ND	32Mb, 3V, FLASH Memory (2Mx16)	47-MBGA	16.36	12.94	10.52
GT28F320C3TA100SB93	823213-ND	32Mb, 3V, FLASH Memory (2Mx16)	47-MBGA	7.88	6.23	5.07
GT28F320C3TA110	820978-ND	32Mb, 3V, FLASH Memory (2Mx16)	47-MBGA	7.88	6.23	5.07
RC28F320C3BA100	828107-ND	32Mb, 3V, FLASH Memory (2Mx16)	64-BGA	8.09	6.40	5.20
RC28F320C3BA100SB93	828102-ND	32Mb, 3V, FLASH Memory (2Mx16)	64-BGA	8.09	6.40	5.20
RC28F320C3BA110	828110-ND	32Mb, 3V, FLASH Memory (2Mx16)	64-BGA	8.09	6.40	5.20
RC28F320C3BD70	851192-ND	32Mb, 3V, FLASH Memory (2Mx16)	64-BGA	7.64	6.02	4.55
RC28F320C3TA110	828112-ND	32Mb, 3V, FLASH Memory (2Mx16)	64-BGA	8.09	6.40	5.20
RC28F320C3TD70	851145-ND	32Mb, 3V, FLASH Memory (2Mx16)	64-BGA	7.64	6.02	4.55
RC28F320J3A110SL5FU	835071-ND	32Mb, 3V, FLASH Memory (4Mx8, 2Mx16)	64-BGA	7.64	6.02	4.55
RC28F320J3C110SL7H7	860791-ND	32Mb, 3V, FLASH Memory (4Mx8, 2Mx16)	64-EBGA	8.94	7.15	4.72
RD38F1020C0ZBL0SB93	849856-ND	32Mb, 3V, Stacked FLASH Memory with 8Mb SRAM	66-EBGA	14.83	11.68	8.84
RD38F1020C0ZTL0SB93	849853-ND	32Mb, 3V, Stacked FLASH Memory with 8Mb SRAM	66-EBGA	14.83	11.68	8.84
RD38F1020W0YBQ0SB93	858994-ND	32Mb, 3V, Stacked FLASH Memory with 8Mb SRAM	66-EBGA	19.62	15.45	11.69
RD38F1020W0YTQ0SB93	858995-ND	32Mb, 3V, Stacked FLASH Memory with 8Mb SRAM	66-EBGA	19.62	15.45	11.69
TE28F320C3BA100	823220-ND	32Mb, 3V, FLASH Memory (2Mx16)	48-TSOP	8.82	6.98	5.67
TE28F320C3BA110	820967-ND	32Mb, 3V, FLASH Memory (2Mx16)	48-TSOP	8.82	6.98	5.67
TE28F320C3BD70	855810-ND	32Mb, 3V, FLASH Memory (2Mx16)	48-TSOP	8.94	7.15	4.72
TE28F320C3TD70	855788-ND	32Mb, 3V, FLASH Memory (2Mx16)	48-TSOP	8.94	7.15	4.72
TE28F320J3C110SL7H8	860792-ND	32Mb, 3V, FLASH Memory (2Mx16)	56-TSOP	8.94	7.15	4.72
DA28F320J5120SB93	821279-ND	32Mb, 5V, FLASH Memory (4Mx8, 2Mx16)	56-SSOP	15.81	12.50	10.17
DA28F320J5120SL39R	821278-ND	32Mb, 5V, FLASH Memory (4Mx8, 2Mx16)	56-SSOP	17.51	13.85	11.26
E28F320J5120SL2XB	818759-ND	32Mb, 5V, FLASH Memory (4Mx8, 2Mx16)	56-TSOP	19.26	15.23	12.38
E28F640J3A120SL4AX	829867-ND	64Mb, 3V, FLASH Memory (8Mx8, 4Mx16)	56-TSOP	24.36	19.26	15.66
RC28F640J3C115SL7H9	860793-ND	64Mb, 3V, FLASH Memory (8Mx8, 4Mx16)	64-EBGA	11.75	9.25	7.00
RC28F640K3C110	853458-ND	64Mb, 3V, FLASH Memory (8Mx8, 4Mx16)	64-BGA	10.50	8.30	6.75
RD38F2020W0YBQ0SB93	854798-ND	64Mb, 3V, Stacked FLASH Memory with 8Mb SRAM	88-EBGA	19.19	15.18	12.34
RD38F2020W0YTQ0SB93	854813-ND	64Mb, 3V, Stacked FLASH Memory with 8Mb SRAM	88-EBGA	19.19	15.18	12.34
TE28F640J3C115SL7HA	860794-ND	64Mb, 3V, FLASH Memory (8Mx8, 4Mx16)	56-TSOP	11.75	9.25	7.00
RC28F128J3C150SL756	854762-ND	128Mb, 3V, FLASH Memory (16Mx8, 8Mx16)	64-EBGA	19.87	15.71	12.78
RC28F128K3C115	848521-ND	128Mb, 3V, FLASH Memory (16Mx8, 8Mx16)	64-BGA	19.87	15.71	12.78
RD38F3350WWZD01SB93	861440-ND	128Mb, 3V, Stacked FLASH Memory with 64Mb PSRAM	88-EBGA	56.39	44.52	38.59
TE28F128J3C150SL758	854767-ND	128Mb, 3V, FLASH Memory (16Mx8, 8Mx16)	56-TSOP	19.87	15.71	12.78
TE28F128J3C150SL759	854768-ND	128Mb, 3V, FLASH Memory (16Mx8, 8Mx16)	56-TSOP	19.87	15.71	12.78
RC28F256J3C125SL7HE	860798-ND	256Mb, 3V, FLASH Memory (32Mx8, 16Mx16)	64-EBGA	35.76	28.27	23.00
RC28F256K3C120	853157-ND	256Mb, 3V, FLASH Memory (32Mx8, 16Mx16)	64-BGA	32.36	25.55	22.14
TE28F256J3C125SL7HD	860797-ND	256Mb, 3V, FLASH Memory (32Mx8, 16Mx16)	56-TSOP	35.76	28.27	23.00

intel DIRECT DIGITAL SYNTHESIS PRODUCT

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	10	100
1375A80CE	828902-ND	Mini 25MHz Digital Freq. Synthesizer	35-DIL	641.25	630.99	615.60

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intel PERIPHERAL INTERFACE PRODUCTS

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N87C42	804115-ND	8-Bit, Universal Peripheral Interface Slave Microcontroller	44-PLCC	16.45	12.95	9.80
P87C42	804121-ND	8-Bit, Universal Peripheral Interface Slave Microcontroller	40-Dip	16.45	12.95	9.80
SCD128310QCE	832512-ND	IEEE 1284 Compatible Parallel Interface Controller	100-MQFP	19.98	15.73	11.90

intel MODEM CHIPSETS, CONTROLLERS, DSPs, AFEs

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	10	100
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MD5661AMV101	830883-ND	PCMCIA Modem Chipset (MD4451CVCB, MD5661DTLA, MD1724T11VCB)		14.70	11.62	9.45
MD5662AMS101	830884-ND	ISA/Serial Modem Chipset (MD4450CSCB, MD5660DTMA, (MD1724T11VCB, 2pcs)		21.63	17.10	13.91
MD5675TS101	830885-ND	USB MODEM CHIPSET(MD4470CSCB, MD5660DTMA, MD1724T11VCB)		18.90	14.94	12.15
DQMD4451CVCB	830839-ND	5V, 4451CV Controller	128-LQFP	7.05	5.55	4.20
FYMD4450CSCB	830837-ND	5V, 4450CS Controller	128-SQFP	7.05	5.55	4.20
FYMD4450CVCB	830890-ND	5V, 4450CV Controller	128-SQFP	16.59	13.07	9.89
FYMD4470CSCB	830849-ND	5V, 4470CS Controller	128-SQFP	16.17	12.73	9.64
DJMD5628DLB	830836-ND	3.3V, 5628 Digital Signal Proc.	100-LQFP	8.23	6.48	4.90
DQMD5661DTLA	830848-ND	3.3V, 5661 Digital Signal Proc.	128-LQFP	7.05	5.55	4.20
FYMD5660DTMA	830842-ND	3.3V, 5660 Digital Signal Proc.	128-SQFP	7.05	5.55	4.20
FYMD8820	830850-ND	3.3V, 8820 Digital Signal Proc.	128-SQFP	47.77	37.71	32.69
DYMD1724T11VCB	830851-ND	5V, Sigma-Delta Analog Front End	44-LQFP	4.00	3.20	1.90

intel XSCALE™ STORAGE PROCESSORS

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	10	100
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FW80219M600SL7CM	858207-ND	32-Bit, GP, High Perf. PCI Processor with Xscale™ Microarchitecture with 64-Bit PCI-X Interface, 600MHz	544-BGA	69.52	54.89	47.57
FW80321M600SL6R3	850667-ND	32-Bit, High Perf. PCI Processor with Xscale™ Microarchitecture with 64-Bit PCI-X Interface, 600MHz	544-BGA	129.20	113.54	99.84

intel XSCALE™ NETWORK PROCESSORS

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	10	100
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FWIXP420BC	860131-ND	400MHz Network Processor with Xscale™ Core	492-BGA	39.86	31.51	25.63
FWIXP420BD	860130-ND	533MHz Network Processor with Xscale™ Core	492-BGA	46.15	36.44	31.58
FWIXP421BB	852277-ND	266MHz Network Processor with Xscale™ Core, 2 HSS Serial Ports	492-BGA	31.82	25.15	20.46
FWIXP422BB	852276-ND	266MHz Network Processor with Xscale™ Core, Crypto Processor Support	492-BGA	30.77	24.32	19.78
FWIXP425BB	852264-ND	266MHz, 2 HSS Ports, Crypto Processor Support, 2 Integrated 10/100 Ethernet MAC, Utopia 2 Interface	492-BGA	38.12	30.13	24.51
FWIXP425BC	852266-ND	400MHz, 2 HSS Ports, Crypto Processor Support, 2 Integrated 10/100 Ethernet MAC, Utopia 2 Interface	492-BGA	51.74	40.85	35.40
FWIXP425BD	852279-ND	533MHz, 2 HSS Ports, Crypto Processor Support, 2 Integrated 10/100 Ethernet MAC, Utopia 2 Interface	492-BGA	66.22	52.28	45.31

intel XSCALE™ HANDHELD APPLICATION PROCESSORS

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	10	100
GDPXA255A0C200	852064-ND	200MHz, PXA255 Processor with Xscale™ Technology	25-BGA	28.79	22.76	18.51
GDPXA255A0E200	852055-ND	200MHz, PXA255 Processor with Xscale™ Technology, Ext. Temp.	25-BGA	31.67	25.04	20.36
GDPXA255A0C300	852054-ND	300MHz, PXA255 Processor with Xscale™ Technology	25-BGA	35.83	28.32	23.04
GDPXA255A0C400	852053-ND	400MHz, PXA255 Processor with Xscale™ Technology	256-PBGA	45.32	35.78	31.01
GDPXA255A0E300	852056-ND	300MHz, PXA255 Processor with Xscale™ Technology, Ext. Temp.	25-BGA	39.40	31.15	25.33
GDPXA255A0E400	852106-ND	400MHz, PXA255 Processor with Xscale™ Technology, Ext. Temp.	25-BGA	49.84	39.35	34.10

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Infineon Tech. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	25	100
Power Management						
BSP76-E6327	BSP76-E6327INCT-ND	Smart Lowside Power Switch	SOT-223	1.73	1.50	1.16
BSP76-E6327	BSP76-E6327INTR-ND	Smart Lowside Power Switch	SOT-223		691.00/1,000	
BSP742T	BSP742TINCT-ND	Smart Power Highside Switch	P-DSO-8	1.58	1.37	1.05
BSP742T	BSP742TINTR-ND	Smart Power Highside Switch	P-DSO-8		1470.00/2,500	
BSP752R	BSP752RINCT-ND	Smart Power Highside Switch **NEW!**	8-SOIC	2.18	1.89	1.45
BSP752R	BSP752RINTR-ND	Smart Power Highside Switch **NEW!**	8-SOIC		2030.00/2,500	
BTS282Z-E3180A	BTS282ZE3180AINCT-ND	Enhancement Mode N-Channel Speed TEMPFET®	P-TO220-7-3	3.68	3.21	2.39
BTS282Z-E3180A	BTS282ZE3180AINTR-ND	Enhancement Mode N-Channel Speed TEMPFET®	P-TO220-7-3		1906.66/1,000	
BTS117	BTS117IN-ND	Smart Lowside Power Switch	P-TO-220-3-1	2.53	1.52	1.33
BTS133	BTS133IN-ND	Smart Lowside Power Switch	P-TO-220-3-1	3.29	2.03	1.79
BTS141	BTS141IN-ND	Smart Lowside Power Switch	P-TO-220-3-1	4.45	2.87	2.55
BTS409L1	BTS409L1IN-ND	Smart Highside Power Switch	TO-220AB/5	1.72	1.56	1.42
BTS410F2-E3062A	BTS410F2E3062INCT-ND	Smart Highside Power Switch	D2-PAK	3.28	2.86	2.13
BTS410F2-E3062A	BTS410F2E3062INTR-ND	Smart Highside Power Switch	D2-PAK		1700.86/2,500	
BTS428L2	BTS428L2INCT-ND	1-Ch., 60m Ohm, Smart Highside Power Switch	TO-252-5-1	2.27	1.98	1.48
BTS428L2	BTS428L2INTR-ND	1-Ch., 60m Ohm, Smart Highside Power Switch	TO-252-5-1		2890.59/2,500	
BTS432E2	BTS432E2IN-ND	Smart Highside Power Switch	TO-220AB/5	5.28	4.60	3.43
BTS442E2	BTS442E2IN-ND	Smart Highside Power Switch	TO-220AB/5	6.07	5.55	4.38
BTS443P	BTS443PINCT-ND	Smart Highside Power Switch	TO-252-5-1	3.07	2.68	1.99
BTS443P	BTS443PINTR-ND	Smart Highside Power Switch	TO-252-5-1		3836.70/2,500	
BTS611L1	BTS611L1IN-ND	2-Ch. Smart Highside Power Switch	TO-220AB/7	3.07	1.90	1.67
BTS621L1	BTS621L1IN-ND	2-Ch. Smart Highside Power Switch	TO-220AB/7	4.03	2.51	2.27
BTS640S2-G	BTS640S2-GINCT-ND	Smart Sense Highside Power Switch	TO-263-7	3.57	3.11	2.32
BTS640S2-G	BTS640S2-GINTR-ND	Smart Sense Highside Power Switch	TO-263-7		1851.08/1,000	
BTS650P	BTS650PIN-ND	Smart Highside High Current Power Switch	TO-220AB/7	5.50	5.08	3.98
BTS660P	BTS660PIN-ND	Smart Highside High Current Power Switch	TO-220-7-3	6.05	5.53	4.37
BTS711L1	BTS711L1INCT-ND	4-Ch. Smart Highside Power Switch	P-DSO-20-9	4.39	3.82	2.85
BTS711L1	BTS711L1INTR-ND	4-Ch. Smart Highside Power Switch	P-DSO-20-9		2275.28/1,000	
BTS716G	BTS716GINCT-ND	4-Ch. Smart Highside Power Switch	P-DSO-20	3.81	3.32	2.47
BTS716G	BTS716GINTR-ND	4-Ch. Smart Highside Power Switch	P-DSO-20		2335.00/1,000	
TLE4267S	TLE4267SIN-ND	5V, Low-Drop Voltage Regulator	P-TO-220-7	3.37	2.07	1.80
TLE4270G	TLE4270GINCT-ND	5V, Low-Drop Fixed Volt. Reg.	P-TO263-5-1	3.16	2.90	2.59
TLE4270G	TLE4270GINTR-ND	5V, Low-Drop Fixed Volt. Reg.	P-TO263-5-1		1503.00/1,000	
TLE4271-2G	TLE4271-2GINCT-ND	5V, Low-Drop Fixed Volt. Reg.	P-TO263-7-1	3.40	3.12	2.78
TLE4271-2G	TLE4271-2GINTR-ND	5V, Low-Drop Fixed Volt. Reg.	P-TO263-7-1		1616.00/1,000	
TLE4274V50	TLE4274V50IN-ND	Low-Drop Voltage Regulator	P-TO220-3-1	2.11	1.21	1.05
Sensors						
KT210	KT210IN-ND	Silicon Temperature Sensor	TO-92 Mini	.77	.43	.34
KT230	KT230INCT-ND	Silicon Temperature Sensor	SOT-23	.54	.47	.36
KT230	KT230INTR-ND	Silicon Temperature Sensor	SOT-23		720.01/3,000	
KTY135	KTY135INCT-ND	Silicon Temperature Sensor	SOT-23	.79	.69	.53
KTY135	KTY135INTR-ND	Silicon Temperature Sensor	SOT-23		902.88/3,000	
KTY136	KTY136INCT-ND	Silicon Temperature Sensor	SOT-23	.76	.67	.51
KTY136	KTY136INTR-ND	Silicon Temperature Sensor	SOT-23		870.00/3,000	
KTY216	KTY216IN-ND	Silicon Temperature Sensor	TO-92 Mini	1.10	.96	.74
KTY236	KTY236INCT-ND	Silicon Temperature Sensor	SOT-23	1.07	.93	.72
KTY236	KTY236INTR-ND	Silicon Temperature Sensor	SOT-23		1218.00/3,000	
TLE4913	TLE4913INCT-ND	Low Power Hall Switch	SC-59-3-1	1.02	.94	.84
TLE4913	TLE4913INTR-ND	Low Power Hall Switch	SC-59-3-1		1455.00/3,000	
TLE4935G	TLE4935GINCT-ND	Hall IC Switch for Magnetic Field Applications	SOT-89	1.09	1.00	.89
TLE4935G	TLE4935GINTR-ND	Hall IC Switch for Magnetic Field Applications	SOT-89		544.00/1,000	
TLE4945-2L	TLE4945-2LINTB-ND	Bipolar Hall IC Switch for Magnetic Field Applications	P-SSO-3-2		1120.27/2,000	
TLE4945-2L	TLE4945-2LINCT-ND	Bipolar Hall IC Switch for Magnetic Field Applications	P-SSO-3-2	1.16	1.07	.95
Specialized Integrated Circuits						
ICE2A165	ICE2A165IN-ND	Off-Line SMPS Current Mode Cont.	P-Dip-8-6	1.78	1.02	.88
ICE2A180Z	ICE2A180ZIN-ND	Off-Line SMPS Current Mode Cont.	P-Dip-7-1	2.09	1.20	1.07
ICE2A265	ICE2A265IN-ND	Off-Line SMPS Current Mode Cont.	P-Dip-8-6	2.17	1.29	1.14
ICE2A280Z	ICE2A280ZIN-ND	Off-Line SMPS Current Mode Cont.	P-Dip-7-1	2.93	1.80	1.57
ICE2A365	ICE2A365IN-ND	Off-Line SMPS Current Mode Cont.	P-Dip-8-6	2.78	1.71	1.53
ICE2A765P	ICE2A765PIN-ND	Off-Line SMPS Current Mode Controller	P-TO-220-6-3	4.53	2.84	2.60
ICE2A0565	ICE2A0565IN-ND	Off-Line SMPS Current Mode Cont.	P-Dip-8-6	1.64	.89	.78
ICE2B265	ICE2B265IN-ND	Off-Line SMPS Current Mode Cont.	P-Dip-8-6	2.17	1.29	1.14
ICE2B765P	ICE2B765PIN-ND	Off-Line SMPS Current Mode Controller	P-TO-220-6-3	4.70	2.92	2.64
PEB2045N-VA3TR	PEB2045N-VA3INTR-ND	Memory Time Switch CMOS (MTSC)	P-LCC-44		8425.00/500	
PEB2075N-V13TR	PEB2075N-V13INCT-ND	ISDN D-Channel Exchange Controller (IDEC®)	P-LCC-44	24.42	21.80	15.26
PEB2075N-V13TR	PEB2075N-V13INTR-ND	ISDN D-Channel Exchange Controller (IDEC®)	P-LCC-44		5815.02/500	
PEB2255H-V13	PEB2255H-V13IN-ND	E1/T1/J1 Framer and Line Interface Component for Long and Short Haul Applications FALC®-LH	P-MQFP-80-1	47.82	37.49	35.55
PEB2256H-V12	PEB2256H-V12IN-ND	E1/T1/J1 Framer and Line Interface Component for Long and Short Haul Applications FALC56	P-MQFP-80-1	32.86	25.28	24.02

Infineon Tech. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	25	100
PEB3265H-V13	PEB3265H-V13IN-ND	Dual Channel Subscriber Line Interface Codec Filter SLICOFI-2x	P-MQFP-64-1	9.47	9.08	7.21
PEB20256E-V21	PEB20256E-V21IN-ND	Multichannel Network Interface Controller for HDLC/PPP	P-BGA-388	230.82	191.17	177.01
PEB20320H-V34	PEB20320H-V34IN-ND	Multichannel Network Interface Controller for HDLC	P-MQFP-160-1	84.42	74.21	64.32
PEB20321H-V22	PEB20321H-V22IN-ND	Multichannel Network Interface Controller for HDLC with Extensions	P-MQFP-160-1	92.71	81.50	70.64
PEB20534H10-V21	PEB20534H10-V21IN-ND	DMA Supported Serial Communication Controller with 4 Channels	P-FQFP-208-7	82.80	72.80	63.09
PEB20534H52-V21	PEB20534H52-V21IN-ND	DMA Supported Serial Communication Controller with 4 Channels	P-FQFP-208-7	105.18	92.47	80.14
PEB22504HT-V11	PEB22504HT-V11IN-ND	Quad Line Interface Unit for E1/T1/J1 QuadLIU™	P-TQFP-100-3	39.13	29.87	28.84
PEF3452H-V13	PEF3452H-V13IN-ND	Line Interface Unit for DS3, STS1 and E3 TE3-LIU™	P-MQFP-44-2	44.63	34.06	32.30
PEF22810T-V21TR	PEF22810T-V21INCT-ND	Standard, Very High Bit-Rate, DSL Chipset, Line Driver	P-DSO-8	1.62	1.32	1.23
PEF22810T-V21TR	PEF22810T-V21INTR-ND	Standard, Very High Bit-Rate, DSL Chipset, Line Driver	P-DSO-8		3372.50/2,500	
PMB2201R-V12TR	PMB2201RV12TRINCT-ND	2.5GHz Mixer DC and 0.8-1.5GHz Vector Modulator	P-TSSOP-24	4.80	4.40	3.92
PMB2313T-V15TR	PMB2313TV15TRINCT-ND	1.1GHz Prescaler Circuit	P-DSO-8	2.55	2.34	2.09
PMB2313T-V15TR	PMB2313TV15TRINTR-ND	1.1GHz Prescaler Circuit	P-DSO-8		3680.00/2,500	
PMB2314T-V15TR	PMB2314TV15TRINCT-ND	2.1GHz Prescaler Circuit	P-DSO-8	3.00	2.75	2.45
PMB2314T-V15TR	PMB2314TV15TRINTR-ND	2.1GHz Prescaler Circuit	P-DSO-8		4325.00/2,500	
PSB2186N-V11TR	PSB2186N-V11INCT-ND	ISDN Subscriber Access Controller for Terminals (ISAC®-S TE)	P-LCC-44	15.79	14.10	9.87
PSB2186N-V11TR	PSB2186N-V11INTR-ND	ISDN Subscriber Access Controller for Terminals (ISAC®-S TE)	P-LCC-44		3761.00/500	
PXB4220E-V32	PXB4220E-V32IN-ND	Interworking Element for 8 E1/T1 Lines IWE8	P-BGA-256	110.78	105.61	84.40
PXB4220E-V33	PXB4220E-V33IN-ND	Interworking Element for 8 E1/T1 Lines IWE8	P-BGA-256	116.39	94.19	90.83
SAB82525H-V21	SAB82525H-V21IN-ND	2-Ch. High Level Serial Comm. Controller Extended (HSCX)	P-MQFP-44-2	18.20	17.34	13.67
SAB82525N-V21TR	SAB82525N-V21INCT-ND	2-Ch. High Level Serial Comm. Controller Extended (HSCX)	P-LCC-44-1	29.19	26.07	20.33
SAB82525N-V21TR	SAB82525N-V21INTR-ND	2-Ch. High Level Serial Comm. Controller Extended (HSCX)	P-LCC-44-1		8018.50/500	
SAB82526N-V21	SAB82526N-V21IN-ND	1-Ch. High Level Serial Comm. Controller Extended (HSCX)	P-LCC-44-1	13.41	11.80	10.23
SAB82532H10V32A	SAB82532H10V32AIN-ND	2-Ch. Enhanced Serial Comm. Controller ESCC2	P-MQFP-80-1	21.65	19.04	16.50
SAE800	SAE800IN-ND	Prog. Single/Dual/Triple Tone Gong	P-DIP-8-4	5.71	3.71	3.39
SAF82525N-V21	SAF82525N-V21IN-ND	2-Ch. High Level Serial Comm. Controller Extended	P-LCC-44-1	20.10	17.68	15.32
SAF82532N10V32A	SAF82532N10V32AIN-ND	2-Ch. Enhanced Serial Communication Controller ESCC2	P-LCC-68	22.75	20.01	17.34
TCA505BGGEG	TCA505BGGEGINCT-ND	IC for Inductive Proximity Switches with Short Circuit Protection	P-DSO-16-1	5.56	4.16	3.34
TCA505BGGEG	TCA505BGGEGINTR-ND	IC for Inductive Proximity Switches with Short Circuit Protection	P-DSO-16-1		6742.50/2,500	
TCA785	TCA785IN-ND	LSL Compatible Phase Control IC	P-DIP-16-1	6.78	4.51	4.04
TDA5100	TDA5100INCT-ND	868-870MHz ASK/FSK Transmitter	P-TSSOP-16	2.57	2.36	2.27
TDA5100	TDA5100INTR-ND	868-870MHz ASK/FSK Transmitter	P-TSSOP-16		3528.00/3,000	
TDA5101	TDA5101INCT-ND	311-317MHz ASK/FSK Transmitter	P-TSSOP-16	2.68	2.46	2.37
TDA5101	TDA5101INTR-ND	311-317MHz ASK/FSK Transmitter	P-TSSOP-16		3681.00/3,000	
TDA5103A	TDA5103AINCT-ND	344-347MHz ASK Transmitter	P-TSSOP-10	2.68	2.46	2.37
TDA5103A	TDA5103AINTR-ND	344-347MHz ASK Transmitter	P-TSSOP-10		11185.00/5,000	
TDA5200	TDA5200INCT-ND	868-870MHz and 433-435MHz Low Power ASK Receiver	P-TSSOP-28-1	3.87	3.55	3.42
TDA5200	TDA5200INTR-ND	868-870MHz and 433-435MHz Low Power ASK Receiver	P-TSSOP-28-1		9672.00/3,000	
TDA5201	TDA5201INCT-ND	310 and 345MHz Low Power ASK Single Receiver	P-TSSOP-28-1	3.87	3.55	3.42
TDA5201	TDA5201INTR-ND	310 and 345MHz Low Power ASK Single Receiver	P-TSSOP-28-1		9672.00/3,000	
TDA5210	TDA5210INCT-ND	810-870MHz and 400-440MHz FSK/ASK Superheterodyne Receiver	P-TSSOP-28-1	3.95	3.63	3.50
TDA5210	TDA5210INTR-ND	810-870MHz and 400-440MHz FSK/ASK Superheterodyne Receiver	P-TSSOP-28-1		9855.00/3,000	
TDA5211	TDA5211INCT-ND	310-350MHz FSK/ASK Superheterodyne Receiver	P-TSSOP-28-1	3.95	3.63	3.50
TDA5211	TDA5211INTR-ND	310-350MHz FSK/ASK Superheterodyne Receiver	P-TSSOP-28-1		9855.00/3,000	
TDA5212	TDA5212INCT-ND	910-920MHz Low Power FSK/ASK Superheterodyne Receiver	P-TSSOP-28-1	3.95	3.63	3.50
TDA5212	TDA5212INTR-ND	910-920MHz Low Power FSK/ASK Superheterodyne Receiver	P-TSSOP-28-1		9855.00/3,000	
TDA21201-B7	TDA21201-B7INCT-ND	Integrated Switch MOSFET Driver and MOSFET	TO-263-7-2	4.72	4.11	3.07
TDA21201-B7	TDA21201-B7INTR-ND	Integrated Switch MOSFET Driver and MOSFET	TO-263-7-2		2448.00/1,000	
TDA21201-P7	TDA21201-P7IN-ND	Integrated Switch MOSFET Driver and MOSFET	TO-220-7-3	4.72	3.07	2.80
TDA21201-S7	TDA21201-S7IN-ND	Integrated Switch MOSFET Driver and MOSFET	TO-220-7-230	4.72	3.07	2.80

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
INA122P	INA122P-ND	Single Supply, Micropower Instr. Amp	8-Dip	5.50	4.40	3.72
INA122PA	INA122PA-ND	Single Supply, Micropower Instr. Amp	8-Dip	4.73	3.78	2.94
INA122U	INA122U-ND	Single Supply, Micropower Instr. Amp	8-SOIC	5.50	4.40	3.72
INA122UA	INA122UA-ND	Single Supply, Micropower Instr. Amp	8-SOIC	4.73	3.78	2.94
INA125P	INA125P-ND	Instr. Amp with Precision Voltage Ref.	16-Dip	5.10	4.08	3.45
INA125PA	INA125PA-ND	Instr. Amp with Precision Voltage Ref.	16-Dip	4.61	3.69	2.87
INA125U	INA125U-ND	Instr. Amp with Precision Voltage Ref.	16-SOIC	5.10	4.08	3.45
INA125UA	INA125UA-ND	Instr. Amp with Precision Voltage Ref.	16-SOIC	4.61	3.69	2.87
INA126ECT	INA126ECT-ND	Micropower Instrumentation Amp	8-MSOP	3.38	2.70	2.10
INA126E/250	INA126ETR-ND	Micropower Instrumentation Amp	8-MSOP		498.75/250	
INA126EA/250	INA126EACT-ND	Micropower Instrumentation Amp	8-MSOP	2.41	1.93	1.50
INA126EA/250	INA126EATR-ND	Micropower Instrumentation Amp	8-MSOP		362.50/250	
INA126P	INA126P-ND	Micropower Instrumentation Amp	8-Dip	2.99	2.40	1.87
INA126PA	INA126PA-ND	Micropower Instrumentation Amp	8-Dip	2.25	1.80	1.40
INA126U	INA126U-ND	Micropower Instrumentation Amp	8-SOIC	2.99	2.40	1.87
INA126UA	INA126UA-ND	Micropower Instrumentation Amp	8-SOIC	2.25	1.80	1.40
INA128P	INA128P-ND	Precision Low Power Instr. Amp	8-Dip	9.40	7.52	6.35
INA128PA	INA128PA-ND	Precision Low Power Instr. Amp	8-Dip	5.80	4.64	3.92
INA128U	INA128U-ND	Precision Low Power Instr. Amp	8-SOIC	9.40	7.52	6.35
INA128UA	INA128UA-ND	Precision Low Power Instr. Amp	8-SOIC	5.80	4.64	3.92
INA129P	INA129P-ND	Precision Low Power Instr. Amp	8-Dip	9.40	7.52	6.35
INA129PA	INA129PA-ND	Precision Low Power Instr. Amp	8-Dip	5.80	4.64	3.92
INA129U	INA129U-ND	Precision Low Power Instr. Amp	8-SOIC	9.40	7.52	6.35
INA129UA	INA129UA-ND	Precision Low Power Instr. Amp	8-SOIC	5.80	4.64	3.92
INA131AP	INA131AP-ND	Precision, Gain=100, Instr. Amp	8-Dip	7.60	6.08	5.13
INA131BP	INA131BP-ND	Precision, Gain=100, Instr. Amp	8-Dip	9.50	8.55	7.59
INA132U	INA132U-ND	Low Power, Single-Supply Instr. Amp	8-SOIC	3.15	2.52	1.96
INA132UA	INA132UA-ND	Low Power, Single-Supply Instr. Amp	8-SOIC	2.36	1.89	1.47
INA133UA	INA133UA-ND	High Speed Precision Difference Amp	8-SOIC	2.36	1.89	1.47
INA133U	INA133U-ND	High Speed Precision Difference Amp	8-SOIC	3.15	2.52	1.96
INA134PA	INA134PA-ND	Audio Differential Line Receiver	8-Dip	2.36	1.89	1.47
INA134UA	INA134UA-ND	Audio Differential Line Receiver	8-SOIC	2.36	1.89	1.47
INA137PA	INA137PA-ND	Audio Differential Line Receiver	8-Dip	2.36	1.89	1.47
INA137UA	INA137UA-ND	Audio Differential Line Receiver	8-SOIC	2.36	1.89	1.47
INA138NA/250	INA138NACT-ND	Current Shunt Monitor	SOT-23-5	2.48	1.98	1.49
INA138NA/250	INA138NATR-ND	Current Shunt Monitor	SOT-23-5		346.50/250	
INA139NA/250	INA139NA/250CT-ND	2.7-40V Current Shunt Monitor	SOT-23-5	2.48	1.98	1.49
INA139NA/250	INA139NA/250TR-ND	2.7-40V Current Shunt Monitor	SOT-23-5		346.50/250	
INA139QPWRQ1	296-17088-1-ND	High-Side, Unipolar, Current Shunt Monitor	8-TSSOP	2.70	2.16	1.68
INA139QPWRQ1	296-17088-2-ND	High-Side, Unipolar, Current Shunt Monitor	8-TSSOP		3060.00/2,000	
INA141U	INA141U-ND	Precision Low Power, Gain=10,100 Instrumentation Amp	8-SOIC	9.03	8.13	7.21
INA141UA	INA141UA-ND	Precision Low Power, Gain=10,100 Instrumentation Amp	8-SOIC	6.74	5.40	4.55
INA143U	INA143U-ND	High Speed Diff. Gain=10 Instr. Amp	8-SOIC	3.15	2.52	1.96
INA143UA	INA143UA-ND	High Speed Diff. Gain=10 Instr. Amp	8-SOIC	2.36	1.89	1.47
INA145UA	INA145UA-ND	Programmable Difference Amp	8-SOIC	3.38	2.70	2.10
INA146UA	INA146UA-ND	High-Voltage Differential Amp	8-SOIC	3.83	3.06	2.38
INA148UA	INA148UA-ND	Common-Mode Instrumentation Amp	8-SOIC	4.73	3.78	2.94
INA152EA/2K5	INA152EA/2K5CT-ND	Low Power, Single Supply Diff. Amp	8-MSOP	2.70	2.16	1.68
INA152EA/2K5	INA152EA/2K5TR-ND	Low Power, Single Supply Diff. Amp	8-MSOP		3780.00/2,500	
INA154U	INA154U-ND	High-Speed Precision G=1 Diff. Amp	8-SOIC	3.15	2.52	1.96
INA154UA	INA154UA-ND	High-Speed Precision G=1 Diff. Amp	8-SOIC	2.36	1.89	1.47
INA155EA/250	INA155EACT-ND	R/R CMOS Instrumentation Amp	8-MSOP	2.48	1.98	2.48
INA155EA/250	INA155EATR-ND	R/R CMOS Instrumentation Amp	8-MSOP		365.75/250	
INA155E/250	INA155ECT-ND	R/R CMOS Instrumentation Amp	8-MSOP	3.38	2.70	3.38
INA155E/250	INA155ETR-ND	R/R CMOS Instrumentation Amp	8-MSOP		498.75/250	
INA155U	INA155U-ND	R/R CMOS Instrumentation Amp	8-SOIC	3.26	2.61	2.03
INA155UA	INA155UA-ND	R/R CMOS Instrumentation Amp	8-SOIC	2.48	1.98	1.54
INA156EA/250	INA156EACT-ND	CMOS Instrumentation Amp	8-MSOP	2.38	1.90	1.43
INA156EA/250	INA156EATR-ND	CMOS Instrumentation Amp	8-MSOP		332.50/250	
INA157U	INA157U-ND	HS Precision G=1/2 or G=2 Diff. Amp	8-SOIC	3.15	2.52	1.96
INA157UA	INA157UA-ND	HS Precision G=1/2 or G=2 Diff. Amp	8-SOIC	2.36	1.89	1.47
INA163UA	INA163UA-ND	Low-Noise, Low Distort. Instr. Amp	SO-14-50	5.00	4.00	3.38
INA163UA/2K5	INA163UATR-ND	Low-Noise, Low Distort. Instr. Amp	SO-14-50		7875.00/2,500	
INA166UA	INA166UA-ND	Low-Noise Instrumentation Amp	14-SOIC	9.91	8.93	7.92
INA166UA/2K5	INA166UATR-ND	Low-Noise Instrumentation Amp	14-SOIC		18072.50/2,500	
INA168NA/250	INA168NACT-ND	High-Side Current Shunt Monitor	SOT-23-5	2.81	2.25	1.75
INA168NA/250	INA168NATR-ND	High-Side Current Shunt Monitor	SOT-23-5		415.75/250	
INA168QPWRQ1	296-17201-1-ND	High-Side Current Shunt Monitor	8-TSSOP	3.26	2.61	2.03
INA168QPWRQ1	296-17201-2-ND	High-Side Current Shunt Monitor	8-TSSOP		3698.00/2,000	
INA169NA/250	INA169NA/250CT-ND	2.7-60V Current Shunt Monitor	SOT-23-5	2.81	2.25	1.75
INA169NA/250	INA169NA/250TR-ND	2.7-60V Current Shunt Monitor	SOT-23-5		415.75/250	
INA169QPWRQ1	296-17202-1-ND	2.7-60V Current Shunt Monitor	8-TSSOP	3.26	2.61	2.03
INA169QPWRQ1	296-17202-2-ND	2.7-60V Current Shunt Monitor	8-TSSOP		3698.00/2,000	
INA170EA/2K5	INA170EA/2K5CT-ND	Bi-Directional Current Shunt Monitor	8-MSOP	2.81	2.25	2.00
INA170EA/2K5	INA170EA/2K5TR-ND	Bi-Directional Current Shunt Monitor	8-MSOP		3937.50/2,500	
INA193AIDBVT	296-17163-1-ND	-16V to 36V Current Shunt Monitor	SOT-23-5	2.00	1.60	1.20
INA193AIDBVT	296-17163-2-ND	-16V to 36V Current Shunt Monitor	SOT-23-5		280.00/250	
INA194AIDBVT	296-17164-1-ND	-16V to 36V Current Shunt Monitor	SOT-23-5	2.00	1.60	1.20
INA194AIDBVT	296-17164-2-ND	-16V to 36V Current Shunt Monitor	SOT-23-5		280.00/250	
INA195AIDBVT	296-17165-1-ND	-16V to 36V Current Shunt Monitor	SOT-23-5	2.00	1.60	1.20
INA195AIDBVT	296-17165-2-ND	-16V to 36V Current Shunt Monitor	SOT-23-5		280.00/250	
INA196AIDBVT	296-17166-1-ND	-16V to 36V Current Shunt Monitor	SOT-23-5	2.00	1.60	1.20
INA196AIDBVT	296-17166-2-ND	-16V to 36V Current Shunt Monitor	SOT-23-5		280.00/250	
INA197AIDBVT	296-17167-1-ND	-16V to 36V Current Shunt Monitor	SOT-23-5	2.00	1.60	1.20
INA197AIDBVT	296-17167-2-ND	-16V to 36V Current Shunt Monitor	SOT-23-5		280.00/250	
INA198AIDBVT	296-17168-1-ND	-16V to 36V Current Shunt Monitor	SOT-23-5	2.00	1.60	1.20
INA198AIDBVT	296-17168-2-ND	-16V to 36V Current Shunt Monitor	SOT-23-5		280.00/250	
INA217AIDWT	296-13645-1-ND	LN, Low Distortion Instr. Amp	16-SOIC	5.63	4.50	3.50
INA217AIDWT	296-13645-2-ND	LN, Low Distortion Instr. Amp	16-SOIC		831.25/250	
INA217AIP	296-13452-5-ND	LN, Low Distortion Instr. Amp	8-Dip	5.00	4.00	3.38
INA321EA/250	INA321EACT-ND	Micropower CMOS R/R Instr. Amp	8-MSOP	2.48	1.98	1.54
INA321EA/250	INA321EATR-ND	Micropower CMOS R/R Instr. Amp	8-MSOP		365.75/250	
INA321E/250	INA321ECT-ND	Micropower CMOS R/R Instr. Amp	8-MSOP	3.38	2.70	2.10
INA321E/250	INA321ETR-ND	Micropower CMOS R/R Instr. Amp	8-MSOP		498.75/250	
INA321E/2K5	296-14586-1-ND	Micropower CMOS R/R Instr. Amp	8-MSOP	3.38	2.70	2.10
INA321E/2K5	296-14586-2-ND	Micropower CMOS R/R Instr. Amp	8-MSOP		4725.00/2,500	
INA322EA/250	INA322EACT-ND	Micropower CMOS R/R Instr. Amp	8-MSOP	2.23	1.78	1.34
INA322EA/250	INA322EATR-ND	Micropower CMOS R/R Instr. Amp	8-MSOP		332.50/250	
INA326EA/2K5	INA326EA/2K5CT-ND	Prec., R/R I/O Instr. Amp	8-MSOP	4.05	3.24	2.52
INA326EA/2K5	INA326EA/2K5TR-ND	Prec., R/R I/O Instr. Amp	8-MSOP		5670.00/2,500	
INA326EA/250	296-15312-1-ND	Prec., R/R I/O Instr. Amp	8-MSOP	4.05	3.24	2.52
INA326EA/250	296-15312-2-ND	Prec., R/R I/O Instr. Amp	8-MSOP		598.50/250	
INA327EA/2K5	INA327EA/2K5CT-ND	Prec., R/R I/O Instr. Amp with SD	10-MSOP	4.39	3.51	2.73
INA327EA/2K5	INA327EA/2K5TR-ND	Prec., R/R I/O Instr. Amp with SD	10-MSOP		6142.50/2,500	
INA327EA/250	296-15953-1-ND	Prec., R/R, I/O Instr. Amp with SD	10-MSOP	4.39	3.51	2.73
INA327EA/250	296-15953-2-ND	Prec., R/R, I/O Instr. Amp with SD	10-MSOP		648.50/250	
INA330AIDGST	296-13861-1-ND	Thermistor Signal Amp for Temp. Control	10-MSOP	3.49	2.79	2.17
INA330AIDGST	296-13861-2-ND	Thermistor Signal Amp for Temp. Control	10-MSOP		515.38/250	
INA331AIDGKT	296-12202-1-ND	Low Power, CMOS Instr. Amp	8-MSOP	2.48	1.98	1.54
INA331AIDGKT	296-12202-2-ND	Low Power, CMOS Instr. Amp	8-MSOP		365.75/250	
INA331IDGKT	296-12203-1-ND	Low Power, CMOS Instr. Amp	8-MSOP	3.38	2.70	2.10
INA331IDGKT	296-12203-2-ND	Low Power, CMOS Instr. Amp	8-MSOP		498.75/250	
INA332AIDGKT	296-12204-1-ND	Low Power, CMOS Instr. Amp	8-MSOP	2.13	1.70	1.28
INA332AIDGKT	296-12204-2-ND	Low Power, CMOS Instr. Amp	8-MSOP		297.50/250	
INA337AIDGKT	296-13453-1-ND	Wide Temperature, Precision Instrumentation Amplifier	8-MSOP	4.05	3.24	2.52
INA337AIDGKT	296-13453-2-ND	Wide Temperature, Precision Instrumentation Amplifier	8-MSOP		598.50/250	
INA338AIDGST	296-13454-1-ND	Wide Temperature, Precision Instr. Amp. with Shutdown	10-MSOP	4.39	3.51	2.73
INA338AIDGST	296-13454-2-ND	Wide Temperature, Precision Instr. Amp. with Shutdown	10-MSOP		648.50/250	
INA2126EA/250	INA2126EACT-ND	Dual, Micropower Instr. Amp	16-SSOP	3.96	3.17	2.47
INA2126EA/250	INA2126EATR-ND	Dual, Micropower Instr. Amp	16-SSOP		585.25/250	
INA2126E/250	INA2126ECT-ND	Dual, Micropower Instr. Amp	16-SSOP	5.02	4.02	3.13
INA2126E/250	INA2126ETR-ND	Dual, Micropower Instr. Amp	16-SSOP		741.50/250	
INA2126P	INA2126P-ND	Dual, Micropower Instr. Amp	16-Dip	4.82	3.86	3.00
INA2126PA	INA2126PA-ND	Dual, Micropower Instr. Amp	16-Dip	3.65	2.92	2.27
INA2126U	INA2126U-ND	Dual, Micropower Instr. Amp	16-SOIC	4.82	3.86	3.00
INA2126UA	INA2126UA-ND	Dual, Micropower Instr. Amp	16-SOIC	3.65	2.92	2.27
INA2128UA	INA2128UA-ND	Dual, Low Power Instr. Amp	16-SOIC	9.32	7.46	6.30
INA2132U	INA2132U-ND	Dual, LP, Single-Supply Diff. Amp	14-SOIC	5.29	4.23	3.29
INA2132UA	INA2132UA-ND	Dual, LP, Single-Supply Diff. Amp	14-SOIC	4.05	3.24	2.52
INA2133U	INA2133U-ND	Dual, High-Speed, Diff. Amp	14-SOIC	5.29	4.23	3.29
INA2133UA	INA2133UA-ND	Dual, High-Speed, Diff. Amp	14-SOIC	4.05	3.24	2.52
INA2134PA	INA2134PA-ND	Dual, Audio Differential Line Receiver	14-Dip	3.83	3.06	2.38
INA2134UA	INA2134UA-ND	Dual, Audio Differential Line Receiver	14-SOIC	3.83	3.06	2.38
INA2137PA	INA2137PA-ND	Dual, Audio Differential Line Receiver	14-Dip	3.83	3.06	2.38
INA2137UA	INA2137UA-ND	Dual, Audio Differential Line Receiver	14-SOIC	3.83	3.06	2.38
INA2141U	INA2141U-ND	Dual, Gain=10,100 Instr. Amp	16-SOIC	14.41	12.98	11.51
INA2141UA	INA2141UA-ND	Dual, Gain=10,100 Instr. Amp	16-SOIC	8.95	8.06	7.15
INA2143U	INA2143U-ND	Dual, High Speed Precision Gain=10 Difference Amp	14-SOIC	5.06	4.05	3.15
INA2143UA	INA2143UA-ND	Dual, High Speed Precision Gain=10 Difference Amp	14-SOIC	3.83	3.06	2.38
INA2321EA/250	INA2321EACT-ND	Micropower CMOS R/R Instr. Amp	14-TSSOP	3.94	3.15	2.45
INA2321EA/250	INA2321EATR-ND	Micropower CMOS R/R Instr. Amp	14-TSSOP		582.00/250	
INA2322EA/250	INA2322EACT-ND	Micropower CMOS R/R Instr. Amp	14-TSSOP	3.38	2.70	2.10
INA2322EA/250	INA2322EATR-ND	Micropower CMOS R/R Instr. Amp	14-TSSOP		498.75/250	
INA2331AIPWR	INA2331AIPWRCT-ND	LP R/R CMOS Instr. Amp	14-TSSOP	4.05	3.24	2.52
INA2331AIPWR	INA2331AIPWRTR-ND	LP R/R CMOS Instr. Amp	14-TSSOP		5670.00/2,500	
INA2331AIPWT	296-17647-1-ND	LP R/R CMOS Instr. Amp **NEW!**	14-TSSOP	4.05	3.24	2.52
INA2331AIPWT	296-17647-2-ND	LP R/R CMOS Instr. Amp **NEW!**	14-TSSOP		598.50/250	
INA2332AIPWR	INA2332AIPWRCT-ND	LP R/R CMOS Instr. Amp	14-TSSOP	3.04	2.43	1.89
INA2332AIPWR	INA2332AIPWRTR-ND	LP R/R CMOS Instr. Amp	14-TSSOP		4252.50/2,500	
ISO100AP	ISO100AP-ND	Low Leakage Isolation Amp	18-Dip	125.46	117.10	108.74
ISO121BG	296-12577-5-ND	2500 VRMS Precision Isolation Amp	40-Dip	110.10	102.76	95.42
ISO122JP	ISO122JP-ND	Low-Cost Precision Isolation Amp	16-Dip	15.66	14.10	12.51
ISO122JU	ISO122JU-ND	Low-Cost Precision Isolation Amp	28-SOIC	15.66	14.10	12.51
ISO122P	ISO122P-ND	Low-Cost Precision Isolation Amp	16-Dip	17.55	16.38	15.21
ISO122U	ISO122U-ND	Low-Cost Precision Isolation Amp	28-SOIC	17.55	16.38	15.21
ISO124P	ISO124P-ND	Low-Cost Precision Isolation Amp	16-Dip	12.00	10.80	9.58
ISO124U	ISO124U-ND	Low-Cost Precision Isolation Amp	28-SOIC	12.00	10.80	9.58
ISO150AU	ISO150AU-ND	Dual, Isolated, Bi-Dir. Digital Coupler	28-SOIC	13.49	12.15	10.78
ISO508P	ISO508P-ND	Uni-Directional Isolated Digital Coupler	24-Dip	12.69	11.43	10.14
LF347BD	296-7136-5-ND	Quad WB JFET Op Amp	14-SOIC	1.50	1.20	.90
LF347D	296-7137-5-ND	Quad WB JFET Op Amp	14-SOIC	.64	.48	.36
LF347DR	296-7137-1-ND	Quad WB JFET Op Amp	14-SOIC	.64	.48	.36
LF347DR	296-7137-2-ND	Quad WB JFET Op Amp	14-SOIC		520.00/2,500	
LF347N	296-7138-5-ND	Quad WB JFET Op Amp	14-Dip	.64	.48	.36
LF353D	296-1364-5-ND	Dual JFET Op Amp	8-SOIC	.45	.36	.27
LF353DR	296-14587-1-ND	Dual JFET Op Amp	8-SOIC	.45	.36	.27
LF353DR	296-14587-2-ND	Dual JFET Op Amp	8-SOIC		305.00/2,500	
LF353P	296-7139-5-ND	Dual JFET Op Amp	8-Dip	.50	.40	.30
LF411CD	296-12846-5-ND	High Speed JFET Op Amp	8-SOIC	.75	.63	.50
LF412CD	296-7140-5-ND	Dual JFET Op Amp	8-SOIC	.87	.73	.58
LF412CDR	296-14588-1-ND	Dual JFET Op Amp	8-SOIC	.87	.73	.58
LF412CDR	296-14588-2-ND	Dual JFET Op Amp	8-SOIC		942.50/2,500	
LF412CP	296-7141-5-ND	Dual JFET Op Amp	8-Dip	.96	.72	.54
LM124DR	296-16907-1-ND	Quad Op Amp	14-SOIC	.92	.69	.52
LM124DR	296-16907-2-ND	Quad Op Amp	14-SOIC		747.50/2,500	
LM224AD	296-7029-5-ND	Quad Op Amp	14-SOIC	.58	.46	.35
LM224ADR	296-7029-1-ND	Quad Op Amp	14-SOIC	.58	.46	.35
LM224ADR	296-7029-2-ND	Quad Op Amp	14-SOIC		387.50/2,500	
LM224DR	296-12847-1-ND	Quad Op Amp	14-SOIC	.55	.44	.33
LM224DR	296-12847-2-ND	Quad Op Amp	14-SOIC		372.50/2,500	
LM224N	296-7030-5-ND	Quad Op Amp	14-Dip	.55	.44	.33
LM236D-2-5	296-7031-5-ND	2.5V Integrated Reference Circuit	8-SOIC	1.25	1.00	.75
LM237KC	296-7032-5-ND	3-Terminal Adj. Voltage Regulator	TO-220AB	.90	.75	.60
LM248D	296-6622-5-ND	Quad Op Amp	14-SOIC	.90	.75	.60
LM248N	296-6623-5-ND	Quad Op Amp	14-Dip	.90	.75	.60
LM258ADGKR	296-17216-1-ND	Dual Op Amp	8-VSSOP	.58	.46	.35
LM258ADGKR	296-17216-2-ND	Dual Op Amp	8-VSSOP		387.50/2,500	
LM258ADR	296-15169-1-ND	Dual Op Amp	8-SOIC	.58	.46	.35
LM258ADR	296-15169-2-ND	Dual Op Amp	8-SOIC		387.50/2,500	
LM258D	296-6624-5-ND	Dual Op Amp	8-SOIC	.55	.44	.33
LM258DGKR	296-17217-1-ND	Dual Op Amp	8-VSSOP	.55	.44	.33
LM258DGKR	296-17217-2-ND	Dual Op Amp	8-VSSOP		372.50/2,500	
LM258DR	296-14591-1-ND	Dual Op Amp	8-SOIC	.55	.44	.33
LM258DR	296-14591-2-ND	Dual Op Amp	8-SOIC		372.50/2,500	
LM258P	296-6625-5-ND	Dual Op Amp	8-Dip	.55	.44	.33
LM293ADGKR	296-17218-1-ND	Dual Differential Comparator	8-VSSOP	.58	.46	.35
LM293ADGKR	296-17218-2-ND	Dual Differential Comparator	8-VSSOP		387.50/2,500	

(Continued)

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LM293DGKR	296-17219-1-ND	Dual Differential Comparator	8-VSSOP	.55	.44	.33
LM293DGKR	296-17219-2-ND	Dual Differential Comparator	8-VSSOP		372.50/2,500	
LM318D	296-9538-5-ND	Single High Speed Op Amp	8-SOIC	.90	.75	.60
LM318P	296-9539-5-ND	Single High Speed Op Amp	8-Dip	.90	.75	.60
LM324AD	296-9540-5-ND	Quad General Purpose Op Amp	14-SOIC	.48	.38	.29
LM324ADR	296-9540-1-ND	Quad General Purpose Op Amp	14-SOIC	.48	.38	.29
LM324ADR	296-9540-2-ND	Quad General Purpose Op Amp	14-SOIC		320.00/2,500	
LM324ADBR	296-9541-1-ND	Quad General Purpose Op Amp	14-SSOP	.55	.44	.33
LM324ADBR	296-9541-2-ND	Quad General Purpose Op Amp	14-SSOP		308.00/2,000	
LM324AN	296-9542-5-ND	Quad General Purpose Op Amp	14-Dip	.48	.38	.29
LM324ANSR	296-9543-1-ND	Quad General Purpose Op Amp	14-SOP	.48	.38	.29
LM324ANSR	296-9543-2-ND	Quad General Purpose Op Amp	14-SOP		266.00/2,000	
LM324APWR	296-9544-1-ND	Quad General Purpose Op Amp	14-TSSOP	.48	.38	.29
LM324APWR	296-9544-2-ND	Quad General Purpose Op Amp	14-TSSOP		266.00/2,000	
LM324D	296-1390-5-ND	Quad General Purpose Op Amp	14-SOIC	.45	.36	.27
LM324DR	296-14597-1-ND	Quad General Purpose Op Amp	14-SOIC	.45	.36	.27
LM324DR	296-14597-2-ND	Quad General Purpose Op Amp	14-SOIC		305.00/2,500	
LM324N	296-1391-5-ND	Quad General Purpose Op Amp	14-Dip	.45	.36	.27
LM324PWR	296-9545-1-ND	Quad General Purpose Op Amp	14-TSSOP	.45	.36	.27
LM324PWR	296-9545-2-ND	Quad General Purpose Op Amp	14-TSSOP		252.00/2,000	
LM348D	296-9552-5-ND	Quad General Purpose Op Amp	14-SOIC	.45	.36	.27
LM348DR	296-14600-1-ND	Quad General Purpose Op Amp	14-SOIC	.45	.36	.27
LM348DR	296-14600-2-ND	Quad General Purpose Op Amp	14-SOIC		305.00/2,500	
LM348N	296-12849-5-ND	Quad General Purpose Op Amp	14-Dip	.45	.36	.27
LM358AD	296-9553-5-ND	Dual Op Amp	8-SOIC	.48	.38	.29
LM358ADR	296-14601-1-ND	Dual Op Amp	8-SOIC	.48	.38	.29
LM358ADR	296-14601-2-ND	Dual Op Amp	8-SOIC		320.00/2,500	
LM358AP	296-9554-5-ND	Dual Op Amp	8-Dip	.48	.38	.29
LM358D	296-1014-5-ND	Dual Op Amp	8-SOIC	.45	.36	.27
LM358DR	296-1014-1-ND	Dual Op Amp	8-SOIC	.45	.36	.27
LM358DR	296-1014-2-ND	Dual Op Amp	8-SOIC		305.00/2,500	
LM358P	296-1395-5-ND	Dual Op Amp	8-Dip	.45	.36	.27
LM358PSR	296-1396-1-ND	Dual Op Amp	8-SOP	.45	.36	.27
LM358PSR	296-1396-2-ND	Dual Op Amp	8-SOP		252.00/2,000	
LM358PWR	296-9555-1-ND	Dual Op Amp	8-TSSOP	.45	.36	.27
LM358PWR	296-9555-2-ND	Dual Op Amp	8-TSSOP		252.00/2,000	
LM2900DR	296-9525-1-ND	Quad Op Amp	14-SOIC	.45	.36	.27
LM2900DR	296-9525-2-ND	Quad Op Amp	14-SOIC		305.00/2,500	
LM2900N	296-9526-5-ND	Quad Op Amp	14-Dip	.45	.36	.27
LM2902DR	296-14594-1-ND	Quad Op Amp	14-SOIC	.45	.36	.27
LM2902DR	296-14594-2-ND	Quad Op Amp	14-SOIC		305.00/2,500	
LM2902KAVQDR	296-17253-1-ND	Quad Op Amp	14-SOIC	.52	.39	.30
LM2902KAVQDR	296-17253-2-ND	Quad Op Amp	14-SOIC		422.50/2,500	
LM2902KVQDR	296-17396-1-ND	Quad Op Amp	14-SOIC	.48	.36	.27
LM2902KVQDR	296-17396-2-ND	Quad Op Amp	14-SOIC		390.00/2,500	
LM2902KVQPWRQ1	296-17714-1-ND	Quad Op Amp **NEW!**	14-TSSOP	.56	.42	.32
LM2902KVQPWRQ1	296-17714-2-ND	Quad Op Amp **NEW!**	14-TSSOP		372.00/2,000	
LM2902QPWRQ1	296-16908-1-ND	Quad Op Amp	14-TSSOP	.39	.32	.22
LM2902QPWRQ1	296-16908-2-ND	Quad Op Amp	14-TSSOP		216.00/2,000	
LM2903AVQPWRQ1	296-17790-1-ND	Dual Diff. Comparator **NEW!**	8-TSSOP	.60	.45	.34
LM2903AVQPWRQ1	296-17790-2-ND	Dual Diff. Comparator **NEW!**	8-TSSOP		400.00/2,000	
LM2904AVQPWRQ1	296-17791-1-ND	Dual GP Op Amp **NEW!**	8-TSSOP	.60	.45	.34
LM2904AVQPWRQ1	296-17791-2-ND	Dual GP Op Amp **NEW!**	8-TSSOP		400.00/2,000	
LM2904D	296-9527-5-ND	Dual GP Op Amp	8-SOIC	.45	.36	.27
LM2904DR	296-14596-1-ND	Dual GP Op Amp	8-SOIC	.45	.36	.27
LM2904DR	296-14596-2-ND	Dual GP Op Amp	8-SOIC		305.00/2,500	
LM2904P	296-9528-5-ND	Dual GP Op Amp	8-Dip	.45	.36	.27
LM2904PWR	296-9529-1-ND	Dual GP Op Amp	8-TSSOP	.50	.40	.30
LM2904PWR	296-9529-2-ND	Dual GP Op Amp	8-TSSOP		280.00/2,000	
LM2904VQDRQ1	296-17099-1-ND	Dual GP Op Amp	8-SOIC	.56	.42	.32
LM2904VQDRQ1	296-17099-2-ND	Dual GP Op Amp	8-SOIC		455.00/2,500	
LM3900D	296-9564-5-ND	Quad Op Amp	14-SOIC	.96	.80	.64
LM3900DR	296-14604-1-ND	Quad Op Amp	14-SOIC	.96	.80	.64
LM3900DR	296-14604-2-ND	Quad Op Amp	14-SOIC		1040.00/2,500	
LM3900N	296-9565-5-ND	Quad Op Amp	14-Dip	.96	.80	.64
LMV324ID	296-9569-5-ND	Quad Low Voltage R/R Op Amp	14-SOIC	.80	.60	.45
LMV324IDR	296-9569-1-ND	Quad Low Voltage R/R Op Amp	14-SOIC	.80	.60	.45
LMV324IDR	296-9569-2-ND	Quad Low Voltage R/R Op Amp	14-SOIC		650.00/2,500	
LMV321IDBVR	296-9567-1-ND	Low Voltage R/R Op Amp	SOT-23-5	.68	.51	.39
LMV321IDBVR	296-9567-2-ND	Low Voltage R/R Op Amp	SOT-23-5		663.00/3,000	
LMV321IDCKR	296-9568-1-ND	Low Voltage R/R Op Amp	SC-70-5	.68	.51	.39
LMV321IDCKR	296-9568-2-ND	Low Voltage R/R Op Amp	SC-70-5		663.00/3,000	
LMV324IPWR	296-9570-1-ND	Quad Low Voltage R/R Op Amp	14-TSSOP	.88	.66	.50
LMV324IPWR	296-9570-2-ND	Quad Low Voltage R/R Op Amp	14-TSSOP		586.00/2,000	
LMV324QDR	296-17467-1-ND	Quad Low Voltage R/R Op Amp	14-SOIC	.96	.72	.54
LMV324QDR	296-17467-2-ND	Quad Low Voltage R/R Op Amp	14-SOIC		780.00/2,500	
LMV324QPWR	296-17468-1-ND	Quad Low Voltage R/R Op Amp	14-TSSOP	.96	.72	.54
LMV324QPWR	296-17468-2-ND	Quad Low Voltage R/R Op Amp	14-TSSOP		638.00/2,000	
LMV324SIDR	296-15361-1-ND	Quad Low Voltage R/R Op Amp	16-SOIC	.80	.60	.45
LMV324SIDR	296-15361-2-ND	Quad Low Voltage R/R Op Amp	16-SOIC		650.00/2,500	
LMV324SIPWR	296-15362-1-ND	Quad Low Voltage R/R Op Amp	16-TSSOP	.88	.66	.50
LMV324SIPWR	296-15362-2-ND	Quad Low Voltage R/R Op Amp	16-TSSOP		586.00/2,000	
LMV341IDCKR	296-17359-1-ND	Single Op Amp with Shutdown	6-SOP	.84	.63	.48
LMV341IDCKR	296-17359-2-ND	Single Op Amp with Shutdown	6-SOP		819.00/3,000	
LMV358IDDUR	296-16705-1-ND	Dual Low Voltage R/R Op Amp	8-VSSOP	.88	.66	.50
LMV358IDDUR	296-16705-2-ND	Dual Low Voltage R/R Op Amp	8-VSSOP		858.00/3,000	
LMV358IDGKR	296-13455-1-ND	Dual Low Voltage R/R Op Amp	8-VSSOP	.88	.66	.50
LMV358IDGKR	296-13455-2-ND	Dual Low Voltage R/R Op Amp	8-VSSOP		715.00/2,500	
LMV358IDR	296-9571-1-ND	Dual Low Voltage R/R Op Amp	8-SOIC	.80	.60	.45
LMV358IDR	296-9571-2-ND	Dual Low Voltage R/R Op Amp	8-SOIC		650.00/2,500	
LMV358IDRQ1	296-17648-1-ND	Dual Low Voltage R/R Op Amp **NEW!**	8-SOIC	.88	.66	.50
LMV358IDRQ1	296-17648-2-ND	Dual Low Voltage R/R Op Amp **NEW!**	8-SOIC		715.00/2,500	
LMV358IPWR	296-9572-1-ND	Dual Low Voltage R/R Op Amp	8-TSSOP	.88	.66	.50
LMV358IPWR	296-9572-2-ND	Dual Low Voltage R/R Op Amp	8-TSSOP		586.00/2,000	
LMV358QDDUR	296-17469-1-ND	Dual Low Voltage R/R Op Amp	8-VSSOP	.78	.65	.52
LMV358QDDUR	296-17469-2-ND	Dual Low Voltage R/R Op Amp	8-VSSOP		1014.00/3,000	
LMV358QDGKR	296-17470-1-ND	Dual Low Voltage R/R Op Amp	8-MSOP	.78	.65	.52
LMV358QDGKR	296-17470-2-ND	Dual Low Voltage R/R Op Amp	8-MSOP		845.00/2,500	
LMV358QDR	296-17471-1-ND	Dual Low Voltage R/R Op Amp	8-SOIC	.96	.72	.54
LMV358QDR	296-17471-2-ND	Dual Low Voltage R/R Op Amp	8-SOIC		780.00/2,500	
LMV358QPWR	296-17472-1-ND	Dual Low Voltage R/R Op Amp	8-TSSOP	.96	.72	.54
LMV358QPWR	296-17472-2-ND	Dual Low Voltage R/R Op Amp	8-TSSOP		638.00/2,000	
LMV710IDBVR	296-17853-1-ND	Low Power R/R I/O Op Amp **NEW!**	SOT-23-5	.93	.78	.62
LMV710IDBVR	296-17853-2-ND	Low Power R/R I/O Op Amp **NEW!**	SOT-23-5		1209.00/3,000	
LMV710IDCKR	296-17854-1-ND	Low Power R/R I/O Op Amp **NEW!**	SC70-5	.93	.78	.62

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LMV710IDCKR	296-17854-2-ND	Low Power R/R I/O Op Amp **NEW!**	SC70-5		1209.00/3,000	
LMV822DGKR	296-17406-1-ND	Dual Low Voltage R/R Op Amp	8-MSOP	.93	.78	.6
LMV822DGKR	296-17406-2-ND	Dual Low Voltage R/R Op Amp	8-MSOP		1007.50/2,500	
LMV822IDGKR	296-17407-1-ND	Dual Low Voltage R/R Op Amp	8-MSOP	1.08	.90	.7
LMV822IDGKR	296-17407-2-ND	Dual Low Voltage R/R Op Amp	8-MSOP		1170.00/2,500	
LMV824DGVR	296-17522-1-ND	Quad, Low Voltage, R/R, Op Amp	14-TVSOP	.93	.78	.6
LMV824DGVR	296-17522-2-ND	Quad, Low Voltage, R/R, Op Amp	14-TVSOP		824.00/2,000	
LMV824IDGVR	296-17523-1-ND	Quad, Low Voltage, R/R, Op Amp	14-TVSOP	1.05	.88	.7
LMV824IDGVR	296-17523-2-ND	Quad, Low Voltage, R/R, Op Amp	14-TVSOP		932.00/2,000	
LMV932IDGKR	296-17910-1-ND	1.8V Dual Op Amp **NEW!**	8-MSOP	1.05	.88	.7
LMV932IDGKR	296-17910-2-ND	1.8V Dual Op Amp **NEW!**	8-MSOP		1137.50/2,500	
LMV932IDR	296-17911-1-ND	1.8V Dual Op Amp **NEW!**	8-SOIC	1.02	.85	.6
LMV932IDR	296-17911-2-ND	1.8V Dual Op Amp **NEW!**	8-SOIC		1105.00/2,500	
LOG100JP	LOG100JP-ND	Prec. Logarithmic & Log Ratio Amp	14-Dip	141.92	132.46	123.0
LOG101AID	296-12850-5-ND	Prec. Logarithmic & Log Ratio Amp	8-SOIC	11.58	10.43	9.2
LOG102AID	LOG102AID-ND	Prec. Logarithmic & Log Ratio Amp	14-SOIC	12.08	10.88	9.6
LOG104AID	296-12851-5-ND	Prec. Logarithmic & Log Ratio Amp	8-SOIC	11.58	10.43	9.2
LOG112AID	296-13456-5-ND	Precision Logarithmic and Log Ratio Amp w/On Chip 2.5 Volt. Reference	14-SOIC	13.16	11.85	10.5
LOG2112AIDW	296-13815-5-ND	Precision Logarithmic Amp	16-SOIC	17.03	15.89	14.7
LPV321DBVR	296-17715-1-ND	Low Volt., Low Power, R/R Op Amp **NEW!**	SOT-23-5	1.05	.88	.7
LPV321DBVR	296-17715-2-ND	Low Volt., Low Power, R/R Op Amp **NEW!**	SOT-23-5		1365.00/3,000	
LPV321DCKR	296-17716-1-ND	Low Volt., Low Power, R/R Op Amp **NEW!**	SC70-5	.92	.69	.5
LPV321DCKR	296-17716-2-ND	Low Volt., Low Power, R/R Op Amp **NEW!**	SC70-5		897.00/3,000	
LPV321IDBVR	296-17717-1-ND	Low Volt., Low Power, R/R Op Amp **NEW!**	SOT-23-5	.78	.65	.5
LPV321IDBVR	296-17717-2-ND	Low Volt., Low Power, R/R Op Amp **NEW!**	SOT-23-5		1014.00/3,000	
LPV321IDCKR	296-17718-1-ND	Low Volt., Low Power, R/R Op Amp **NEW!**	SC70-5	.78	.65	.5
LPV321IDCKR	296-17718-2-ND	Low Volt., Low Power, R/R Op Amp **NEW!**	SC70-5		1014.00/3,000	
LPV324DR	296-16815-1-ND	Quad, Low Voltage, R/R Op Amp	14-SOIC	.90	.75	.6
LPV324DR	296-16815-2-ND	Quad, Low Voltage, R/R Op Amp	14-SOIC		975.00/2,500	
LPV324IDR	296-16732-1-ND	Quad, Low Voltage, R/R Op Amp	14-SOIC	.88	.66	.5
LPV324IDR	296-16732-2-ND	Quad, Low Voltage, R/R Op Amp	14-SOIC		1105.00/2,500	
LPV324IPWR	296-16731-1-ND	Quad, Low Voltage, R/R Op Amp	14-TSSOP	1.02	.85	.6
LPV324IPWR	296-16731-2-ND	Quad, Low Voltage, R/R Op Amp	14-TSSOP		904.00/2,000	
LPV324PWR	296-16816-1-ND	Quad, Low Voltage, R/R Op Amp	14-TSSOP	.90	.75	.6
LPV324PWR	296-16816-2-ND	Quad, Low Voltage, R/R Op Amp	14-TSSOP		798.00/2,000	
LPV358DDUR	296-17719-1-ND	Dual, Low Volt., Low Power, R/R Op Amp **NEW!**	8-VSSOP	.75	.63	.5
LPV358DDUR	296-17719-2-ND	Dual, Low Volt., Low Power, R/R Op Amp **NEW!**	8-VSSOP		975.00/3,000	
LPV358DGKR	296-17761-1-ND	Dual, Low Volt., Low Power R/R Op Amp **NEW!**	8-VSSOP	.75	.63	.5
LPV358DGKR	296-17761-2-ND	Dual, Low Volt., Low Power R/R Op Amp **NEW!**	8-VSSOP		812.50/2,500	
LPV358DR	296-17720-1-ND	Dual, Low Volt., Low Power, R/R Op Amp **NEW!**	8-SOIC	.92	.69	.6
LPV358DR	296-17720-2-ND	Dual, Low Volt., Low Power, R/R Op Amp **NEW!**	8-SOIC		747.50/2,500	
LPV358IDDUR	296-17721-1-ND	Dual, Low Volt., Low Power, R/R Op Amp **NEW!**	8-VSSOP	.84	.70	.5
LPV358IDDUR	296-17721-2-ND	Dual, Low Volt., Low Power, R/R Op Amp **NEW!**	8-VSSOP		1092.00/3,000	
LPV358IDGKR	296-17762-1-ND	Dual, Low Volt., Low Power R/R Op Amp **NEW!**	8-VSSOP	.75	.63	.5
LPV358IDGKR	296-17762-2-ND	Dual, Low Volt., Low Power R/R Op Amp **NEW!**	8-VSSOP		812.50/2,500	
LPV358IDR	296-17722-1-ND	Dual, Low Volt., Low Power, R/R Op Amp **NEW!**	8-SOIC	.78	.65	.5
LPV358IDR	296-17722-2-ND	Dual, Low Volt., Low Power, R/R Op Amp **NEW!**	8-SOIC		845.00/2,500	
LT1013CP	296-1399-5-ND	Dual Precision Op Amp	8-Dip	1.40	1.12	.8
LT1013DD	296-1400-5-ND	Dual Precision Op Amp	8-SOIC	.96	.80	.6
LT1013DDR	296-14615-1-ND	Dual Precision Op Amp	8-SOIC	.96	.80	.6
LT1013DDR	296-14615-2-ND	Dual Precision Op Amp	8-SOIC		1040.00/2,500	
LT1013DIDR	296-12982-1-ND	Dual Precision Op Amp	8-SOIC	.87	.73	.5
LT1013DIDR	296-12982-2-ND	Dual Precision Op Amp	8-SOIC		942.50/2,500	
LT1013DIP	296-7044-5-ND	Dual Precision Op Amp	8-Dip	.87	.73	.5
LT1013DP	296-7045-5-ND	Dual Precision Op Amp	8-Dip	.96	.80	.6
LT1014CN	296-14616-5-ND	Quad Precision Op Amp	14-Dip	3.94	3.15	2.4
LT1014DIDW	296-7046-5-ND	Quad Precision Op Amp	16-SOIC	4.50	3.60	2.9
LT1014DIN	296-15322-5-ND	Quad Precision Op Amp	14-Dip	4.50	3.60	2.9
LT1014DN	296-7047-5-ND	Quad Precision Op Amp	14-Dip	3.94	3.15	2.4
LT1030CDR	296-14617-1-ND	Quad LP Line Driver	14-SOIC	1.25	1.00	.7
LT1030CDR	296-14617-2-ND	Quad LP Line Driver	14-SOIC		1600.00/2,500	
MC1458D	296-9601-5-ND	Dual General Purpose Op Amp	8-SOIC	.41	.34	.2
MC1458DR	296-14622-1-ND	Dual General Purpose Op Amp	8-SOIC	.41	.34	.2
MC1458DR	296-14622-2-ND	Dual General Purpose Op Amp	8-SOIC		267.50/2,500	
MC1458P	296-1403-5-ND	Dual General Purpose Op Amp	8-Dip	.41	.34	.2
MC3303D	296-7033-5-ND	Quad LP Op Amp, -40°C to 85°C	14-SOIC	.52	.39	.3
MC3303N	296-7034-5-ND	Quad LP Op Amp, -40°C to 85°C	14-Dip	.52	.39	.3
MC3303PWR	296-11661-1-ND	Quad LP Op Amp, -40°C to 85°C	14-TSSOP	.52	.39	.3
MC3303PWR	296-11661-2-ND	Quad LP Op Amp, -40°C to 85°C	14-TSSOP		346.00/2,000	
MC3403D	296-7035-5-ND	Quad Low Power GP Op Amp	14-SOIC	.55	.44	.3
MC3403DR	296-14623-1-ND	Quad Low Power GP Op Amp	14-SOIC	.55	.44	.3
MC3403DR	296-14623-2-ND	Quad Low Power GP Op Amp	14-SOIC		372.50/2,500	
MC3403N	296-1406-5-ND	Quad Low Power GP Op Amp	14-Dip	.55	.44	.3
MC3403NSR	296-1407-1-ND	Quad Low Power GP Op Amp	14-SOP	.55	.44	.3
MC3403NSR	296-1407-2-ND	Quad Low Power GP Op Amp	14-SOP		308.00/2,000	
MC3403PWR	296-7036-1-ND	Quad Low Power GP Op Amp	14-TSSOP	.55	.44	.3
MC3403PWR	296-7036-2-ND	Quad Low Power GP Op Amp	14-TSSOP		308.00/2,000	
MC3487D	296-7039-5-ND	Quad Differential Line Driver	16-SOIC	.80	.60	.4
MC33078DGKR	296-17855-1-ND	Dual High Speed Low Noise Op Amp **NEW!**	8-MSOP	.78	.65	.5

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AC33078DGKR	296-17855-2-ND	Dual High Speed Low Noise Op Amp *NEW!*	8-MSOP		845.00/2,500	
AC33078DR	296-17723-1-ND	Dual High Speed Low Noise Op Amp *NEW!*	8-SOIC	.78	.65	.52
AC33078DR	296-17723-2-ND	Dual High Speed Low Noise Op Amp *NEW!*	8-SOIC		845.00/2,500	
AC33078P	296-17724-5-ND	Dual High Speed Low Noise Op Amp *NEW!*	8-Dip	.78	.65	.52
APA4609IPFBT	296-16678-1-ND	Quad, Diff. I/O 2x1 Multiplexed High Gain Preamp	48-TQFP	8.30	6.64	5.61
APA4609IPFBT	296-16678-2-ND	Quad, Diff. I/O 2x1 Multiplexed High Gain Preamp	48-TQFP		1348.75/250	
NE5532ADR	296-13621-1-ND	Dual Low Noise Op Amp	8-SOIC	.84	.70	.56
NE5532ADR	296-13621-2-ND	Dual Low Noise Op Amp	8-SOIC		910.00/2,500	
NE5532AP	296-7040-5-ND	Dual Low Noise Op Amp	8-Dip	.84	.70	.56
NE5532APSR	296-13103-1-ND	Dual Low Noise Op Amp	8-SOP	.84	.70	.56
NE5532APSR	296-13103-2-ND	Dual Low Noise Op Amp	8-SOP		744.00/2,000	
NE5532DR	296-13622-1-ND	Dual Low Noise Op Amp	8-SOIC	.80	.60	.45
NE5532DR	296-13622-2-ND	Dual Low Noise Op Amp	8-SOIC		650.00/2,500	
NE5532P	296-1410-5-ND	Dual Low Noise Op Amp	8-Dip	.80	.60	.45
NE5532PSR	296-12641-1-ND	Dual Low Noise Op Amp	8-SOP	.80	.60	.45
NE5532PSR	296-12641-2-ND	Dual Low Noise Op Amp	8-SOP		532.00/2,000	
NE5534ADR	296-16943-1-ND	Low Noise HS Audio Op Amp	8-SOIC	1.05	.88	.70
NE5534ADR	296-16943-2-ND	Low Noise HS Audio Op Amp	8-SOIC		1137.50/2,500	
NE5534AP	296-7042-5-ND	Low Noise HS Audio Op Amp	8-Dip	1.05	.88	.70
NE5534D	296-14346-5-ND	Low Noise HS Audio Op Amp	8-SOIC	.96	.80	.64
NE5534P	296-7043-5-ND	Low Noise HS Audio Op Amp	8-Dip	.96	.80	.64
ONET2501PARGT	296-16974-ND	155MBPS to 2.5GBPS Limiting Amp	16-QFN	9.22	7.38	6.23
ONET2511PARGT	296-16975-ND	2.5GBPS Transimpedance Amp, Bare-Die	16-QFN	8.36	6.69	5.65
ONET2511TAY	296-17427-ND	2.5GBPS Transimpedance Amp, Bare-Die *NEW!*	—	6.50	5.20	4.39
ONET3301PARGT	296-16976-ND	155MBPS to 3.3GBPS Limiting Amp	16-QFN	11.08	9.98	8.85
ONET9901PARGP	296-17055-5-ND	10.7GBPS Limiting Amp	20-QFN	152.00	114.00	85.50
OP-07DPSR	296-14171-1-ND	Low Noise Precision Op Amp	8-SOIC	.75	.63	.50
OP-07DPSR	296-14171-2-ND	Low Noise Precision Op Amp	8-SOIC		666.00/2,000	
OP07CD	296-12852-5-ND	Low Offset Voltage Precision Op Amp	8-SOIC	.96	.80	.64
OP07CDR	296-14626-1-ND	Low Offset Voltage Precision Op Amp	8-SOIC	.96	.80	.64
OP07CDR	296-14626-2-ND	Low Offset Voltage Precision Op Amp	8-SOIC		1040.00/2,500	
OP07CP	296-12853-5-ND	Low Offset Voltage Precision Op Amp	8-Dip	.96	.80	.64
OP07DD	296-9621-5-ND	Low Offset Voltage Precision Op Amp	8-SOIC	.75	.63	.50
OP07DDR	296-14627-1-ND	Low Offset Voltage Precision Op Amp	8-SOIC	.75	.63	.50
OP07DDR	296-14627-2-ND	Low Offset Voltage Precision Op Amp	8-SOIC		812.50/2,500	
OP07DP	296-9622-5-ND	Low Offset Voltage Precision Op Amp	8-Dip	.75	.63	.50
OPA27GP	OPA27GP-ND	Compensated, LN, Precision Op Amp	8-Dip	2.45	1.97	1.53
OPA27GU	OPA27GU-ND	Compensated, LN, Precision Op Amp	8-SOIC	2.45	1.97	1.53
OPA37GP	OPA37GP-ND	Uncompensated, LN, Precision Op Amp	8-Dip	2.57	2.06	1.60
OPA37GU	OPA37GU-ND	Uncompensated, LN, Prec. Op Amp	8-SOIC	2.57	2.06	1.60
OPA111AM	OPA111AM-ND	LN, Precision Op Amp (500µV Out)	TO-99	24.42	22.80	21.17
OPA111BM	OPA111BM-ND	LN, Precision Op Amp (250µV Out)	TO-99	39.72	37.08	34.43
OPA121KU	OPA121KU-ND	Low Cost, Precision DiFET Op Amp	8-SOIC	8.50	7.65	6.79
OPA124U	OPA124U-ND	Low Noise, Precision DiFET Op Amp	8-SOIC	7.90	6.32	5.34
OPA124UA	OPA124UA-ND	Low Noise, Precision DiFET Op Amp	8-SOIC	9.40	7.52	6.35
OPA128JM	OPA128JM-ND	DiFET Electrometer-Grade Op Amp	TO-99-8	50.12	46.78	43.44
OPA128KM	OPA128KM-ND	DiFET Electrometer-Grade Op Amp	TO-99-8	55.85	52.13	48.40
OPA128LM	OPA128LM-ND	DiFET Electrometer-Grade Op Amp	TO-99-8	61.34	57.25	53.16
OPA128SM	OPA128SM-ND	DiFET Electrometer-Grade Op Amp	TO-99-8	71.97	67.18	62.38
OPA129U	OPA129U-ND	Ultra-Low Bias Current DiFET Op Amp	8-SOIC	6.40	5.12	4.32
OPA129UB	OPA129UB-ND	Ultra-Low Bias Current DiFET Op Amp	8-SOIC	9.08	8.18	7.25
OPA130UA	OPA130UA-ND	Low Power, Precision, FET-In Op Amp	8-SOIC	3.15	2.52	1.96
OPA131U	OPA131U-ND	General Purpose FET-Input Op Amp	8-SOIC	4.73	3.78	2.94
OPA131UA	OPA131UA-ND	General Purpose FET-Input Op Amp	8-SOIC	2.59	2.07	1.61
OPA131UJ	OPA131UJ-ND	General Purpose FET-Input Op Amp	8-SOIC	1.88	1.50	1.13
OPA132U	OPA132U-ND	High Speed FET-Input Op Amp	8-SOIC	5.70	4.56	3.85
OPA132UA	OPA132UA-ND	High Speed FET-Input Op Amp	8-SOIC	3.26	2.61	2.03
OPA134PA	OPA134PA-ND	High Performance Audio Op Amp	8-Dip	2.25	1.80	1.35
OPA134UA	OPA134UA-ND	High Performance Audio Op Amp	8-SOIC	2.25	1.80	1.35
OPA137N/250	OPA137NCT-ND	Low Cost FET-Input Op Amp	SOT-23-5	2.38	1.90	1.43
OPA137N/250	OPA137NTR-ND	Low Cost FET-Input Op Amp	SOT-23-5		332.50/250	
OPA137NA/250	OPA137NACT-ND	Low Cost FET-Input Op Amp	SOT-23-5	1.50	1.20	.90
OPA137NA/250	OPA137NATR-ND	Low Cost FET-Input Op Amp	SOT-23-5		210.00/250	
OPA137P	OPA137P-ND	Low Cost FET-Input Op Amp	8-Dip	2.38	1.90	1.43
OPA137PA	OPA137PA-ND	Low Cost FET-Input Op Amp	8-Dip	1.50	1.20	.90
OPA137U	OPA137U-ND	Low Cost FET-Input Op Amp	8-SOIC	2.38	1.90	1.43
OPA137UA	OPA137UA-ND	Low Cost FET-Input Op Amp	8-SOIC	1.50	1.20	.90
OPA177FP	OPA177FP-ND	Precision Op Amp	8-Dip	5.45	4.36	3.39
OPA177GP	OPA177GP-ND	Precision Op Amp	8-Dip	1.90	1.52	1.14
OPA177GS	OPA177GS-ND	Precision Op Amp	8-SOIC	1.90	1.52	1.14
OPA227P	OPA227P-ND	High Precision, Low Noise Op Amp	8-Dip	5.02	4.02	3.13
OPA227PA	OPA227PA-ND	High Precision, Low Noise Op Amp	8-Dip	2.36	1.89	1.47
OPA227U	OPA227U-ND	High Precision, Low Noise Op Amp	8-SOIC	5.02	4.02	3.13
OPA227UA	OPA227UA-ND	High Precision, Low Noise Op Amp	8-SOIC	2.36	1.89	1.47
OPA228P	OPA228P-ND	Low Noise Precision Op Amp	8-Dip	5.02	4.02	3.13
OPA228PA	OPA228PA-ND	Low Noise Precision Op Amp	8-Dip	2.36	1.89	1.47
OPA228U	OPA228U-ND	Low Noise Precision Op Amp	8-SOIC	5.02	4.02	3.13
OPA228UA	OPA228UA-ND	Low Noise Precision Op Amp	8-SOIC	2.36	1.89	1.47
OPA234E/250	OPA234ECT-ND	Low Power Single-Supply Op Amp	8-MSOP	3.22	2.58	2.01
OPA234E/250	OPA234ETR-ND	Low Power Single-Supply Op Amp	8-MSOP		475.50/250	
OPA234EA/250	OPA234EACT-ND	Low Power Single-Supply Op Amp	8-MSOP	2.25	1.80	1.40
OPA234EA/250	OPA234EATR-ND	Low Power Single-Supply Op Amp	8-MSOP		332.50/250	
OPA234U	OPA234U-ND	Low Power Single-Supply Op Amp	8-SOIC	3.22	2.58	2.01
OPA234UA	OPA234UA-ND	Low Power Single-Supply Op Amp	8-SOIC	2.25	1.80	1.40
OPA237NA/250	OPA237NACT-ND	Single-Supply Op Amp	SOT-23-5	1.38	1.10	.83
OPA237NA/250	OPA237NATR-ND	Single-Supply Op Amp	SOT-23-5		192.50/250	
OPA237UA	OPA237UA-ND	Single-Supply Op Amp	8-SOIC	1.38	1.10	.83
OPA241PA	OPA241PA-ND	Single-Supply, Micropower, Low Voltage Op Amp	8-Dip	2.59	2.07	1.61
OPA241UA	OPA241UA-ND	Single-Supply, Micropower, Low Voltage Op Amp	8-SOIC	2.59	2.07	1.61
OPA244NA/250	OPA244NACT-ND	Single-Supply, Micropower Op Amp	SOT-23-5	1.30	1.04	.78
OPA244NA/250	OPA244NATR-ND	Single-Supply, Micropower Op Amp	SOT-23-5		182.00/250	
OPA244PA	OPA244PA-ND	Single-Supply, Micropower Op Amp	8-Dip	1.30	1.04	.78
OPA244UA	OPA244UA-ND	Single-Supply, Micropower Op Amp	8-SOIC	1.30	1.04	.78
OPA251PA	OPA251PA-ND	Single-Supply, Micropower Op Amp	8-Dip	2.59	2.07	1.61
OPA251UA	OPA251UA-ND	Single-Supply, Micropower Op Amp	8-SOIC	2.59	2.07	1.61
OPA277P	OPA277P-ND	High Precision Op Amp	8-Dip	4.50	3.60	2.80
OPA277PA	OPA277PA-ND	High Precision Op Amp	8-Dip	2.03	1.62	1.22
OPA277U	OPA277U-ND	High Precision Op Amp	8-SOIC	4.50	3.60	2.80
OPA277UA	OPA277UA-ND	High Precision Op Amp	8-SOIC	2.03	1.62	1.22
OPA300AID	296-15087-5-ND	Low Noise, HS, 16-Bit CMOS Op Amp	8-SOIC	2.81	2.25	1.75
OPA301AID	296-17236-5-ND	Low Noise, High Speed CMOS Op Amp	8-SOIC	2.81	2.25	1.75
OPA301AIDBVT	296-16905-1-ND	Low Noise, High Speed CMOS Op Amp	8-SOIC	2.81	2.25	1.75
OPA301AIDBVT	296-16905-2-ND	Low Noise, High Speed CMOS Op Amp	8-SOIC		415.75/250	
OPA334AIDBVT	296-13466-1-ND	Single-Supply CMOS Zero Drift Op Amp	SOT-23-6	2.50	2.00	1.50
OPA334AIDBVT	296-13466-2-ND	Single-Supply CMOS Zero Drift Op Amp	SOT-23-6		332.50/250	
OPA335AID	296-13467-5-ND	Single-Supply CMOS Zero Drift Op Amp	8-SOIC	2.25	1.80	1.40
OPA335AIDBVT	296-13468-1-ND	Single-Supply CMOS Zero Drift Op Amp	SOT-23-5	2.50	2.00	1.50
OPA335AIDBVT	296-13468-2-ND	Single-Supply CMOS Zero Drift Op Amp	SOT-23-5		332.50/250	
OPA336U	OPA336U-ND	Single-Supply, Micropower Op Amp	8-SOIC	2.38	1.90	1.43
OPA336N/250	OPA336NCT-ND	Single-Supply, Micropower Op Amp	SOT-23-5	2.38	1.90	1.43
OPA336N/250	OPA336NTR-ND	Single-Supply, Micropower Op Amp	SOT-23-5		332.50/250	
OPA336NA/250	OPA336NACT-ND	Single-Supply, Micropower Op Amp	SOT-23-5	1.63	1.30	.98
OPA336NA/250	OPA336NATR-ND	Single-Supply, Micropower Op Amp	SOT-23-5		227.50/250	
OPA336UA	OPA336UA-ND	Single-Supply, Micropower Op Amp	8-SOIC	1.63	1.30	.98
OPA337EA/250	OPA337EACT-ND	Single-Supply, CMOS Op Amp	8-MSOP	1.29	1.08	.86
OPA337EA/250	OPA337EATR-ND	Single-Supply, CMOS Op Amp	8-MSOP		161.25/250	
OPA337NA/250	OPA337NACT-ND	Single-Supply, CMOS Op Amp	SOT-23-5	1.29	1.08	.86
OPA337NA/250	OPA337NATR-ND	Single-Supply, CMOS Op Amp	SOT-23-5		161.25/250	
OPA337PA	OPA337PA-ND	Single-Supply, CMOS Op Amp	8-Dip	1.29	1.08	.86
OPA337UA/2K5	OPA337UACT-ND	Single-Supply, CMOS Op Amp	8-SOIC	1.29	1.08	.86
OPA337UA	OPA337UA-ND	Single-Supply, CMOS Op Amp	8-SOIC	1.29	1.08	.86
OPA337UA/2K5	OPA337UATR-ND	Single-Supply, CMOS Op Amp	8-SOIC		1397.50/2,500	
OPA338NA/250	OPA338NACT-ND	Decompensated Single-Supply CMOS Op Amp	SOT-23-5	1.29	1.08	.86
OPA338NA/250	OPA338NATR-ND	Decompensated Single-Supply CMOS Op Amp	SOT-23-5		161.25/250	
OPA338UA	OPA338UA-ND	Decompensated Single-Supply CMOS Op Amp	8-SOIC	1.29	1.08	.86
OPA340NA/250	OPA340NACT-ND	Single-Supply, R/R Op Amp	SOT-23-5	1.90	1.52	1.14
OPA340NA/250	OPA340NATR-ND	Single-Supply, R/R Op Amp	SOT-23-5		266.00/250	
OPA340PA	OPA340PA-ND	Single-Supply, R/R Op Amp	8-Dip	1.90	1.52	1.14
OPA340UA	OPA340UA-ND	Single-Supply, R/R Op Amp	8-SOIC	1.90	1.52	1.14
OPA341NA/3K	OPA341NA/3KCT-ND	Single-Supply R/R In/Out, LP Op Amp with Shutdown	SOT-23-6	1.78	1.42	1.07
OPA341NA/3K	OPA341NA/3KTR-ND	Single-Supply R/R In/Out, LP Op Amp with Shutdown	SOT-23-6		2727.00/3,000	
OPA341UA	OPA341UA-ND	Single-Supply R/R In/Out, LP Op Amp with Shutdown	8-SOIC	1.78	1.42	1.07
OPA342NA/250	OPA342NACT-ND	Low Cost Micropower R/R Op Amp	SOT-23-5	1.43	1.14	.86
OPA342NA/250	OPA342NATR-ND	Low Cost Micropower R/R Op Amp	SOT-23-5		199.50/250	
OPA342UA	OPA342UA-ND	Low Cost Micropower R/R Op Amp	8-SOIC	1.43	1.14	.86
OPA343NA/250	OPA343NACT-ND	Single Supply Op Amp	SOT-23-5	1.43	1.14	.86
OPA343NA/250	OPA343NATR-ND	Single Supply Op Amp	SOT-23-5		199.50/250	
OPA343UA	OPA343UA-ND	Single Supply Op Amp	8-SOIC	1.43	1.14	.86
OPA344NA/250	OPA344NACT-ND	Single Supply Op Amp	SOT-23-5	1.68	1.34	1.01
OPA344NA/250	OPA344NATR-ND	Single Supply Op Amp	SOT-23-5		234.50/250	
OPA344PA	OPA344PA-ND	Single Supply Op Amp	8-Dip	1.68	1.34	1.01
OPA344UA	OPA344UA-ND	Single Supply Op Amp	8-SOIC	1.68	1.34	1.01
OPA345NA/250	OPA345NACT-ND	Single Supply Op Amp	SOT-23-5	1.68	1.34	1.01
OPA345NA/250	OPA345NATR-ND	Single Supply Op Amp	SOT-23-5		234.50/250	
OPA345UA	OPA345UA-ND	Single Supply Op Amp	8-SOIC	1.68	1.34	1.01
OPA347NA/250	OPA347NACT-ND	Micropower R/R, I/O Op Amp	SOT-23-5	1.15	.92	.69
OPA347NA/250	OPA347NATR-ND	Micropower R/R, I/O Op Amp	SOT-23-5		172.50/250	
OPA347PA	OPA347PA-ND	Micropower R/R, I/O Op Amp	8-Dip	1.38	1.15	.92
OPA347SA/3K	296-13469-1-ND	Micropower R/R, I/O Op Amp	SC-70	1.44	1.20	.96
OPA347SA/3K	296-13469-2-ND	Micropower R/R, I/O Op Amp	SC-70		1872.00/3,000	
OPA347UA	OPA347UA-ND	Micropower R/R, I/O Op Amp	8-SOIC	1.38	1.15	.92
OPA347UA/2K5	OPA347UATR-ND	Micropower R/R, I/O Op Amp	8-SOIC		1495.00/2,500	
OPA348AID	296-12275-5-ND	1MHz, 45µA, R/R, I/O CMOS Op Amp	8-SOIC	1.29	1.08	.86
OPA348AIDBVT	296-12276-1-ND	1MHz, 45µA, R/R, I/O CMOS Op Amp	SOT-23-5	1.29	1.08	.86
OPA348AIDBVT	296-12276-2-ND	1MHz, 45µA, R/R, I/O CMOS Op Amp	SOT-23-5		161.25/250	
OPA348AIDCKT	296-12728-1-ND	1MHz, 45µA, R/R, I/O CMOS Op Amp	SC70-5	1.29	1.08	.86
OPA348AIDCKT	296-12728-2-ND	1MHz, 45µA, R/R, I/O CMOS Op Amp	SC70-5		161.25/250	
OPA350EA/250	OPA350EACT-ND	HS, Single-Supply CMOS Op Amp (35MHz)	8-MSOP	2.79	2.24	1.74
OPA350EA/250	OPA350EATR-ND	HS, Single-Supply CMOS Op Amp (35MHz)	8-MSOP		412.25/250	
OPA350PA	OPA350PA-ND	HS, Single-Supply CMOS Op Amp (35MHz)	8-Dip	2.79	2.24	1.74
OPA350UA	OPA350UA-ND	HS, Single-Supply CMOS Op Amp (35MHz)	8-SOIC	2.79	2.24	1.74
OPA353NA/250	OPA353NACT-ND	HS, Single-Supply, R/R CMOS Op Amp	SOT-23-5	2.14	1.71	1.33
OPA353NA/250	OPA353NATR-ND	HS, Single-Supply, R/R CMOS Op Amp	SOT-23-5		332.50/250	
OPA353UA	OPA353UA-ND	HS, Single-Supply, R/R CMOS Op Amp (35MHz)	8-SOIC	2.38	1.90	1.43
OPA354AIDBVT	296-13033-1-ND	250MHz, R/R, In/Out, CMOS Op Amp	SOT-23-5	1.78	1.42	1.07
OPA354AIDBVT	296-13033-2-ND	250MHz, R/R, In/Out, CMOS Op Amp	SOT-23-5		248.50/250	
OPA354AIDDA	296-13785-5-ND	250MHz, R/R, In/Out, CMOS Op Amp	8-SOIC	1.78	1.42	1.07
OPA355NA/250	296-11641-1-ND	High Speed, Video Op Amp	SOT-23-6	2.15	1.72	1.29
OPA355NA/250	296-11641-2-ND	High Speed, Video Op Amp	SOT-23-6		301.00/250	
OPA355NA/3K	296-14628-1-ND	200MHz, Op Amp with Shutdown	SOT23-6	2.15	1.72	1.29
OPA355NA/3K	296-14628-2-ND	200MHz, Op Amp with Shutdown	SOT23-6		3303.00/3,000	
OPA355UA	296-11647-5-ND	High Speed, Video Op Amp	8-SOIC	2.15	1.72	1.29
OPA356AID	296-12407-5-ND	2.5V, Single CMOS Op Amp	8-SOIC	2.15	1.72	1.29
OPA357AIDBVT	296-13009-1-ND	High Speed, R/R, In/Out, CMOS Op Amp with Shutdown	SOT-23-6	1.78	1.42	1.07

(Continued)

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
OPA357AIDBVT	296-13009-2-ND	High Speed, R/R, in/Out, CMOS Op Amp with Shutdown	SOT-23-6		248.50/250	
OPA357AIDDA	296-13786-5-ND	High Speed, R/R, in/Out, CMOS Op Amp with Shutdown	8-SOIC	1.78	1.42	1.07
OPA358AIDCKT	296-17414-1-ND	3V Single-Supply 80MHz, High Speed Op Amp	SC70-6	1.35	1.13	.90
OPA358AIDCKT	296-17414-2-ND	3V Single-Supply 80MHz, High Speed Op Amp	SC70-6		168.75/250	
OPA360AIDCKT	296-17129-1-ND	3V Video Amp	SC70-6	1.47	1.23	.98
OPA360AIDCKT	296-17129-2-ND	3V Video Amp	SC70-6		183.75/250	
OPA363AID	296-13880-5-ND	7MHz, Single-Supply R/R Op Amp	8-SOIC	1.50	1.20	.90
OPA363AIDBVT	296-13881-1-ND	7MHz, Single-Supply R/R Op Amp	SOT-23-6	1.50	1.20	.90
OPA363AIDBVT	296-13881-2-ND	7MHz, Single-Supply R/R Op Amp	SOT-23-6		210.00/250	
OPA363ID	296-13882-5-ND	7MHz, Single-Supply R/R Op Amp	8-SOIC	2.13	1.70	1.28
OPA363IDBVR	296-16727-1-ND	7MHz, Single-Supply R/R Op Amp	SOT-23-6	2.13	1.70	1.28
OPA363IDBVR	296-16727-2-ND	7MHz, Single-Supply R/R Op Amp	SOT-23-6		3264.00/3,000	
OPA363IDBVT	296-13883-1-ND	7MHz, Single-Supply R/R Op Amp	SOT-23-6	2.13	1.70	1.28
OPA363IDBVT	296-13883-2-ND	7MHz, Single-Supply R/R Op Amp	SOT-23-6		297.50/250	
OPA364AID	296-13884-5-ND	7MHz, Single-Supply R/R Op Amp	8-SOIC	1.50	1.20	.90
OPA364AIDBVT	296-13885-1-ND	7MHz, Single-Supply R/R Op Amp	SOT-23-5	1.50	1.20	.90
OPA364AIDBVT	296-13885-2-ND	7MHz, Single-Supply R/R Op Amp	SOT-23-5		210.00/250	
OPA364ID	296-13886-5-ND	7MHz, Single-Supply R/R Op Amp	8-SOIC	2.13	1.70	1.28
OPA364IDBVT	296-13887-1-ND	7MHz, Single-Supply R/R Op Amp	SOT-23-5	2.13	1.70	1.28
OPA364IDBVT	296-13887-2-ND	7MHz, Single-Supply R/R Op Amp	SOT-23-5		297.50/250	
OPA373AID	296-15762-5-ND	6.5MHz, R/R, In/Out, CMOS Op Amp	8-SOIC	1.08	.90	.72
OPA373AIDBVT	296-15763-1-ND	6.5MHz, R/R, In/Out, CMOS Op Amp	SOT-23-6	1.08	.90	.72
OPA373AIDBVT	296-15763-2-ND	6.5MHz, R/R, In/Out, CMOS Op Amp	SOT-23-6		135.00/250	
OPA374AID	296-15764-5-ND	6.5MHz, R/R, In/Out, CMOS Op Amp	8-SOIC	1.08	.90	.72
OPA374AIDBVT	296-15765-1-ND	6.5MHz, R/R, In/Out, CMOS Op Amp	SOT-23-5	1.08	.90	.72
OPA374AIDBVT	296-15765-2-ND	6.5MHz, R/R, In/Out, CMOS Op Amp	SOT-23-5		135.00/250	
OPA380AID	296-16859-5-ND	Prec., HS, Transimpedance Amp	8-SOIC	4.39	3.51	2.73
OPA380AIDGKT	296-16860-1-ND	Prec., HS, Transimpedance Amp	8-MSOP	4.39	3.51	2.73
OPA380AIDGKT	296-16860-2-ND	Prec., HS, Transimpedance Amp	8-MSOP		648.50/250	
OPA381AIDGKT	296-17362-1-ND	Precision, Low Power, 18MHz, Transimpedance Amp	8-MSOP	3.26	2.61	2.03
OPA381AIDGKT	296-17362-2-ND	Precision, Low Power, 18MHz, Transimpedance Amp	8-MSOP		482.25/250	
OPA381AIDRBT	296-17363-1-ND	Precision, Low Power, 18MHz, Transimpedance Amp	8-DFN	3.26	2.61	2.03
OPA381AIDRBT	296-17363-2-ND	Precision, Low Power, 18MHz, Transimpedance Amp	8-DFN		482.25/250	
OPA404KP	OPA404KP-ND	Quad High Spd., Prec. DiFET Op Amp	14-Dip	12.58	11.33	10.05
OPA404KU	OPA404KU-ND	Quad High Spd., Prec. DiFET Op Amp	16-SOIC	11.91	10.73	9.51
OPA445AP	OPA445AP-ND	High Voltage Op Amp	8-Dip	9.50	7.60	6.42
OPA445AU	OPA445AU-ND	High Voltage Op Amp	8-SOIC	9.50	7.60	6.42
OPA452FAKTWT	296-15965-1-ND	80V, 50mA Op Amp	7-DDPAK	5.10	4.08	—
OPA452FAKTWT	296-15965-2-ND	80V, 50mA Op Amp	7-DDPAK		172.13/50	
OPA452TA-1	OPA452TA-1-ND	80V, 50mA Op Amp	TO-220-7	5.10	4.08	3.45
OPA452TA	OPA452TA-ND	80V, 50mA Op Amp	TO-220-7	5.10	4.08	3.45
OPA453FAKTWT	296-15966-1-ND	80V, 50mA Op Amp	7-DDPAK	5.10	4.08	—
OPA453FAKTWT	296-15966-2-ND	80V, 50mA Op Amp	7-DDPAK		172.15/50	
OPA453TA-1	OPA453TA-1-ND	80V, 50mA Op Amp	TO-220-7	5.10	4.08	3.45
OPA453TA	OPA453TA-ND	80V, 50mA Op Amp	TO-220-7	5.10	4.08	3.45
OPA501AM	OPA501AM-ND	High Voltage, High Current Op Amp	TO-3-8	172.19	160.71	149.23
OPA512BM	OPA512BM-ND	Very-High Current, High Power Op Amp	TO-3-8	154.08	143.81	133.54
OPA541AM	OPA541AM-ND	High Power Monolithic Op Amp	TO-3-8	122.66	114.48	106.31
OPA541AP	OPA541AP-ND	High Power Monolithic Op Amp	TO-220-11	16.65	15.54	14.43
OPA544FKTTT	296-15905-1-ND	High Voltage, High Current Op Amp	5-DDPAK	11.41	10.28	—
OPA544FKTTT	296-15905-2-ND	High Voltage, High Current Op Amp	5-DDPAK		455.55/50	
OPA544T	OPA544T-ND	High Voltage, High Current Op Amp	TO-220-5	11.41	10.28	9.12
OPA547FKTWT	296-15967-1-ND	High Voltage, 60V, High Current (.5A) Op Amp	7-DDPAK	8.70	6.96	—
OPA547FKTWT	296-15967-2-ND	High Voltage, 60V, High Current (.5A) Op Amp	7-DDPAK		293.65/50	
OPA547T	OPA547T-ND	High Voltage, 60V, High Current (.5A) Op Amp	TO-220-7	8.70	6.96	5.88
OPA548FKTWT	296-15968-1-ND	High Voltage, 60V, High Current (3A) Op Amp	7-DDPAK	10.00	9.00	—
OPA548FKTWT	296-15968-2-ND	High Voltage, 60V, High Current (3A) Op Amp	7-DDPAK		399.00/50	
OPA548T	OPA548T-ND	High Voltage, 60V, High Current (3A) Op Amp	TO-220-7	10.00	9.00	7.98
OPA549S	OPA549S-ND	High Volt., High Current Op Amp	11-PFM	18.00	16.80	15.60
OPA549T	OPA549T-ND	High Volt., High Current Op Amp	TO-220-11	18.00	16.80	15.60
OPA551FAKTWT	296-15969-1-ND	High Current/Power 60V, 200mA Op Amp	7-DDPAK	5.40	4.32	—
OPA551FAKTWT	296-15969-2-ND	High Current/Power 60V, 200mA Op Amp	7-DDPAK		168.00/50	
OPA551PA	OPA551PA-ND	High Current/Power 60V, 200mA Op Amp	8-Dip	3.94	3.15	2.45
OPA551UA	OPA551UA-ND	High Current/Power 60V, 200mA Op Amp	8-SOIC	3.94	3.15	2.45
OPA552FAKTWT	296-15970-1-ND	High Current/Power 60V, 200mA Op Amp	7-DDPAK	5.40	4.32	—
OPA552FAKTWT	296-15970-2-ND	High Current/Power 60V, 200mA Op Amp	7-DDPAK		168.00/50	
OPA552PA	OPA552PA-ND	High Current/Power 60V, 200mA Op Amp	8-Dip	3.94	3.15	2.45
OPA552UA	OPA552UA-ND	High Current/Power 60V, 200mA Op Amp	8-SOIC	3.94	3.15	2.45
OPA561PWP	OPA561PWP-ND	High Current, HS, Op Amp	20-HTSSOP	5.30	4.24	3.58
OPA569AIDWP	296-14174-5-ND	Rail-to-Rail, 2A Power Amp	20-HSOP	6.20	4.96	4.19
OPA602AP	OPA602AP-ND	High-Speed, Precision DiFET Op Amp	8-Dip	7.60	6.08	5.13
OPA602AU	OPA602AU-ND	High-Speed, Precision DiFET Op Amp	8-SOIC	8.30	6.64	5.61
OPA602BP	OPA602BP-ND	High-Speed, Precision DiFET Op Amp	8-Dip	10.16	9.15	8.12
OPA604AP	OPA604AP-ND	FET-Input, Low Distortion Op Amp	8-Dip	2.36	1.89	1.47
OPA604AU	OPA604AU-ND	FET-Input, Low Distortion Op Amp	8-SOIC	2.36	1.89	1.47
OPA606KP	OPA606KP-ND	Wide Bandwidth DiFET Op Amp	8-Dip	6.70	5.36	4.53
OPA627AP	OPA627AP-ND	Precision High-Speed DiFET Op Amp	8-Dip	18.38	17.15	15.93
OPA627AU	OPA627AU-ND	Precision High-Speed DiFET Op Amp	8-SOIC	18.38	17.15	15.93
OPA627BP	OPA627BP-ND	Precision High-Speed DiFET Op Amp	8-Dip	26.63	24.85	23.08
OPA627AM	OPA627AM-ND	Precision High-Speed DiFET Op Amp	TO-99-8	34.88	32.55	30.23
OPA633KP	OPA633KP-ND	High-Speed Buffer-Amp	8-Dip	9.08	8.18	7.25
OPA635N/250	OPA635NCT-ND	Wideband, R/R Op Amp w/Disable	SOT-23-6	3.11	2.49	1.94
OPA637AP	OPA637AP-ND	Precision High-Speed DiFET Op Amp	8-Dip	18.38	17.15	15.93
OPA637AU	OPA637AU-ND	Precision High-Speed DiFET Op Amp	8-SOIC	18.38	17.15	15.93
OPA637BP	OPA637BP-ND	Precision High-Speed DiFET Op Amp	8-Dip	26.63	24.85	23.08
OPA643N/250	OPA643NCT-ND	Wideband, Low Distortion, High Gain Op Amp	SOT-23-5	9.06	8.16	7.26
OPA643NB/250	OPA643NBCT-ND	Wideband, Low Distortion, High Gain Op Amp	SOT-23-5	9.06	8.16	7.26
OPA656N/250	OPA656N/250CT-ND	Wideband Voltage-Feedback FET-Input Op Amp	SOT-23-5	7.10	5.68	4.83
OPA656N/250	OPA656N/250TR-ND	Wideband Voltage-Feedback FET-Input Op Amp	SOT-23-5		1153.75/250	
OPA656NB/250	OPA656NB/250CT-ND	Wideband Voltage-Feedback FET-Input Op Amp	SOT-23-5	9.40	7.52	6.39
OPA656NB/250	OPA656NB/250TR-ND	Wideband Voltage-Feedback FET-Input Op Amp	SOT-23-5		1527.50/250	
OPA656U	OPA656U-ND	Wideband Voltage-Feedback FET-Input Op Amp	8-SOIC	6.70	5.36	4.56
OPA656UB	OPA656UB-ND	Wideband Voltage-Feedback FET-Input Op Amp	8-SOIC	9.00	7.20	6.08
OPA657N/250	OPA657N/250CT-ND	Low Noise Wideband Volt-Feedback FET-Input Op Amp	SOT-23-5	7.90	6.32	5.37
OPA657N/250	OPA657N/250TR-ND	Low Noise Wideband Volt-Feedback FET-Input Op Amp	SOT-23-5		1283.75/250	
OPA657NB/250	OPA657NB/250CT-ND	Low Noise Wideband Volt-Feedback FET-Input Op Amp	SOT-23-5	8.50	7.65	6.71
OPA657NB/250	OPA657NB/250TR-ND	Low Noise Wideband Volt-Feedback FET-Input Op Amp	SOT-23-5		1625.75/250	
OPA657U	OPA657U-ND	Low Noise Wideband Volt-Feedback FET-Input Op Amp	8-SOIC	7.60	6.08	5.17
OPA657UB	OPA657UB-ND	Low Noise Wideband Volt-Feedback FET-Input Op Amp	8-SOIC	9.90	7.92	6.68
OPA658UB	OPA658UB-ND	Wideband, LP, Current-Fdbk. Op Amp	8-SOIC	5.40	4.32	3.37
OPA683ID	296-12854-5-ND	Very Low-Power, Current-Feedback Op Amp	8-SOIC	2.57	2.06	1.62
OPA683IDBVT	296-12855-1-ND	Very Low-Power, Current-Feedback Op Amp	SOT-23-6	2.79	2.24	1.77
OPA683IDBVT	296-12855-2-ND	Very Low-Power, Current-Feedback Op Amp	SOT-23-6		412.25/250	
OPA684ID	OPA684ID-ND	Low Power, Current-Feedback Op Amp	8-SOIC	2.88	2.31	1.82
OPA684IDBVT	OPA684IDBVTCT-ND	Low Power, Current-Feedback Op Amp with Disable	SOT-23-6	3.11	2.49	1.95
OPA684IDBVT	OPA684IDBVTTR-ND	Low Power, Current-Feedback Op Amp with Disable	SOT-23-6		458.75/250	
OPA689P	OPA689P-ND	Wideband, High Gain Voltage Limiting Amp	8-Dip	7.80	6.24	5.20
OPA690ID	OPA690ID-ND	Wideband Voltage-Feedback Op Amp with Disable	8-SOIC	3.42	2.74	2.16
OPA690IDBVT	OPA690IDBVTCT-ND	Wideband Voltage-Feedback Op Amp with Disable	SOT-23-6	3.65	2.92	2.29
OPA690IDBVT	OPA690IDBVTTR-ND	Wideband Voltage-Feedback Op Amp with Disable	SOT-23-6		538.75/250	
OPA691ID	OPA691ID-ND	Wideband Current-Feedback Op Amp with Disable	8-SOIC	3.31	2.65	2.09
OPA691IDBVT	OPA691IDBVTCT-ND	Wideband Current-Feedback Op Amp with Disable	SOT-23-6	3.53	2.83	2.22
OPA691IDBVT	OPA691IDBVTTR-ND	Wideband Current-Feedback Op Amp with Disable	SOT-23-6		522.00/250	
OPA692ID	OPA692ID-ND	Wideband Video Buffer Amp with Disable	8-SOIC	3.11	2.49	1.96
OPA692IDBVT	296-15364-1-ND	Wideband Video Buffer Amp with Disable	SOT-23-6	2.68	2.15	1.69
OPA692IDBVT	296-15364-2-ND	Wideband Video Buffer Amp with Disable	SOT-23-6		395.75/250	
OPA693ID	296-16638-5-ND	Ultra-Wideband, Fixed Gain Video Buffer Amp	8-SOIC	2.79	2.24	1.76
OPA693IDBVT	296-16639-1-ND	Ultra-Wideband, Fixed Gain Video Buffer Amp	SOT-23-6	2.99	2.40	1.89
OPA693IDBVT	296-16639-2-ND	Ultra-Wideband, Fixed Gain Video Buffer Amp	SOT-23-6		442.25/250	
OPA694ID	296-17507-5-ND	Wideband, Low Power, Current Feedback Op Amp	8-SOIC	2.68	2.15	1.69
OPA694IDBVT	296-17503-1-ND	Wideband, Low Power, Current Feedback Op Amp	SOT-23-5	2.88	2.31	1.82
OPA694IDBVT	296-17503-2-ND	Wideband, Low Power, Current Feedback Op Amp	SOT-23-5		425.50/250	
OPA695ID	296-16756-5-ND	Ultra-Wideband, Current-Feedback Op Amp	8-SOIC	2.88	2.31	1.82
OPA695IDBVT	296-16854-1-ND	Ultra-Wideband, Current-Feedback Op Amp	SOT-23-6	3.11	2.49	1.95
OPA695IDBVT	296-16854-2-ND	Ultra-Wideband, Current-Feedback Op Amp	SOT-23-6		458.75/250	
OPA698ID	296-15860-5-ND	Wideband, Unity-Gain Stable Voltage Limiting Amp	8-SOIC	4.07	3.26	2.56
OPA699ID	296-15876-5-ND	Wideband, High-Gain Voltage Limiting Amp	8-SOIC	4.16	3.33	2.62
OPA703NA/250	296-9624-1-ND	CMOS R/R I/O Op Amp	SOT-23-5	2.93	2.34	1.84
OPA703NA/250	296-9624-2-ND	CMOS R/R I/O Op Amp	SOT-23-5		432.25/250	
OPA703PA	OPA703PA-ND	1MHz, CMOS R/R I/O Op Amp	8-Dip	2.93	2.34	1.84
OPA703UA	OPA703UA-ND	1MHz, CMOS R/R I/O Op Amp	8-SOIC	2.93	2.34	1.84
OPA704NA/3K	OPA704NA/3KCT-ND	3MHz, CMOS R/R I/O Op Amp	5-SOP	2.93	2.34	1.84
OPA704NA/3K	OPA704NA/3KTR-ND	3MHz, CMOS R/R I/O Op Amp	5-SOP		4914.00/3,000	
OPA704PA	OPA704PA-ND	3MHz, CMOS R/R I/O Op Amp	8-Dip	2.93	2.34	1.84
OPA704UA	OPA704UA-ND	3MHz, CMOS R/R I/O Op Amp	8-SOIC	2.93	2.34	1.84
OPA705NA/3K	OPA705NA/3KCT-ND	1MHz, CMOS R/R In/Out Op Amp	SOT-23-5	1.50	1.20	.96
OPA705NA/3K	OPA705NA/3KTR-ND	1MHz, CMOS R/R In/Out Op Amp	SOT-23-5		2304.00/3,000	
OPA705PA	OPA705PA-ND	1MHz, CMOS R/R In/Out Op Amp	8-Dip	1.50	1.20	.96
OPA705UA	OPA705UA-ND	1MHz, CMOS R/R In/Out Op Amp	8-SOIC	1.50	1.20	.96
OPA725AID	296-15766-5-ND	20MHz, 12V, Low-Noise, High Speed, CMOS Op Amp	8-SOIC	2.25	1.80	1.37
OPA725AIDBVT	296-15767-1-ND	20MHz, 12V, Low-Noise, High Speed, CMOS Op Amp	SOT-23-5	2.25	1.80	1.37
OPA725AIDBVT	296-15767-2-ND	20MHz, 12V, Low-Noise, High Speed, CMOS Op Amp	SOT-23-5		315.00/250	
OPA726AIDGKT	296-15861-1-ND	12V, CMOS Op Amp	8-MSOP	2.25	1.80	1.37

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OPA735AIDBVT	296-17229-1-ND	Single-Supply, Zero-Drift, CMOS Op Amp	SOT-23-5	2.81	2.25	1.75
OPA735AIDBVT	296-17229-2-ND	Single-Supply, Zero-Drift, CMOS Op Amp	SOT-23-5		415.75/250	
OPA743NA/3K	OPA743NA/3KCT-ND	7MHz, CMOS R/R I/O Op Amp	5-SOP	2.38	1.90	1.43
OPA743NA/3K	OPA743NA/3KTR-ND	7MHz, CMOS R/R I/O Op Amp	5-SOP		3648.00/3,000	
OPA743PA	OPA743PA-ND	7MHz, CMOS R/R I/O Op Amp	8-Dip	2.38	1.90	1.43
OPA743UA	OPA743UA-ND	7MHz, CMOS R/R I/O Op Amp	8-SOIC	2.38	1.90	1.43
OPA820ID	296-17130-5-ND	Unity-Gain, Low-Noise, Volt.-Feedback Op Amp	8-SOIC	2.25	1.80	1.35
OPA820IDBVT	296-17131-1-ND	Unity-Gain, Low-Noise, Volt.-Feedback Op Amp	SOT-23-5	2.25	1.80	1.40
OPA820IDBVT	296-17131-2-ND	Unity-Gain, Low-Noise, Volt.-Feedback Op Amp	SOT-23-5		332.50/250	
OPA830ID	296-17400-5-ND	Low Power, Single-Supply, Wideband Voltage-Feedback Amp	8-SOIC	1.78	1.42	1.07
OPA830IDBVT	296-17401-1-ND	Low Power, Single-Supply, Wideband Voltage-Feedback Amp	SOT-23-5	2.03	1.62	1.22
OPA830IDBVT	296-17401-2-ND	Low Power, Single-Supply, Wideband Voltage-Feedback Amp	SOT-23-5		283.50/250	
OPA832ID	296-17325-5-ND	Fixed-Gain Video Buffer Amp	8-SOIC	1.68	1.34	1.01
OPA832IDBVT	296-17326-1-ND	Fixed-Gain Video Buffer Amp	SOT-23-5	1.90	1.52	1.14
OPA832IDBVT	296-17326-2-ND	Fixed-Gain Video Buffer Amp	SOT-23-5		266.00/250	
OPA842ID	296-14175-5-ND	Wideband, Low Dist. Voltage Feedback Op Amp	8-SOIC	3.31	2.65	2.06
OPA842IDBVT	296-14176-1-ND	Wideband, Low Dist. Voltage Feedback Op Amp	SOT-23-5	3.53	2.83	2.20
OPA842IDBVT	296-14176-2-ND	Wideband, Low Dist. Voltage Feedback Op Amp	SOT-23-5		522.00/250	
OPA843ID	296-14177-5-ND	Wideband, Low Dist. Voltage Feedback Op Amp	8-SOIC	3.42	2.74	2.13
OPA843IDBVT	296-14178-1-ND	Wideband, Low Dist. Voltage Feedback Op Amp	SOT-23-5	3.42	2.74	2.13
OPA843IDBVT	296-14178-2-ND	Wideband, Low Dist. Voltage Feedback Op Amp	SOT-23-5		538.75/250	
OPA846ID	296-14775-5-ND	Wideband, Low-Noise, Volt.-Feedback Op Amp	8-SOIC	3.65	2.92	2.27
OPA846IDBVT	296-14776-1-ND	Wideband, Low-Noise, Volt.-Feedback Op Amp	SOT23-5	3.85	3.08	2.40
OPA846IDBVT	296-14776-2-ND	Wideband, Low-Noise, Volt.-Feedback Op Amp	SOT23-5		568.50/250	
OPA847ID	296-15171-5-ND	Wideband, Ultra-Low Noise, Volt.-Feedback Op Amp	8-SOIC	4.50	3.60	2.80
OPA847IDBVT	296-15172-1-ND	Wideband, Ultra-Low Noise, Volt.-Feedback Op Amp	SOT-23-6	4.73	3.78	2.94
OPA847IDBVT	296-15172-2-ND	Wideband, Ultra-Low Noise, Volt.-Feedback Op Amp	SOT-23-6		698.25/250	
OPA1013CN8	OPA1013CN8-ND	Precision Single-Supply, Dual Op Amp	8-Dip	5.51	4.41	3.43
OPA1013DN8	OPA1013DN8-ND	Precision Single-Supply, Dual Op Amp	8-Dip	4.50	3.60	2.80
OPA1632D	296-16679-5-ND	High-Perf., Fully-Diff. Audio Op Amp	8-SOIC	3.94	3.15	2.45
OPA1632DGN	296-17008-ND	High Perf., Fully-Diff. Audio Op Amp	8-MSOP	3.94	3.15	2.45
OPA2107AU	OPA2107AU-ND	Dual, Difet® Op Amp	8-SOIC	12.25	11.03	9.78
OPA2111KP	296-12983-5-ND	Dual LN Precision Difet® Op Amp	8-Dip	12.83	11.55	10.25
OPA2130UA	OPA2130UA-ND	Dual, LP, Precision, FET-Input Op Amp	8-SOIC	5.06	4.05	3.15
OPA2131UA	OPA2131UA-ND	Dual, GP, FET-Input Op Amp	8-SOIC	4.05	3.24	2.52
OPA2131UJ	OPA2131UJ-ND	Dual, GP, FET-Input Op Amp	8-SOIC	3.04	2.43	1.89
OPA2132P	OPA2132P-ND	High Speed, FET Input Op Amp	8-Dip	8.41	7.58	6.72
OPA2132PA	OPA2132PA-ND	High Speed, FET Input Op Amp	8-Dip	5.40	4.32	3.36
OPA2132U	OPA2132U-ND	High Speed, FET Input Op Amp	8-SOIC	8.41	7.58	6.72
OPA2132UA	OPA2132UA-ND	High Speed, FET Input Op Amp	8-SOIC	5.40	4.32	3.36
OPA2134PA	OPA2134PA-ND	Dual, High Performance Audio Op Amp	8-Dip	2.63	2.10	1.58
OPA2134UA	OPA2134UA-ND	Dual, High Performance Audio Op Amp	8-SOIC	2.36	1.89	1.47
OPA2137E/250	OPA2137ECT-ND	Dual, Low Cost FET-Input Op Amp	8-MSOP	2.36	1.89	1.47
OPA2137E/250	OPA2137ETR-ND	Dual, Low Cost FET-Input Op Amp	8-MSOP		349.25/250	
OPA2137EA/250	OPA2137EACT-ND	Dual, Low Cost FET-Input Op Amp	8-MSOP	1.75	1.40	1.05
OPA2137EA/250	OPA2137EATR-ND	Dual, Low Cost FET-Input Op Amp	8-MSOP		245.00/250	
OPA2137P	OPA2137P-ND	Dual, Low Cost FET-Input Op Amp	8-Dip	2.36	1.89	1.47
OPA2137PA	OPA2137PA-ND	Dual, Low Cost FET-Input Op Amp	8-Dip	1.75	1.40	1.05
OPA2137U	OPA2137U-ND	Dual, Low Cost FET-Input Op Amp	8-SOIC	2.36	1.89	1.47
OPA2137UA	OPA2137UA-ND	Dual, Low Cost FET-Input Op Amp	8-SOIC	1.75	1.40	1.05
OPA2227P	OPA2227P-ND	Dual, High Precision Op Amp	8-Dip	7.60	6.08	5.13
OPA2227PA	OPA2227PA-ND	Dual, High Precision Op Amp	8-Dip	3.96	3.17	2.47
OPA2227U	OPA2227U-ND	Dual, High Precision Op Amp	8-SOIC	7.60	6.08	5.13
OPA2227UA	OPA2227UA-ND	Dual, High Precision Op Amp	8-SOIC	3.96	3.17	2.47
OPA2228P	OPA2228P-ND	Dual, High Precision Op Amp	8-Dip	7.60	6.08	5.13
OPA2228PA	OPA2228PA-ND	Dual, High Precision Op Amp	8-Dip	3.96	3.17	2.47
OPA2228U	OPA2228U-ND	Dual, High Precision Op Amp	8-SOIC	7.60	6.08	5.13
OPA2228UA	OPA2228UA-ND	Dual, High Precision Op Amp	8-SOIC	3.96	3.17	2.47
OPA2234U	OPA2234U-ND	Dual, Low Power, Precision, Single-Supply Op Amp	8-SOIC	4.93	3.95	3.07
OPA2234UA	OPA2234UA-ND	Dual, Low Power, Precision, Single-Supply Op Amp	8-SOIC	4.07	3.26	2.54
OPA2237EA/250	OPA2237EACT-ND	Dual, Single-Supply Op Amp	8-MSOP	2.25	1.80	1.35
OPA2237EA/250	OPA2237EATR-ND	Dual, Single-Supply Op Amp	8-MSOP		315.00/250	
OPA2237UA	OPA2237UA-ND	Dual, Single-Supply Op Amp	8-SOIC	2.25	1.80	1.35
OPA2241PA	OPA2241PA-ND	Dual Single-Supply Micropower Op Amp	8-Dip	4.28	3.42	2.66
OPA2241UA	OPA2241UA-ND	Dual Single-Supply Micropower Op Amp	8-SOIC	4.28	3.42	2.66
OPA2244EA/250	OPA2244EACT-ND	Single-Supply Op Amp	8-MSOP	2.15	1.72	1.29
OPA2244EA/250	OPA2244EATR-ND	Single-Supply Op Amp	8-MSOP		301.00/250	
OPA2244PA	OPA2244PA-ND	Single-Supply Op Amp	8-Dip	2.15	1.72	1.29
OPA2244UA	OPA2244UA-ND	Single-Supply Op Amp	8-SOIC	2.15	1.72	1.29
OPA2251PA	OPA2251PA-ND	Dual Single-Supply Micropower Op Amp	8-Dip	4.39	3.51	2.73
OPA2251UA	OPA2251UA-ND	Dual Single-Supply Micropower Op Amp	8-SOIC	4.39	3.51	2.73
OPA2277P	OPA2277P-ND	Dual, High Precision Op Amp	8-Dip	6.84	5.48	4.62
OPA2277PA	OPA2277PA-ND	Dual, High Precision Op Amp	8-Dip	3.53	2.83	2.20
OPA2277U	OPA2277U-ND	Dual, High Precision Op Amp	8-SOIC	6.84	5.48	4.62
OPA2277UA	OPA2277UA-ND	Dual, High Precision Op Amp	8-SOIC	3.53	2.83	2.20
OPA2334AIDGST	296-13459-1-ND	Dual, Single Supply CMOS Zero Drift Op Amp with SD	10-MSOP	3.60	2.88	2.24
OPA2334AIDGST	296-13459-2-ND	Dual, Single Supply CMOS Zero Drift Op Amp with SD	10-MSOP		532.00/250	
OPA2335AIDGKT	296-13461-1-ND	Dual, Single Supply CMOS Zero Drift Op Amp	8-MSOP	3.60	2.88	2.24
OPA2335AIDGKT	296-13461-2-ND	Dual, Single Supply CMOS Zero Drift Op Amp	8-MSOP		532.00/250	
OPA2335AIDR	296-13462-1-ND	Dual, Single Supply CMOS Zero Drift Op Amp	8-SOIC	3.60	2.88	2.24
OPA2335AIDR	296-13462-2-ND	Dual, Single Supply CMOS Zero Drift Op Amp	8-SOIC		5040.00/2,500	
OPA2336E/250	OPA2336ECT-ND	Dual, Micropower Op Amp	8-MSOP	3.71	2.97	2.31
OPA2336E/250	OPA2336ETR-ND	Dual, Micropower Op Amp	8-MSOP		548.75/250	
OPA2336EA/250	OPA2336EACT-ND	Dual, Micropower Op Amp	8-MSOP	2.48	1.98	1.54
OPA2336EA/250	OPA2336EATR-ND	Dual, Micropower Op Amp	8-MSOP		365.75/250	
OPA2336P	OPA2336P-ND	Dual, Micropower Op Amp	8-Dip	3.71	2.97	2.31
OPA2336PA	OPA2336PA-ND	Dual, Micropower Op Amp	8-Dip	2.48	1.98	1.54
OPA2336U	OPA2336U-ND	Dual, Micropower Op Amp	8-SOIC	3.71	2.97	2.31
OPA2336UA	OPA2336UA-ND	Dual, Micropower Op Amp	8-SOIC	2.48	1.98	1.54
OPA2337EA/250	OPA2337EACT-ND	Dual, Single-Supply, MicroSize Op Amp	SOT-23-8	1.50	1.20	.90
OPA2337EA/250	OPA2337EATR-ND	Dual, Single-Supply, MicroSize Op Amp	SOT-23-8		210.00/250	
OPA2337PA	OPA2337PA-ND	Dual, Single-Supply, MicroSize Op Amp	8-Dip	1.50	1.20	.90
OPA2337UA	OPA2337UA-ND	Dual, Single-Supply, MicroSize Op Amp	8-SOIC	1.50	1.20	.90
OPA2338EA/250	OPA2338EACT-ND	Dual, OPA338 Op Amp	SOT-23-8	1.50	1.20	.90
OPA2338EA/250	OPA2338EATR-ND	Dual, OPA338 Op Amp	SOT-23-8		210.00/250	
OPA2338UA	OPA2338UA-ND	Dual, OPA338 Op Amp	8-SOIC	1.50	1.20	.90
OPA2340EA/250	OPA2340EACT-ND	Dual, Single-Supply, R/R Op Amp	8-MSOP	2.79	2.24	1.74
OPA2340EA/250	OPA2340EATR-ND	Dual, Single-Supply, R/R Op Amp	8-MSOP		412.25/250	
OPA2340PA	OPA2340PA-ND	Dual, Single-Supply, R/R Op Amp	8-Dip	2.79	2.24	1.74
OPA2340UA	OPA2340UA-ND	Dual, Single-Supply, R/R Op Amp	8-SOIC	2.79	2.24	1.74
OPA2341DGSA/250	OPA2341DGSACT-ND	Dual, Single-Supply, R/R Op Amp with Shutdown	10-MSOP	2.57	2.06	1.60
OPA2341DGSA/250	OPA2341DGSATR-ND	Dual, Single-Supply, R/R Op Amp with Shutdown	10-MSOP		379.00/250	
OPA2342EA/250	OPA2342EACT-ND	Dual, Micropower R/R Op Amp	8-MSOP	2.38	1.90	1.43
OPA2342EA/250	OPA2342EATR-ND	Dual, Micropower R/R Op Amp	8-MSOP		332.50/250	
OPA2342UA	OPA2342UA-ND	Dual, Micropower R/R Op Amp	8-SOIC	2.38	1.90	1.43
OPA2343EA/250	OPA2343EACT-ND	Rail-to-Rail Op Amp	8-MSOP	2.15	1.72	1.29
OPA2343EA/250	OPA2343EATR-ND	Rail-to-Rail Op Amp	8-MSOP		301.00/250	
OPA2343UA	OPA2343UA-ND	Rail-to-Rail Op Amp	8-SOIC	2.15	1.72	1.29
OPA2344EA/250	OPA2344EACT-ND	Rail-to-Rail Op Amp	8-MSOP	2.57	2.06	1.60
OPA2344EA/250	OPA2344EATR-ND	Rail-to-Rail Op Amp	8-MSOP		379.00/250	
OPA2344PA	OPA2344PA-ND	Rail-to-Rail Op Amp	8-Dip	2.57	2.06	1.60
OPA2344UA	OPA2344UA-ND	Rail-to-Rail Op Amp	8-SOIC	2.57	2.06	1.60
OPA2345EA/250	OPA2345EACT-ND	Rail-to-Rail Op Amp	8-MSOP	2.57	2.06	1.60
OPA2345EA/250	OPA2345EATR-ND	Rail-to-Rail Op Amp	8-MSOP		379.00/250	
OPA2345UA	OPA2345UA-ND	Rail-to-Rail Op Amp	8-SOIC	2.57	2.06	1.60
OPA2347EA/250	OPA2347EACT-ND	Rail-to-Rail Op Amp	SOT-23-8	1.55	1.24	.93
OPA2347EA/250	OPA2347EATR-ND	Rail-to-Rail Op Amp	SOT-23-8		217.00/250	
OPA2347UA	OPA2347UA-ND	Rail-to-Rail Op Amp	8-SOIC	1.55	1.24	.93
OPA2347UA/2K5	OPA2347UATR-ND	Rail-to-Rail Op Amp	8-SOIC		1985.00/2,500	
OPA2347YEDT	296-15210-1-ND	Rail-to-Rail Op Amp	8-WCSP	1.90	1.52	1.14
OPA2347YEDT	296-15210-2-ND	Rail-to-Rail Op Amp	8-WCSP		266.00/250	
OPA2348AID	296-15363-5-ND	Dual, High Speed, CMOS, R/R, In/Out Op Amp	8-SOIC	1.68	1.34	1.01
OPA2348AIDCNT	296-13008-1-ND	Dual, High Speed, CMOS, R/R, In/Out Op Amp	SOT-23-8	1.68	1.34	1.01
OPA2348AIDCNT	296-13008-2-ND	Dual, High Speed, CMOS, R/R, In/Out Op Amp	SOT-23-8		234.50/250	
OPA2349EA/250	OPA2349EACT-ND	Micropower Op Amp	SOT-23-8	2.38	1.90	1.43
OPA2349EA/250	OPA2349EATR-ND	Micropower Op Amp	SOT-23-8		332.50/250	
OPA2349UA	OPA2349UA-ND	Micropower Op Amp	8-SOIC	2.38	1.90	1.43
OPA2350EA/250	OPA2350EACT-ND	Dual, HS CMOS Op Amp, 35MHz	8-MSOP	4.59	3.68	2.86
OPA2350EA/250	OPA2350EATR-ND	Dual, HS CMOS Op Amp, 35MHz	8-MSOP		678.25/250	
OPA2350PA	OPA2350PA-ND	Dual, HS CMOS Op Amp, 35MHz	8-Dip	4.59	3.68	2.86
OPA2350UA	OPA2350UA-ND	Dual, HS CMOS Op Amp, 35MHz	8-SOIC	4.59	3.68	2.86
OPA2353EA/250	OPA2353EACT-ND	Low Cost, Dual, High-Speed CMOS Op Amp, 35MHz	8-MSOP	3.65	2.92	2.27
OPA2353EA/250	OPA2353EATR-ND	Low Cost, Dual, High-Speed CMOS Op Amp, 35MHz	8-MSOP		538.75/250	
OPA2353UA	OPA2353UA-ND	Low Cost, Dual, High-Speed CMOS Op Amp, 35MHz	8-SOIC	3.65	2.92	2.27
OPA2354AIDDA	296-13784-5-ND	High Speed 250MHz, R/R, I/O, CMOS Op Amp	8-SOIC	2.57	2.06	1.60
OPA2354AIDGKR	296-12642-1-ND	High Speed 250MHz, R/R, I/O, CMOS Op Amp	8-MSOP	2.57	2.06	1.60
OPA2354AIDGKR	296-12642-2-ND	High Speed 250MHz, R/R, I/O, CMOS Op Amp	8-MSOP		3590.00/2,500	
OPA2355DGSA/250	296-12132-1-ND	High Speed Video Op Amp	10-MSOP	4.25	3.41	2.65
OPA2355DGSA/250	296-12132-2-ND	High Speed Video Op Amp	10-MSOP		475.50/250	
OPA2356AID	296-12406-5-ND	Dual, HS CMOS Op Amp	8-SOIC	3.22	2.58	2.01
OPA2357AIDGST	OPA2357AIDGSTCT-ND	R/R, I/O, CMOS Op Amp with SD	10-MSOP	2.57	2.06	1.60
OPA2357AIDGST	OPA2357AIDGSTTR-ND	R/R, I/O, CMOS Op Amp with SD	10-MSOP		379.00/250	
OPA2363AIDGST	296-13874-1-ND	7MHz, Single Supply R/R Op Amp	10-MSOP	2.38	1.90	1.43
OPA2363AIDGST	296-13874-2-ND	7MHz, Single Supply R/R Op Amp	10-MSOP		332.50/250	
OPA2363IDGST	296-13875-1-ND	7MHz, Single Supply R/R Op Amp	10-MSOP	3.04	2.43	1.89

(Continued)

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TL034ACDR	296-14981-2-ND	Quad Enhanced JFET Low Power Low Offset Op Amp	14-SOIC		5197.50/2,500	
TL034AID	296-7153-5-ND	Quad Enhanced JFET Low Power Low Offset Op Amp	14-SOIC	4.05	3.24	2.52
TL034AIDR	296-7153-1-ND	Quad Enhanced JFET Low Power Low Offset Op Amp	14-SOIC	4.05	3.24	2.52
TL034AIDR	296-7153-2-ND	Quad Enhanced JFET Low Power Low Offset Op Amp	14-SOIC		5670.00/2,500	
TL034CD	296-7154-5-ND	Quad Enhanced JFET Low Power Low Offset Op Amp	14-SOIC	1.25	1.00	.75
TL034CDR	296-14982-1-ND	Quad Enhanced JFET Low Power Low Offset Op Amp	14-SOIC	1.25	1.00	.75
TL034CDR	296-14982-2-ND	Quad Enhanced JFET Low Power Low Offset Op Amp	14-SOIC		1600.00/2,500	
TL034CN	296-7155-5-ND	Quad Enhanced JFET Low Power Low Offset Op Amp	14-Dip	1.25	1.00	.75
TL034CNSR	296-13346-1-ND	Quad Enhanced JFET Low Power Low Offset Op Amp	14-SOP	1.25	1.00	.75
TL034CNSR	296-13346-2-ND	Quad Enhanced JFET Low Power Low Offset Op Amp	14-SOP		1300.00/2,000	
TL034ID	296-7157-5-ND	Quad Enhanced JFET Low Power Low Offset Op Amp	14-SOIC	1.25	1.00	.75
TL051CD	296-7159-5-ND	Precision Enhanced JFET Op Amp	8-SOIC	1.26	1.05	.84
TL052ACD	296-7160-5-ND	Dual Enhanced JFET Low Offset Op Amp	8-SOIC	1.63	1.30	.98
TL052ACDR	296-14983-1-ND	Dual Enhanced JFET Low Offset Op Amp	8-SOIC	1.63	1.30	.98
TL052ACDR	296-14983-2-ND	Dual Enhanced JFET Low Offset Op Amp	8-SOIC		2080.00/2,500	
TL052ACP	296-7161-5-ND	Dual Enhanced JFET Low Offset Op Amp	8-Dip	1.63	1.30	.98
TL052CD	296-7162-5-ND	Dual Enhanced JFET Low Offset Op Amp	8-SOIC	1.65	1.32	.99
TL052CP	296-7163-5-ND	Dual Enhanced JFET Low Offset Op Amp	8-Dip	1.65	1.32	.99
TL052CPSR	296-13347-1-ND	Dual Enhanced JFET Low Offset Op Amp	8-SOP	1.65	1.32	.99
TL052CPSR	296-13347-2-ND	Dual Enhanced JFET Low Offset Op Amp	8-SOP		1716.00/2,000	
TL052ID	296-7164-5-ND	Dual Enhanced JFET Low Offset Op Amp	8-SOIC	1.75	1.40	1.05
TL052IDR	296-14984-1-ND	Dual Enhanced JFET Low Offset Op Amp	8-SOIC	1.75	1.40	1.05
TL052IDR	296-14984-2-ND	Dual Enhanced JFET Low Offset Op Amp	8-SOIC		2240.00/2,500	
TL052IP	296-17224-5-ND	Dual Enhanced JFET Low Offset Op Amp	8-Dip	1.75	1.40	1.05
TL054ACD	296-7165-5-ND	Quad Enhanced JFET Low Offset Op Amp	14-SOIC	5.51	4.41	3.43
TL054ACN	296-7166-5-ND	Quad Enhanced JFET Low Offset Op Amp	14-Dip	5.51	4.41	3.43
TL054AIDR	296-7167-1-ND	Quad Enhanced JFET Low Offset Op Amp	14-SOIC	5.00	4.00	3.38
TL054AIDR	296-7167-2-ND	Quad Enhanced JFET Low Offset Op Amp	14-SOIC		7750.00/2,500	
TL054CD	296-7168-5-ND	Quad Enhanced JFET Low Offset Op Amp	14-SOIC	1.80	1.44	1.08
TL054CN	296-7169-5-ND	Quad Enhanced JFET Low Offset Op Amp	14-Dip	1.80	1.44	1.08
TL054CNSR	296-13348-1-ND	Quad Enhanced JFET Low Offset Op Amp	14-SOP	1.80	1.44	1.08
TL054CNSR	296-13348-2-ND	Quad Enhanced JFET Low Offset Op Amp	14-SOP		1872.00/2,000	
TL054IN	296-12940-5-ND	Quad Enhanced JFET Low Offset Op Amp	14-Dip	2.03	1.62	1.22
TL061ACD	296-7171-5-ND	Low Power JFET Op Amp	8-SOIC	.75	.63	.50
TL061ACDR	296-14985-1-ND	Low Power JFET Op Amp	8-SOIC	.75	.63	.50
TL061ACDR	296-14985-2-ND	Low Power JFET Op Amp	8-SOIC		812.50/2,500	
TL061ACP	296-7172-5-ND	Low Power JFET Op Amp	8-Dip	.75	.63	.50
TL061CD	296-12941-5-ND	Low Power JFET Op Amp	8-SOIC	.56	.42	.32
TL061CP	296-12942-5-ND	Low Power JFET Op Amp	8-Dip	.56	.42	.32
TL061ID	296-7173-5-ND	Low Power JFET Op Amp	8-SOIC	.96	.72	.54
TL061IDR	296-14986-1-ND	Low Power JFET Op Amp	8-SOIC	.96	.72	.54
TL061IDR	296-14986-2-ND	Low Power JFET Op Amp	8-SOIC		780.00/2,500	
TL061IP	296-7174-5-ND	Low Power JFET Op Amp	8-Dip	.96	.72	.54
TL062ACD	296-7175-5-ND	Dual Low Power JFET Op Amp	8-SOIC	.72	.54	.41
TL062ACDR	296-14987-1-ND	Dual Low Power JFET Op Amp	8-SOIC	.72	.54	.41
TL062ACDR	296-14987-2-ND	Dual Low Power JFET Op Amp	8-SOIC		585.00/2,500	
TL062ACP	296-12943-5-ND	Dual Low Power JFET Op Amp	8-Dip	.72	.54	.41
TL062BCD	296-12944-5-ND	Dual Low Power JFET Op Amp	8-SOIC	.84	.70	.56
TL062BCDR	296-14988-1-ND	Dual Low Power JFET Op Amp	8-SOIC	.84	.70	.56
TL062BCDR	296-14988-2-ND	Dual Low Power JFET Op Amp	8-SOIC		910.00/2,500	
TL062BCP	296-7176-5-ND	Dual Low Power JFET Op Amp	8-Dip	.84	.70	.56
TL062CD	296-1281-5-ND	Dual Low Power JFET Op Amp	8-SOIC	.64	.48	.36
TL062CDR	296-1281-1-ND	Dual Low Power JFET Op Amp	8-SOIC	.64	.48	.36
TL062CDR	296-1281-2-ND	Dual Low Power JFET Op Amp	8-SOIC		520.00/2,500	
TL062CP	296-1771-5-ND	Dual Low Power JFET Op Amp	8-Dip	.64	.48	.36
TL062CPWR	296-7178-1-ND	Dual Low Power JFET Op Amp	8-TSSOP	.72	.54	.41
TL062CPWR	296-7178-2-ND	Dual Low Power JFET Op Amp	8-TSSOP		478.00/2,000	
TL062ID	296-7179-5-ND	Dual Low Power JFET Op Amp	8-SOIC	.64	.48	.36
TL062IDR	296-15072-1-ND	Dual Low Power JFET Op Amp	8-SOIC	.64	.48	.36
TL062IDR	296-15072-2-ND	Dual Low Power JFET Op Amp	8-SOIC		520.00/2,500	
TL062IP	296-12945-5-ND	Dual Low Power JFET Op Amp	8-Dip	.64	.48	.36
TL062IPWR	296-17449-1-ND	Dual Low Power JFET Op Amp **NEW!**	8-TSSOP	.64	.48	.36
TL062IPWR	296-17449-2-ND	Dual Low Power JFET Op Amp **NEW!**	8-TSSOP		426.00/2,000	
TL064ACD	296-7180-5-ND	Quad Low Power JFET Op Amp	14-SOIC	.88	.66	.50
TL064ACDR	296-14989-1-ND	Quad Low Power JFET Op Amp	14-SOIC	.88	.66	.50
TL064ACDR	296-14989-2-ND	Quad Low Power JFET Op Amp	14-SOIC		715.00/2,500	
TL064ACN	296-13014-5-ND	Quad Low Power JFET Op Amp	14-Dip	.88	.66	.50
TL064BCD	296-7181-5-ND	Quad Low Power JFET Op Amp	14-SOIC	.84	.70	.56
TL064BCDR	296-14990-1-ND	Quad Low Power JFET Op Amp	8-SOIC	.84	.70	.56
TL064BCDR	296-14990-2-ND	Quad Low Power JFET Op Amp	8-SOIC		910.00/2,500	
TL064BCN	296-12946-5-ND	Quad Low Power JFET Op Amp	14-Dip	.84	.70	.56

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	10
TL064CD	296-1772-5-ND	Quad Low Power JFET Op Amp	14-SOIC	.76	.57	.4
TL064CDR	296-14991-1-ND	Quad Low Power JFET Op Amp	14-SOIC	.76	.57	.4
TL064CDR	296-14991-2-ND	Quad Low Power JFET Op Amp	14-SOIC		617.50/2,500	
TL064CN	296-1773-5-ND	Quad Low Power JFET Op Amp	14-Dip	.76	.57	.4
TL064CPWR	296-7182-1-ND	Quad Low Power JFET Op Amp	14-TSSOP	.84	.63	.4
TL064CPWR	296-7182-2-ND	Quad Low Power JFET Op Amp	14-TSSOP		558.00/2,000	
TL064ID	296-7183-5-ND	Quad Low Power JFET Op Amp	14-SOIC	.76	.57	.4
TL064IDR	296-14992-1-ND	Quad Low Power JFET Op Amp	14-SOIC	.76	.57	.4
TL064IDR	296-14992-2-ND	Quad Low Power JFET Op Amp	14-SOIC		617.50/2,500	
TL064IN	296-7184-5-ND	Quad Low Power JFET Op Amp	14-Dip	.76	.57	.4
TL071ACDR	296-14993-1-ND	Low Noise JFET Op Amp	8-SOIC	.72	.54	.4
TL071ACDR	296-14993-2-ND	Low Noise JFET Op Amp	8-SOIC		585.00/2,500	
TL071ACP	296-7185-5-ND	Low Noise JFET Op Amp	8-Dip	.72	.54	.4
TL071CD	296-12947-5-ND	Low Noise JFET Op Amp	8-SOIC	.48	.36	.2
TL071CDR	296-14994-1-ND	Low Noise JFET Op Amp	8-SOIC	.48	.36	.2
TL071CDR	296-14994-2-ND	Low Noise JFET Op Amp	8-SOIC		390.00/2,500	
TL071CP	296-7186-5-ND	Low Noise JFET Op Amp	8-Dip	.48	.36	.2
TL071ID	296-7187-5-ND	Low Noise JFET Op Amp	8-SOIC	.76	.57	.4
TL071IP	296-7188-5-ND	Low Noise JFET Op Amp	8-Dip	.76	.57	.4
TL072ACD	296-7189-5-ND	Dual Low Noise JFET Op Amp	8-SOIC	.76	.57	.4
TL072ACDR	296-14995-1-ND	Dual Low Noise JFET Op Amp	8-SOIC	.76	.57	.4
TL072ACDR	296-14995-2-ND	Dual Low Noise JFET Op Amp	8-SOIC		617.50/2,500	
TL072ACP	296-7190-5-ND	Low Noise JFET Op Amp	8-Dip	.76	.57	.4
TL072BCD	296-7191-5-ND	Dual Low Noise JFET Op Amp	8-SOIC	.84	.70	.5
TL072BCDR	296-14996-1-ND	Dual Low Noise JFET Op Amp	8-SOIC	.84	.70	.5
TL072BCDR	296-14996-2-ND	Dual Low Noise JFET Op Amp	8-SOIC		910.00/2,500	
TL072BCP	296-7192-5-ND	Low Noise JFET Op Amp	8-Dip	.84	.70	.5
TL072CD	296-1282-5-ND	Dual JFET-Input Op Amp	8-SOIC	.64	.48	.3
TL072CDR	296-1282-1-ND	Dual JFET-Input Op Amp	8-SOIC	.64	.48	.3
TL072CDR	296-1282-2-ND	Dual JFET-Input Op Amp	8-SOIC		520.00/2,500	
TL072CP	296-1775-5-ND	Dual JFET-Input Op Amp	8-Dip	.64	.48	.3
TL072CPWR	296-7193-1-ND	Dual Low Noise JFET Op Amp	8-TSSOP	.72	.54	.4
TL072CPWR	296-7193-2-ND	Dual Low Noise JFET Op Amp	8-TSSOP		478.00/2,000	
TL072ID	296-7194-5-ND	Dual Low Noise JFET Op Amp	8-SOIC	.64	.48	.3
TL072IDR	296-7194-1-ND	Dual Low Noise JFET Op Amp	8-SOIC	.64	.48	.3
TL072IDR	296-7194-2-ND	Dual Low Noise JFET Op Amp	8-SOIC		520.00/2,500	
TL072IP	296-14997-5-ND	Dual Low Noise JFET Op Amp	8-Dip	.64	.48	.3
TL074ACD	296-7195-5-ND	Quad Low Noise JFET Op Amp	14-SOIC	.88	.66	.4
TL074ACDR	296-14998-1-ND	Quad Low Noise JFET Op Amp	14-SOIC	.88	.66	.5
TL074ACDR	296-14998-2-ND	Quad Low Noise JFET Op Amp	14-SOIC		715.00/2,500	
TL074ACN	296-12948-5-ND	Quad Low Noise JFET Op Amp	14-Dip	.88	.66	.5
TL074BCD	296-7196-5-ND	Quad Low Noise JFET Op Amp	14-SOIC	.84	.70	.5
TL074BCDR	296-14999-1-ND	Quad Low Noise JFET Op Amp	14-SOIC	.84	.70	.5
TL074BCDR	296-14999-2-ND	Quad Low Noise JFET Op Amp	14-SOIC		910.00/2,500	
TL074BCN	296-7197-5-ND	Quad Low Noise JFET Op Amp	14-Dip	.84	.70	.5
TL074CD	296-1283-5-ND	Quad Low Noise JFET Op Amp	14-SOIC	.76	.57	.4
TL074CDR	296-1283-1-ND	Quad Low Noise JFET Op Amp	14-SOIC	.76	.57	.4
TL074CDR	296-1283-2-ND	Quad Low Noise JFET Op Amp	14-SOIC		617.50/2,500	
TL074CN	296-1777-5-ND	Quad Low Noise JFET Op Amp	14-Dip	.76	.57	.4
TL074CPWR	296-7198-1-ND	Quad Low Noise JFET Op Amp	14-TSSOP	.76	.57	.4
TL074CPWR	296-7198-2-ND	Quad Low Noise JFET Op Amp	14-TSSOP		506.00/2,000	
TL074ID	296-7199-5-ND	Quad Low Noise JFET Op Amp	14-SOIC	.80	.60	.4
TL074IDR	296-15000-1-ND	Quad Low Noise JFET Op Amp	14-SOIC	.80	.60	.4
TL074IDR	296-15000-2-ND	Quad Low Noise JFET Op Amp	14-SOIC		650.00/2,500	
TL074IN	296-7200-5-ND	Quad Low Noise JFET Op Amp	14-Dip	.80	.60	.4
TL080CP	296-10127-5-ND	JFET Op Amp	8-Dip	.75	.63	.5
TL081ACD	296-7201-5-ND	JFET Op Amp	8-SOIC	.80	.60	.4
TL081ACP	296-7202-5-ND	JFET Op Amp	8-Dip	.80	.60	.4
TL081CD	296-12949-5-ND	JFET Op Amp	8-SOIC	.48	.36	.2
TL081CDR	296-15001-1-ND	JFET Op Amp	8-SOIC	.48	.36	.2
TL081CDR	296-15001-2-ND	JFET Op Amp	8-SOIC		390.00/2,500	
TL081CP	296-7203-5-ND	JFET Op Amp	8-Dip	.48	.36	.2
TL081ID	296-7204-5-ND	JFET Op Amp	8-SOIC	.80	.60	.4
TL081IDR	296-15002-1-ND	JFET Op Amp	8-SOIC	.80	.60	.4
TL081IDR	296-15002-2-ND	JFET Op Amp	8-SOIC		650.00/2,500	
TL082ACD	296-7205-5-ND	Dual JFET-Input Op Amp	8-SOIC	.72	.54	.4
TL082ACDR	296-15003-1-ND	Dual JFET-Input Op Amp	8-SOIC	.72	.54	.4
TL082ACDR	296-15003-2-ND	Dual JFET-Input Op Amp	8-SOIC		585.00/2,500	
TL082ACP	296-1778-5-ND	Dual JFET-Input Op Amp	8-Dip	.72	.54	.4
TL082BCD	296-7206-5-ND	Dual JFET-Input Op Amp	8-SOIC	.84	.70	.5
TL082BCDR	296-15004-1-ND	Dual JFET-Input Op Amp	8-SOIC	.84	.70	.5
TL082BCDR	296-15004-2-ND	Dual JFET-Input Op Amp	8-SOIC		910.00/2,500	
TL082BCP	296-7207-5-ND	Dual JFET-Input Op Amp	8-Dip	.84	.70	.5
TL082CD	296-1284-5-ND	Dual JFET-Input Op Amp	8-SOIC	.64	.48	.3
TL082CDR	296-1284-1-ND	Dual JFET-Input Op Amp	8-SOIC	.64	.48	.3
TL082CDR	296-1284-2-ND	Dual JFET-Input Op Amp	8-SOIC		520.00/2,500	
TL082CP	296-1780-5-ND	Dual JFET-Input Op Amp	8-Dip	.64	.48	.3
TL082CPWR	296-7208-1-ND	Dual JFET-Input Op Amp	8-TSSOP	.72	.54	.4
TL082CPWR	296-7208-2-ND	Dual JFET-Input Op Amp	8-TSSOP		478.00/2,000	
TL082ID	296-7209-5-ND	Dual JFET-Input Op Amp	8-SOIC	.64	.48	.3
TL082IDR	296-15005-1-ND	Dual JFET-Input Op Amp	8-SOIC	.64	.48	.3
TL082IDR	296-15005-2-ND	Dual JFET-Input Op Amp	8-SOIC		520.00/2,500	
TL082IP	296-1781-5-ND	Dual JFET-Input Op Amp	8-Dip	.64	.48	.3
TL082IPWR	296-17450-1-ND	Dual JFET-Input Op Amp **NEW!**	8-TSSOP	.64	.48	.3
TL082IPWR	296-17450-2-ND	Dual JFET-Input Op Amp **NEW!**	8-TSSOP		426.00/2,000	
TL084ACD	296-7210-5-ND	Quad JFET-Input Op Amp	14-SOIC	.88	.66	.5
TL084ACDR	296-15006-1-ND	Quad JFET-Input Op Amp	8-SOIC	.88	.66	.5
TL084ACDR	296-15006-2-ND	Quad JFET-Input Op Amp	8-SOIC		715.00/2,500	
TL084ACN	296-1782-5-ND	Quad JFET-Input Op Amp	14-Dip	.88	.66	.5
TL084BCD	296-12950-5-ND	Quad JFET-Input Op Amp	14-SOIC	.96	.80	.6
TL084BCDR	296-15007-1-ND	Quad JFET-Input Op Amp	8-SOIC	.96	.80	.6
TL084BCDR	296-15007-2-ND	Quad JFET-Input Op Amp	8-SOIC		1040.00/2,500	
TL084BCN	296-12951-5-ND	Quad JFET-Input Op Amp	14-Dip	.96	.80	.6
TL084CD	296-1285-5-ND	Quad JFET-Input Op Amp	14-SOIC	.76	.57	.4
TL084CDR	296-1285-1-ND	Quad JFET-Input Op Amp	14-SOIC	.76	.57	.4
TL084CDR	296-1285-2-ND	Quad JFET-Input Op Amp	14-SOIC		617.50/2,500	
TL084CN	296-1784-5-ND	Quad JFET-Input Op Amp	14-Dip	.76	.57	.4
TL084ACNSR	296-13349-1-ND	Quad JFET-Input Op Amp	14-SOP	.88	.66	.5
TL084ACNSR	296-13349-2-ND	Quad JFET-Input Op Amp	14-SOP		586.00/2,000	
TL084CNSR	296-7211-1-ND	Quad JFET-Input Op Amp	14-SOP	.76	.57	.4

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
General Purpose Comparators						
L293DNE	296-9518-5-ND	Quad Half-H Drivers	16-Dip	2.13	1.70	1.28
L293NE	296-9519-5-ND	Quad Half-H Drivers	16-Dip	2.13	1.70	1.28
LM239DR	296-14590-1-ND	Quad Differential Comparator	14-SOIC	.48	.36	.27
LM239DR	296-14590-2-ND	Quad Differential Comparator	14-SOIC		390.00/2,500	
LM293AD	296-9530-5-ND	Dual Differential Comparator	8-SOIC	.58	.46	.35
LM293D	296-9531-5-ND	Dual Differential Comparator	8-SOIC	.55	.44	.33
LM293DR	296-12848-1-ND	Dual Differential Comparator	8-SOIC	.55	.44	.33
LM293DR	296-12848-2-ND	Dual Differential Comparator	8-SOIC		372.50/2,500	
LM293P	296-9532-5-ND	Dual Differential Comparator	8-Dip	.55	.44	.33
LM339AD	296-6604-5-ND	Quad Diff. Comparator, A Grade	14-SOIC	.48	.38	.29
LM339ADR	296-6604-1-ND	Quad Diff. Comparator, A Grade	14-SOIC	.48	.38	.29
LM339ADR	296-6604-2-ND	Quad Diff. Comparator, A Grade	14-SOIC		320.00/2,500	
LM339AN	296-6605-5-ND	Quad Diff. Comparator, A Grade	14-Dip	.48	.38	.29
LM339D	296-1013-5-ND	Quad Diff. Comparator	14-SOIC	.45	.36	.27
LM339DR	296-1013-1-ND	Quad Diff. Comparator	14-SOIC	.45	.36	.27
LM339DR	296-1013-2-ND	Quad Diff. Comparator	14-SOIC		305.00/2,500	
LM339DBR	296-6606-1-ND	Quad Diff. Comparator	14-SSOP	.45	.36	.27
LM339DBR	296-6606-2-ND	Quad Diff. Comparator	14-SSOP		252.00/2,000	
LM339N	296-1393-5-ND	Quad Diff. Comparator	14-Dip	.45	.36	.27
LM339PWR	296-6607-1-ND	Quad Diff. Comparator, A Grade	14-TSSOP	.45	.36	.27
LM339PWR	296-6607-2-ND	Quad Diff. Comparator, A Grade	14-TSSOP		252.00/2,000	
LM393AD	296-6608-5-ND	Dual Diff. Comparator, A Grade	8-SOIC	.48	.38	.29
LM393ADGKR	296-16807-1-ND	Dual Diff. Comparator, A Grade	8-MSOP	.48	.38	.29
LM393ADGKR	296-16807-2-ND	Dual Diff. Comparator, A Grade	8-MSOP		320.00/2,500	
LM393ADR	296-14605-1-ND	Dual Diff. Comparator, A Grade	8-SOIC	.48	.38	.29
LM393ADR	296-14605-2-ND	Dual Diff. Comparator, A Grade	8-SOIC		320.00/2,500	
LM393AP	296-6609-5-ND	Dual Diff. Comparator, A Grade	8-Dip	.48	.38	.29
LM393APWR	296-6610-1-ND	Dual Diff. Comparator, A Grade	8-TSSOP	.48	.38	.29
LM393APWR	296-6610-2-ND	Dual Diff. Comparator, A Grade	8-TSSOP		266.00/2,000	
LM393D	296-1015-5-ND	Dual Diff. Comparator	8-SOIC	.45	.36	.27
LM393DGKR	296-16808-1-ND	Dual Diff. Comparator	8-MSOP	.45	.36	.27
LM393DGKR	296-16808-2-ND	Dual Diff. Comparator	8-MSOP		305.00/2,500	
LM393DR	296-1015-1-ND	Dual Diff. Comparator	8-SOIC	.45	.36	.27
LM393DR	296-1015-2-ND	Dual Diff. Comparator	8-SOIC		305.00/2,500	
LM393P	296-1398-5-ND	Dual Diff. Comparator	8-Dip	.45	.36	.27
LM393PSR	296-9566-1-ND	Dual Diff. Comparator	8-SOP	.45	.36	.27
LM393PSR	296-9566-2-ND	Dual Diff. Comparator	8-SOP		252.00/2,000	
LM393PWR	296-14607-1-ND	Dual Diff. Comparator	8-TSSOP	.45	.36	.27
LM393PWR	296-14607-2-ND	Dual Diff. Comparator	8-TSSOP		252.00/2,000	
LM2901D	296-1385-5-ND	Quad Diff. Comparator, Ind. Temp	14-SOIC	.45	.36	.27
LM2901DR	296-14593-1-ND	Quad Diff. Comparator, Ind. Temp	14-SOIC	.45	.36	.27
LM2901DR	296-14593-2-ND	Quad Diff. Comparator, Ind. Temp	14-SOIC		305.00/2,500	
LM2901N	296-1386-5-ND	Quad Diff. Comparator, Ind. Temp.	14-Dip	.45	.36	.27
LM2901PWR	296-6597-1-ND	Quad Diff. Comparator, Ind. Temp	14-TSSOP	.50	.40	.30
LM2901PWR	296-6597-2-ND	Quad Diff. Comparator, Ind. Temp	14-TSSOP		280.00/2,000	
LM2901QDRQ1	296-17157-5-ND	Quad Diff. Comparator, Ind. Temp	14-SOIC	.48	.36	.27
LM2902D	296-6598-5-ND	Quad Op Amp	14-SOIC	.45	.36	.27
LM2902KVQDRQ1	296-17027-1-ND	Quad Op Amp	14-SOIC	.56	.42	.32
LM2902KVQDRQ1	296-17027-2-ND	Quad Op Amp	14-SOIC		455.00/2,500	
LM2902N	296-6599-5-ND	Quad Op Amp	14-Dip	.45	.36	.27
LM2902PWR	296-6600-1-ND	Quad Op Amp	14-TSSOP	.50	.40	.30
LM2902PWR	296-6600-2-ND	Quad Op Amp	14-TSSOP		280.00/2,000	
LM2902QDRQ1	296-16814-1-ND	Quad Op Amp	14-SOIC	.48	.36	.27
LM2902QDRQ1	296-16814-2-ND	Quad Op Amp	14-SOIC		390.00/2,500	
LM2903D	296-1012-5-ND	Dual Diff. Comparator, Ind. Temp	8-SOIC	.45	.36	.27
LM2903DGKR	296-16806-1-ND	Dual Diff. Comparator, Ind. Temp	8-MSOP	.45	.36	.27
LM2903DGKR	296-16806-2-ND	Dual Diff. Comparator, Ind. Temp	8-MSOP		305.00/2,500	
LM2903DR	296-1012-1-ND	Dual Diff. Comparator, Ind. Temp	8-SOIC	.45	.36	.27
LM2903DR	296-1012-2-ND	Dual Diff. Comparator, Ind. Temp	8-SOIC		305.00/2,500	
LM2903P	296-6601-5-ND	Dual Diff. Comparator, Ind. Temp	8-Dip	.45	.36	.27
LM2903PSR	296-17322-1-ND	Dual Diff. Comparator, Ind. Temp	8-SOP	.45	.36	.27
LM2903PSR	296-17322-2-ND	Dual Diff. Comparator, Ind. Temp	8-SOP		252.00/2,000	
LM2903PWR	296-6602-1-ND	Dual Diff. Comparator, Ind. Temp	8-TSSOP	.50	.40	.30
LM2903PWR	296-6602-2-ND	Dual Diff. Comparator, Ind. Temp	8-TSSOP		280.00/2,000	
LM2903QDRQ1	296-15183-1-ND	Dual Diff. Comparator, Ind. Temp	8-SOIC	.48	.36	.27
LM2903QDRQ1	296-15183-2-ND	Dual Diff. Comparator, Ind. Temp	8-SOIC		390.00/2,500	
LM2903QPWRQ1	296-16942-1-ND	Dual Diff. Comparator	8-TSSOP	.48	.36	.27
LM2903QPWRQ1	296-16942-2-ND	Dual Diff. Comparator	8-TSSOP		320.00/2,000	
LM2904QDRQ1	296-15184-1-ND	Dual Op Amp	8-SOIC	.48	.36	.27
LM2904QDRQ1	296-15184-2-ND	Dual Op Amp	8-SOIC		390.00/2,500	
LM3302D	296-9546-5-ND	Quad Diff. Comparator	14-SOIC	.60	.45	.34
LM3302DR	296-14598-1-ND	Quad Diff. Comparator	14-SOIC	.60	.45	.34
LM3302DR	296-14598-2-ND	Quad Diff. Comparator	14-SOIC		487.50/2,500	
LM3302N	296-17223-5-ND	Quad Diff. Comparator	14-Dip	.60	.45	.34
LMV339IDR	296-6611-1-ND	Quad Low-Voltage Comparator	14-SOIC	.80	.60	.45
LMV339IDR	296-6611-2-ND	Quad Low-Voltage Comparator	14-SOIC		650.00/2,500	
LMV339IPWR	296-6612-1-ND	Quad Low-Voltage Comparator	14-TSSOP	.88	.66	.50
LMV339IPWR	296-6612-2-ND	Quad Low-Voltage Comparator	14-TSSOP		586.00/2,000	
TL331IDBVR	296-10168-1-ND	Single/Dual Diff. Comparator	SOT-23-5	.50	.40	.30
TL331IDBVR	296-10168-2-ND	Single/Dual Diff. Comparator	SOT-23-5		405.00/3,000	
TLC372CPWR	296-10309-1-ND	Dual Differential Comparator	8-TSSOP	.84	.70	.56
TLC372CPWR	296-10309-2-ND	Dual Differential Comparator	8-TSSOP		744.00/2,000	
TLC372ID	296-10310-5-ND	Dual Differential Comparator	8-SOIC	.90	.75	.60
TLC372MD	296-10311-5-ND	Dual Differential Comparator	8-SOIC	1.08	.90	.72
TLC372QD	296-10312-5-ND	Dual Differential Comparator	8-SOIC	.96	.80	.64
TLC374CN	296-10313-5-ND	Quad Differential Comparator	14-Dip	1.02	.85	.68
TLC374CPWR	296-10314-1-ND	Quad Differential Comparator	14-TSSOP	1.02	.85	.68
TLC374CPWR	296-10314-2-ND	Quad Differential Comparator	14-TSSOP		904.00/2,000	
TLC374ID	296-10315-5-ND	Quad Differential Comparator	14-SOIC	1.11	.93	.74
TLC374IN	296-10316-5-ND	Quad Differential Comparator	14-Dip	1.11	.93	.74
TLC374MD	296-10317-5-ND	Quad Differential Comparator	14-SOIC	1.38	1.15	.92
High Speed Comparators						
LM139DR	296-6614-1-ND	Quad GP Differential Comparator	14-SOIC	1.20	1.00	.80
LM139DR	296-6614-2-ND	Quad GP Differential Comparator	14-SOIC		1300.00/2,500	
LM193DR	296-6615-1-ND	Dual GP Differential Comparator	8-SOIC	.84	.63	.48
LM193DR	296-6615-2-ND	Dual GP Differential Comparator	8-SOIC		682.50/2,500	
LM211D	296-6616-5-ND	Diff. Comparator with Strobe	8-SOIC	.55	.44	.33
LM211DR	296-14589-1-ND	Diff. Comparator with Strobe	8-SOIC	.55	.44	.33
LM211DR	296-14589-2-ND	Diff. Comparator with Strobe	8-SOIC		372.50/2,500	
LM211P	296-6617-5-ND	Diff. Comparator with Strobe	8-Dip	.55	.44	.33
LM211QD	296-9520-5-ND	Diff. Comparator with Strobe	8-SOIC	.92	.69	.52
LM211QDRQ1	296-17493-1-ND	Diff. Comparator with Strobe	8-SOIC	.75	.63	.50
LM211QDRQ1	296-17493-2-ND	Diff. Comparator with Strobe	8-SOIC		812.50/2,500	
LM239ADR	296-6618-1-ND	Quad GP Differential Comparator	14-SOIC	.58	.46	.35
LM239ADR	296-6618-2-ND	Quad GP Differential Comparator	14-SOIC		387.50/2,500	
LM239D	296-6620-5-ND	Quad GP Differential Comparator	14-SOIC	.55	.44	.33
LM239N	296-6621-5-ND	Quad GP Differential Comparator	14-Dip	.55	.44	.33
LM239PWR	296-15084-1-ND	Quad GP Differential Comparator	14-TSSOP	.48	.36	.27
LM239PWR	296-15084-2-ND	Quad GP Differential Comparator	14-TSSOP		320.00/2,000	
LM306D	296-9533-5-ND	Differential Comparator with Strobe	8-SOIC	1.05	.88	.70
LM306P	296-1387-5-ND	Differential Comparator with Strobe	8-Dip	1.05	.88	.70
LM311D	296-1388-5-ND	Differential Comparator with Strobe	8-SOIC	.45	.36	.27
LM311DR	296-1388-1-ND	Differential Comparator with Strobe	8-SOIC	.45	.36	.27
LM311DR	296-1388-2-ND	Differential Comparator with Strobe	8-SOIC		305.00/2,500	
LM311P	296-1389-5-ND	Differential Comparator with Strobe	8-Dip	.45	.36	.27
LM311PWR	296-13719-1-ND	Differential Comparator with Strobe	8-TSSOP	.45	.36	.27
LM311PWR	296-13719-2-ND	Differential Comparator with Strobe	8-TSSOP		252.00/2,000	
TL712CD	296-6629-5-ND	Differential Comparator	8-SOIC	1.38	1.15	.92
TL712CP	296-6630-5-ND	Differential Comparator	8-Dip	1.38	1.15	.92
TL714CD	296-6631-5-ND	High Speed Differential Comparator	8-SOIC	2.70	2.16	1.68
TL714CP	296-6632-5-ND	High Speed Differential Comparator	8-Dip	2.70	2.16	1.68
TL3016CD	296-1793-5-ND	Ultra-Fast LP Precision Comparator	8-SOIC	2.00	1.60	1.20
TL3016ID	296-1794-5-ND	Ultra-Fast LP Precision Comparator	8-SOIC	2.20	1.76	1.32
TL3016IPW	296-13615-5-ND	Ultra-Fast LP Precision Comparator	8-TSSOP	2.20	1.76	1.32
TL3116CD	296-6626-5-ND	Ultra-Fast LP Precision Comparator	8-SOIC	2.00	1.60	1.20
TL3116CPWR	296-6627-1-ND	Ultra-Fast LP Precision Comparator	8-TSSOP	2.00	1.60	1.20
TL3116CPWR	296-6627-2-ND	Ultra-Fast LP Precision Comparator	8-TSSOP		2080.00/2,000	
TL3116ID	296-6628-5-ND	Ultra-Fast LP Precision Comparator	8-SOIC	2.20	1.76	1.32
Low Power Comparators						
LMV331IDBVR	296-6633-1-ND	Single GP LV Comparator	SOT-23-5	.80	.60	.45
LMV331IDBVR	296-6633-2-ND	Single GP LV Comparator	SOT-23-5		780.00/3,000	
LMV331IDCKR	296-6634-1-ND	Single GP LV Comparator	SC70-5	.80	.60	.45
LMV331IDCKR	296-6634-2-ND	Single GP LV Comparator	SC70-5		780.00/3,000	
LMV393IDDUR	296-17028-1-ND	Dual LV Comparator	8-VSSOP	.88	.66	.50
LMV393IDDUR	296-17028-2-ND	Dual LV Comparator	8-VSSOP		858.00/3,000	
LMV393IDGKR	296-13993-1-ND	Dual GP Low Voltage Comparator	8-VSSOP	.88	.66	.50
LMV393IDGKR	296-13993-2-ND	Dual GP Low Voltage Comparator	8-VSSOP		715.00/2,500	
LMV393IDR	296-6635-1-ND	Dual GP LV Comparator	8-SOIC	.80	.60	.45
LMV393IDR	296-6635-2-ND	Dual GP LV Comparator	8-SOIC		650.00/2,500	
LMV393IPWR	296-6636-1-ND	Dual GP LV Comparator	8-TSSOP	.88	.66	.50
LMV393IPWR	296-6636-2-ND	Dual GP LV Comparator	8-TSSOP		586.00/2,000	
LP211D	296-9573-5-ND	Differential Comparator	8-SOIC	1.02	.85	.68
LP2901D	296-9574-5-ND	Quad Differential Comparator	14-SOIC	.99	.83	.66
LP2901N	296-9575-5-ND	Quad Differential Comparator	14-Dip	.99	.83	.66
LP311D	296-9576-5-ND	Differential Comparator	8-SOIC	.84	.70	.56
LP311DR	296-14608-1-ND	Differential Comparator	8-SOIC	.84	.70	.56
LP311DR	296-14608-2-ND	Differential Comparator	8-SOIC		910.00/2,500	
LP311P	296-9577-5-ND	Differential Comparator	8-Dip	.84	.70	.56
LP339D	296-9578-5-ND	Quad Differential Comparator	14-SOIC	.52	.39	.30
LP339DR	296-14609-1-ND	Quad Differential Comparator	14-SOIC	.52	.39	.30
LP339DR	296-14609-2-ND	Quad Differential Comparator	14-SOIC		422.50/2,500	
LP339N	296-9579-5-ND	Quad Differential Comparator	14-Dip	.52	.39	.30
TLC339CD	296-10281-5-ND	Quad Differential Comparator	14-SOIC	1.11	.93	.74
TLC339CN	296-12312-5-ND	Quad Differential Comparator	14-Dip	1.11	.93	.74
TLC339CPWR	296-10282-1-ND	Quad Differential Comparator	14-TSSOP	1.11	.93	.74
TLC339CPWR	296-10282-2-ND	Quad Differential Comparator	14-TSSOP		984.00/2,000	
TLC339ID	296-1324-5-ND	Quad Differential Comparator	14-SOIC	1.20	1.00	.80
TLC339IDR	296-1324-1-ND	Quad Differential Comparator	14-SOIC	1.20	1.00	.80
TLC339IDR	296-1324-2-ND	Quad Differential Comparator	14-SOIC		1300.00/2,500	
TLC339IN	296-10283-5-ND	Quad Differential Comparator	14-Dip	1.20	1.00	.80
TLC339MN	296-10284-5-ND	Quad Differential Comparator	14-Dip	1.25	1.00	.75
TLC352IPW	296-17476-5-ND	LinCMOS™ Dual Diff. Comparator	8-TSSOP	1.11	.93	.74
TLC372CD	296-1327-5-ND	Dual Differential Comparator	8-SOIC	.84	.70	.56
TLC372CDR	296-1327-1-ND	Dual Differential Comparator	8-SOIC	.84	.70	.56
TLC372CDR	296-1327-2-ND	Dual Differential Comparator	8-SOIC		910.00/2,500	
TLC372CP	296-1845-5-ND	Dual Differential Comparator	8-Dip	.84	.70	.56
TLC372IP	296-1846-5-ND	Dual Differential Comparator	8-Dip	.90	.75	.60
TLC374CD	296-1328-5-ND	Quad Differential Comparator	14-SOIC	1.02	.85	.68
TLC374CDR	296-1328-1-ND	Quad Differential Comparator	14-SOIC	1.02	.85	.68
TLC374CDR	296-1328-2-ND	Quad Differential Comparator	14-SOIC		1105.00/2,500	
TLC393CD	296-1329-5-ND	Dual Voltage Comparator	8-SOIC	.93	.78	.62
TLC393CDR	296-1329-1-ND	Dual Voltage Comparator	8-SOIC	.93	.78	.62
TLC393CDR	296-1329-2-ND	Dual Voltage Comparator	8-SOIC		1007.50/2,500	
TLC393CP	296-1849-5-ND	Dual Voltage Comparator	8-Dip	.93	.78	.62
TLC393CPWR	296-10318-1-ND	Dual Voltage Comparator	8-TSSOP	.93	.78	.62
TLC393CPWR	296-10318-2-ND	Dual Voltage Comparator	8-TSSOP		824.00/2,000	
TLC393ID	296-1330-5-ND	Dual Voltage Comparator	8-SOIC	1.02	.85	.68
TLC393IDR	296-1330-1-ND	Dual Voltage Comparator	8-SOIC	1.02	.85	.68
TLC393IDR	296-1330-2-ND	Dual Voltage Comparator	8-SOIC		1105.00/2,500	
TLC393IP	296-10320-5-ND	Dual Voltage Comparator	8-Dip	1.02	.85	.68
TLC393IPWR	296-10321-1-ND	Dual Voltage Comparator	8-TSSOP	1.02	.85	.68
TLC393IPWR	296-10321-2-ND	Dual Voltage Comparator	8-TSSOP		904.00/2,000	
TLC393QDRQ1	296-17501-1-ND	Dual Voltage Comparator	8-SOIC	1.08	.90	.72
TLC393QDRQ1	296-17501-2-ND	Dual Voltage Comparator	8-SOIC		1170.00/2,500	
TLC3702CD	296-1325-5-ND	Dual Voltage Comparator	8-SOIC	.87	.73	.58
TLC3702CDR	296-1325-1-ND	Dual Voltage Comparator	8-SOIC	.87	.73	.58
TLC3702CDR	296-1325-2-ND	Dual Voltage Comparator	8-SOIC		942.50/2,500	
TLC3702CP	296-1841-5-ND	Dual Voltage Comparator	8-Dip	.87	.73	.58
TLC3702MD	296-12188-5-ND	Dual Voltage Comparator	8-SOIC	1.11	.93	.74
TLC3702ID	296-1326-5-ND	Dual Voltage Comparator	8-SOIC	.93	.78	.62
TLC3702IDR	296-1326-1-ND	Dual Voltage Comparator	8-SOIC	.93	.78	.62
TLC3702IDR	296-1326-2-ND	Dual Voltage Comparator	8-SOIC		1007.50/2,500	
TLC3702IP	296-10300-5-ND	Dual Voltage Comparator	8-Dip	.93	.78	.62
TLC3702IPW	296-10301-5-ND	Dual Voltage Comparator	8-TSSOP	.93	.78	.62
TLC3704CD	296-10302-5-ND	Quad Voltage Comparator	14-SOIC	1.20	1.00	.80
TLC3704CN	296-10303-5-ND	Quad Voltage Comparator	14-Dip	1.20	1.00	.80
TLC3704CNS	296-10304-5-ND	Quad Voltage Comparator	14-SOP	1.20	1.00	.80
TLC3704CNSR	296-10304-1-ND	Quad Voltage Comparator	14-SOP	1.20	1.00	.80
TLC3704CNSR	296-10304-2-ND	Quad Voltage Comparator	14-SOP		1064.00/2,000	
TLC3704CPWR	296-10305-1-ND	Quad Voltage Comparator	14-TSSOP	1.20	1.00	.80
TLC3704CPWR	296-10305-2-ND	Quad Voltage Comparator	14-TSSOP		1064.00/2,000	
TLC3704ID	296-1843-5-ND	Quad Voltage Comparator	14-SOIC	1.38	1.15	.92
TLC3704IN	296-10306-5-ND	Quad Voltage Comparator	14-Dip	1.38	1.15	.92
TLC3704IPW	296-10307-5-ND	Quad Voltage Comparator	14-TSSOP	1.38	1.15	.92

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

B

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LVDS						
SN65MLVD207D	296-14190-5-ND	Multipoint LVDS Line Driver/Receiver	14-SOIC	3.96	3.17	2.47
SN75LVDS31D	296-12325-5-ND	Quad HS Differential Driver	16-SOIC	3.22	2.58	2.01
SN75LVDS31PW	296-12005-5-ND	Quad HS Differential Driver	16-TSSOP	3.22	2.58	2.01
SN75LVDS31PWR	296-12005-1-ND	Quad HS Differential Driver	16-TSSOP	3.22	2.58	2.01
SN75LVDS31PWR	296-12005-2-ND	Quad HS Differential Driver	16-TSSOP		3646.00/2,000	
SN75LVDS32D	296-12326-5-ND	Quad HS Differential Driver	16-SOIC	3.22	2.58	2.01
SN75LVDS32PW	296-13328-5-ND	Quad HS Differential Driver	16-TSSOP	3.22	2.58	2.01
SN75LVDS82DGGR	296-6666-1-ND	Flatlink™ Receiver	56-TSSOP	4.25	3.41	2.65
SN75LVDS82DGGR	296-6666-2-ND	Flatlink™ Receiver	56-TSSOP		4820.00/2,000	
SN75LVDS83DGG	296-6667-5-ND	Flatlink™ Transmitter	56-TSSOP	3.96	3.17	2.47
SN75LVDS84ADGGR	296-6668-1-ND	Flatlink™ Transmitter	48-TSSOP	4.16	3.33	2.59
SN75LVDS84ADGGR	296-6668-2-ND	Flatlink™ Transmitter	48-TSSOP		4718.00/2,000	
SN75LVDS86ADGG	296-1998-5-ND	Flatlink™ Receiver	48-TSSOP	4.16	3.33	2.59
SN75LVDS86ADGGR	296-6671-1-ND	Flatlink™ Receiver	48-TSSOP	4.16	3.33	2.59
SN75LVDS86ADGGR	296-6671-2-ND	Flatlink™ Receiver	48-TSSOP		4718.00/2,000	
SN75LVDS86DGG	296-6672-5-ND	Flatlink™ Receiver	48-TSSOP	3.87	3.10	2.41
SN75LVDS88PFD	296-6673-5-ND	FT LCD-Panel Timing Controller with LVDS Interface	100-HTQFP	7.14	5.72	4.82
SN75LVDS050D	296-12321-5-ND	Dual Low Volt. Diff. Driver/Rcvr	16-SOIC	3.69	2.96	2.30
SN75LVDS051D	296-12322-5-ND	Dual Low Volt. Diff. Driver/Rcvr	16-SOIC	3.69	2.96	2.30
SN75LVDS179D	296-12323-5-ND	Low Volt. Diff. Driver/Receiver	8-SOIC	2.27	1.82	1.42
SN75LVDS180D	296-12324-5-ND	Low Volt. Diff. Driver/Receiver	14-SOIC	2.27	1.82	1.42
SN75LVDS386DGG	296-9975-5-ND	16-Ch., High Speed Diff. Receiver	64-TSSOP	8.14	6.52	5.50
SN75LVDS386DGGR	296-9975-1-ND	16-Ch., High Speed Diff. Receiver	64-TSSOP	8.14	6.52	5.50
SN75LVDS386DGGR	296-9975-2-ND	16-Ch., High Speed Diff. Receiver	64-TSSOP		10176.00/2,000	
SN75LVDS387DGG	296-2367-5-ND	16-Ch., High Speed Diff. Driver	64-TSSOP	8.14	6.52	5.50
SN75LVDS389DBT	296-2369-5-ND	8-Ch., High Speed Diff. Driver	38-TSSOP	5.49	4.40	3.42
SN75LVDS9637D	296-12327-5-ND	Dual HS Differential Receiver	8-SOIC	2.43	1.94	1.46
SN75LVDS9638D	296-12328-5-ND	Dual HS Differential Driver	8-SOIC	2.43	1.94	1.46
LVDT						
SN65LVDT2D	296-12140-5-ND	High Speed Diff. Line Receiver	8-SOIC	1.48	1.18	.89
SN65LVDT2DBVR	296-6896-1-ND	High Speed Diff. Line Receiver	SOT-23-5	1.17	.98	.78
SN65LVDT2DBVR	296-6896-2-ND	High Speed Diff. Line Receiver	SOT-23-5		1521.00/3,000	
SN65LVDT14PW	296-12736-5-ND	High Speed Diff. Driver/Receiver	20-TSSOP	4.93	3.95	3.07
SN65LVDT32BDR	296-6897-1-ND	Quad LVDS Receiver	16-SOIC	4.73	3.78	2.94
SN65LVDT32BDR	296-6897-2-ND	Quad LVDS Receiver	16-SOIC		6615.00/2,500	
SN65LVDT33D	296-9749-5-ND	Quad, High Speed Diff. Receiver	16-SOIC	3.78	3.03	2.36
SN65LVDT33PW	296-9750-5-ND	Quad, High Speed Diff. Receiver	16-TSSOP	3.78	3.03	2.36
SN65LVDT34D	296-9751-5-ND	Dual, High Speed Diff. Receiver	8-SOIC	2.43	1.94	1.46
SN65LVDT41PW	296-12738-5-ND	High Speed Diff. Driver/Receiver	20-TSSOP	4.93	3.95	3.07
SN65LVDT100D	296-15389-5-ND	2Gbps Diff. Translator/Repeater	8-SOIC	5.45	4.36	3.39
SN65LVDT100DGK	296-15390-5-ND	2Gbps Diff. Translator/Repeater	8-MSOP	5.45	4.36	3.39
SN65LVDT101D	296-15391-5-ND	2Gbps Diff. Translator/Repeater	8-SOIC	5.45	4.36	3.39
SN65LVDT101DGK	296-15392-5-ND	2Gbps Diff. Translator/Repeater	8-MSOP	5.45	4.36	3.39
SN65LVDT125ADBT	296-16979-ND	1.5Gbps 4x4 LVDS Crosspoint Switch	38-TSSOP	12.25	11.03	9.78
SN65LVDT250DBT	296-16932-ND	LVDS 4x4 Crosspoint Switch	38-TSSOP	12.91	11.63	10.31
SN65LVDT348D	296-12737-5-ND	Quad, HS Differential Receiver	16-SOIC	3.02	2.42	1.88
SN65LVDT348PW	296-12650-5-ND	Quad, HS Differential Receiver	16-TSSOP	3.02	2.42	1.88
SN65LVDT352PW	296-12651-5-ND	Quad, HS Differential Receiver	16-TSSOP	3.40	2.72	2.12
SN65LVDT386DGG	296-2360-5-ND	16-Ch., High Speed Diff. Receiver	64-TSSOP	9.32	7.46	6.30
SN65LVDT386DGGR	296-2360-1-ND	16-Ch., High Speed Diff. Receiver	64-TSSOP	9.32	7.46	6.30
SN65LVDT386DGGR	296-2360-2-ND	16-Ch., High Speed Diff. Receiver	64-TSSOP		11650.00/2,000	
SN65LVDT388ADBT	296-6899-5-ND	Octal LVDS Receiver	38-TSSOP	5.49	4.40	3.42
SN65LVDT390D	296-6900-5-ND	High Speed Diff. Line Receiver	16-SOIC	2.84	2.27	1.77
SN65LVDT390PW	296-6901-5-ND	High Speed Diff. Line Receiver	16-TSSOP	2.84	2.27	1.77
SN65LVDT3486BDR	296-6898-1-ND	Quad LVDS Receiver	16-SOIC	3.40	2.72	2.12
SN65LVDT3486BDR	296-6898-2-ND	Quad LVDS Receiver	16-SOIC		4757.50/2,500	
SN65LVDT9637BDR	296-6902-1-ND	Dual LVDS Receiver	8-SOIC	4.25	3.41	2.65
SN65LVDT9637BDR	296-6902-2-ND	Dual LVDS Receiver	8-SOIC		5952.50/2,500	
SN75LVDT386DGG	296-2370-5-ND	16-Ch., High Speed Diff. Receiver	64-TSSOP	8.14	6.52	5.50
SN75LVDT386DGGR	296-2370-1-ND	16-Ch., High Speed Diff. Receiver	64-TSSOP	8.14	6.52	5.50
SN75LVDT386DGGR	296-2370-2-ND	16-Ch., High Speed Diff. Receiver	64-TSSOP		10176.00/2,000	
LVP						
SN65LVP16DRFT	296-17445-1-ND	2.5V/3.3V Oscillator Gain Stage/Buffers ***NEW!***	9-SON	5.10	4.08	3.45
SN65LVP16DRFT	296-17445-2-ND	2.5V/3.3V Oscillator Gain Stage/Buffers ***NEW!***	9-SON		828.75/250	
SN65LVP17DRFT	296-17446-1-ND	2.5V/3.3V Oscillator Gain Stage/Buffers ***NEW!***	9-SON	5.10	4.08	3.45
SN65LVP17DRFT	296-17446-2-ND	2.5V/3.3V Oscillator Gain Stage/Buffers ***NEW!***	9-SON		828.75/250	
SN65LVP18DRFT	296-17447-1-ND	2.5V/3.3V Oscillator Gain Stage/Buffers ***NEW!***	9-SON	4.39	3.51	2.73
SN65LVP18DRFT	296-17447-2-ND	2.5V/3.3V Oscillator Gain Stage/Buffers ***NEW!***	9-SON		648.50/250	
SN65LVP19DRFT	296-17448-1-ND	2.5V/3.3V Oscillator Gain Stage/Buffers ***NEW!***	9-SON	4.39	3.51	2.73
SN65LVP19DRFT	296-17448-2-ND	2.5V/3.3V Oscillator Gain Stage/Buffers ***NEW!***	9-SON		648.50/250	
SN65LVP20DRFT	296-17177-1-ND	LVPECL Repeater/Translator	8-SON	8.80	7.04	5.94
SN65LVP20DRFT	296-17177-2-ND	LVPECL Repeater/Translator	8-SON		1430.00/250	
RS422 / RS423 / RS485						
AM26C31CD	296-6781-5-ND	Quad Differential Line Driver	16-SOIC	.80	.60	.45
AM26C31CDBR	296-6782-1-ND	Quad Differential Line Driver	16-SSOP	.80	.60	.45
AM26C31CDBR	296-6782-2-ND	Quad Differential Line Driver	16-SSOP		532.00/2,000	
AM26C31CN	296-6783-5-ND	Quad Differential Line Driver	16-Dip	.80	.60	.45
AM26C31ID	296-6784-5-ND	Quad Differential Line Driver	16-SOIC	.80	.60	.45
AM26C31IN	296-6785-5-ND	Quad Differential Line Driver	16-Dip	.80	.60	.45
AM26C31QD	296-13867-5-ND	Quad Differential Line Driver	16-SOIC	2.95	2.36	1.84
AM26C32CD	296-6786-5-ND	Quad Differential Line Receiver	16-SOIC	.80	.60	.45
AM26C32CN	296-6787-5-ND	Quad Differential Line Receiver	16-Dip	.80	.60	.45
AM26C32ID	296-6788-5-ND	Quad Differential Line Receiver	16-SOIC	.80	.60	.45
AM26C32IDR	296-14471-1-ND	Quad Differential Line Receiver	16-SOIC	.80	.60	.45
AM26C32IDR	296-14471-2-ND	Quad Differential Line Receiver	16-SOIC		650.00/2,500	
AM26C32IN	296-6789-5-ND	Quad Differential Line Receiver	16-Dip	.80	.60	.45
AM26C32QD	296-13868-5-ND	Quad Differential Line Receiver	16-SOIC	2.95	2.36	1.84
AM26LS31CD	296-1010-5-ND	Quad Differential Line Driver	16-SOIC	.80	.60	.45
AM26LS31CDR	296-1010-1-ND	Quad Differential Line Driver	16-SOIC	.80	.60	.45
AM26LS31CDR	296-1010-2-ND	Quad Differential Line Driver	16-SOIC		650.00/2,500	
AM26LS31CN	296-1374-5-ND	Quad Differential Line Driver	16-Dip	.80	.60	.45
AM26LS32ACD	296-1011-5-ND	Quad Differential Line Receiver	16-SOIC	.80	.60	.45
AM26LS32ACDR	296-1011-1-ND	Quad Differential Line Receiver	16-SOIC	.80	.60	.45

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AM26LS32ACDR	296-1011-2-ND	Quad Differential Line Receiver	16-SOIC		650.00/2,500	
AM26LS32ACN	296-1376-5-ND	Quad Differential Line Receiver	16-Dip	.80	.60	.45
AM26LS32ACNSR	296-6790-1-ND	Quad Differential Line Receiver	16-SOP	.80	.60	.45
AM26LS32ACNSR	296-6790-2-ND	Quad Differential Line Receiver	16-SOP		532.00/2,000	
AM26LS32AIDR	296-13065-1-ND	Quad Differential Line Receiver	16-SOIC	.80	.60	.45
AM26LS32AIDR	296-13065-2-ND	Quad Differential Line Receiver	16-SOIC		650.00/2,500	
AM26LS32AIN	296-13066-5-ND	Quad Differential Line Receiver	16-Dip	.80	.60	.45
AM26LS33ACD	296-6791-5-ND	Quad Differential Line Receiver	16-SOIC	.80	.60	.45
AM26LS33ACDR	296-14473-1-ND	Quad Differential Line Receiver	16-SOIC	.80	.60	.45
AM26LS33ACDR	296-14473-2-ND	Quad Differential Line Receiver	16-SOIC		650.00/2,500	
AM26LS33ACN	296-6792-5-ND	Quad Differential Line Receiver	16-Dip	.80	.60	.45
AM26LV31CD	296-6793-5-ND	Quad Differential Line Driver	16-SOIC	.80	.60	.45
AM26LV32CD	296-6794-5-ND	Quad Differential Line Receiver	16-SOIC	.80	.60	.45
AM26LV32CDR	296-6794-1-ND	Quad Differential Line Receiver	16-SOIC	.80	.60	.45
AM26LV32CNSR	296-6796-1-ND	Quad Differential Line Receiver	16-SOP	.80	.60	.45
AM26LV32CNSR	296-6796-2-ND	Quad Differential Line Receiver	16-SOP		532.00/2,000	
AM26S10CD	296-6797-5-ND	Quad Bus Transceiver	16-SOIC	.80	.60	.45
AM26S10CN	296-6798-5-ND	Quad Bus Transceiver	16-Dip	.80	.60	.45
M26LV32CDR	296-6794-2-ND	Quad Differential Line Receiver	16-SOP		650.00/2,500	
MAX232DR	296-14619-1-ND	Dual RS-232 Driver/Receiver	16-SOIC	.90	.75	.60
MAX232DR	296-14619-2-ND	Dual RS-232 Driver/Receiver	16-SOIC		975.00/2,500	
MAX232DWR	296-14620-1-ND	Dual RS-232 Driver/Receiver	16-SOIC	.90	.75	.60
MAX232DWR	296-14620-2-ND	Dual RS-232 Driver/Receiver	16-SOIC		798.00/2,000	
MAX232IDWR	296-14621-1-ND	Dual RS-232 Driver/Receiver	16-SOIC	.96	.80	.64
MAX232IDWR	296-14621-2-ND	Dual RS-232 Driver/Receiver	16-SOIC		852.00/2,000	
MC3486D	296-7037-5-ND	Tri-State Quad Diff. Line Receiver	16-SOIC	.80	.60	.45
MC3486DR	296-14624-1-ND	Tri-State Quad Diff. Line Receiver	16-SOIC	.80	.60	.45
MC3486DR	296-14624-2-ND	Tri-State Quad Diff. Line Receiver	16-SOIC		650.00/2,500	
MC3486N	296-7038-5-ND	Tri-State Quad Diff. Line Receiver	16-Dip	.80	.60	.45
MC3487DR	296-14625-1-ND	Quad Differential Line Driver	16-SOIC	.80	.60	.45
MC3487DR	296-14625-2-ND	Quad Differential Line Driver	16-SOIC		650.00/2,500	
MC3487N	296-1408-5-ND	Quad Differential Line Driver	16-Dip	.80	.60	.45
SN65176BDR	296-14636-1-ND	Differential Bus Transceiver	8-SOIC	.80	.60	.45
SN65176BDR	296-14636-2-ND	Differential Bus Transceiver	8-SOIC		650.00/2,500	
SN65C1167NSR	296-9699-1-ND	Dual Differential Driver/Receiver	16-SOP	2.93	2.34	1.82
SN65C1167NSR	296-9699-2-ND	Dual Differential Driver/Receiver	16-SOP		3316.00/2,000	
SN65C1168PWR	296-14348-1-ND	Dual Differential Driver/Receiver	16-TSSOP	1.55	1.24	.93
SN65C1168PWR	296-14348-2-ND	Dual Differential Driver/Receiver	16-TSSOP		1612.00/2,000	
SN65HVD05D	296-12988-5-ND	High Output RS-485 Transceiver	8-SOIC	3.42	2.74	2.13
SN65HVD05P	296-15215-5-ND	High Output RS-485 Transceiver	8-Dip	3.42	2.74	2.13
SN65HVD06D	296-12989-5-ND	High Output RS-485 Transceiver	8-SOIC	3.31	2.65	2.06
SN65HVD06P	296-15095-5-ND	High Output RS-485 Transceiver	8-Dip	3.31	2.65	2.06
SN65HVD07D	296-12990-5-ND	High Output RS-485 Transceiver	8-SOIC	3.22	2.58	2.01
SN65HVD08D	296-14010-5-ND	Wide Supply Range RS-485 Transcvr	8-SOIC	4.28	3.42	2.66
SN65HVD08P	296-14011-5-ND	Wide Supply Range RS-485 Transcvr	8-Dip	4.28	3.42	2.66
SN65HVD10D	296-12645-5-ND	3.3V RS-485 Transceiver	8-SOIC	3.96	3.17	2.47
SN65HVD10QD	296-14012-5-ND	3.3V RS-485 Transceiver	8-SOIC	5.13	4.11	3.20
SN65HVD11D	296-12646-5-ND	3.3V RS-485 Transceiver	8-SOIC	3.85	3.08	2.40
SN65HVD11QD	296-14013-5-ND	3.3V RS-485 Transceiver	8-SOIC	4.93	3.95	3.07
SN65HVD12D	296-12647-5-ND	3.3V RS-485 Transceiver	8-SOIC	3.74	2.99	2.33
SN65HVD12P	296-13862-5-ND	3.3V RS-485 Transceiver	8-Dip	3.74	2.99	2.33
SN65HVD20D	296-14184-5-ND	Extended Common-Mode RS-485 Transceiver	8-SOIC	3.71	2.97	2.31
SN65HVD21D	296-14185-5-ND	Extended Common-Mode RS-485 Transceiver	8-SOIC	3.71	2.97	2.31
SN65HVD21P	296-15096-5-ND	Extended Common-Mode RS-485 Transceiver	8-Dip	3.71	2.97	2.31
SN65HVD22D	296-14186-5-ND	Extended Common-Mode RS-485 Transceiver	8-SOIC	3.71	2.97	2.31
SN65HVD22P	296-15097-5-ND	Extended Common-Mode RS-485 Transceiver	8-Dip	3.71	2.97	2.31
SN65HVD23D	296-15230-5-ND	Extended Common-Mode RS-485 Transceiver	8-SOIC	4.05	3.24	2.52
SN65HVD23P	296-15231-5-ND	Extended Common-Mode RS-485 Transceiver	8-Dip	4.05	3.24	2.52
SN65HVD24D	296-15232-5-ND	Extended Common-Mode RS-485 Transceiver	8-SOIC	4.05	3.24	2.52
SN65HVD24P	296-15233-5-ND	Extended Common-Mode RS-485 Transceiver	8-Dip	4.05	3.24	2.52
SN65HVD230DR	296-11654-1-ND	3.3V CAN Transcvr w/Standby Mode	8-SOIC	3.04	2.43	1.89
SN65HVD230DR	296-11654-2-ND	3.3V CAN Transcvr w/Standby Mode	8-SOIC		4252.50/2,500	
SN65HVD230QD	296-13123-5-ND	3.3V CAN Transcvr w/Standby Mode	8-SOIC	3.49	2.79	2.17
SN65HVD230QDRQ1	296-15379-1-ND	3.3V CAN Transcvr w/Standby Mode	8-SOIC	3.60	2.88	2.24
SN65HVD230QDRQ1	296-15379-2-ND	3.3V CAN Transcvr w/Standby Mode	8-SOIC		5040.00/2,500	
SN65HVD231D	296-12206-5-ND	3.3V CAN Transcvr w/Sleep Mode	8-SOIC	3.04	2.43	1.89
SN65HVD231QD	296-12704-5-ND	3.3V CAN Transcvr w/Sleep Mode	8-SOIC	3.49	2.79	2.17
SN65HVD231QDRQ1	296-15380-1-ND	3.3V CAN Transcvr w/Sleep Mode	8-SOIC	3.60	2.88	2.24
SN65HVD231QDRQ1	296-15380-2-ND	3.3V CAN Transcvr w/Sleep Mode	8-SOIC		5040.00/2,500	
SN65HVD232D	296-12282-5-ND	3.3V CAN Transceiver	8-SOIC	2.93	2.34	1.82
SN65HVD232QD	296-12705-5-ND	3.3V CAN Transceiver Q100 Qualified	8-SOIC	3.38	2.70	2.10
SN65HVD232QDRQ1	296-15381-1-ND	3.3V CAN Transceiver Q100 Qualified	8-SOIC	3.38	2.70	2.10
SN65HVD232QDRQ1	296-15381-2-ND	3.3V CAN Transceiver Q100 Qualified	8-SOIC		4725.00/2,500	
SN65HVD233D	296-14639-5-ND	3.3V CAN Transceiver	8-SOIC	3.38	2.70	2.10
SN65HVD234D	296-15228-5-ND	3.3V CAN Transceiver	8-SOIC	3.26	2.61	2.03
SN65HVD235D	296-15229-5-ND	3.3V CAN Transceiver	8-SOIC	3.38	2.70	2.10
SN65HVD251D	296-13816-5-ND	5V CAN Transceiver w/Standby Mode	8-SOIC	2.15	1.72	1.29
SN65HVD485EDGKR	296-17174-1-ND	Half-Duplex RS-485 Transceiver	8-MSOP	2.38	1.90	1.43
SN65HVD485EDGKR	296-17174-2-ND	Half-Duplex RS-485 Transceiver	8-MSOP		3040.00/2,500	
SN65HVD485EDR	296-17175-1-ND	Half-Duplex RS-485 Transceiver	8-SOIC	1.68	1.34	1.01
SN65HVD485EDR	296-17175-2-ND	Half-Duplex RS-485 Transceiver	8-SOIC		2145.00/2,500	
SN65HVD485EP	296-17498-5-ND	Half-Duplex RS-485 Transceiver	8-Dip	1.68	1.34	1.01
SN65HVD1176D	296-15345-5-ND	Profibus RS-485 Transceiver	8-SOIC	3.31	2.65	2.06
SN65HVD3082ED	296-14640-5-ND	Low Power RS-485 Transceiver	8-SOIC	2.15	1.72	1.29
SN65HVD3082EP	296-15382-5-ND	Low Power RS-485 Transceiver	8-Dip	2.15	1.72	1.29
SN65HVD3085ED	296-17170-5-ND	Low Power RS-485 Transceiver	8-SOIC	2.15	1.72	1.29
SN65HVD3085EDGK	296-17171-5-ND	Low Power RS-485 Transceiver	8-MSOP	2.57	2.06	1.60
SN65HVD3088ED	296-17172-5-ND	Low Power RS-485 Transceiver	8-SOIC	2.38	1.90	1.43
SN65HVD3088EDGK	296-17173-5-ND	Low Power RS-485 Transceiver	8-MSOP	2.79	2.24	1.74
SN65LBC031D	296-9700-5-ND	High Speed CAN Transceiver	8-SOIC	3.38	2.70	2.10
SN65LBC031QD	296-9701-5-ND	High Speed CAN Transceiver	8-SOIC	3.94	3.15	2.45
SN65LBC031QDR	296-9701-1-ND	High Speed CAN Transceiver	8-SOIC	3.94	3.15	2.45
SN65LBC031QDR	296-9701-2-ND	High Speed CAN Transceiver	8-SOIC		5512.50/2,500	

(Continued)

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
		RS-232				
MAX211IDBR	296-15170-1-ND	5V, Multiple RS-232 Line Driver/ Receiver	28-SSOP	1.63	1.30	.98
MAX211IDBR	296-15170-2-ND	5V, Multiple RS-232 Line Driver/ Receiver	28-SSOP		1690.00/2,000	
MAX222IDWR	296-17256-1-ND	5V, Dual RS-232 Line Driver/Receiver	18-SOIC	1.88	1.50	1.13
MAX222IDWR	296-17256-2-ND	5V, Dual RS-232 Line Driver/Receiver	18-SOIC		1950.00/2,000	
MAX232D	296-6936-5-ND	Dual EIA-232 Driver/Receiver	16-SOIC	.84	.70	.56
MAX232DW	296-6937-5-ND	Dual EIA-232 Driver/Receiver	16-SOIC	.84	.70	.56
MAX232ID	296-6938-5-ND	Dual EIA-232 Driver/Receiver	16-SOIC	.96	.80	.64
MAX232IDW	296-6939-5-ND	Dual EIA-232 Driver/Receiver	16-SOIC	.96	.80	.64
MAX232IN	296-6940-5-ND	Dual EIA-232 Driver/Receiver	16-Dip	.90	.75	.60
MAX232N	296-1402-5-ND	Dual EIA-232 Driver/Receiver	16-Dip	.90	.75	.60
MAX232NSR	296-15895-1-ND	Dual EIA-232 Driver/Receiver	16-SOP	.90	.75	.60
MAX232NSR	296-15895-2-ND	Dual EIA-232 Driver/Receiver	16-SOP		798.00/2,000	
MAX3221CDBR	296-9593-1-ND	1-Ch., RS-232 Driver/Receiver	16-SSOP	1.38	1.10	.83
MAX3221CDBR	296-9593-2-ND	1-Ch., RS-232 Driver/Receiver	16-SSOP		1430.00/2,000	
MAX3221CPWR	296-9594-1-ND	1-Ch., RS-232 Driver/Receiver	16-TSSOP	1.25	1.00	.75
MAX3221CPWR	296-9594-2-ND	1-Ch., RS-232 Driver/Receiver	16-TSSOP		1300.00/2,000	
MAX3221IDBR	296-9595-1-ND	1-Ch., RS-232 Driver/Receiver	16-SSOP	1.50	1.20	.90
MAX3221IDBR	296-9595-2-ND	1-Ch., RS-232 Driver/Receiver	16-SSOP		1560.00/2,000	
MAX3221IPWR	296-9596-1-ND	1-Ch., RS-232 Driver/Receiver	16-TSSOP	1.50	1.20	.90
MAX3221IPWR	296-9596-2-ND	1-Ch., RS-232 Driver/Receiver	16-TSSOP		1560.00/2,000	
MAX3222CDBR	296-13082-1-ND	3-5.5V, Multichannel RS-232 Line Driver/Receiver	20-SSOP	2.13	1.70	1.28
MAX3222CDBR	296-13082-2-ND	3-5.5V, Multichannel RS-232 Line Driver/Receiver	20-SSOP		2210.00/2,000	
MAX3222CDWR	296-13083-1-ND	3-5.5V, Multichannel RS-232 Line Driver/Receiver	20-SOIC	2.13	1.70	1.28
MAX3222CDWR	296-13083-2-ND	3-5.5V, Multichannel RS-232 Line Driver/Receiver	20-SOIC		2210.00/2,000	
MAX3222CPWR	296-13084-1-ND	3-5.5V, Multichannel RS-232 Line Driver/Receiver	20-TSSOP	2.13	1.70	1.28
MAX3222CPWR	296-13084-2-ND	3-5.5V, Multichannel RS-232 Line Driver/Receiver	20-TSSOP		2210.00/2,000	
MAX3222IDBR	296-13085-1-ND	3-5.5V, Multichannel RS-232 Line Driver/Receiver	20-SSOP	2.25	1.80	1.35
MAX3222IDBR	296-13085-2-ND	3-5.5V, Multichannel RS-232 Line Driver/Receiver	20-SSOP		2340.00/2,000	
MAX3222IDWR	296-13086-1-ND	3-5.5V, Multichannel RS-232 Line Driver/Receiver	20-SOIC	2.13	1.70	1.28
MAX3222IDWR	296-13086-2-ND	3-5.5V, Multichannel RS-232 Line Driver/Receiver	20-SOIC		2340.00/2,000	
MAX3222IPWR	296-13087-1-ND	3-5.5V, Multichannel RS-232 Line Driver/Receiver	20-TSSOP	2.25	1.80	1.35
MAX3222IPWR	296-13087-2-ND	3-5.5V, Multichannel RS-232 Line Driver/Receiver	20-TSSOP		2340.00/2,000	
MAX3223CDBR	296-13088-1-ND	3-5.5V Multichannel RS-232 Line Driver/Receiver	20-SSOP	1.75	1.40	1.05
MAX3223CDBR	296-13088-2-ND	3-5.5V Multichannel RS-232 Line Driver/Receiver	20-SSOP		1820.00/2,000	
MAX3223CDWR	296-13445-1-ND	3-5.5V Multichannel RS-232 Line Driver/Receiver	20-SOIC	1.75	1.40	1.05
MAX3223CDWR	296-13445-2-ND	3-5.5V Multichannel RS-232 Line Driver/Receiver	20-SOIC		1820.00/2,000	
MAX3223CPWR	296-13089-1-ND	3-5.5V Multichannel RS-232 Line Driver/Receiver	20-TSSOP	1.75	1.40	1.05
MAX3223CPWR	296-13089-2-ND	3-5.5V Multichannel RS-232 Line Driver/Receiver	20-TSSOP		1820.00/2,000	
MAX3223IDBR	296-13090-1-ND	3-5.5V Multichannel RS-232 Line Driver/Receiver	20-SSOP	2.13	1.70	1.28
MAX3223IDBR	296-13090-2-ND	3-5.5V Multichannel RS-232 Line Driver/Receiver	20-SSOP		2210.00/2,000	
MAX3223IDWR	296-13091-1-ND	3-5.5V Multichannel RS-232 Line Driver/Receiver	20-SOIC	2.13	1.70	1.28
MAX3223IDWR	296-13091-2-ND	3-5.5V Multichannel RS-232 Line Driver/Receiver	20-SOIC		2210.00/2,000	
MAX3223IPWR	296-13092-1-ND	3-5.5V Multichannel RS-232 Line Driver/Receiver	20-TSSOP	2.13	1.70	1.28
MAX3223IPWR	296-13092-2-ND	3-5.5V Multichannel RS-232 Line Driver/Receiver	20-TSSOP		2210.00/2,000	
MAX3232CDBR	296-13093-1-ND	3-5.5V Multichannel RS-232 Line Driver/Receiver	16-SSOP	1.75	1.40	1.05
MAX3232CDBR	296-13093-2-ND	3-5.5V Multichannel RS-232 Line Driver/Receiver	16-SSOP		1820.00/2,000	
MAX3232CDR	296-13094-1-ND	3-5.5V Multichannel RS-232 Line Driver/Receiver	16-SOIC	1.75	1.40	1.05
MAX3232CDR	296-13094-2-ND	3-5.5V Multichannel RS-232 Line Driver/Receiver	16-SOIC		2240.00/2,500	
MAX3232CDWR	296-13095-1-ND	3-5.5V Multichannel RS-232 Line Driver/Receiver	16-SOIC	1.75	1.40	1.05
MAX3232CDWR	296-13095-2-ND	3-5.5V Multichannel RS-232 Line Driver/Receiver	16-SOIC		1820.00/2,000	
MAX3232CPWR	296-13096-1-ND	3-5.5V Multichannel RS-232 Line Driver/Receiver	16-TSSOP	1.75	1.40	1.05
MAX3232CPWR	296-13096-2-ND	3-5.5V Multichannel RS-232 Line Driver/Receiver	16-TSSOP		1820.00/2,000	
MAX3232IDBR	296-13097-1-ND	3-5.5V Multichannel RS-232 Line Driver/Receiver	16-SSOP	1.88	1.50	1.13
MAX3232IDBR	296-13097-2-ND	3-5.5V Multichannel RS-232 Line Driver/Receiver	16-SSOP		1950.00/2,000	
MAX3232IDR	296-13098-1-ND	3-5.5V Multichannel RS-232 Line Driver/Receiver	16-SOIC	1.88	1.50	1.13
MAX3232IDR	296-13098-2-ND	3-5.5V Multichannel RS-232 Line Driver/Receiver	16-SOIC		2400.00/2,500	
MAX3232IDWR	296-13099-1-ND	3-5.5V Multichannel RS-232 Line Driver/Receiver	16-SOIC	1.88	1.50	1.13
MAX3232IDWR	296-13099-2-ND	3-5.5V Multichannel RS-232 Line Driver/Receiver	16-SOIC		1950.00/2,000	
MAX3232IPWR	296-13100-1-ND	3-5.5V Multichannel RS-232 Line Driver/Receiver	16-TSSOP	1.88	1.50	1.13
MAX3232IPWR	296-13100-2-ND	3-5.5V Multichannel RS-232 Line Driver/Receiver	16-TSSOP		1950.00/2,000	
MAX3238CDBR	296-9597-1-ND	Multichannel RS-232 Dvr./Rcvr.	28-SSOP	1.88	1.50	1.13
MAX3238CDBR	296-9597-2-ND	Multichannel RS-232 Dvr./Rcvr.	28-SSOP		1950.00/2,000	
MAX3238CPWR	296-9598-1-ND	Multichannel RS-232 Dvr./Rcvr.	28-TSSOP	1.88	1.50	1.13
MAX3238CPWR	296-9598-2-ND	Multichannel RS-232 Dvr./Rcvr.	28-TSSOP		1950.00/2,000	
MAX3238IDBR	296-9599-1-ND	Multichannel RS-232 Dvr./Rcvr.	28-SSOP	2.13	1.70	1.28
MAX3238IDBR	296-9599-2-ND	Multichannel RS-232 Dvr./Rcvr.	28-SSOP		2210.00/2,000	
MAX3238IDBRQ1	296-15187-1-ND	Multichannel RS-232 Dvr./Rcvr.	28-SSOP	2.23	1.78	1.34
MAX3238IDBRQ1	296-15187-2-ND	Multichannel RS-232 Dvr./Rcvr.	28-SSOP		2314.00/2,000	
MAX3238IPWR	296-9600-1-ND	Multichannel RS-232 Dvr./Rcvr.	28-TSSOP	2.13	1.70	1.28
MAX3238IPWR	296-9600-2-ND	Multichannel RS-232 Dvr./Rcvr.	28-TSSOP		2210.00/2,000	
MAX3238IPWRQ1	296-15189-1-ND	Multichannel RS-232 Dvr./Rcvr.	28-TSSOP	2.23	1.78	1.34
MAX3238IPWRQ1	296-15189-2-ND	Multichannel RS-232 Dvr./Rcvr.	28-TSSOP		2314.00/2,000	
MAX3243CDBR	296-6941-1-ND	Multiple RS-232 Driver/Receiver	28-SSOP	1.38	1.10	.83
MAX3243CDBR	296-6941-2-ND	Multiple RS-232 Driver/Receiver	28-SSOP		1430.00/2,000	
MAX3243CDWR	296-6942-1-ND	Multiple RS-232 Driver/Receiver	28-SOIC	1.38	1.10	.83
MAX3243CDWR	296-6942-2-ND	Multiple RS-232 Driver/Receiver	28-SOIC		715.00/1,000	
MAX3243CPW	296-6943-5-ND	Multiple RS-232 Driver/Receiver	28-TSSOP	1.38	1.10	.83
MAX3243CPWR	296-6943-1-ND	Multiple RS-232 Driver/Receiver	28-TSSOP	1.38	1.10	.83
MAX3243CPWR	296-6943-2-ND	Multiple RS-232 Driver/Receiver	28-TSSOP		1430.00/2,000	
MAX3243IDBR	296-6944-1-ND	Multiple RS-232 Driver/Receiver	28-SSOP	1.75	1.40	1.05
MAX3243IDBR	296-6944-2-ND	Multiple RS-232 Driver/Receiver	28-SSOP		1820.00/2,000	
MAX3243IDWR	296-6945-1-ND	Multiple RS-232 Driver/Receiver	28-SOIC	1.75	1.40	1.05
MAX3243IDWR	296-6945-2-ND	Multiple RS-232 Driver/Receiver	28-SOIC		910.00/1,000	
MAX3243IPWR	296-6946-1-ND	Multiple RS-232 Driver/Receiver	28-TSSOP	1.75	1.40	1.05
MAX3243IPWR	296-6946-2-ND	Multiple RS-232 Driver/Receiver	28-TSSOP		1820.00/2,000	
MC1488N	296-1404-5-ND	Quad Line Driver	14-Dip	.55	.44	.33
MC1489AN	296-9602-5-ND	Quad Line Receiver	14-Dip	.55	.44	.33
MC1489N	296-1405-5-ND	Quad Line Receiver	14-Dip	.55	.44	.33
SN65C1154N	296-11855-5-ND	Quad Low Power Driver/Receiver	20-Dip	4.28	3.42	2.66
SN65C3221DBR	296-13116-1-ND	3-5.5V, Single Channel Compatible RS-232 Line Driver/Receiver	16-SSOP	2.97	2.38	1.85
SN65C3221DBR	296-13116-2-ND	3-5.5V, Single Channel Compatible RS-232 Line Driver/Receiver	16-SSOP		3366.00/2,000	
SN65C3221PWR	296-13117-1-ND	3-5.5V, Single Channel Compatible RS-232 Line Driver/Receiver	16-TSSOP	2.97	2.38	1.85
SN65C3221PWR	296-13117-2-ND	3-5.5V, Single Channel Compatible RS-232 Line Driver/Receiver	16-TSSOP		3366.00/2,000	
SN65C3222DBR	296-15371-1-ND	3-5.5V Multichannel Compatible RS-232 Line Driver/Receiver	20-SSOP	4.05	3.24	2.52
SN65C3222DBR	296-15371-2-ND	3-5.5V Multichannel Compatible RS-232 Line Driver/Receiver	20-SSOP		4590.00/2,000	
SN65C3222DWR	296-15372-1-ND	3-5.5V Multichannel Compatible RS-232 Line Driver/Receiver	20-SOIC	4.05	3.24	2.52
SN65C3222DWR	296-15372-2-ND	3-5.5V Multichannel Compatible RS-232 Line Driver/Receiver	20-SOIC		4590.00/2,000	
SN65C3222PWR	296-15373-1-ND	3-5.5V Multichannel Compatible RS-232 Line Driver/Receiver	20-TSSOP	4.05	3.24	2.52
SN65C3222PWR	296-15373-2-ND	3-5.5V Multichannel Compatible RS-232 Line Driver/Receiver	20-TSSOP		4590.00/2,000	
SN65C3223DBR	296-13486-1-ND	3-5.5V Multichannel Compatible RS-232 Line Driver/Receiver	20-SSOP	3.51	2.81	2.19
SN65C3223DBR	296-13486-2-ND	3-5.5V Multichannel Compatible RS-232 Line Driver/Receiver	20-SSOP		3978.00/2,000	
SN65C3223DWR	296-13487-1-ND	3-5.5V Multichannel Compatible RS-232 Line Driver/Receiver	20-SOIC	3.51	2.81	2.19
SN65C3223DWR	296-13487-2-ND	3-5.5V Multichannel Compatible RS-232 Line Driver/Receiver	20-SOIC		3978.00/2,000	
SN65C3223PWR	296-13488-1-ND	3-5.5V Multichannel Compatible RS-232 Line Driver/Receiver	20-TSSOP	3.51	2.81	2.19
SN65C3223PWR	296-13488-2-ND	3-5.5V Multichannel Compatible RS-232 Line Driver/Receiver	20-TSSOP		3978.00/2,000	
SN65C3232DBR	296-15374-1-ND	3-5.5V Multichannel Compatible RS-232 Line Driver/Receiver	16-SSOP	3.78	3.03	2.36
SN65C3232DBR	296-15374-2-ND	3-5.5V Multichannel Compatible RS-232 Line Driver/Receiver	16-SSOP		4284.00/2,000	
SN65C3232DR	296-15375-1-ND	3-5.5V Multichannel Compatible RS-232 Line Driver/Receiver	16-SOIC	3.78	3.03	2.36
SN65C3232DR	296-15375-2-ND	3-5.5V Multichannel Compatible RS-232 Line Driver/Receiver	16-SOIC		5292.50/2,500	
SN65C3232DWR	296-15376-1-ND	3-5.5V Multichannel Compatible RS-232 Line Driver/Receiver	16-SOIC	3.78	3.03	2.36
SN65C3232DWR	296-15376-2-ND	3-5.5V Multichannel Compatible RS-232 Line Driver/Receiver	16-SOIC		4284.00/2,000	
SN65C3232PWR	296-15377-1-ND	3-5.5V Multichannel Compatible RS-232 Line Driver/Receiver	16-TSSOP	3.78	3.03	2.36
SN65C3232PWR	296-15377-2-ND	3-5.5V Multichannel Compatible RS-232 Line Driver/Receiver	16-TSSOP		4284.00/2,000	
SN65C3238DBR	296-12733-1-ND	3-5.5V, Multichannel Compatible RS-232 Line Driver/Receiver	28-SSOP	4.05	3.24	2.52
SN65C3238DBR	296-12733-2-ND	3-5.5V, Multichannel Compatible RS-232 Line Driver/Receiver	28-SSOP		4590.00/2,000	
SN65C3238DWR	296-13118-1-ND	3-5.5V, Multichannel Compatible RS-232 Line Driver/Receiver	28-SOIC	4.05	3.24	2.52
SN65C3238DWR	296-13118-2-ND	3-5.5V, Multichannel Compatible RS-232 Line Driver/Receiver	28-SOIC		2295.00/1,000	
SN65C3238PWR	296-13119-1-ND	3-5.5V, Multichannel Compatible RS-232 Line Driver/Receiver	28-TSSOP	4.05	3.24	2.52
SN65C3238PWR	296-13119-2-ND	3-5.5V, Multichannel Compatible RS-232 Line Driver/Receiver	28-TSSOP		4590.00/2,000	
SN65C3243DBR	296-13120-1-ND	3-5.5V, Multichannel Compatible RS-232 Line Driver/Receiver	28-SSOP	4.32	3.46	2.69
SN65C3243DBR	296-13120-2-ND	3-5.5V, Multichannel Compatible RS-232 Line Driver/Receiver	28-SSOP		4896.00/2,000	
SN65C3243DWR	296-13121-1-ND	3-5.5V, Multichannel Compatible RS-232 Line Driver/Receiver	28-SOIC	4.32	3.46	2.69
SN65C3243DWR	296-13121-2-ND	3-5.5V, Multichannel Compatible RS-232 Line Driver/Receiver	28-SOIC		2448.00/1,000	
SN65C3243PWR	296-13122-1-ND	3-5.5V, Multichannel Compatible RS-232 Line Driver/Receiver	28-TSSOP	4.32	3.46	2.69
SN65C3243PWR	296-13122-2-ND	3-5.5V, Multichannel Compatible RS-232 Line Driver/Receiver	28-TSSOP		4896.00/2,000	
SN65C23243DGGR	296-13114-1-ND	3-5.5V, Dual RS-232 Port	48-TSSOP	5.40	4.32	3.36

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
		4000 Family				
CD4012BE	296-2032-5-ND	Dual 4-Input NAND Gate	14-Dip	.50	.40	.30
CD4012BM96	296-14246-1-ND	Dual 4-Input NAND Gate	14-SOIC	.50	.40	.30
CD4012BM96	296-14246-2-ND	Dual 4-Input NAND Gate	14-SOIC		337.50/2,500	
CD4012BNSR	296-14087-1-ND	Dual 4-Input NAND Gate	14-SOP	.50	.40	.30
CD4012BNSR	296-14087-2-ND	Dual 4-Input NAND Gate	14-SOP		280.00/2,000	
CD4013BE	296-2033-5-ND	Dual CMOS D-Type Flip-Flop	14-Dip	.50	.40	.30
CD4013BM	296-12972-5-ND	Dual CMOS D-Type Flip-Flop	14-SOIC	.50	.40	.30
CD4013BNSR	296-14088-1-ND	Dual CMOS D-Type Flip-Flop	14-SOP	.50	.40	.30
CD4013BNSR	296-14088-2-ND	Dual CMOS D-Type Flip-Flop	14-SOP		280.00/2,000	
CD4013BPWR	296-14089-1-ND	Dual CMOS D-Type Flip-Flop	14-TSSOP	.50	.40	.30
CD4013BPWR	296-14089-2-ND	Dual CMOS D-Type Flip-Flop	14-TSSOP		280.00/2,000	
CD4014BE	296-2034-5-ND	8-Stage Static Shift Register	16-Dip	.56	.42	.32
CD4014BPWR	296-14248-1-ND	8-Stage Static Shift Register	16-TSSOP	.48	.36	.27
CD4014BPWR	296-14248-2-ND	8-Stage Static Shift Register	16-TSSOP		320.00/2,000	
CD4015BE	296-2035-5-ND	Dual 4-Stage Static Shift Register	16-Dip	.48	.36	.27
CD4015BPWR	296-14090-1-ND	Dual 4-Stage Static Shift Register	16-TSSOP	.48	.36	.27
CD4015BPWR	296-14090-2-ND	Dual 4-Stage Static Shift Register	16-TSSOP		280.00/2,000	
CD4016BE	296-2036-5-ND	Quad Bilateral Switch	14-Dip	.48	.36	.27
CD4016BM	296-14250-5-ND	Quad Bilateral Switch	14-SOIC	.55	.44	.33
CD4016BNSR	296-14092-1-ND	Quad Bilateral Switch	16-SOP	.55	.44	.33
CD4016BNSR	296-14092-2-ND	Quad Bilateral Switch	16-SOP		308.00/2,000	
CD4017BE	296-2037-5-ND	10 Decade Counter/Divider	16-Dip	.48	.36	.27
CD4017BNSR	296-14094-1-ND	10 Decade Counter/Divider	16-SOP	.50	.40	.30
CD4017BNSR	296-14094-2-ND	10 Decade Counter/Divider	16-SOP		308.00/2,000	
CD4017BPWR	296-14252-1-ND	10 Decade Counter/Divider	16-TSSOP	.50	.40	.30
CD4017BPWR	296-14252-2-ND	10 Decade Counter/Divider	16-TSSOP		308.00/2,000	
CD4018BE	296-14236-ND	CMOS Presettable Divide-by-N Counter	16-Dip	.56	.42	.32
CD4018BNSR	296-14095-1-ND	CMOS Presettable Divide-by-N Counter	16-SOP	.48	.36	.27
CD4018BNSR	296-14095-2-ND	CMOS Presettable Divide-by-N Counter	16-SOP		320.00/2,000	
CD4019BE	296-2038-5-ND	Quad AND/OR Select Gate	16-Dip	.48	.36	.27
CD4020BE	296-2039-5-ND	14-Bit Ripple-Carry Binary Counter/Divider	16-Dip	.48	.36	.27
CD4020BNSR	296-14097-1-ND	14-Bit Ripple-Carry Binary Counter/Divider	16-SOP	.48	.36	.27
CD4020BNSR	296-14097-2-ND	14-Bit Ripple-Carry Binary Counter/Divider	16-SOP		320.00/2,000	
CD4021BE	296-2040-5-ND	8-Stage Static Shift Register	16-Dip	.48	.36	.27
CD4021BM	296-14255-5-ND	8-Stage Static Shift Register	16-SOIC	.55	.44	.33
CD4021BPWR	296-14256-1-ND	8-Stage Static Shift Register	16-TSSOP	.55	.44	.33
CD4021BPWR	296-14256-2-ND	8-Stage Static Shift Register	16-TSSOP		308.00/2,000	
CD4022BNSR	296-14098-1-ND	Octal Counter/Divider	16-SOP	.45	.36	.27
CD4022BNSR	296-14098-2-ND	Octal Counter/Divider	16-SOP		346.00/2,000	
CD4022BPWR	296-14257-1-ND	Octal Counter/Divider	16-TSSOP	.45	.36	.27
CD4022BPWR	296-14257-2-ND	Octal Counter/Divider	16-TSSOP		346.00/2,000	
CD4023BE	296-2041-5-ND	Triple 3-Input NAND Gate	14-Dip	.48	.36	.27
CD4023BNSR	296-14099-1-ND	Triple 3-Input NAND Gate	14-SOP	.50	.40	.30
CD4023BNSR	296-14099-2-ND	Triple 3-Input NAND Gate	14-SOP		308.00/2,000	
CD4024BE	296-2042-5-ND	7-Stage, Ripple-Carry Binary Counter	14-Dip	.48	.36	.27
CD4024BM96	296-14258-1-ND	7-Stage, Ripple-Carry Binary Counter	14-SOIC	.50	.40	.30
CD4024BM96	296-14258-2-ND	7-Stage, Ripple-Carry Binary Counter	14-SOIC		372.50/2,500	
CD4024BPWR	296-12760-1-ND	7-Stage, Ripple-Carry Binary Counter	14-TSSOP	.50	.40	.30
CD4024BPWR	296-12760-2-ND	7-Stage, Ripple-Carry Binary Counter	14-TSSOP		308.00/2,000	
CD4025BE	296-2043-5-ND	Triple 3-Input NOR Gate	14-Dip	.50	.40	.30
CD4025BM96	296-14100-1-ND	Triple 3-Input NOR Gate	14-SOIC	.50	.40	.30
CD4025BM96	296-14100-2-ND	Triple 3-Input NOR Gate	14-SOIC		337.50/2,500	
CD4026BE	296-14260-5-ND	Decade Counter/Divider	16-Dip	.75	.63	.50
CD4026BPWR	296-14261-1-ND	Decade Counter/Divider	16-TSSOP	.75	.63	.50
CD4026BPWR	296-14261-2-ND	Decade Counter/Divider	16-TSSOP		666.00/2,000	
CD4027BE	296-2044-5-ND	Dual JK Master/Slave Flip-Flop	16-Dip	.55	.44	.33
CD4027BM	296-3511-5-ND	Dual JK Master/Slave Flip-Flop	16-SOIC	.55	.44	.33
CD4027BNSR	296-14101-1-ND	Dual JK Master/Slave Flip-Flop	16-SOP	.50	.40	.30
CD4027BNSR	296-14101-2-ND	Dual JK Master/Slave Flip-Flop	16-SOP		308.00/2,000	
CD4027BPWR	296-14262-1-ND	Dual JK Master/Slave Flip-Flop	16-TSSOP	.55	.44	.33
CD4027BPWR	296-14262-2-ND	Dual JK Master/Slave Flip-Flop	16-TSSOP		308.00/2,000	
CD4028BE	296-2045-5-ND	BCD-to-Decimal Decoder	16-Dip	.50	.38	.29
CD4028BM96	296-16702-1-ND	BCD-to-Decimal Decoder	16-SOIC	.50	.40	.30
CD4028BM96	296-16702-2-ND	BCD-to-Decimal Decoder	16-SOIC		372.50/2,500	
CD4028BNSR	296-12724-1-ND	BCD-to-Decimal Decoder	16-SOP	.50	.40	.30
CD4028BNSR	296-12724-2-ND	BCD-to-Decimal Decoder	16-SOP		308.00/2,000	
CD4029BE	296-2046-5-ND	Preset Up/Down Binary Counter	16-Dip	.52	.39	.30
CD4029BPWR	296-17105-1-ND	Preset Up/Down Binary Counter	16-TSSOP	.55	.44	.33
CD4029BPWR	296-17105-2-ND	Preset Up/Down Binary Counter	16-TSSOP		308.00/2,000	
CD4030BE	296-2047-5-ND	Quad Exclusive OR Gate	14-Dip	.48	.36	.27
CD4030BM	296-14263-5-ND	Quad Exclusive OR Gate	14-SOIC	.55	.44	.33
CD4030BNSR	296-14102-1-ND	Quad Exclusive OR Gate	14-SOP	.50	.40	.30
CD4030BNSR	296-14102-2-ND	Quad Exclusive OR Gate	14-SOP		308.00/2,000	
CD4030BPWR	296-14103-1-ND	Quad Exclusive OR Gate	14-TSSOP	.50	.40	.30
CD4030BPWR	296-14103-2-ND	Quad Exclusive OR Gate	14-TSSOP		308.00/2,000	
CD4033BE	296-14264-5-ND	Decade Counter/Divider	16-Dip	1.44	1.20	.96
CD4034BE	296-14237-ND	CMOS 8-Stage Static Bidirectional Parallel/Serial Input/Output Bus Register	24-Dip	1.53	1.22	.92
CD4035BE	296-2163-5-ND	CMOS 4-Stage Parallel In/Parallel Out Shift Register	16-Dip	1.44	1.20	.96
CD4035BPWR	296-14267-1-ND	CMOS 4-Stage Parallel In/Parallel Out Shift Register	16-TSSOP	1.44	1.20	.96
CD4035BPWR	296-14267-2-ND	CMOS 4-Stage Parallel In/Parallel Out Shift Register	16-TSSOP		1276.00/2,000	
CD4040BE	296-2048-5-ND	12-Stage, CMOS Ripply-Carry Binary Counter/Divider	16-Dip	.48	.36	.27
CD4040BNSR	296-13770-1-ND	12-Stage, CMOS Ripply-Carry Binary Counter/Divider	16-SOP	.50	.40	.30
CD4040BNSR	296-13770-2-ND	12-Stage, CMOS Ripply-Carry Binary Counter/Divider	16-SOP		308.00/2,000	
CD4040BPWR	296-12761-1-ND	12-Stage, CMOS Ripply-Carry Binary Counter/Divider	14-TSSOP	.55	.44	.33
CD4040BPWR	296-12761-2-ND	12-Stage, CMOS Ripply-Carry Binary Counter/Divider	14-TSSOP		308.00/2,000	
CD4041UBE	296-2164-5-ND	Quad True/Complement Buffer	14-Dip	.72	.54	.41
CD4041UBPWR	296-14104-1-ND	Quad True/Complement Buffer	14-TSSOP	.72	.54	.41
CD4041UBPWR	296-14104-2-ND	Quad True/Complement Buffer	14-TSSOP		478.00/2,000	
CD4042BE	296-2049-5-ND	Quad D-Type Latch	16-Dip	.48	.36	.27
CD4043BE	296-2050-5-ND	Tri-State Quad NOR R/S Latch	16-Dip	.48	.36	.27
CD4043BDW	296-14269-5-ND	Tri-State Quad NOR R/S Latch	16-SOIC	.55	.44	.33
CD4043BNSR	296-14105-1-ND	Tri-State Quad NOR R/S Latch	16-SOP	.55	.44	.33
CD4043BNSR	296-14105-2-ND	Tri-State Quad NOR R/S Latch	16-SOP		308.00/2,000	
CD4043BPWR	296-14106-1-ND	Tri-State Quad NOR R/S Latch	16-TSSOP	.55	.44	.33
CD4043BPWR	296-14106-2-ND	Tri-State Quad NOR R/S Latch	16-TSSOP		308.00/2,000	
CD4044BE	296-2051-5-ND	Quad NAND R/S Latch	16-Dip	.60	.45	.34
CD4044BNSR	296-12762-1-ND	Quad NAND R/S Latch	16-SOP	.52	.39	.30
CD4044BNSR	296-12762-2-ND	Quad NAND R/S Latch	16-SOP		346.00/2,000	
CD4045BE	296-3512-5-ND	21-Stage Counter	16-Dip	.48	.36	.27
CD4045BPWR	296-14107-1-ND	21-Stage Counter	16-TSSOP	.48	.36	.27
CD4045BPWR	296-14107-2-ND	21-Stage Counter	16-TSSOP		320.00/2,000	
CD4046BE	296-2052-5-ND	Micropower Phase Lock Loop	16-Dip	.52	.39	.30
CD4046BNSR	296-14108-1-ND	Micropower Phase Lock Loop	16-SOP	.52	.39	.30
CD4046BNSR	296-14108-2-ND	Micropower Phase Lock Loop	16-SOP		346.00/2,000	
CD4046BPWR	296-14109-1-ND	Micropower Phase Lock Loop	16-TSSOP	.52	.39	.30
CD4046BPWR	296-14109-2-ND	Micropower Phase Lock Loop	16-TSSOP		346.00/2,000	
CD4047BE	296-2053-5-ND	CMOS Low Power Monostable/Astable Multivibrator	14-Dip	.55	.44	.33
CD4047BNSR	296-14110-1-ND	CMOS Low Power Monostable/Astable Multivibrator	14-SOP	.50	.40	.30
CD4047BNSR	296-14110-2-ND	CMOS Low Power Monostable/Astable Multivibrator	14-SOP		308.00/2,000	
CD4047BPWR	296-13642-1-ND	CMOS Low Power Monostable/Astable Multivibrator	14-TSSOP	.50	.40	.30
CD4047BPWR	296-13642-2-ND	CMOS Low Power Monostable/Astable Multivibrator	14-TSSOP		308.00/2,000	
CD4048BE	296-2054-5-ND	Expandable 8-Input Gate	16-Dip	.55	.44	.33
CD4049UBE	296-2055-5-ND	Hex Inverting Buffer/Converter	16-Dip	.48	.36	.27
CD4049UBNSR	296-14112-1-ND	Hex Inverting Buffer/Converter	16-SOP	.50	.40	.30
CD4049UBNSR	296-14112-2-ND	Hex Inverting Buffer/Converter	16-SOP		308.00/2,000	
CD4050BE	296-2056-5-ND	Hex Non-Inverting Buffer/Converter	16-Dip	.48	.36	.27
CD4050BDWR	296-14270-1-ND	Hex Non-Inverting Buffer/Converter	16-SOIC	.50	.40	.30
CD4050BDWR	296-14270-2-ND	Hex Non-Inverting Buffer/Converter	16-SOIC		308.00/2,000	
CD4050BNSR	296-14113-1-ND	Hex Non-Inverting Buffer/Converter	16-SOP	.50	.40	.30
CD4050BNSR	296-14113-2-ND	Hex Non-Inverting Buffer/Converter	16-SOP		308.00/2,000	
CD4051BE	296-2057-5-ND	8-Channel Analog Mux/Demux	16-Dip	.52	.39	.30
CD4051BM96	296-14271-1-ND	8-Channel Analog Mux/Demux	16-SOIC	.48	.36	.27
CD4051BM96	296-14271-2-ND	8-Channel Analog Mux/Demux	16-SOIC		390.00/2,500	
CD4051BNSR	296-14115-1-ND	8-Channel Analog Mux/Demux	16-SOP	.48	.36	.27
CD4051BNSR	296-14115-2-ND	8-Channel Analog Mux/Demux	16-SOP		320.00/2,000	
CD4051BPWR	296-11993-1-ND	8-Channel Analog Mux/Demux	16-TSSOP	.48	.36	.27
CD4051BPWR	296-11993-2-ND	8-Channel Analog Mux/Demux	16-TSSOP		320.00/2,000	
CD4051BQPWRQ1	296-17760-1-ND	8-Channel Analog Mux/Demux ***NEW!***	16-TSSOP	.52	.39	.30
CD4051BQPWRQ1	296-17760-2-ND	8-Channel Analog Mux/Demux ***NEW!***	16-TSSOP		344.00/2,000	
CD4052BE	296-2058-5-ND	4-Channel Analog Mux/Demux	16-Dip	.48	.36	.27
CD4052BM96	296-14272-1-ND	4-Channel Analog Mux/Demux	16-SOIC	.50	.40	.30
CD4052BM96	296-14272-2-ND	4-Channel Analog Mux/Demux	16-SOIC		372.50/2,500	
CD4052BNSR	296-14116-1-ND	4-Channel Analog Mux/Demux	16-SOP	.50	.40	.30
CD4052BNSR	296-14116-2-ND	4-Channel Analog Mux/Demux	16-SOP		308.00/2,000	
CD4052BPWR	296-14273-1-ND	4-Channel Analog Mux/Demux	16-TSSOP	.55	.44	.33
CD4052BPWR	296-14273-2-ND	4-Channel Analog Mux/Demux	16-TSSOP		308.00/2,000	
CD4053BE	296-2059-5-ND	Triple 2-Channel Analog Mux/Demux	16-Dip	.55	.44	.33
CD4053BM96	296-14274-1-ND	Triple 2-Channel Analog Mux/Demux	16-SOIC	.50	.40	.30
CD4053BM96	296-14274-2-ND	Triple 2-Channel Analog Mux/Demux	16-SOIC		372.50/2,500	
CD4053BPWR	296-14117-1-ND	Triple 2-Channel Analog Mux/Demux	16-TSSOP	.55	.44	.33
CD4053BPWR	296-14117-2-ND	Triple 2-Channel Analog Mux/Demux	16-TSSOP		308.00/2,000	
CD4054BE	296-3514-5-ND	CMOS 4-Segment LCD Driver	16-Dip	.52	.39	.30
CD4055BE	296-14275-5-ND	BCD to 7-Segment Decoder/Driver	16-Dip	.72	.54	.41
CD4056BE	296-14118-5-ND	BCD to 7-Segment Decoder/Driver	16-Dip	.56	.42	.32
CD4059AE	296-3515-5-ND	CMOS Prog. Divide-by-N Counter	24-Dip	2.48	1.98	1.49
CD4060BE	296-2060-5-ND	14-Stage Ripple Counter/Divider and Oscillator	16-Dip	.48	.36	.27
CD4060BPWR	296-14119-1-ND	14-Stage Ripple Counter/Divider and Oscillator	16-TSSOP	.55	.44	.33
CD4060BPWR	296-14119-2-ND	14-Stage Ripple Counter/Divider and Oscillator	16-TSSOP		308.00/2,000	
CD4063BE	296-14120-5-ND	4-Bit Magnitude Comparator	16-Dip	.72	.54	.41
CD4063BNSR	296-14121-1-ND	4-Bit Magnitude Comparator	16-SOP	.64	.48	.36
CD4063BNSR	296-14121-2-ND	4-Bit Magnitude Comparator	16-SOP		426.00/2,000	
CD4066BE	296-2061-5-ND	Quad Bilateral Switch	14-Dip	.55	.44	.33
CD4066BM	296-3516-5-ND	Quad Bilateral Switch	14-SOIC	.55	.44	.33
CD4066BM96	296-14475-1-ND	Quad Bilateral Switch	14-SOIC	.55	.44	.33
CD4066BM96	296-14475-2-ND	Quad Bilateral Switch	14-SOIC		372.50/2,500	
CD4066BNSR	296-14122-1-ND	Quad Bilateral Switch	14-SOP	.55	.44	.33
CD4066BNSR	296-14122-2-ND	Quad Bilateral Switch	14-SOP		308.00/2,000	
CD4066BPWR	296-14123-1-ND	Quad Bilateral Switch	14-TSSOP	.55	.44	.33
CD4066BPWR	296-14123-2-ND	Quad Bilateral Switch	14-TSSOP		308.00/2,000	
CD4067BE	296-3517-5-ND	Single 16-Channel Analog Mux/Demux	24-Dip	1.35	1.13	.90
CD4068BE	296-14124-5-ND	8-Input NAND/AND Gate	14-Dip	.48	.36	.27
CD4068BM96	296-15355-1-ND	8-Input NAND/AND Gate	14-SOIC	.46	.37	.29
CD4068BM96	296-15355-2-ND	8-Input NAND/AND Gate	14-SOIC		305.00/2,500	
CD4068BNSR	296-14125-1-ND	8-Input NAND/AND Gate	14-SOP	.46	.37	.29
CD4068BNSR	296-14125-2-ND	8-Input NAND/AND Gate	14-SOP		252.00/2,000	
CD4069UBE	296-3518-5-ND	Hex Inverter	14-Dip	.55	.44	.33
CD4069UBM	296-3519-5-ND	Hex Inverter	14-SOIC	.55	.44	.33
CD4069UBM96	296-14476-1-ND	Hex Inverter	14-SOIC	.50	.40	.30
CD4069UBM96	296-14476-2-ND	Hex Inverter	14-SOIC		372.50/2,500	
CD4069UBNSR	296-14126-1-ND	Hex Inverter	14-SOP	.55	.44	.33
CD4069UBNSR	296-14126-2-ND	Hex Inverter	14-SOP		308.00/2,000	
CD4069UBPWR	296-14127-1-ND	Hex Inverter	14-TSSOP	.55	.44	.33
CD4069UBPWR	296-14127-2-ND	Hex Inverter	14-TSSOP		308.00/2,000	
CD4070BE	296-14128-5-ND	Quad Exclusive OR Gate	14-Dip	.55	.44	.33
CD4070BM	296-14276-5-ND	Quad Exclusive OR Gate	14-SOIC	.45	.36	.27
CD4070BNSR	296-14129-1-ND	Quad Exclusive OR Gate	14-SOP	.46	.37	.29
CD4070BNSR	296-14129-2-ND	Quad Exclusive OR Gate	14-SOP		252.00/2,000	
CD4070BPWR	296-14277-1-ND	Quad Exclusive OR Gate	14-TSSOP	.46	.37	.29
CD4070BPWR	296-14277-2-ND	Quad Exclusive OR Gate	14-TSSOP		252.00/2,000	
CD4071BE	296-2062-5-ND	Quad 2-Input OR Gate	14-Dip	.55	.44	.33
CD4071BM	296-14278-5-ND	Quad 2-Input OR Gate	14-SOIC	.45	.36	.27
CD4071BNSR	296-14130-1-ND	Quad 2-Input OR Gate	14-SOP	.46	.37	.29
CD4071BNSR	296-14130-2-ND	Quad 2-Input OR Gate	14-SOP		252.00/2,000	
CD4071BPW	296-14131-5-ND	Quad 2-Input OR Gate	14-TSSOP	.45	.36	.27

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CD4073BE	296-2064-5-ND	Triple 3-Input AND Gate	14-Dip	.55	.44	.33
CD4073BM	296-3520-5-ND	Triple 3-Input AND Gate	14-SOIC	.55	.44	.33
CD4073BNSR	296-14133-1-ND	Triple 3-Input AND Gate	14-SOP	.55	.44	.33
CD4073BNSR	296-14133-2-ND	Triple 3-Input AND Gate	14-SOP		308.00/2,000	
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CD4073BPWR	296-14134-2-ND	Triple 3-Input AND Gate	14-TSSOP		308.00/2,000	
CD4075BE	296-2065-5-ND	Triple 3-Input OR Gate	14-Dip	.55	.44	.33
CD4075BM	296-14279-5-ND	Triple 3-Input OR Gate	14-SOIC	.45	.36	.27
CD4075BNSR	296-14136-1-ND	Triple 3-Input OR Gate	14-SOP	.46	.37	.26
CD4075BNSR	296-14136-2-ND	Triple 3-Input OR Gate	14-SOP		252.00/2,000	
CD4076BE	296-14137-5-ND	4-Bit D-Type Register	16-Dip	.60	.45	.34
CD4077BE	296-13771-5-ND	CMOS Quad Exclusive-NOR Gate	14-Dip	.48	.36	.27
CD4077BM	296-9406-5-ND	CMOS Quad Exclusive-NOR Gate	14-SOIC	.55	.44	.33
CD4078BE	296-3521-5-ND	8-Input NOR/OR Gate	14-Dip	.55	.44	.33
CD4078BM	296-14138-5-ND	8-Input NOR/OR Gate	14-SOIC	.55	.44	.33
CD4078BNSR	296-14139-1-ND	8-Input NOR/OR Gate	14-SOP	.55	.44	.33
CD4078BNSR	296-14139-2-ND	8-Input NOR/OR Gate	14-SOP		308.00/2,000	
CD4081BE	296-2066-5-ND	Quad 2-Input AND Gate	14-Dip	.55	.44	.33
CD4081BM	296-14280-5-ND	Quad 2-Input AND Gate	14-SOIC	.55	.44	.33
CD4081BNSR	296-14140-1-ND	Quad 2-Input AND Gate	14-SOP	.46	.37	.26
CD4081BNSR	296-14140-2-ND	Quad 2-Input AND Gate	14-SOP		308.00/2,000	
CD4081BPWR	296-14141-1-ND	Quad 2-Input AND Gate	14-TSSOP	.46	.37	.26
CD4081BPWR	296-14141-2-ND	Quad 2-Input AND Gate	14-TSSOP		308.00/2,000	
CD4082BE	296-2067-5-ND	Dual 4-Input AND Gate	14-Dip	.55	.44	.33
CD4085BE	296-3522-5-ND	Dual 2-Wide/2-In AND/OR Invert Gate	14-Dip	.72	.54	.41
CD4085BPWR	296-14143-1-ND	Dual 2-Wide/2-In AND/OR Invert Gate	14-TSSOP	.72	.54	.41
CD4085BPWR	296-14143-2-ND	Dual 2-Wide/2-In AND/OR Invert Gate	14-TSSOP		478.00/2,000	
CD4086BE	296-14281-5-ND	Expandable 4-Wide/2-Input AND/OR Invert Gate	14-Dip	.80	.60	.45
CD4089BE	296-2165-5-ND	Binary Rate Multiplier	16-Dip	1.20	1.00	.80
CD4089BPWR	296-3523-1-ND	Binary Rate Multiplier	16-TSSOP	1.20	1.00	.80
CD4089BPWR	296-3523-2-ND	Binary Rate Multiplier	16-TSSOP		1064.00/2,000	
CD4093BE	296-2068-5-ND	Quad 2-Input NAND Schmitt Trigger	14-Dip	.55	.44	.33
CD4093BM	296-3524-5-ND	Quad 2-Input NAND Schmitt Trigger	14-SOIC	.55	.44	.33
CD4093BNSR	296-14145-1-ND	Quad 2-Input NAND Schmitt Trigger	14-SOP	.50	.40	.30
CD4093BNSR	296-14145-2-ND	Quad 2-Input NAND Schmitt Trigger	14-SOP		308.00/2,000	
CD4093BPW	296-14146-5-ND	Quad 2-Input NAND Schmitt Trigger	14-TSSOP	.55	.44	.33
CD4093BPWR	296-13873-1-ND	Quad 2-Input NAND Schmitt Trigger	14-TSSOP	.50	.40	.30
CD4093BPWR	296-13873-2-ND	Quad 2-Input NAND Schmitt Trigger	14-TSSOP		308.00/2,000	
CD4094BE	296-2069-5-ND	8-Bit Shift Register with Latch	16-Dip	.50	.38	.29
CD4094BPWR	296-13860-1-ND	8-Bit Shift Register with Latch	16-TSSOP	.55	.44	.33
CD4094BPWR	296-13860-2-ND	8-Bit Shift Register with Latch	16-TSSOP		308.00/2,000	
CD4097BE	296-3525-5-ND	Diff. 8-Channel Analog Mux/Demux	24-Dip	1.88	1.50	1.13
CD4098BE	296-3526-5-ND	Dual Monostable Multivibrator	16-Dip	.48	.36	.27
CD4098BM	296-16736-5-ND	Dual Monostable Multivibrator	16-SOIC	.48	.36	.27
CD4099BE	296-2070-5-ND	8-Bit Addressable Latch	16-Dip	.48	.36	.27
CD4099BPWR	296-9407-1-ND	8-Bit Addressable Latch	16-TSSOP	.48	.36	.27
CD4099BPWR	296-9407-2-ND	8-Bit Addressable Latch	16-TSSOP		320.00/2,000	
CD4502BE	296-2166-5-ND	CMOS Strobed Hex Inverter/Buffer	16-Dip	.48	.36	.27
CD4502BNSR	296-14148-1-ND	Strobed Hex Inverter/Buffer	16-SOP	.48	.36	.27
CD4502BNSR	296-14148-2-ND	Strobed Hex Inverter/Buffer	16-SOP		320.00/2,000	
CD4503BE	296-2071-5-ND	Tri-State Hex Buffer	16-Dip	.48	.36	.27
CD4504BE	296-3527-5-ND	Hex Voltage-Level Shifter	16-Dip	.80	.60	.45
CD4504BM96	296-14150-1-ND	Hex Voltage-Level Shifter	16-SOIC	.80	.60	.45
CD4504BM96	296-14150-2-ND	Hex Voltage-Level Shifter	16-SOIC		650.00/2,500	
CD4504BPWR	296-12010-1-ND	Hex Voltage-Level Shifter	16-TSSOP	.80	.60	.45
CD4504BPWR	296-12010-2-ND	Hex Voltage-Level Shifter	16-TSSOP		532.00/2,000	
CD4508BE	296-14151-5-ND	Dual 4-Bit Latch	24-Dip	1.55	1.24	.93
CD4510BNSR	296-14152-1-ND	BCD Presettable Up/Down Counter	16-SOP	.48	.36	.27
CD4510BNSR	296-14152-2-ND	BCD Presettable Up/Down Counter	16-SOP		320.00/2,000	
CD4510BPWR	296-14153-1-ND	BCD Presettable Up/Down Counter	16-TSSOP	.48	.36	.27
CD4510BPWR	296-14153-2-ND	BCD Presettable Up/Down Counter	16-TSSOP		320.00/2,000	
CD4511BE	296-2072-5-ND	BCD-to-7 Segment LED Latch/Decoder/Driver	16-Dip	.55	.44	.33
CD4511BNSR	296-3528-1-ND	BCD-to-7 Segment LED Latch/Decoder/Driver	16-SOP	.48	.36	.27
CD4511BNSR	296-3528-2-ND	BCD-to-7 Segment LED Latch/Decoder/Driver	16-SOP		320.00/2,000	
CD4511BPWR	296-3529-1-ND	BCD-to-7 Segment LED Latch/Decoder/Driver	16-TSSOP	.48	.36	.27
CD4511BPWR	296-3529-2-ND	BCD-to-7 Segment LED Latch/Decoder/Driver	16-TSSOP		308.00/2,000	
CD4512BE	296-2073-5-ND	8-Channel Data Selector	16-Dip	.55	.44	.33
CD4512BM96	296-16676-1-ND	8-Channel Data Selector	16-SOIC	.55	.44	.33
CD4512BM96	296-16676-2-ND	8-Channel Data Selector	16-SOIC		372.50/2,500	
CD4514BE	296-2074-5-ND	4-Bit Latch/Line Decoder	24-Dip	1.14	.95	.76
CD4514BM	296-14282-5-ND	4-Bit Latch/Line Decoder	24-SOIC	.80	.60	.45
CD4515BE	296-2168-5-ND	4-Bit Latch/Line Decoder	24-Dip	.84	.70	.56
CD4515BM	296-14284-5-ND	4-Bit Latch/Line Decoder	24-SOIC	.80	.60	.45
CD4516BE	296-2075-5-ND	Binary Up/Down Counter	16-Dip	.64	.48	.36
CD4516BPWR	296-3530-1-ND	Binary Up/Down Counter	16-TSSOP	.64	.48	.36
CD4516BPWR	296-3530-2-ND	Binary Up/Down Counter	16-TSSOP		426.00/2,000	
CD4517BE	296-14285-5-ND	Dual 64-Stage Static Shift Register	16-Dip	1.25	1.00	.75
CD4518BE	296-2076-5-ND	Dual BCD Up Counter	16-Dip	.48	.36	.27
CD4518BNSR	296-14157-1-ND	Dual BCD Up Counter	16-SOP	.48	.36	.27
CD4518BNSR	296-14157-2-ND	Dual BCD Up Counter	16-SOP		320.00/2,000	
CD4520BE	296-2077-5-ND	Dual Binary Up Counter	16-Dip	.48	.36	.27
CD4521BE	296-14158-5-ND	24-Stage Frequency Divider	16-Dip	.76	.57	.43
CD4522BE	296-3531-5-ND	Prog. BCD Divide-by-N Counter	16-Dip	.48	.36	.27
CD4527BE	296-3532-5-ND	BCD Rate Multiplier	16-Dip	.48	.36	.27
CD4527BNSR	296-14159-1-ND	BCD Rate Multiplier	16-SOP	.48	.36	.27
CD4527BNSR	296-14159-2-ND	BCD Rate Multiplier	16-SOP		320.00/2,000	
CD4527BPWR	296-14160-1-ND	BCD Rate Multiplier	16-TSSOP	.48	.36	.27
CD4527BPWR	296-14160-2-ND	BCD Rate Multiplier	16-TSSOP		320.00/2,000	
CD4532BE	296-3533-5-ND	8-Bit Priority Encoder	16-Dip	.48	.36	.27
CD4532BPWR	296-14161-1-ND	8-Bit Priority Encoder	16-TSSOP	.48	.36	.27
CD4532BPWR	296-14161-2-ND	8-Bit Priority Encoder	16-TSSOP		320.00/2,000	
CD4536BE	296-3534-5-ND	CMOS Programmable Timer	16-Dip	.72	.54	.41
CD4536BNSR	296-14304-1-ND	CMOS Programmable Timer	16-SOP	.64	.48	.36
CD4536BNSR	296-14304-2-ND	CMOS Programmable Timer	16-SOP		426.00/2,000	
CD4541BE	296-2078-5-ND	Programmable Timer	14-Dip	.55	.44	.33
CD4541BM	296-3535-5-ND	Programmable Timer	14-SOIC	.55	.44	.33
CD4541BM96	296-3536-1-ND	Programmable Timer	14-SOIC	.55	.44	.33
CD4541BM96	296-3536-2-ND	Programmable Timer	14-SOIC		372.50/2,500	
CD4543BE	296-2079-5-ND	BCD to 7-Segment Decoder Driver	16-Dip	.55	.44	.33
CD4543BPWR	296-17106-1-ND	BCD to 7-Segment Decoder Driver	16-TSSOP	.45	.36	.27
CD4543BPWR	296-17106-2-ND	BCD to 7-Segment Decoder Driver	16-TSSOP		308.00/2,000	
CD4555BE	296-14286-5-ND	Dual Binary to 1-of-4 Decoder/Demux	16-Dip	.32	.42	.32
CD4556BE	296-3537-5-ND	Dual Binary to 1-of-4 Decoder/Demux	16-Dip	.56	.42	.32
CD4572UBE	296-14287-5-ND	CMOS Hex Gate	16-Dip	.99	.83	.66
CD4585BE	296-2080-5-ND	4-Bit Magnitude Comparator	16-Dip	.56	.42	.32
CD4724BE	296-2169-5-ND	8-Bit Addressable Latch	16-Dip	.60	.45	.34
CD4724BPWR	296-14162-1-ND	8-Bit Addressable Latch	16-TSSOP	.60	.45	.34
CD4724BPWR	296-14162-2-ND	8-Bit Addressable Latch	16-TSSOP		400.00/2,000	
CD14538BE	296-14074-5-ND	Dual Precision Monostable Multivibrator	16-Dip	.64	.48	.36
CD14538BNSR	296-14075-1-ND	Dual Precision Monostable Multivibrator	16-SOP	.64	.48	.36
CD14538BNSR	296-14075-2-ND	Dual Precision Monostable Multivibrator	16-SOP		426.00/2,000	
CD14538BPWR	296-12018-1-ND	CMOS Dual Precision Monostable Multivibrator	16-TSSOP	.64	.48	.36
CD14538BPWR	296-12018-2-ND	CMOS Dual Precision Monostable Multivibrator	16-TSSOP		426.00/2,000	
CD40102BE	296-14079-5-ND	2-Decade BCD 8-Stage Sync. Down Counter	16-Dip	.96	.72	.54
CD40102BPWR	296-14241-1-ND	2-Decade BCD 8-Stage Sync. Down Counter	16-TSSOP	.96	.72	.54
CD40102BPWR	296-14241-2-ND	2-Decade BCD 8-Stage Sync. Down Counter	16-TSSOP		638.00/2,000	
CD40103BE	296-14080-5-ND	8-Bit Binary 8-Stage Sync. Down Counter	16-Dip	.96	.72	.54
CD40105BE	296-14242-5-ND	CMOS FIFO Register	16-Dip	1.28	1.02	.77
CD40106BE	296-3503-5-ND	Hex Schmitt Trigger	14-Dip	.50	.40	.30
CD40106BM96	296-14081-1-ND	Hex Schmitt Trigger	14-SOIC	.50	.40	.30
CD40106BM96	296-14081-2-ND	Hex Schmitt Trigger	14-SOIC		337.50/2,500	
CD40106BPWR	296-14082-1-ND	Hex Schmitt Trigger	14-TSSOP	.50	.40	.30
CD40106BPWR	296-14082-2-ND	Hex Schmitt Trigger	14-TSSOP		280.00/2,000	
CD40107BE	296-3504-5-ND	Dual 2-Input NAND Buffer/Driver	8-Dip	.56	.42	.32
CD40107BPSR	296-14083-1-ND	Dual 2-Input NAND Buffer/Driver	8-SOP	.56	.42	.32
CD40107BPSR	296-14083-2-ND	Dual 2-Input NAND Buffer/Driver	8-SOP		372.00/2,000	
CD40109BE	296-3505-5-ND	Quad Low-High Voltage Level Shifter	16-Dip	.80	.60	.45
CD40109BPWR	296-12163-1-ND	Quad Low-High Voltage Level Shifter	16-TSSOP	1.14	.95	.76
CD40109BPWR	296-12163-2-ND	Quad Low-High Voltage Level Shifter	16-TSSOP		532.00/2,000	
CD40110BE	296-3506-5-ND	Decade Up-Down Counter/Latch/Display Driver	16-Dip	1.50	1.20	.90
CD40117BE	296-14244-5-ND	Programmable Dual 4-Bit Terminator	14-Dip	.84	.63	.48
CD40147BE	296-14247-5-ND	10-4 BCD Priority Encoder	16-Dip	1.14	.95	.76
CD40161BE	296-2170-5-ND	Synchronous 4-Bit Binary Counter	16-Dip	.48	.36	.27
CD40161BNSR	296-14091-1-ND	Synchronous 4-Bit Binary Counter	16-SOP	.55	.44	.33
CD40161BNSR	296-14091-2-ND	Synchronous 4-Bit Binary Counter	16-SOP		308.00/2,000	
CD40161BPWR	296-14249-1-ND	Synchronous 4-Bit Binary Counter	16-TSSOP	.48	.36	.27
CD40161BPWR	296-14249-2-ND	Synchronous 4-Bit Binary Counter	16-TSSOP		320.00/2,000	
CD40174BE	296-3508-5-ND	Hex D-Type Flip-Flop	16-Dip	.52	.39	.30
CD40175BE	296-14251-5-ND	Quad D-Type Flip-Flop	16-Dip	.55	.44	.33
CD40175BPWR	296-14093-1-ND	Quad D-Type Flip-Flop	16-TSSOP	.55	.44	.33
CD40175BPWR	296-14093-2-ND	Quad D-Type Flip-Flop	16-TSSOP		308.00/2,000	
CD40192BE	296-3509-5-ND	Presettable Up/Down BCD Counter (Dual Clock with Reset)	16-Dip	.56	.42	.32
CD40192BNSR	296-14096-1-ND	Presettable Up/Down Counter	16-SOP	.56	.42	.32
CD40192BNSR	296-14096-2-ND	Presettable Up/Down Counter	16-SOP		372.00/2,000	
CD40193BE	296-3510-5-ND	Presettable Up/Down Binary Counter (Dual Clock with Reset)	16-Dip	.56	.42	.32
CD40193BPWR	296-14253-1-ND	Presettable Up/Down Binary Counter (Dual Clock with Reset)	16-TSSOP	.56	.42	.32
CD40193BPWR	296-14253-2-ND	Presettable Up/Down Binary Counter (Dual Clock with Reset)	16-TSSOP		372.00/2,000	
CD40194BE	296-14254-5-ND	4-Bit Bidirectional Univ. Shift Register	16-Dip	.92	.69	.52
CD40257BE	296-14259-5-ND	Quad 2-1 Data Selector/Multiplexer	16-Dip	.80	.60	.45

ABT Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74ABT125D	296-1019-5-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	.64	.48	.36
SN74ABT125DR	296-1019-1-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	.64	.48	.36
SN74ABT125DR	296-1019-2-ND	Tri-State Quad Bus Buffer Gate	14-SOIC		520.00/2,500	
SN74ABT125DBR	296-3875-1-ND	Tri-State Quad Bus Buffer Gate	14-SSOP	.64	.48	.36
SN74ABT125DBR	296-3875-2-ND	Tri-State Quad Bus Buffer Gate	14-SSOP		426.00/2,000	
SN74ABT125N	296-3876-5-ND	Tri-State Quad Bus Buffer Gate	14-Dip	.64	.48	.36
SN74ABT125PWR	296-3877-1-ND	Tri-State Quad Bus Buffer Gate	14-TSSOP	.70	.53	.40
SN74ABT125PWR	296-3877-2-ND	Tri-State Quad Bus Buffer Gate	14-TSSOP		468.00/2,000	
SN74ABT125RGYR	296-13888-1-ND	Tri-State Quad Bus Buffer Gate	14-QFN	.80	.60	.45
SN74ABT125RGYR	296-13888-2-ND	Tri-State Quad Bus Buffer Gate	14-QFN		266.00/1,000	
SN74ABT126DR	296-1020-1-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	.64	.48	.36
SN74ABT126DR	296-1020-2-ND	Tri-State Quad Bus Buffer Gate	14-SOIC		520.00/2,500	
SN74ABT126DBR	296-3878-1-ND	Tri-State Quad Bus Buffer Gate	14-SSOP	.64	.48	.36
SN74ABT126DBR	296-3878-2-ND	Tri-State Quad Bus Buffer Gate	14-SSOP		426.00/2,000	
SN74ABT126N	296-3879-5-ND	Tri-State Quad Bus Buffer Gate	14-Dip	.64	.48	.36
SN74ABT126PWR	296-3880-1-ND	Tri-State Quad Bus Buffer Gate	14-TSSOP	.70	.53	.40
SN74ABT126PWR	296-3880-2-ND	Tri-State Quad Bus Buffer Gate	14-TSSOP		468.00/2,000	
SN74ABT126RGYR	296-13889-1-ND	Tri-State Quad Bus Buffer Gate	14-QFN	.80	.60	.45
SN74ABT126RGYR	296-13889-2-ND	Tri-State Quad Bus Buffer Gate	14-QFN		266.00/1,000	
SN74ABT240ADBR	296-3959-1-ND	Tri-State Octal Buffer/Driver	20-SSOP	.88	.66	.50
SN74ABT240ADBR	296-3959-2-ND	Tri-State Octal Buffer/Driver	20-SSOP		586.00/2,000	
SN74ABT240ADW	296-3960-5-ND	Tri-State Octal Buffer/Driver	20-SOIC	.88	.66	.50
SN74ABT240ADWR	296-14662-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	.88	.66	.50
SN74ABT240ADWR	296-14662-2-ND	Tri-State Octal Buffer/Driver	20-SOIC		586.00/2,000	
SN74ABT240AN	296-3961-5-ND	Tri-State Octal Buffer/Driver	20-Dip	.88	.66	.50
SN74ABT240APWR	296-3962-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	.96	.72	.54
SN74ABT240APWR	296-3962-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP		638.00/2,000	
SN74ABT241ADBR	296-3963-1-ND	Tri-State Octal Buffer/Driver	20-SSOP	.88	.66	.50
SN74ABT241ADBR	296-3963-2-ND	Tri-State Octal Buffer/Driver	20-SSOP		586.00/2,000	
SN74ABT241ADW	296-3964-5-ND	Tri-State Octal Buffer/Driver	20-SOIC	.88	.66	.50
SN74ABT241ADWR	296-14663-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	.88	.66	.50
SN74ABT241ADWR	296-14663-2-ND	Tri-State Octal Buffer/Driver	20-SOIC		586.00/2,000	
SN74ABT241AN	296-3965-5-ND	Tri-State Octal Buffer/Driver	20-Dip	.88	.66	.50
SN74ABT241APWR	296-3966-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	.96	.72	.54
SN74ABT241APWR	296-3966-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP		638.00/2,000	

(Continued)

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AHCT Family						
SN74AHCT573DW	296-4758-5-ND	Tri-St. Octal Transp. D-Type Latch	20-SOIC	.60	.45	.34
SN74AHCT573DWR	296-4758-1-ND	Tri-St. Octal Transp. D-Type Latch	20-SOIC	.60	.45	.34
SN74AHCT573DWR	296-4758-2-ND	Tri-St. Octal Transp. D-Type Latch	20-SOIC		400.00/2,000	
SN74AHCT573N	296-4759-5-ND	Tri-St. Octal Transp. D-Type Latch	20-Dip	.66	.50	.38
SN74AHCT573PWR	296-1121-1-ND	Tri-St. Octal Transp. D-Type Latch	20-TSSOP	.60	.45	.34
SN74AHCT573PWR	296-1121-2-ND	Tri-St. Octal Transp. D-Type Latch	20-TSSOP		400.00/2,000	
SN74AHCT574DBR	296-4760-1-ND	Tri-State Octal D-Type Flip-Flop	20-SSOP	.60	.45	.34
SN74AHCT574DBR	296-4760-2-ND	Tri-State Octal D-Type Flip-Flop	20-SSOP		400.00/2,000	
SN74AHCT574DGVR	296-4761-1-ND	Tri-State Octal D-Type Flip-Flop	20-TVSOP	.60	.45	.34
SN74AHCT574DGVR	296-4761-2-ND	Tri-State Octal D-Type Flip-Flop	20-TVSOP		400.00/2,000	
SN74AHCT574DWR	296-4762-1-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.60	.45	.34
SN74AHCT574DWR	296-4762-2-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC		400.00/2,000	
SN74AHCT574N	296-4763-5-ND	Tri-State Octal D-Type Flip-Flop	20-Dip	.66	.50	.38
SN74AHCT574PWR	296-4764-1-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	.60	.45	.34
SN74AHCT574PWR	296-4764-2-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP		400.00/2,000	
SN74AHCT594D	296-4765-5-ND	8-Bit Shift Register w/Output Register	16-SOIC	.96	.72	.54
SN74AHCT594DBR	296-4766-1-ND	8-Bit Shift Register w/Output Register	16-SSOP	.96	.72	.54
SN74AHCT594DBR	296-4766-2-ND	8-Bit Shift Register w/Output Register	16-SSOP		638.00/2,000	
SN74AHCT594PWR	296-4767-1-ND	8-Bit Shift Register w/Output Register	16-TSSOP	.96	.72	.54
SN74AHCT594PWR	296-4767-2-ND	8-Bit Shift Register w/Output Register	16-TSSOP		638.00/2,000	
SN74AHCT595D	296-14308-5-ND	Tri-State 8-Bit Shift Register	16-SOIC	.96	.72	.54
SN74AHCT595DBR	296-13490-1-ND	Tri-State 8-Bit Shift Register	16-SSOP	.96	.72	.54
SN74AHCT595DBR	296-13490-2-ND	Tri-State 8-Bit Shift Register	16-SSOP		638.00/2,000	
SN74AHCT595PWR	296-9758-1-ND	Tri-State 8-Bit Shift Register	16-TSSOP	.96	.72	.54
SN74AHCT595PWR	296-9758-2-ND	Tri-State 8-Bit Shift Register	16-TSSOP		638.00/2,000	
SN74AHCT16240DGGR	296-4681-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1.45	1.16	.87
SN74AHCT16240DGGR	296-4681-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP		1508.00/2,000	
SN74AHCT16240DGVR	296-4682-1-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	1.45	1.16	.87
SN74AHCT16240DGVR	296-4682-2-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP		1542.00/2,000	
SN74AHCT16240DL	296-4683-5-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	1.45	1.16	.87
SN74AHCT16244DGGR	296-4684-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1.45	1.16	.87
SN74AHCT16244DGGR	296-4684-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP		1508.00/2,000	
SN74AHCT16244DGVR	296-4685-1-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	1.45	1.16	.87
SN74AHCT16244DGVR	296-4685-2-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP		1508.00/2,000	
SN74AHCT16244DL	296-4686-5-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	1.45	1.16	.87
SN74AHCT16245DGGR	296-4687-1-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	1.45	1.16	.87
SN74AHCT16245DGGR	296-4687-2-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP		1508.00/2,000	
SN74AHCT16245DGVR	296-4688-1-ND	Tri-State 16-Bit Bus Transceiver	48-TVSOP	1.45	1.16	.87
SN74AHCT16245DGVR	296-4688-2-ND	Tri-State 16-Bit Bus Transceiver	48-TVSOP		1508.00/2,000	
SN74AHCT16245DL	296-4689-5-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	1.45	1.16	.87
SN74AHCT16373DGGR	296-4690-1-ND	Tri-State 16-Bit Transp. D-Type Latch	48-TSSOP	1.45	1.16	.87
SN74AHCT16373DGGR	296-4690-2-ND	Tri-State 16-Bit Transp. D-Type Latch	48-TSSOP		1508.00/2,000	
SN74AHCT16373DGVR	296-4691-1-ND	Tri-State 16-Bit Transp. D-Type Latch	48-TVSOP	1.45	1.16	.87
SN74AHCT16373DGVR	296-4691-2-ND	Tri-State 16-Bit Transp. D-Type Latch	48-TVSOP		1508.00/2,000	
SN74AHCT16373DL	296-4692-5-ND	Tri-State 16-Bit Transp. D-Type Latch	48-SSOP	1.45	1.16	.87
SN74AHCT16374DGGR	296-4693-1-ND	Tri-State 16-Bit D-Type Flip-Flop	48-TSSOP	1.45	1.16	.87
SN74AHCT16374DGGR	296-4693-2-ND	Tri-State 16-Bit D-Type Flip-Flop	48-TSSOP		1508.00/2,000	
SN74AHCT16374DGVR	296-4694-1-ND	Tri-State 16-Bit D-Type Flip-Flop	48-TVSOP	1.45	1.16	.87
SN74AHCT16374DGVR	296-4694-2-ND	Tri-State 16-Bit D-Type Flip-Flop	48-TVSOP		1508.00/2,000	
SN74AHCT16374DLR	296-4695-1-ND	Tri-State 16-Bit D-Type Flip-Flop	48-SSOP	1.50	1.20	.90
SN74AHCT16374DLR	296-4695-2-ND	Tri-State 16-Bit D-Type Flip-Flop	48-SSOP		780.00/1,000	
SN74AHCT16540DGGR	296-4696-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1.45	1.16	.87
SN74AHCT16540DGGR	296-4696-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP		1508.00/2,000	
SN74AHCT16540DGVR	296-4697-1-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	1.45	1.16	.87
SN74AHCT16540DGVR	296-4697-2-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP		1508.00/2,000	
SN74AHCT16540DL	296-4698-5-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	1.45	1.16	.87
SN74AHCT16541DGGR	296-4699-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1.45	1.16	.87
SN74AHCT16541DGGR	296-4699-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP		1508.00/2,000	
SN74AHCT16541DGVR	296-4700-1-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	1.45	1.16	.87
SN74AHCT16541DGVR	296-4700-2-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP		1508.00/2,000	
SN74AHCT16541DL	296-4701-5-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	1.45	1.16	.87
AHCU Family						
SN74AHCU04D	296-9759-5-ND	Hex Inverter	14-SOIC	.46	.37	.26
SN74AHCU04DBR	296-9760-1-ND	Hex Inverter	14-SSOP	.46	.37	.26
SN74AHCU04DBR	296-9760-2-ND	Hex Inverter	14-SSOP		252.00/2,000	
SN74AHCU04DGVR	296-9761-1-ND	Hex Inverter	14-TVSOP	.46	.37	.26
SN74AHCU04DGVR	296-9761-2-ND	Hex Inverter	14-TVSOP		252.00/2,000	
SN74AHCU04N	296-9762-5-ND	Hex Inverter	14-Dip	.46	.37	.26
SN74AHCU04PWR	296-9763-1-ND	Hex Inverter	14-TSSOP	.46	.37	.26
SN74AHCU04PWR	296-9763-2-ND	Hex Inverter	14-TSSOP		252.00/2,000	
SN74AHCU04RGYR	296-13916-1-ND	Hex Inverter	14-QFN	.48	.38	.29
SN74AHCU04RGYR	296-13916-2-ND	Hex Inverter	14-QFN		133.00/1,000	
Microgate Family						
SN74AHC1G00DBVR	296-1087-1-ND	Single 2-Input NAND Gate	SOT-23-5	.36	.29	.20
SN74AHC1G00DBVR	296-1087-2-ND	Single 2-Input NAND Gate	SOT-23-5		282.00/3,000	
SN74AHC1G00DCKR	296-8741-1-ND	Single 2-Input NAND Gate	SC70-5	.36	.29	.20
SN74AHC1G00DCKR	296-8741-2-ND	Single 2-Input NAND Gate	SC70-5		282.00/3,000	
SN74AHC1G02DBVR	296-1088-1-ND	Single 2-Input NOR Gate	SOT-23-5	.36	.29	.20
SN74AHC1G02DBVR	296-1088-2-ND	Single 2-Input NOR Gate	SOT-23-5		282.00/3,000	
SN74AHC1G02DCKR	296-8742-1-ND	Single 2-Input NOR Gate	SC70-5	.36	.29	.20
SN74AHC1G02DCKR	296-8742-2-ND	Single 2-Input NOR Gate	SC70-5		282.00/3,000	
SN74AHC1G04DBVR	296-1089-1-ND	Single Inverter Gate	SOT-23-5	.36	.29	.20
SN74AHC1G04DBVR	296-1089-2-ND	Single Inverter Gate	SOT-23-5		282.00/3,000	
SN74AHC1G04DCKR	296-1090-1-ND	Single Inverter Gate	SC70-5	.36	.29	.20
SN74AHC1G04DCKR	296-1090-2-ND	Single Inverter Gate	SC70-5		282.00/3,000	
SN74AHC1G04QDCKRQ1	296-17248-1-ND	Single Inverter Gate	SC70-5	.38	.31	.22
SN74AHC1G04QDCKRQ1	296-17248-2-ND	Single Inverter Gate	SC70-5		300.00/3,000	
SN74AHC1G08DBVR	296-1091-1-ND	Single 2-Input AND Gate	SOT-23-5	.36	.29	.20
SN74AHC1G08DBVR	296-1091-2-ND	Single 2-Input AND Gate	SOT-23-5		282.00/3,000	
SN74AHC1G08DCKR	296-8743-1-ND	Single 2-Input AND Gate	5-SOP	.36	.29	.20
SN74AHC1G08DCKR	296-8743-2-ND	Single 2-Input AND Gate	5-SOP		282.00/3,000	
SN74AHC1G14DBVR	296-1092-1-ND	Single Schmitt-Trigger Inverter	SOT-23-5	.36	.29	.20
SN74AHC1G14DBVR	296-1092-2-ND	Single Schmitt-Trigger Inverter	SOT-23-5		282.00/3,000	
SN74AHC1G14DCKR	296-8748-1-ND	Single Schmitt-Trigger Inverter	SC70-5	.36	.29	.20
SN74AHC1G14DCKR	296-8748-2-ND	Single Schmitt-Trigger Inverter	SC70-5		282.00/3,000	
SN74AHC1G32DBVR	296-1093-1-ND	Single 2-Input OR Gate	SOT-23-5	.36	.29	.20
SN74AHC1G32DBVR	296-1093-2-ND	Single 2-Input OR Gate	SOT-23-5		282.00/3,000	
SN74AHC1G32DCKR	296-8749-1-ND	Single 2-Input OR Gate	SC70-5	.36	.29	.20
SN74AHC1G32DCKR	296-8749-2-ND	Single 2-Input OR Gate	SC70-5		282.00/3,000	
SN74AHC1G32QDBVRQ1	296-17421-1-ND	Single 2-Input OR Gate	SOT-23-5	.38	.31	.22
SN74AHC1G32QDBVRQ1	296-17421-2-ND	Single 2-Input OR Gate	SOT-23-5		300.00/3,000	
SN74AHC1G86DBVR	296-1094-1-ND	Single 2-Input Exclusive-OR Gate	SOT-23-5	.36	.29	.20
SN74AHC1G86DBVR	296-1094-2-ND	Single 2-Input Exclusive-OR Gate	SOT-23-5		282.00/3,000	

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each 1	25
SN74AHC1G86DCKR	296-8750-1-ND	Single 2-Input Exclusive-OR Gate	SC70-5	.36	.29
SN74AHC1G86DCKR	296-8750-2-ND	Single 2-Input Exclusive-OR Gate	SC70-5		282.00/3,
SN74AHC1G125DBVR	296-8744-1-ND	Tri-State Single Bus Buffer Gate	SOT-23-5	.39	.32
SN74AHC1G125DBVR	296-8744-2-ND	Tri-State Single Bus Buffer Gate	SOT-23-5		306.00/3,
SN74AHC1G125DCKR	296-8745-1-ND	Tri-State Single Bus Buffer Gate	SC70-5	.39	.32
SN74AHC1G125DCKR	296-8745-2-ND	Tri-State Single Bus Buffer Gate	SC70-5		306.00/3,
SN74AHC1G126DBVR	296-8746-1-ND	Tri-State Single Bus Buffer Gate	SOT-23-5	.39	.32
SN74AHC1G126DBVR	296-8746-2-ND	Tri-State Single Bus Buffer Gate	SOT-23-5		306.00/3,
SN74AHC1G126DCKR	296-8747-1-ND	Tri-State Single Bus Buffer Gate	SC70-5	.39	.32
SN74AHC1G126DCKR	296-8747-2-ND	Tri-State Single Bus Buffer Gate	SC70-5		306.00/3,
SN74AHC1GU04DBVR	296-1095-1-ND	Single Inverter Gate	SOT-23-5	.36	.29
SN74AHC1GU04DBVR	296-1095-2-ND	Single Inverter Gate	SOT-23-5		282.00/3,
SN74AHC1GU04DCKR	296-8751-1-ND	Single Inverter Gate	SC70-5	.36	.29
SN74AHC1GU04DCKR	296-8751-2-ND	Single Inverter Gate	SC70-5		282.00/3,
SN74AHCT1G00DBVR	296-1111-1-ND	Single 2-Input NAND Gate	SOT-23-5	.36	.29
SN74AHCT1G00DBVR	296-1111-2-ND	Single 2-Input NAND Gate	SOT-23-5		282.00/3,
SN74AHCT1G00DCKR	296-4703-1-ND	Single 2-Input NAND Gate	5-SOT	.36	.29
SN74AHCT1G00DCKR	296-4703-2-ND	Single 2-Input NAND Gate	5-SOT		282.00/3,
SN74AHCT1G02DBVR	296-4704-1-ND	Single 2-Input NOR Gate	SOT-23-5	.36	.29
SN74AHCT1G02DBVR	296-4704-2-ND	Single 2-Input NOR Gate	SOT-23-5		282.00/3,
SN74AHCT1G02DCKR	296-4705-1-ND	Single 2-Input NOR Gate	5-SOT	.36	.29
SN74AHCT1G02DCKR	296-4705-2-ND	Single 2-Input NOR Gate	5-SOT		282.00/3,
SN74AHCT1G04DBVR	296-1112-1-ND	Single Inverter Gate	SOT-23-5	.36	.29
SN74AHCT1G04DBVR	296-1112-2-ND	Single Inverter Gate	SOT-23-5		282.00/3,
SN74AHCT1G04DCKR	296-4706-1-ND	Single Inverter Gate	5-SOT	.36	.29
SN74AHCT1G04DCKR	296-4706-2-ND	Single Inverter Gate	5-SOT		282.00/3,
SN74AHCT1G08DBVR	296-1113-1-ND	Single 2-Input AND Gate	SOT-23-5	.36	.29
SN74AHCT1G08DBVR	296-1113-2-ND	Single 2-Input AND Gate	SOT-23-5		282.00/3,
SN74AHCT1G08DCKR	296-4707-1-ND	Single 2-Input AND Gate	5-SOT	.36	.29
SN74AHCT1G08DCKR	296-4707-2-ND	Single 2-Input AND Gate	5-SOT		282.00/3,
SN74AHCT1G14DBVR	296-1114-1-ND	Single Schmitt-Trigger Inverter	SOT-23-5	.36	.29
SN74AHCT1G14DBVR	296-1114-2-ND	Single Schmitt-Trigger Inverter	SOT-23-5		282.00/3,
SN74AHCT1G14DCKR	296-4712-1-ND	Single Schmitt-Trigger Inverter Gate	5-SOT	.36	.29
SN74AHCT1G14DCKR	296-4712-2-ND	Single Schmitt-Trigger Inverter Gate	5-SOT		282.00/3,
SN74AHCT1G32DBVR	296-1115-1-ND	Single 2-Input OR Gate	SOT-23-5	.36	.29
SN74AHCT1G32DBVR	296-1115-2-ND	Single 2-Input OR Gate	SOT-23-5		282.00/3,
SN74AHCT1G32DCKR	296-4713-1-ND	Single 2-Input OR Gate	5-SOT	.36	.29
SN74AHCT1G32DCKR	296-4713-2-ND	Single 2-Input OR Gate	5-SOT		282.00/3,
SN74AHCT1G86DBVR	296-4714-1-ND	Single 2-Input Exclusive-OR Gate	SOT-23-5	.36	.29
SN74AHCT1G86DCKR	296-4714-2-ND	Single 2-Input Exclusive-OR Gate	SOT-23-5		282.00/3,
SN74AHCT1G86DCKR	296-4715-1-ND	Single 2-Input Exclusive-OR Gate	5-SOT	.36	.29
SN74AHCT1G86DCKR	296-4715-2-ND	Single 2-Input Exclusive-OR Gate	5-SOT		282.00/3,
SN74AHCT1G125DBVR	296-4708-1-ND	Tri-State Single Bus Buffer Gate	SOT-23-5	.39	.32
SN74AHCT1G125DBVR	296-4708-2-ND	Tri-State Single Bus Buffer Gate	SOT-23-5		306.00/3,
SN74AHCT1G125DCKR	296-4709-1-ND	Tri-State Single Bus Buffer Gate	5-SOT	.39	.32
SN74AHCT1G125DCKR	296-4709-2-ND	Tri-State Single Bus Buffer Gate	5-SOT		306.00/3,
SN74AHCT1G126DBVR	296-4710-1-ND	Tri-State Single Bus Buffer Gate	SOT-23-5	.39	.32
SN74AHCT1G126DBVR	296-4710-2-ND	Tri-State Single Bus Buffer Gate	SOT-23-5		306.00/3,
SN74AHCT1G126DCKR	296-4711-1-ND	Tri-State Single Bus Buffer Gate	5-SOT	.39	.32
SN74AHCT1G126DCKR	296-4711-2-ND	Tri-State Single Bus Buffer Gate	5-SOT		306.00/3,
ALB Family					
SN74ALB16244DGGR	296-9764-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	5.06	4.05
SN74ALB16244DGGR	296-9764-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP		5738.00/2,
SN74ALB16244DGVR	296-9765-1-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	5.06	4.05
SN74ALB16244DGVR	296-9765-2-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP		5738.00/2,
SN74ALB16244DL	296-9766-5-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	5.06	4.05
SN74ALB16244DLR	296-9766-1-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	5.11	4.09
SN74ALB16244DLR	296-9766-2-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP		2894.00/1,
SN74ALB16245DGGR	296-9767-1-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	5.06	4.05
SN74ALB16245DGGR	296-9767-2-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP		5738.00/2,
SN74ALB16245DGVR	296-9768-1-ND	Tri-State 16-Bit Bus Transceiver	48-TVSOP	5.06	4.05
SN74ALB16245DGVR	296-9768-2-ND	Tri-State 16-Bit Bus Transceiver	48-TVSOP		5738.00/2,
SN74ALB16245DLR	296-9769-1-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	5.11	4.09
SN74ALB16245DLR	296-9769-2-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP		2894.00/1,
ALS Family					
SN65ALS176D	296-9698-5-ND	Differential Bus Transceiver	8-SOP	1.75	1.40
SN65ALS176DR	296-14637-1-ND	Differential Bus Transceiver	8-SOIC	1.75	1.40
SN65ALS176DR	296-14637-2-ND	Differential Bus Transceiver	8-SOIC		2240.00/2,
SN65ALS180DR	296-14638-1-ND	Differential Driver and Receiver Pair	14-SOIC	1.75	1.40
SN65ALS180DR	296-14638-2-ND	Differential Driver and Receiver Pair	14-SOIC		2240.00/2,
SN65ALS544NSR	296-15214-1-ND	Differential Interface LD Driver	20-SOP	3.60	2.88
SN65ALS544NSR	296-15214-2-ND	Differential Interface LD Driver	20-SOP		4080.00/2,
SN65ALS1176DR	296-9697-1-ND	Differential Bus Transceiver	8-SOIC	2.25	1.80
SN65ALS1176DR	296-9697-2-ND	Differential Bus Transceiver	8-SOIC		3150.00/2,
SN74ALS00AD	296-1477-5-ND	Quad 2-Input NAND Gate	14-SOIC	.52	.39
SN74ALS00AN	296-1478-5-ND	Quad 2-Input NAND Gate	14-Dip	.54	.41
SN74ALS00ANSR	296-5001-2-ND	Quad 2-Input NAND Gate	14-SOP		346.00/2,
SN74ALS02ADR	296-14705-1-ND	Quad 2-Input NOR Gate	14-SOIC	.48	.36
SN74ALS02ADR	296-14705-2-ND	Quad 2-Input NOR Gate	14-SOIC		422.50/2,
SN74ALS02AN	296-1479-5-ND	Quad 2-Input NOR Gate	14-Dip	.54	.41
SN74ALS04BD	296-1122-5-ND	Hex Inverter	14-SOIC	.52	.39
SN74ALS04BDR	296-1122-1-ND	Hex Inverter	14-SOIC	.48	.36
SN74ALS04BDR	296-1122-2-ND	Hex Inverter	14-SOIC		422.50/2,
SN74ALS04BN	296-1481-5-ND	Hex Inverter	14-Dip	.54	.41
SN74ALS05ADR	296-14707-1-ND	Hex Inverter	14-SOIC	.48	.36
SN74ALS05ADR	296-14707-2-ND	Hex Inverter	14-SOIC		422.50/2,
SN74ALS05AN	296-1482-5-ND	Hex Inverter with OC	14-Dip	.54	.41
SN74ALS08D	296-1123-5-ND	Quad 2-Input AND Gate	14-SOIC	.52	.39
SN74ALS08DR	296-1123-1-ND	Quad 2-Input AND Gate	14-SOIC	.48	.36
SN74ALS08DR	296-1123-2-ND	Quad 2-Input AND Gate	14-SOIC		422.50/2,
SN74ALS08N	296-1484-5-ND	Quad 2-Input AND Gate	14-Dip	.54	.41
SN74ALS10ADR	296-14712-1-ND	Triple 3-Input NAND Gate	14-SOIC	.48	.36
SN74ALS10ADR	296-14712-2-ND	Triple 3-Input NAND Gate	14-SOIC		422.50/2,
SN74ALS11ADR	296-14713-1-ND	Triple 3-Input AND Gate	14-SOIC	.64	.48
SN74ALS11ADR	296-14713-2-ND	Triple 3-Input AND Gate	14-SOIC		552.50/2,
SN74ALS21ADR	296-5045-1-ND	Dual 4-Input AND Gate	14-SOIC	.64	.48
SN74ALS21ADR	296-5045-2-ND	Dual 4-Input AND Gate	14-SOIC		552.50/2,
SN74ALS27ADR	296-14731-1-ND	Triple 3-Input NOR Gate	14-SOIC	.88	.66
SN74ALS27ADR	296-14731-2-ND	Triple 3-Input NOR Gate	14-SOIC		747.50/2,
SN74ALS30AN	296-1494-5-ND	8-Input NAND Gate	14-Dip	.50	.38

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
		HC Family				
D74HC00E	296-12769-5-ND	Quad 2-Input NAND Gate	14-Dip	.53	.42	.32
D74HC00M	296-9167-5-ND	Quad 2-Input NAND Gate	14-SOIC	.44	.36	.25
D74HC00M96	296-14504-1-ND	Quad 2-Input NAND Gate	14-SOIC	.46	.37	.26
D74HC00M96	296-14504-2-ND	Quad 2-Input NAND Gate	14-SOIC		297.50/2,500	
D74HC02E	296-12770-5-ND	HS, Quad 2-Input NOR Gate	14-Dip	.53	.42	.32
D74HC03M96	296-12771-1-ND	HS, Quad 2-Input NAND Gate with Open Drain	14-SOIC	.46	.37	.26
D74HC03M96	296-12771-2-ND	HS, Quad 2-Input NAND Gate with Open Drain	14-SOIC		297.50/2,500	
D74HC04E	296-12772-5-ND	HS, CMOS Logic Hex Inverter	14-Dip	.53	.42	.32
D74HC04M	296-17318-5-ND	HS, CMOS Logic Hex Inverter	14-SOIC	.46	.37	.26
D74HC04M96	296-14505-1-ND	HS, CMOS Logic Hex Inverter	14-SOIC	.46	.37	.26
D74HC04M96	296-14505-2-ND	HS, CMOS Logic Hex Inverter	14-SOIC		297.50/2,500	
D74HC08E	296-12773-5-ND	HS, Quad 2-Input AND Gate	14-Dip	.53	.42	.32
D74HC08M	296-9169-5-ND	HS, Quad 2-Input AND Gate	14-SOIC	.46	.37	.26
D74HC08M96	296-14506-1-ND	HS, Quad 2-Input AND Gate	14-SOIC	.46	.37	.26
D74HC08M96	296-14506-2-ND	HS, Quad 2-Input AND Gate	14-SOIC		297.50/2,500	
D74HC10E	296-12774-5-ND	Triple 3-Input NAND Gate	14-Dip	.53	.42	.32
D74HC10M	296-12775-5-ND	Triple 3-Input NAND Gate	14-SOIC	.46	.37	.26
D74HC10M96	296-14507-1-ND	Triple 3-Input NAND Gate	14-SOIC	.46	.37	.26
D74HC10M96	296-14507-2-ND	Triple 3-Input NAND Gate	14-SOIC		297.50/2,500	
D74HC11M	296-9170-5-ND	Triple 3-Input AND Gate	14-SOIC	.44	.36	.25
D74HC11M96	296-12779-1-ND	Triple 3-Input AND Gate	14-SOIC	.46	.37	.26
D74HC11M96	296-12779-2-ND	Triple 3-Input AND Gate	14-SOIC		297.50/2,500	
D74HC14E	296-12786-5-ND	Hex Schmitt Trigger Inverter	14-Dip	.53	.42	.32
D74HC14M	296-9179-5-ND	Hex Schmitt Trigger Inverter	14-SOIC	.44	.36	.25
D74HC14M96	296-9179-1-ND	Hex Schmitt Trigger Inverter	14-SOIC	.44	.36	.25
D74HC14M96	296-9179-2-ND	Hex Schmitt Trigger Inverter	14-SOIC		285.00/2,500	
D74HC21M	296-9186-5-ND	Dual 4-Input AND Gate	14-SOIC	.46	.37	.26
D74HC27E	296-12802-5-ND	HS Triple 3-Input NOR Gate	14-Dip	.53	.42	.32
D74HC30E	296-9196-5-ND	8-Input NAND Gate	14-Dip	.53	.42	.32
D74HC30M	296-9197-5-ND	8-Input NAND Gate	14-SOIC	.44	.36	.25
D74HC30M96	296-14521-1-ND	8-Input NAND Gate	14-SOIC	.46	.37	.26
D74HC30M96	296-14521-2-ND	8-Input NAND Gate	14-SOIC		297.50/2,500	
D74HC32E	296-12803-5-ND	HS CMOS Logic Quad 2-Input OR Gate	14-Dip	.53	.42	.32
D74HC32M	296-12804-5-ND	HS CMOS Logic Quad 2-Input OR Gate	14-SOIC	.46	.37	.26
D74HC32M96	296-14522-1-ND	HS CMOS Logic Quad 2-Input OR Gate	14-SOIC	.46	.37	.26
D74HC32M96	296-14522-2-ND	HS CMOS Logic Quad 2-Input OR Gate	14-SOIC		297.50/2,500	
D74HC73M96	296-14540-1-ND	Dual J-K Flip-Flop with Reset	14-SOIC	.55	.44	.33
D74HC73M96	296-14540-2-ND	Dual J-K Flip-Flop with Reset	14-SOIC		372.50/2,500	
D74HC74E	296-12819-5-ND	Dual D-Type Flip-Flop	14-Dip	.53	.42	.32
D74HC74M	296-12820-5-ND	Dual D-Type Flip-Flop	14-SOIC	.46	.37	.26
D74HC74M96	296-14541-1-ND	Dual D-Type Flip-Flop	14-SOIC	.46	.37	.26
D74HC74M96	296-14541-2-ND	Dual D-Type Flip-Flop	14-SOIC		297.50/2,500	
D74HC75E	296-9240-5-ND	Dual 2-Bit Bistable Transparent Latch	16-Dip	.80	.60	.45
D74HC85E	296-12821-5-ND	4-Bit, HS, Magnitude Comparator	16-Dip	.81	.68	.54
D74HC85M	296-9242-5-ND	4-Bit, HS, Magnitude Comparator	16-SOIC	.81	.68	.54
D74HC85M96	296-9242-1-ND	4-Bit, HS, Magnitude Comparator	16-SOIC	.81	.68	.54
D74HC85M96	296-9242-2-ND	4-Bit, HS, Magnitude Comparator	16-SOIC		877.50/2,500	
D74HC86E	296-12822-5-ND	Quad 2-Input Exclusive-OR Gate	14-Dip	.53	.42	.32
D74HC93M96	296-9243-1-ND	4-Bit Binary Ripple Counter	14-SOIC	.81	.68	.54
D74HC93M96	296-9243-2-ND	4-Bit Binary Ripple Counter	14-SOIC		877.50/2,500	
D74HC112E	296-12776-5-ND	Dual, Negative, J-K Flip-Flop with Set and Reset	16-Dip	.48	.36	.27
D74HC112M96	296-12777-1-ND	Dual, Negative, J-K Flip-Flop with Set and Reset	16-SOIC	.48	.36	.27
D74HC112M96	296-12777-2-ND	Dual, Negative, J-K Flip-Flop with Set and Reset	16-SOIC		390.00/2,500	
D74HC112PWR	296-12778-1-ND	Dual, Negative, J-K Flip-Flop with Set and Reset	16-TSSOP	.48	.36	.27
D74HC112PWR	296-12778-2-ND	Dual, Negative, J-K Flip-Flop with Set and Reset	16-TSSOP		320.00/2,000	
D74HC123E	296-9171-5-ND	Dual Retriggerable Monostable Multivibrators with Reset	16-Dip	.48	.36	.27
D74HC123M	296-9172-5-ND	Dual Retriggerable Monostable Multivibrators with Reset	16-SOIC	.48	.36	.27
D74HC123M96	296-14508-1-ND	Dual Retriggerable Monostable Multivibrator with Reset	16-SOIC	.48	.36	.27
D74HC123M96	296-14508-2-ND	Dual Retriggerable Monostable Multivibrator with Reset	16-SOIC		390.00/2,500	
D74HC123PWR	296-12780-1-ND	Dual Retriggerable Monostable Multivibrators with Reset	16-TSSOP	.48	.36	.27
D74HC123PWR	296-12780-2-ND	Dual Retriggerable Monostable Multivibrators with Reset	16-TSSOP		320.00/2,000	
D74HC125E	296-12781-5-ND	Tri-State HS Quad Buffer	14-Dip	.53	.40	.30
D74HC125M	296-9173-5-ND	Tri-State HS Quad Buffer	14-SOIC	.48	.36	.27
D74HC125M96	296-14509-1-ND	Tri-State HS Quad Buffer	14-SOIC	.48	.36	.27
D74HC125M96	296-14509-2-ND	Tri-State HS Quad Buffer	14-SOIC		390.00/2,500	
D74HC126E	296-12782-5-ND	Tri-State HS Quad Buffer	14-Dip	.53	.40	.30
D74HC126M	296-12783-5-ND	Tri-State HS Quad Buffer	14-SOIC	.48	.36	.27
D74HC126M96	296-14510-1-ND	Tri-State HS Quad Buffer	14-SOIC	.48	.36	.27
D74HC126M96	296-14510-2-ND	Tri-State HS Quad Buffer	14-SOIC		390.00/2,500	
D74HC132E	296-12784-5-ND	Quad 2-In Schmitt-Trig. NAND Gate	14-Dip	.53	.40	.30
D74HC132M	296-9175-5-ND	Quad 2-In Schmitt-Trig. NAND Gate	14-SOIC	.48	.36	.27
D74HC132M96	296-9175-1-ND	Quad 2-In Schmitt-Trig. NAND Gate	14-SOIC	.48	.36	.27
D74HC132M96	296-9175-2-ND	Quad 2-In Schmitt-Trig. NAND Gate	14-SOIC		390.00/2,500	
D74HC137E	296-9176-5-ND	3-8 Line Decoder/Demultiplexer, with Address Latch	16-Dip	.48	.36	.27
D74HC138E	296-12785-5-ND	3-8 Line Decoder/Demux, Inverting/Non-Inverting	16-Dip	.53	.40	.30
D74HC138M	296-9177-5-ND	3-8 Line Decoder/Demux, Inverting/Non-Inverting	16-SOIC	.48	.36	.27
D74HC138M96	296-14511-1-ND	3-8 Line Decoder/Demux, Inverting/Non-Inverting	16-SOIC	.48	.36	.27
D74HC138M96	296-14511-2-ND	3-8 Line Decoder/Demux, Inverting/Non-Inverting	16-SOIC		390.00/2,500	
CD74HC139M96	296-14512-1-ND	Dual 2-4 Line Decoder/Demux	16-SOIC	.48	.36	.27
CD74HC139M96	296-14512-2-ND	Dual 2-4 Line Decoder/Demux	16-SOIC		390.00/2,500	
CD74HC147E	296-14513-5-ND	10-4 Line Priority Encoder	16-Dip	.53	.40	.30
CD74HC151M96	296-12787-1-ND	HS CMOS Logic 8-Input Mux	16-SOIC	.48	.36	.27
CD74HC151M96	296-12787-2-ND	HS CMOS Logic 8-Input Mux	16-SOIC		390.00/2,500	
CD74HC154EN	296-9181-5-ND	4-16 Line Decoder/Demultiplexer	24-Dip	.78	.65	.52
CD74HC154M	296-9182-5-ND	4-16 Line Decoder/Demultiplexer	24-SOIC	.60	.45	.34
CD74HC164E	296-12788-5-ND	8-Bit Serial-In/Parallel-Out Shift Register	14-Dip	.53	.40	.30
CD74HC164M	296-12789-5-ND	8-Bit Serial-In/Parallel-Out Shift Register	14-SOIC	.48	.36	.27
CD74HC164M96	296-14514-1-ND	8-Bit Serial-In/Parallel-Out Shift Register	14-SOIC	.48	.36	.27
CD74HC164M96	296-14514-2-ND	8-Bit Serial-In/Parallel-Out Shift Register	14-SOIC		390.00/2,500	
CD74HC165E	296-12790-5-ND	8-Bit Parallel-In/Serial-Out Shift Register	16-Dip	.53	.40	.30
CD74HC165M	296-12791-5-ND	8-Bit Parallel-In/Serial-Out Shift Register	16-SOIC	.48	.36	.27
CD74HC173PWR	296-12792-1-ND	Tri-State Quad D-Type Flip-Flop	16-TSSOP	.48	.36	.27
CD74HC173PWR	296-12792-2-ND	Tri-State Quad D-Type Flip-Flop	16-TSSOP		320.00/2,000	
CD74HC174E	296-14515-5-ND	Hex D-Type Flip-Flop with Reset	16-Dip	.53	.40	.30
CD74HC192PWR	296-12793-1-ND	Presettable Synchronous 4-Bit Up/Down Counters	16-TSSOP	.60	.45	.34
CD74HC192PWR	296-12793-2-ND	Presettable Synchronous 4-Bit Up/Down Counters	16-TSSOP		400.00/2,000	
CD74HC194E	296-9183-5-ND	4-Bit Bi-Directional Univ. Shift Register	16-Dip	.48	.36	.27
CD74HC194M	296-9185-5-ND	4-Bit Bi-Directional Univ. Shift Register	16-SOIC	.48	.36	.27
CD74HC194M96	296-9185-1-ND	4-Bit Bi-Directional Univ. Shift Register	16-SOIC	.96	.80	.64
CD74HC194M96	296-9185-2-ND	4-Bit Bi-Directional Univ. Shift Register	16-SOIC		390.00/2,500	
CD74HC194PWR	296-12794-1-ND	4-Bit Bi-Directional Univ. Shift Register	16-TSSOP	.48	.36	.27
CD74HC194PWR	296-12794-2-ND	4-Bit Bi-Directional Univ. Shift Register	16-TSSOP		320.00/2,000	
CD74HC195PWR	296-12795-1-ND	4-Bit Parallel Access Register	16-TSSOP	.60	.45	.34
CD74HC195PWR	296-12795-2-ND	4-Bit Parallel Access Register	16-TSSOP		400.00/2,000	
CD74HC221E	296-9187-5-ND	HS Dual Mono Multivibrator w/Reset	16-Dip	.66	.50	.38
CD74HC221M96	296-12789-5-ND	HS Dual Mono Multivibrator w/Reset ***NEW!***	16-SOIC	.56	.42	.32
CD74HC221PWR	296-12796-1-ND	HS Dual Mono Multivibrator w/Reset	16-TSSOP	.60	.45	.34
CD74HC221PWR	296-12796-2-ND	HS Dual Mono Multivibrator w/Reset	16-TSSOP		400.00/2,000	
CD74HC237M96	296-12797-1-ND	3-to-8 Line Decoder Demux with Address Latches	16-SOIC	.64	.48	.36
CD74HC237M96	296-12797-2-ND	3-to-8 Line Decoder Demux with Address Latches	16-SOIC		520.00/2,500	
CD74HC237PWR	296-13813-1-ND	3-to-8 Line Decoder Demux HS, CMOS Logic	16-TSSOP	.64	.48	.36
CD74HC237PWR	296-13813-2-ND	3-to-8 Line Decoder Demux HS, CMOS Logic	16-TSSOP		426.00/2,000	
CD74HC238M	296-9188-5-ND	3-to-8 Line Decoder/Demux, Inverting/Non-Inverting	16-SOIC	.48	.36	.27
CD74HC238PWR	296-13814-1-ND	3-to-8 Line Decoder/Demux, HS CMOS Logic, Inverting/Non-Inverting	16-TSSOP	.48	.36	.27
CD74HC238PWR	296-13814-2-ND	3-to-8 Line Decoder/Demux, HS CMOS Logic, Inverting/Non-Inverting	16-TSSOP		320.00/2,000	
CD74HC243M96	296-9189-1-ND	Tri-State Quad Bus Transceiver	14-SOIC	.60	.45	.34
CD74HC243M96	296-9189-2-ND	Tri-State Quad Bus Transceiver	14-SOIC		487.50/2,500	
CD74HC244E	296-12798-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	.66	.50	.38
CD74HC244M	296-12799-5-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.60	.45	.34
CD74HC244M96	296-14516-1-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.60	.45	.34
CD74HC244M96	296-14516-2-ND	Tri-State Octal Buffer/Line Driver	20-SOIC		400.00/2,000	
CD74HC245E	296-12800-5-ND	Tri-State Octal Bus Transceiver	20-Dip	.66	.50	.38
CD74HC245M	296-9421-5-ND	Tri-State Octal Bus Transceiver	20-SOIC	.60	.45	.34
CD74HC245M96	296-14517-1-ND	Tri-State Octal Bus Transceiver	20-SOIC	.60	.45	.34
CD74HC245M96	296-14517-2-ND	Tri-State Octal Bus Transceiver	20-SOIC		400.00/2,000	
CD74HC259M	296-9192-5-ND	8-Bit Addressable Latch	16-SOIC	.60	.45	.34
CD74HC259M96	296-9192-1-ND	8-Bit Addressable Latch	16-SOIC	.60	.45	.34
CD74HC259M96	296-9192-2-ND	8-Bit Addressable Latch	16-SOIC		487.50/2,500	
CD74HC273E	296-12801-5-ND	Octal D-Type Flip-Flop with Reset	20-Dip	.66	.50	.38
CD74HC280M96	296-14518-1-ND	9-Bit Odd/Even Parity Generator/ Checker	14-SOIC	.56	.42	.32
CD74HC280M96	296-14518-2-ND	9-Bit Odd/Even Parity Generator/ Checker	14-SOIC		455.00/2,500	
CD74HC283E	296-14519-5-ND	4-Bit Binary Full Adder with Fast Carry	16-Dip	.62	.47	.35
CD74HC297E	296-9193-5-ND	Digital Phase-Locked-Loop	16-Dip	1.88	1.50	1.13
CD74HC299E	296-9194-5-ND	Tri-State 8-Bit Universal Shift Register	20-Dip	.72	.54	.41
CD74HC299M	296-9195-5-ND	Tri-State 8-Bit Universal Shift Register	20-SOIC	.72	.54	.41
CD74HC299M96	296-14520-1-ND	Tri-State 8-Bit Universal Shift Register	20-SOIC	.72	.54	.41
CD74HC299M96	296-14520-2-ND	Tri-State 8-Bit Universal Shift Register	20-SOIC		478.00/2,000	
CD74HC354E	296-9198-5-ND	Tri-State 8-Input Mux/Register	8-Dip	.60	.45	.34
CD74HC367M96	296-14523-1-ND	Tri-State Hex Buffer/Line Driver, Non-Inverting/Inverting	16-SOIC	.48	.36	.27
CD74HC367M96	296-14523-2-ND	Tri-State Hex Buffer/Line Driver, Non-Inverting/Inverting	16-SOIC		390.00/2,500	
CD74HC373E	296-12805-5-ND	Tri-St. Octal Transparent D-Type Latch	20-Dip	.66	.50	.38
CD74HC373M	296-9422-5-ND	Tri-St. Octal Transparent D-Type Latch	20-SOIC	.60	.45	.34
CD74HC373M96	296-14524-1-ND	Tri-St. Octal Transparent D-Type Latch	20-SOIC	.60	.45	.34
CD74HC373M96	296-14524-2-ND	Tri-St. Octal Transparent D-Type Latch	20-SOIC		400.00/2,000	
CD74HC374E	296-12806-5-ND	Tri-State Octal D-Type Flip-Flop	20-Dip	.66	.50	.38
CD74HC374M	296-12807-5-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.60	.45	.34
CD74HC374M96	296-14525-1-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.60	.45	.34
CD74HC374M96	296-14525-2-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC		400.00/2,000	
CD74HC390E	296-9199-5-ND	Dual Decade Ripple Counter	16-Dip	.66	.50	.38
CD74HC390M96	296-14526-1-ND	Dual Decade Ripple Counter	16-SOIC	.60	.45	.34
CD74HC390M96	296-14526-2-ND	Dual Decade Ripple Counter	16-SOIC		487.50/2,500	
CD74HC423E	296-9229-5-ND	Dual Retrig. Monostable Multivibrator with Reset	16-Dip	.76	.57	.43
CD74HC540E	296-12812-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	.60	.45	.34
CD74HC541E	296-12813-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	.66	.50	.38
CD74HC541M	296-12814-5-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.60	.45	.34
CD74HC541M96	296-14538-1-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.60	.45	.34
CD74HC541M96	296-14538-2-ND	Tri-State Octal Buffer/Line Driver	20-SOIC		400.00/2,000	
CD74HC573E	296-12815-5-ND	Tri-St. Octal Transparent D-Type Latch	20-Dip	.66	.50	.38
CD74HC573M96	296-12816-1-ND	Tri-St. Octal Transparent D-Type Latch	20-SOIC	.60	.45	.34
CD74HC573M96	296-12816-2-ND	Tri-St. Octal Transparent D-Type Latch	20-SOIC		400.00/2,000	
CD74HC574E	296-12817-5-ND	Tri-State Octal D-Type Flip-Flop	20-Dip	.66	.50	.38
CD74HC574M	296-12818-5-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.60	.45	.34

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
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CD74HC646M	296-9235-5-ND	Tri-State Octal Bus Transceiver/Register	24-SOIC	1.11	.93	.74
CD74HC652EN	296-14539-5-ND	Tri-State Octal Bus Transceiver/Register	24-Dip	1.50	1.20	.90
CD74HC4016E	296-9204-5-ND	Quad Bilateral Switch	14-Dip	.66	.50	.38
CD74HC4016M96	296-9205-1-ND	Quad Bilateral Switch	14-SOIC	.60	.45	.34
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CD74HC4017M96	296-12808-1-ND	High Speed Decade Counter/Divider	16-SOIC	.56	.42	.32
CD74HC4017M96	296-12808-2-ND	High Speed Decade Counter/Divider	16-SOIC		455.00/2,500	
CD74HC4017PWR	296-9423-1-ND	High Speed Decade Counter/Divider	16-TSSOP	.56	.42	.32
CD74HC4017PWR	296-9423-2-ND	High Speed Decade Counter/Divider	16-TSSOP		372.00/2,000	
CD74HC4020M96	296-12809-1-ND	HS CMOS Logic 14-Bit Binary Counter	16-SOIC	.50	.40	.30
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CD74HC4024E	296-9206-5-ND	7-Stage Binary Ripple Counter	14-Dip	.53	.40	.30
CD74HC4024M	296-9207-5-ND	7-Stage Binary Ripple Counter	14-SOIC	.48	.36	.27
CD74HC4040M96	296-14527-1-ND	12-Stage Binary Counter	16-SOIC	.60	.45	.34
CD74HC4040M96	296-14527-2-ND	12-Stage Binary Counter	16-SOIC		487.50/2,500	
CD74HC4046AE	296-9208-5-ND	Phase-Locked-Loop with VCO	16-Dip	.56	.42	.32
CD74HC4046AM	296-9209-5-ND	Phase-Locked-Loop with VCO	16-SOIC	.48	.36	.27
CD74HC4046AM96	296-14528-1-ND	Phase-Locked-Loop with VCO	16-SOIC	.48	.36	.27
CD74HC4046AM96	296-14528-2-ND	Phase-Locked-Loop with VCO	16-SOIC		390.00/2,500	
CD74HC4046APWR	296-9210-1-ND	Phase-Locked-Loop with VCO	16-TSSOP	.48	.36	.27
CD74HC4046APWR	296-9210-2-ND	Phase-Locked-Loop with VCO	16-TSSOP		320.00/2,000	
CD74HC4049E	296-9211-5-ND	Hex Inverting Buffer	16-Dip	.56	.42	.32
CD74HC4049M	296-9212-5-ND	Hex Inverting Buffer	16-SOIC	.56	.42	.32
CD74HC4049PWR	296-15717-1-ND	Hex Inverting Buffer	16-TSSOP	.56	.42	.32
CD74HC4049PWR	296-15717-2-ND	Hex Inverting Buffer	16-TSSOP		372.00/2,000	
CD74HC4050E	296-9213-5-ND	Hex Non-Inverting Buffer	16-Dip	.50	.40	.30
CD74HC4050M	296-9214-5-ND	Hex Non-Inverting Buffer	16-SOIC	.50	.40	.30
CD74HC4050M96	296-14529-1-ND	Hex Non-Inverting Buffer	16-SOIC	.50	.40	.30
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CD74HC4051M	296-9216-5-ND	HS CMOS Logic Analog Mux/Demux	16-SOIC	.55	.44	.33
CD74HC4051M96	296-14530-1-ND	HS CMOS Logic Analog Mux/Demux	16-SOIC	.50	.40	.30
CD74HC4051M96	296-14530-2-ND	HS CMOS Logic Analog Mux/Demux	16-SOIC		372.50/2,500	
CD74HC4051PWR	296-13031-1-ND	HS CMOS Logic Analog Mux/Demux	16-TSSOP	.50	.40	.30
CD74HC4051PWR	296-13031-2-ND	HS CMOS Logic Analog Mux/Demux	16-TSSOP		308.00/2,000	
CD74HC4052E	296-9217-5-ND	Dual 4-Channel Analog Mux/Demux	16-Dip	.53	.40	.30
CD74HC4052M	296-9218-5-ND	Dual 4-Channel Analog Mux/Demux	16-SOIC	.48	.36	.27
CD74HC4052M96	296-14531-1-ND	Dual 4-Channel Analog Mux/Demux	16-SOIC	.48	.36	.27
CD74HC4052M96	296-14531-2-ND	Dual 4-Channel Analog Mux/Demux	16-SOIC		390.00/2,500	
CD74HC4052PWR	296-17619-1-ND	Dual 4-Channel Analog Mux/Demux ***NEW!***	16-TSSOP	.48	.36	.27
CD74HC4052PWR	296-17619-2-ND	Dual 4-Channel Analog Mux/Demux ***NEW!***	16-TSSOP		320.00/2,000	
CD74HC4053E	296-9219-5-ND	Triple 2-Channel Analog Mux/Demux	16-Dip	.55	.44	.33
CD74HC4053M	296-9220-5-ND	Triple 2-Channel Analog Mux/Demux	16-SOIC	.50	.40	.30
CD74HC4053M96	296-14532-1-ND	Triple 2-Channel Analog Mux/Demux	16-SOIC	.50	.40	.30
CD74HC4053M96	296-14532-2-ND	Triple 2-Channel Analog Mux/Demux	16-SOIC		337.50/2,500	
CD74HC4053PWR	296-12111-1-ND	Triple 2-Channel Analog Mux/Demux	16-TSSOP	.50	.40	.30
CD74HC4053PWR	296-12111-2-ND	Triple 2-Channel Analog Mux/Demux	16-TSSOP		280.00/2,000	
CD74HC4059M96	296-9221-1-ND	CMOS Prog. Divide-by-N Counter	24-SOIC	2.48	1.98	1.49
CD74HC4059M96	296-9221-2-ND	CMOS Prog. Divide-by-N Counter	24-SOIC		2574.00/2,000	
CD74HC4060M	296-9222-5-ND	14-Stage Binary Counter with Oscillator	16-SOIC	.48	.36	.27
CD74HC4066E	296-14533-5-ND	Quad Bilateral Switch	14-Dip	.48	.37	.28
CD74HC4066M	296-9224-5-ND	Quad Bilateral Switch	14-SOIC	.55	.44	.33
CD74HC4066M96	296-9224-1-ND	Quad Bilateral Switch	14-SOIC	.50	.40	.30
CD74HC4060M96	296-9224-2-ND	Quad Bilateral Switch	14-SOIC		372.50/2,500	
CD74HC4066PWR	296-16703-1-ND	High Speed CMOS Logic Quad Bilateral Switch	14-TSSOP	.50	.40	.30
CD74HC4066PWR	296-16703-2-ND	High Speed CMOS Logic Quad Bilateral Switch	14-TSSOP		308.00/2,000	
CD74HC4067M	296-9225-5-ND	16-Channel Analog Mux/Demux	24-SOIC	.56	.42	.32
CD74HC4067SM96	296-9226-1-ND	16-Channel Analog Mux/Demux	24-SSOP	.48	.36	.27
CD74HC4067SM96	296-9226-2-ND	16-Channel Analog Mux/Demux	24-SSOP		320.00/2,000	
CD74HC4075M	296-9227-5-ND	Triple 3-Input OR Gate	14-SOIC	.48	.36	.27
CD74HC4075M96	296-14534-1-ND	Triple 3-Input OR Gate	14-SOIC	.48	.36	.27
CD74HC4075M96	296-14534-2-ND	Triple 3-Input OR Gate	14-SOIC		390.00/2,500	
CD74HC4075PWR	296-9228-1-ND	Triple 3-Input OR Gate	14-TSSOP	.48	.36	.27
CD74HC4075PWR	296-9228-2-ND	Triple 3-Input OR Gate	14-TSSOP		280.00/2,000	
CD74HC4094M	296-14290-5-ND	Tri-State 8-Stage Bus Register	16-SOIC	.48	.36	.27
CD74HC4094M96	296-14535-1-ND	Tri-State 8-Stage Bus Register	16-SOIC	.48	.36	.27
CD74HC4094M96	296-14535-2-ND	Tri-State 8-Stage Bus Register	16-SOIC		390.00/2,500	
CD74HC4316M	296-9230-5-ND	Quad Analog Switch with Level Translation	16-SOIC	.60	.45	.34
CD74HC4316M96	296-14536-1-ND	Quad Analog Switch with Level Translation	16-SOIC	.60	.45	.34
CD74HC4316M96	296-14536-2-ND	Quad Analog Switch with Level Translation	16-SOIC		487.50/2,500	
CD74HC4351E	296-9231-5-ND	Analog Mux/Demux with Latch	20-Dip	.88	.66	.50
CD74HC4511E	296-14537-5-ND	BCD-to-7 Segment Latch/Decoder/Driver	16-Dip	.80	.60	.45
CD74HC4511M	296-9232-5-ND	BCD-to-7 Segment Latch/Decoder/Driver	16-SOIC	.76	.57	.43
CD74HC4515M	296-9233-5-ND	4-16 Line Decoder/Demux with Input Latch	24-SOIC	2.13	1.70	1.28
CD74HC4538E	296-12811-5-ND	Dual Retriggerable Precision Monostable Multivibrator	16-Dip	.80	.60	.45
CD74HC4538M	296-9234-5-ND	Dual Retriggerable Precision Monostable Multivibrator	16-SOIC	.72	.54	.41
CD74HC7046AE	296-9237-5-ND	PLL with VCO/Lock Detector	16-Dip	1.93	1.54	1.16
CD74HC7046AM	296-9238-5-ND	PLL with VCO/Lock Detector	16-SOIC	1.93	1.54	1.16
CD74HC7266M	296-9239-5-ND	Quad 2-Input Exclusive-NOR Gate	14-SOIC	.78	.65	.52
CD74HC40103E	296-9200-5-ND	8-Stage Synchronous Down Counter	16-Dip	.75	.63	.50
CD74HC40103M	296-9201-5-ND	8-Stage Synchronous Down Counter	16-SOIC	.75	.63	.50
CD74HC40105E	296-9202-5-ND	4-Bit by 16-Word FIFO Register	16-Dip	.78	.65	.52
CD74HC40105M96	296-9203-1-ND	4-Bit by 16-Word FIFO Register	16-SOIC	.78	.65	.52
CD74HC40105M96	296-9203-2-ND	4-Bit by 16-Word FIFO Register	16-SOIC		845.00/2,500	
SN74HC00D	296-1187-5-ND	Quad 2-Input NAND Gate	14-SOIC	.46	.37	.26
SN74HC00DR	296-1187-1-ND	Quad 2-Input NAND Gate	14-SOIC	.46	.37	.26
SN74HC00DR	296-1187-2-ND	Quad 2-Input NAND Gate	14-SOIC		297.50/2,500	
SN74HC00N	296-1563-5-ND	Quad 2-Input NAND Gate	14-Dip	.53	.42	
SN74HC00NSR	296-8202-1-ND	Quad 2-Input NAND Gate	14-SOP	.46	.37	
SN74HC00NSR	296-8202-2-ND	Quad 2-Input NAND Gate	14-SOP		252.00/2,000	
SN74HC00PWR	296-8203-1-ND	Quad 2-Input NAND Gate	14-TSSOP	.46	.37	
SN74HC00PWR	296-8203-2-ND	Quad 2-Input NAND Gate	14-TSSOP		252.00/2,000	
SN74HC02D	296-1188-5-ND	Quad 2-Input NOR Gate	14-SOIC	.46	.37	
SN74HC02DR	296-1188-1-ND	Quad 2-Input NOR Gate	14-SOIC	.46	.37	
SN74HC02DR	296-1188-2-ND	Quad 2-Input NOR Gate	14-SOIC		297.50/2,500	
SN74HC02DBR	296-8204-1-ND	Quad 2-Input NOR Gate	14-SOP	.46	.37	
SN74HC02DBR	296-8204-2-ND	Quad 2-Input NOR Gate	14-SOP		252.00/2,000	
SN74HC02N	296-1564-5-ND	Quad 2-Input NOR Gate	14-Dip	.53	.42	
SN74HC02NSR	296-8205-1-ND	Quad 2-Input NOR Gate	14-SOP	.46	.37	
SN74HC02NSR	296-8205-2-ND	Quad 2-Input NOR Gate	14-SOP		252.00/2,000	
SN74HC02PWR	296-8206-1-ND	Quad 2-Input NOR Gate	14-TSSOP	.46	.37	
SN74HC02PWR	296-8206-2-ND	Quad 2-Input NOR Gate	14-TSSOP		252.00/2,000	
SN74HC03D	296-9817-5-ND	Quad 2-In. NAND Gate with OD Output	14-SOIC	.46	.37	
SN74HC03DR	296-14826-1-ND	Quad 2-In. NAND Gate with OD Output	14-SOIC	.46	.37	
SN74HC03DR	296-14826-2-ND	Quad 2-In. NAND Gate with OD Output	14-SOIC		297.50/2,500	
SN74HC03N	296-8207-5-ND	Quad 2-In. NAND Gate with OD Output	14-Dip	.53	.42	
SN74HC04D	296-1189-5-ND	Hex Inverter	14-SOIC	.46	.37	
SN74HC04DR	296-1189-1-ND	Hex Inverter	14-SOIC	.46	.37	
SN74HC04DR	296-1189-2-ND	Hex Inverter	14-SOIC		297.50/2,500	
SN74HC04N	296-1566-5-ND	Hex Inverter	14-Dip	.53	.42	
SN74HC04NSR	296-12883-1-ND	Hex Inverter	14-SOP	.46	.37	
SN74HC04NSR	296-12883-2-ND	Hex Inverter	14-SOP		252.00/2,000	
SN74HC04PWR	296-8208-1-ND	Hex Inverter	14-TSSOP	.46	.37	
SN74HC04PWR	296-8208-2-ND	Hex Inverter	14-TSSOP		252.00/2,000	
SN74HC05D	296-1190-5-ND	Hex Inverter with OD	14-SOIC	.46	.37	
SN74HC05DR	296-1190-1-ND	Hex Inverter with OD	14-SOIC	.46	.37	
SN74HC05DR	296-1190-2-ND	Hex Inverter with OD	14-SOIC		297.50/2,500	
SN74HC05N	296-1568-5-ND	Hex Inverter with OD	14-Dip	.53	.42	
SN74HC08D	296-1191-5-ND	Quad 2-Input AND Gate	14-SOIC	.46	.37	
SN74HC08DR	296-1191-1-ND	Quad 2-Input AND Gate	14-SOIC	.46	.37	
SN74HC08DR	296-1191-2-ND	Quad 2-Input AND Gate	14-SOIC		297.50/2,500	
SN74HC08N	296-1570-5-ND	Quad 2-Input AND Gate	14-Dip	.53	.42	
SN74HC08NSR	296-12884-1-ND	Quad 2-Input AND Gate	14-SOP	.46	.37	
SN74HC08NSR	296-12884-2-ND	Quad 2-Input AND Gate	14-SOP		252.00/2,000	
SN74HC08PWR	296-8210-1-ND	Quad 2-Input AND Gate	14-TSSOP	.46	.37	
SN74HC08PWR	296-8210-2-ND	Quad 2-Input AND Gate	14-TSSOP		252.00/2,000	
SN74HC10D	296-8213-5-ND	Triple 3-Input NAND Gate	14-SOIC	.46	.37	
SN74HC10DR	296-14828-1-ND	Triple 3-Input NAND Gate	14-SOIC	.46	.37	
SN74HC10DR	296-14828-2-ND	Triple 3-Input NAND Gate	14-SOIC		297.50/2,500	
SN74HC10N	296-8214-5-ND	Triple 3-Input NAND Gate	14-Dip	.53	.42	
SN74HC11D	296-8216-5-ND	Triple 3-Input Pos. AND Gate	14-SOIC	.46	.37	
SN74HC11DR	296-14830-1-ND	Triple 3-Input Pos. AND Gate	14-SOIC	.46	.37	
SN74HC11DR	296-14830-2-ND	Triple 3-Input Pos. AND Gate	14-SOIC		297.50/2,500	
SN74HC11N	296-8217-5-ND	Triple 3-Input Pos. AND Gate	14-Dip	.53	.42	
SN74HC11NSR	296-12885-1-ND	Triple 3-Input Pos. AND Gate	14-SOP	.46	.37	
SN74HC11NSR	296-12885-2-ND	Triple 3-Input Pos. AND Gate	14-SOP		252.00/2,000	
SN74HC11PWR	296-13611-1-ND	Triple 3-Input Pos. AND Gate	14-TSSOP	.46	.37	
SN74HC11PWR	296-13611-2-ND	Triple 3-Input Pos. AND Gate	14-TSSOP		252.00/2,000	
SN74HC14D	296-1194-5-ND	Hex Schmitt-Trigger Inverter	14-SOIC	.46	.37	
SN74HC14DR	296-1194-1-ND	Hex Schmitt-Trigger Inverter	14-SOIC	.46	.37	
SN74HC14DR	296-1194-2-ND	Hex Schmitt-Trigger Inverter	14-SOIC		297.50/2,500	
SN74HC14N	296-1577-5-ND	Hex Schmitt-Trigger Inverter	14-Dip	.53	.42	
SN74HC14NSR	296-12887-1-ND	Hex Schmitt-Trigger Inverter	14-SOP	.46	.37	
SN74HC14NSR	296-12887-2-ND	Hex Schmitt-Trigger Inverter	14-SOP		252.00/2,000	
SN74HC14PWR	296-8234-1-ND	Hex Schmitt-Trigger Inverter	14-TSSOP	.46	.37	
SN74HC14PWR	296-8234-2-ND	Hex Schmitt-Trigger Inverter	14-TSSOP		252.00/2,000	
SN74HC14QPWRQ1	296-17530-1-ND	Hex Schmitt-Trigger Inverter	14-TSSOP	.44	.35	
SN74HC14QPWRQ1	296-17530-2-ND	Hex Schmitt-Trigger Inverter	14-TSSOP		244.00/2,000	
SN74HC20DR	296-8263-1-ND	Dual 4-Input NAND Gate	14-SOIC	.46	.37	
SN74HC20DR	296-8263-2-ND	Dual 4-Input NAND Gate	14-SOIC		297.50/2,500	
SN74HC20N	296-12892-5-ND	Dual 4-Input NAND Gate	14-Dip	.53	.42	
SN74HC20NSR	296-12893-1-ND	Dual 4-Input NAND Gate	14-SOP	.46	.37	
SN74HC20NSR	296-12893-2-ND	Dual 4-Input NAND Gate	14-SOP		252.00/2,000	
SN74HC21D	296-8265-5-ND	Dual 4-Input Positive AND Gate	14-SOIC	.46	.37	
SN74HC21DR	296-14842-1-ND	Dual 4-Input Positive AND Gate	14-SOIC	.46	.37	
SN74HC21DR	296-14842-2-ND	Dual 4-Input Positive AND Gate	14-SOIC		297.50/2,500	
SN74HC21N	296-8266-5-ND	Dual 4-Input Positive AND Gate	14-Dip	.53	.42	
SN74HC21NSR	296-13216-1-ND	Dual 4-Input Positive AND Gate	14-SOP	.46	.37	
SN74HC21NSR	296-13216-2-ND	Dual 4-Input Positive AND Gate	14-SOP		252.00/2,000	
SN74HC21PWR	296-15846-1-ND	Dual 4-Input Positive AND Gate	14-TSSOP	.46	.37	
SN74HC21PWR	296-15846-2-ND	Dual 4-Input Positive AND Gate	14-TSSOP		252.00/2,000	
SN74HC27D	296-8298-5-ND	Triple 3-Input NOR Gate	14-SOIC	.46	.37	
SN74HC27DR	296-14848-1-ND	Triple 3-Input NOR Gate	14-SOIC	.46	.37	
SN74HC27DR	296-14848-2-ND	Triple 3-Input NOR Gate	14-SOIC		297.50/2,500	
SN74HC27N	296-12896-5-ND	Triple 3-Input NOR Gate	14-Dip	.53	.42	
SN74HC27NSR	296-8299-1-ND	Triple 3-Input NOR Gate	14-SOP	.46	.37	
SN74HC27NSR	296-8299-2-ND	Triple 3-Input NOR Gate	14-SOP		252.00/2,000	
SN74HC32D	296-1199-5-ND	Quad 2-Input OR Gate	14-SOIC	.46	.37	
SN74HC32DR	296-1199-1-ND	Quad 2-Input OR Gate	14-SOIC	.46	.37	
SN74HC32DR	296-1199-2-ND	Quad 2-Input OR Gate	14-SOIC		297.50/2,500	
SN74HC32DBR	296-8301-1-ND	Quad 2-Input OR Gate	14-SOP	.46	.37	
SN74HC32DBR	296-8301-2-ND	Quad 2-Input OR Gate	14-SOP		252.00/2,000	
SN74HC32N	296-1589-5-ND	Quad 2-Input OR Gate	14-Dip	.53	.42	
SN74HC32PWR	296-8302-1-ND	Quad 2-Input OR Gate	14-TSSOP	.46	.37	
SN74HC32PWR	296-8302-2-ND	Quad 2-Input OR Gate	14-TSSOP		252.00/2,000	
SN74HC42D	296-8331-5-ND	4-to-10 Line Decoder (1 of 10)	16-SOIC	.75	.63	
SN74HC42DR	296-8331-1-ND	4-to-10 Line Decoder (1 of 10)	16-SOIC	.81	.68	
SN74HC42DR	296-8331-2-ND	4-to-10 Line Decoder (1 of 10)	16-SOIC		877.50/2,500	
SN74HC42N	296-8332-5-ND	4-to-10 Line Decoder (1 of 10)	16-Dip	.75	.63	
SN74HC74D	296-1204-5-ND	Dual D-Type Flip-Flop	14-SOIC	.46	.37	
SN74HC74DR	296-1204-1-ND	Dual D-Type Flip-Flop	14-SOIC	.46	.37	
SN74HC74DR	296-1204-2-ND	Dual D-Type Flip-Flop	14-SOIC		297.50/2,500	
SN74HC74DBR	296-8370-1-ND	Dual D-Type Flip-Flop w/Clear & Preset	14-SSOP	.46	.37	
SN74HC74DBR	296-8370-2-ND	Dual D-Type Flip-Flop w/Clear & Preset	14-SSOP		252.00/2,000	
SN74HC74N	296-1602-5-ND	Dual D-Type Flip-Flop w/Clear & Preset	14-Dip	.53	.42	
SN74HC74NSR	296-8371-1-ND	Dual D-Type Flip-Flop w/Clear & Preset	14-SOP	.46	.37	

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SN74HC74PWR	296-8372-1-ND	Dual D-Type Flip-Flop with Clear and Preset	14-TSSOP	.46	.37	.26
SN74HC74PWR	296-8372-2-ND	Dual D-Type Flip-Flop with Clear and Preset	14-TSSOP		252.00/2,000	
SN74HC86D	296-8374-5-ND	Quad 2-Input Exclusive-OR Gate	14-SOIC	.46	.37	.26
SN74HC86DR	296-14859-1-ND	Quad 2-Input Exclusive-OR Gate	14-SOIC	.46	.37	.26
SN74HC86DR	296-14859-2-ND	Quad 2-Input Exclusive-OR Gate	14-SOIC		297.50/2,500	
SN74HC86N	296-8375-5-ND	Quad 2-Input Exclusive-OR Gate	14-Dip	.53	.42	.32
SN74HC86PWR	296-8376-1-ND	Quad 2-Input Exclusive-OR Gate	14-TSSOP	.46	.37	.26
SN74HC86PWR	296-8376-2-ND	Quad 2-Input Exclusive-OR Gate	14-TSSOP		252.00/2,000	
SN74HC109D	296-8211-5-ND	Dual J-K Flip-Flop with Clear and Preset	16-SOIC	.45	.36	.27
SN74HC109DR	296-14827-1-ND	Dual J-K Flip-Flop with Clear and Preset	16-SOIC	.45	.36	.27
SN74HC109DR	296-14827-2-ND	Dual J-K Flip-Flop with Clear and Preset	16-SOIC		305.00/2,500	
SN74HC109N	296-8212-5-ND	Dual J-K Flip-Flop with Clear and Preset	16-Dip	.45	.36	.27
SN74HC112D	296-8215-5-ND	Dual J-K Flip-Flop with Clear and Preset	16-SOIC	.55	.44	.33
SN74HC112DR	296-14829-1-ND	Dual J-K Flip-Flop with Clear and Preset	16-SOIC	.55	.44	.33
SN74HC112DR	296-14829-2-ND	Dual J-K Flip-Flop with Clear and Preset	16-SOIC		372.50/2,500	
SN74HC112N	296-12121-5-ND	Dual J-K Flip-Flop with Clear and Preset	16-Dip	.55	.44	.33
SN74HC125D	296-1192-5-ND	Quad Tri-State Bus Buffer Gate	14-SOIC	.55	.44	.33
SN74HC125DR	296-1192-1-ND	Quad Tri-State Bus Buffer Gate	14-SOIC	.55	.44	.33
SN74HC125DR	296-1192-2-ND	Quad Tri-State Bus Buffer Gate	14-SOIC		372.50/2,500	
SN74HC125DBR	296-8218-1-ND	Quad Tri-State Bus Buffer Gate	14-SSOP	.55	.44	.33
SN74HC125DBR	296-8218-2-ND	Quad Tri-State Bus Buffer Gate	14-SSOP		308.00/2,000	
SN74HC125N	296-1572-5-ND	Quad Tri-State Bus Buffer Gate	14-Dip	.48	.36	.27
SN74HC125PWT	296-16821-1-ND	Quad Tri-State Bus Buffer Gate	14-TSSOP	.78	.65	.52
SN74HC125PWT	296-16821-2-ND	Quad Tri-State Bus Buffer Gate	14-TSSOP		97.50/250	
SN74HC126D	296-8219-5-ND	Quad Tri-State Bus Buffer Gate	14-SOIC	.55	.44	.33
SN74HC126DBR	296-8220-1-ND	Quad Tri-State Bus Buffer Gate	14-SSOP	.55	.44	.33
SN74HC126DBR	296-8220-2-ND	Quad Tri-State Bus Buffer Gate	14-SSOP		308.00/2,000	
SN74HC126DR	296-14831-1-ND	Quad Tri-State Bus Buffer Gate	14-SOIC	.55	.44	.33
SN74HC126DR	296-14831-2-ND	Quad Tri-State Bus Buffer Gate	14-SOIC		372.50/2,500	
SN74HC126N	296-8221-5-ND	Quad Tri-State Bus Buffer Gate	14-Dip	.48	.36	.27
SN74HC126NSR	296-8222-1-ND	Quad Tri-State Bus Buffer Gate	14-SOP	.55	.44	.33
SN74HC126NSR	296-8222-2-ND	Quad Tri-State Bus Buffer Gate	14-SOP		308.00/2,000	
SN74HC126PWT	296-16822-1-ND	Quad Tri-State Bus Buffer Gate	14-TSSOP	.78	.65	.52
SN74HC126PWT	296-16822-2-ND	Quad Tri-State Bus Buffer Gate	14-TSSOP		97.50/250	
SN74HC132D	296-8224-5-ND	Quad NAND Gate w/Schmitt-Trigger In	14-SOIC	.55	.44	.33
SN74HC132DBR	296-8225-1-ND	Quad NAND Gate w/Schmitt-Trigger In	14-SSOP	.55	.44	.33
SN74HC132DBR	296-8225-2-ND	Quad NAND Gate w/Schmitt-Trigger In	14-SSOP		308.00/2,000	
SN74HC132DR	296-14832-1-ND	Quad NAND Gate w/Schmitt-Trigger In	14-SOIC	.55	.44	.33
SN74HC132DR	296-14832-2-ND	Quad NAND Gate w/Schmitt-Trigger In	14-SOIC		372.50/2,500	
SN74HC132N	296-1573-5-ND	Quad NAND Gate w/Schmitt-Trigger In	14-Dip	.48	.36	.27
SN74HC132PWR	296-8226-1-ND	Quad NAND Gate w/Schmitt-Trigger In	14-TSSOP	.55	.44	.33
SN74HC132PWR	296-8226-2-ND	Quad NAND Gate w/Schmitt-Trigger In	14-TSSOP		308.00/2,000	
SN74HC138D	296-1193-5-ND	3-to-8 Line Decoder/Demux	16-SOIC	.55	.44	.33
SN74HC138DR	296-1193-1-ND	3-to-8 Line Decoder/Demux	16-SOIC	.55	.44	.33
SN74HC138DR	296-1193-2-ND	3-to-8 Line Decoder/Demux	16-SOIC		372.50/2,500	
SN74HC138DBR	296-8227-1-ND	3-to-8 Line Decoder/Demux	16-SSOP	.55	.44	.33
SN74HC138DBR	296-8227-2-ND	3-to-8 Line Decoder/Demux	16-SSOP		308.00/2,000	
SN74HC138N	296-1575-5-ND	3-to-8 Line Decoder/Demux	16-Dip	.48	.36	.27
SN74HC138NSR	296-12886-1-ND	3-to-8 Line Decoder/Demux	16-SOP	.55	.44	.33
SN74HC138NSR	296-12886-2-ND	3-to-8 Line Decoder/Demux	16-SOP		308.00/2,000	
SN74HC138PWR	296-8228-1-ND	3-to-8 Line Decoder/Demux	16-TSSOP	.55	.44	.33
SN74HC138PWR	296-8228-2-ND	3-to-8 Line Decoder/Demux	16-TSSOP		308.00/2,000	
SN74HC139D	296-8229-5-ND	Dual 2-4 Line Decoder/Demux	16-SOIC	.55	.44	.33
SN74HC139DR	296-14833-1-ND	Dual 2-4 Line Decoder/Demux	16-SOIC	.55	.44	.33
SN74HC139DR	296-14833-2-ND	Dual 2-4 Line Decoder/Demux	16-SOIC		372.50/2,500	
SN74HC139N	296-8230-5-ND	Dual 2-4 Line Decoder/Demux	16-Dip	.48	.36	.27
SN74HC139PWR	296-8231-1-ND	Dual 2-4 Line Decoder/Demux	16-TSSOP	.55	.44	.33
SN74HC139PWR	296-8231-2-ND	Dual 2-4 Line Decoder/Demux	16-TSSOP		308.00/2,000	
SN74HC148D	296-8232-5-ND	8-to-3 Line Priority Encoder	16-SOIC	.55	.44	.33
SN74HC148N	296-8233-5-ND	8-to-3 Line Priority Encoder	16-Dip	.55	.44	.33
SN74HC151D	296-8235-5-ND	8-1 Line Data Selector/Mux	16-SOIC	.55	.44	.33
SN74HC151DR	296-14834-1-ND	8-1 Line Data Selector/Mux	16-SOIC	.55	.44	.33
SN74HC151DR	296-14834-2-ND	8-1 Line Data Selector/Mux	16-SOIC		372.50/2,500	
SN74HC151N	296-8236-5-ND	8-1 Line Data Selector/Mux	16-Dip	.48	.36	.27
SN74HC153D	296-8237-5-ND	Dual 4-1 Line Data Selector/Mux	16-SOIC	.55	.44	.33
SN74HC153DR	296-14835-1-ND	Dual 4-1 Line Data Selector/Mux	16-SOIC	.55	.44	.33
SN74HC153DR	296-14835-2-ND	Dual 4-1 Line Data Selector/Mux	16-SOIC		372.50/2,500	
SN74HC153PWR	296-12888-1-ND	Dual 4-1 Line Data Selector/Mux	16-TSSOP	.55	.44	.33
SN74HC153PWR	296-12888-2-ND	Dual 4-1 Line Data Selector/Mux	16-TSSOP		308.00/2,000	
SN74HC153N	296-8238-5-ND	Dual 4-1 Line Data Selector/Mux	16-Dip	.48	.36	.27
SN74HC157D	296-8239-5-ND	Quad 2-1 Data Selector/Mux	16-SOIC	.48	.36	.27
SN74HC157DR	296-14836-1-ND	Quad 2-1 Data Selector/Mux	16-SOIC	.48	.36	.27
SN74HC157DR	296-14836-2-ND	Quad 2-1 Data Selector/Mux	16-SOIC		390.00/2,500	
SN74HC157N	296-1578-5-ND	Quad 2-1 Data Selector/Mux	16-Dip	.53	.40	.30
SN74HC157NSR	296-8240-1-ND	Quad 2-1 Data Selector/Mux	16-SOP	.48	.36	.27
SN74HC157NSR	296-8240-2-ND	Quad 2-1 Data Selector/Mux	16-SOP		320.00/2,000	
SN74HC161D	296-8243-5-ND	4-Bit Sync. Binary Counter	16-SOIC	.55	.44	.33
SN74HC161DR	296-14837-1-ND	4-Bit Sync. Binary Counter	16-SOIC	.55	.44	.33
SN74HC161DR	296-14837-2-ND	4-Bit Sync. Binary Counter	16-SOIC		372.50/2,500	
SN74HC161N	296-8244-5-ND	4-Bit Sync. Binary Counter	16-Dip	.53	.40	.30
SN74HC163D	296-8245-5-ND	4-Bit Sync. Binary Counter	16-SOIC	.55	.44	.33
SN74HC163N	296-8246-5-ND	4-Bit Sync. Binary Counter	16-Dip	.48	.36	.27
SN74HC163NSR	296-12889-1-ND	4-Bit Sync. Binary Counter	16-SOP	.55	.44	.33
SN74HC163NSR	296-12889-2-ND	4-Bit Sync. Binary Counter	16-SOP		308.00/2,000	
SN74HC164D	296-8247-5-ND	8-Bit Parallel-Out Serial Shift Register	14-SOIC	.55	.44	.33
SN74HC164DR	296-14838-1-ND	8-Bit Parallel-Out Serial Shift Register	14-SOIC	.55	.44	.33
SN74HC164DR	296-14838-2-ND	8-Bit Parallel-Out Serial Shift Register	14-SOIC		372.50/2,500	
SN74HC164N	296-8248-5-ND	8-Bit Parallel-Out Serial Shift Register	14-Dip	.48	.36	.27
SN74HC164PWR	296-14020-1-ND	8-Bit Parallel-Out Serial Shift Register	14-TSSOP	.55	.44	.33
SN74HC164PWR	296-14020-2-ND	8-Bit Parallel-Out Serial Shift Register	14-TSSOP		308.00/2,000	
SN74HC165D	296-8249-5-ND	8-Bit Parallel-Load Shift Register	16-SOIC	.55	.44	.33
SN74HC165DR	296-8250-1-ND	8-Bit Parallel-Load Shift Register	16-SOIC	.55	.44	.33
SN74HC165DR	296-8250-2-ND	8-Bit Parallel-Load Shift Register	16-SOIC		372.50/2,500	
SN74HC165N	296-8251-5-ND	8-Bit Parallel-Load Shift Register	16-Dip	.48	.36	.27
SN74HC165NSR	296-8252-1-ND	8-Bit Parallel-Load Shift Register	16-SOP	.55	.44	.33
SN74HC165NSR	296-8252-2-ND	8-Bit Parallel-Load Shift Register	16-SOP		308.00/2,000	
SN74HC165PWR	296-8253-1-ND	8-Bit Parallel-Load Shift Register	16-TSSOP	.55	.44	.33
SN74HC165PWR	296-8253-2-ND	8-Bit Parallel-Load Shift Register	16-TSSOP		308.00/2,000	
SN74HC166D	296-8254-5-ND	8-Bit Parallel-Load Shift Register	16-SOIC	.55	.44	.33
SN74HC166DR	296-14839-1-ND	8-Bit Parallel-Load Shift Register	16-SOIC	.55	.44	.33
SN74HC166DR	296-14839-2-ND	8-Bit Parallel-Load Shift Register	16-SOIC		372.50/2,500	
SN74HC166N	296-8255-5-ND	8-Bit Parallel-Load Shift Register	16-Dip	.48	.36	.27

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74HC166NSR	296-13214-1-ND	8-Bit Parallel-Load Shift Register	16-SOP	.55	.44	.33
SN74HC166NSR	296-13214-2-ND	8-Bit Parallel-Load Shift Register	16-SOP		308.00/2,000	
SN74HC174D	296-1195-5-ND	Hex D-Type Flip-Flop with Clear	16-SOIC	.55	.44	.33
SN74HC174DR	296-1195-1-ND	Hex D-Type Flip-Flop with Clear	16-SOIC	.55	.44	.33
SN74HC174DR	296-1195-2-ND	Hex D-Type Flip-Flop with Clear	16-SOIC		372.50/2,500	
SN74HC174N	296-1579-5-ND	Hex D-Type Flip-Flop with Clear	16-Dip	.48	.36	.27
SN74HC174NSR	296-13215-1-ND	Hex D-Type Flip-Flop with Clear	16-SOP	.55	.44	.33
SN74HC174NSR	296-13215-2-ND	Hex D-Type Flip-Flop with Clear	16-SOP		308.00/2,000	
SN74HC175D	296-8256-5-ND	Quad D-Type Flip-Flop with Clear	16-SOIC	.55	.44	.33
SN74HC175DR	296-14840-1-ND	Quad D-Type Flip-Flop with Clear	16-SOIC	.55	.44	.33
SN74HC175DR	296-14840-2-ND	Quad D-Type Flip-Flop with Clear	16-SOIC		372.50/2,500	
SN74HC175N	296-8257-5-ND	Quad D-Type Flip-Flop with Clear	16-Dip	.48	.36	.27
SN74HC175PWR	296-8258-1-ND	Quad D-Type Flip-Flop with Clear	16-TSSOP	.55	.44	.33
SN74HC175PWR	296-8258-2-ND	Quad D-Type Flip-Flop with Clear	16-TSSOP		308.00/2,000	
SN74HC191D	296-8259-5-ND	4-Bit Sync. Up/Down Binary Counter	16-SOIC	.48	.36	.27
SN74HC191DR	296-14841-1-ND	4-Bit Sync. Up/Down Binary Counter	16-SOIC	.48	.36	.27
SN74HC191DR	296-14841-2-ND	4-Bit Sync. Up/Down Binary Counter	16-SOIC		390.00/2,500	
SN74HC191N	296-8260-5-ND	4-Bit Sync. Up/Down Binary Counter	16-Dip	.53	.40	.30
SN74HC191NSR	296-12890-1-ND	4-Bit Sync. Up/Down Binary Counter	16-SOP	.48	.36	.27
SN74HC191NSR	296-12890-2-ND	4-Bit Sync. Up/Down Binary Counter	16-SOP		320.00/2,000	
SN74HC193D	296-8261-5-ND	4-Bit Sync. Up/Down Counter (Dual Clock with Clear)	16-SOIC	.48	.36	.27
SN74HC193N	296-8262-5-ND	4-Bit Sync. Up/Down Counter (Dual Clock with Clear)	16-Dip	.53	.40	.30
SN74HC193NSR	296-12891-1-ND	4-Bit Sync. Up/Down Counter (Dual Clock with Clear)	16-SOP	.48	.36	.27
SN74HC193NSR	296-12891-2-ND	4-Bit Sync. Up/Down Counter (Dual Clock with Clear)	16-SOP		320.00/2,000	
SN74HC240DW	296-8267-5-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.60	.45	.34
SN74HC240DWR	296-14843-1-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.60	.45	.34
SN74HC240DWR	296-14843-2-ND	Tri-State Octal Buffer/Line Driver	20-SOIC		400.00/2,000	
SN74HC240N	296-1580-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	.66	.50	.38
SN74HC240PWR	296-8269-1-ND	Tri-State Octal Buffer/Line Driver	20-TSSOP	.60	.45	.34
SN74HC240PWR	296-8269-2-ND	Tri-State Octal Buffer/Line Driver	20-TSSOP		400.00/2,000	
SN74HC241DW	296-8270-5-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.56	.42	.32
SN74HC241N	296-8271-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	.62	.47	.35
SN74HC244DBR	296-8273-1-ND	Tri-State Octal Buffer/Line Driver	20-SSOP	.60	.45	.34
SN74HC244DBR	296-8273-2-ND	Tri-State Octal Buffer/Line Driver	20-SSOP		400.00/2,000	
SN74HC244DW	296-1196-5-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.60	.45	.34
SN74HC244DWR	296-1196-1-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.60	.45	.34
SN74HC244DWR	296-1196-2-ND	Tri-State Octal Buffer/Line Driver	20-SOIC		400.00/2,000	
SN74HC244N	296-1582-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	.66	.50	.38
SN74HC244NSR	296-8274-1-ND	Tri-State Octal Buffer/Line Driver	20-SOP	.60	.45	.34
SN74HC244NSR	296-8274-2-ND	Tri-State Octal Buffer/Line Driver	20-SOP		400.00/2,000	
SN74HC244PWR	296-8276-1-ND	Tri-State Octal Buffer/Line Driver	20-TSSOP	.60	.45	.34
SN74HC244PWR	296-8276-2-ND	Tri-State Octal Buffer/Line Driver	20-TSSOP		400.00/2,000	
SN74HC245DBR	296-8277-1-ND	Tri-State Octal Bus Transceiver	20-SSOP	.60	.45	.34
SN74HC245DBR	296-8277-2-ND	Tri-State Octal Bus Transceiver	20-SSOP		400.00/2,000	
SN74HC245DW	296-1197-5-ND	Tri-State Octal Bus Transceiver	20-SOIC	.60	.45	.34
SN74HC245DWR	296-1197-1-ND	Tri-State Octal Bus Transceiver	20-SOIC	.60	.45	.34
SN74HC245DWR	296-1197-2-ND	Tri-State Octal Bus Transceiver	20-SOIC		400.00/2,000	
SN74HC245N	296-1584-5-ND	Tri-State Octal Bus Transceiver	20-Dip	.66	.50	.38
SN74HC245NSR	296-8278-1-ND	Tri-State Octal Bus Transceiver	20-SOP	.60	.45	.34
SN74HC245NSR	296-8278-2-ND	Tri-State Octal Bus Transceiver	20-SOP		400.00/2,000	
SN74HC245PWR	296-8279-1-ND	Tri-State Octal Bus Transceiver	20-TSSOP	.60	.45	.34
SN74HC245PWR	296-8279-2-ND	Tri-State Octal Bus Transceiver	20-TSSOP		400.00/2,000	
SN74HC251D	296-8280-5-ND	Tri-State Data Selector/Mux	16-SOIC	.40	.32	.24
SN74HC251DBR	296-12894-1-ND	Tri-State Data Selector/Mux	16-SSOP	.40	.32	.24
SN74HC251DBR	296-12894-2-ND	Tri-State Data Selector/Mux	16-SSOP		224.00/2,000	
SN74HC251DR	296-14844-1-ND	Tri-State Data Selector/Mux	16-SOIC	.40	.32	.24
SN74HC251DR	296-14844-2-ND	Tri-State Data Selector/Mux	16-SOIC		270.00/2,500	
SN74HC251N	296-1585-5-ND	Tri-State Data Selector/Mux	16-Dip	.44	.36	.27
SN74HC251NSR	296-13217-1-ND	Tri-State Data Selector/Mux	16-SOP	.40	.32	.24
SN74HC251NSR	296-13217-2-ND	Tri-State Data Selector/Mux	16-SOP		224.00/2,000	
SN74HC253D	296-8281-5-ND	Tri-St. Dual 4-1 Line Data Selector/Mux	16-SOIC	.48	.36	.27
SN74HC253DBR	296-8282-1-ND	Tri-St. Dual 4-1 Line Data Selector/Mux	16-SSOP	.48	.36	.27
SN74HC253DBR	296-8282-2-ND	Tri-St. Dual 4-1 Line Data Selector/Mux	16-SSOP		320.00/2,000	
SN74HC253DR	296-14845-1-ND	Tri-St. Dual 4-1 Line Data Selector/Mux	16-SOIC	.48	.36	.27
SN74HC253DR	296-14845-2-ND	Tri-St. Dual 4-1 Line Data Selector/Mux	16-SOIC		390.00/2,500	
SN74HC253N	296-8283-5-ND	Tri-St. Dual 4-1 Line Data Selector/Mux	16-Dip	.53	.40	.30
SN74HC257D	296-8284-5-ND	Tri-St. Quad 2-1 Line Data Selector/Mux	16-SOIC	.40	.32	.24
SN74HC257DR	296-14846-1-ND	Tri-St. Quad 2-1 Line Data Selector/Mux	16-SOIC	.40	.32	.24
SN74HC257DR	296-14846-2-ND	Tri-St. Quad 2-1 Line Data Selector/Mux	16-SOIC		270.00/2,500	
SN74HC257N	296-8285-5-ND	Tri-St. Quad 2-1 Line Data Selector/Mux	16-Dip	.44	.36	.27
SN74HC257NSR	296-8286-1-ND	Tri-St. Quad 2-1 Line Data Selector/Mux	16-SOP	.40	.32	.24
SN74HC257NSR	296-8286-2-ND	Tri-St. Quad 2-1 Line Data Selector/Mux	16-SOP		224.00/2,000	
SN74HC257PWR	296-8287-1-ND	Tri-St. Quad 2-1 Line Data Selector/Mux	16-TSSOP	.40	.32	.24
SN74HC257PWR	296-8287-2-ND	Tri-St. Quad 2-1 Line Data Selector/Mux	16-TSSOP		224.00/2,000	
SN74HC259D	296-8290-5-ND	8-Bit Addressable Latch	16-SOIC	.40	.32	.24
SN74HC259DR	296-14847-1-ND	8-Bit Addressable Latch	16-SOIC	.40	.32	.24
SN74HC259DR	296-14847-2-ND	8-Bit Addressable Latch	16-SOIC		270.00/2,500	
SN74HC259N	296-8291-5-ND	8-Bit Addressable Latch	16-Dip	.44	.36	.27
SN74HC259NSR	296-12895-1-ND	8-Bit Addressable Latch	16-SOP	.40	.32	.24
SN74HC259NSR	296-12895-2-ND	8-Bit Addressable Latch	16-SOP		224.00/2,000	
SN74HC259PWR	296-8292-1-ND	8-Bit Addressable Latch	16-TSSOP	.40	.32	.24
SN74HC259PWR	296-8292-2-ND	8-Bit Addressable Latch	16-TSSOP		224.00/2,000	
SN74HC266D	296-8293-5-ND	Quad 2-Input Exclusive-NOR Gate with Open-Drain Output	14-SOIC	.50	.40	.30
SN74HC266N	296-8294-5-ND	Quad 2-Input Exclusive-NOR Gate with Open-Drain Output	14-Dip	.55	.44	.33
SN74HC273DBR	296-8295-1-ND	Octal D-Type Flip-Flop with Clear	20-SSOP	.55	.44	.33
SN74HC273DBR	296-8295-2-ND	Octal D-Type Flip-Flop with Clear	20-SSOP		308.00/2,000	
SN74HC273DW	296-1198-5-ND	Octal D-Type Flip-Flop	20-SOIC	.55	.44	.33
SN74HC273DWR	296-1198-1-ND	Octal D-Type Flip-Flop	20-SOIC	.55	.44	.33
SN74HC273DWR	296-1198-2-ND	Octal D-Type Flip-Flop	20-SOIC		308.00/2,000	
SN74HC273N	296-1587-5-ND	Octal D-Type Flip-Flop	20-Dip	.48	.36	.27
SN74HC273NSR	296-8296-1-ND	Octal D-Type Flip-Flop with Clear	20-SOP	.55	.44	.33
SN74HC273NSR	296-8296-2-ND	Octal D-Type Flip-Flop with Clear	20-SOP		308.00/2,000	
SN74HC273PWR	296-8297-1-ND	Octal D-Type Flip-Flop with Clear	20-TSSOP	.55	.44	.33
SN74HC273PWR	296-8297-2-ND	Octal D-Type Flip-Flop with Clear	20-TSSOP		308.00/2,000	

(Continued)

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74HC365D	296-8303-5-ND	Tri-State Hex Buffer/Line Driver	16-SOIC	.52	.39	.30
SN74HC365N	296-8304-5-ND	Tri-State Hex Buffer/Line Driver	16-Dip	.52	.39	.30
SN74HC365NSR	296-12897-1-ND	Tri-State Hex Buffer/Line Driver	16-SOP	.52	.39	.30
SN74HC365NSR	296-12897-2-ND	Tri-State Hex Buffer/Line Driver	16-SOP		346.00/2,000	
SN74HC367D	296-8305-5-ND	Tri-State Hex Buffer/Line Driver	16-SOIC	.52	.39	.30
SN74HC367DR	296-14849-1-ND	Tri-State Hex Buffer/Line Driver	16-SOIC	.52	.39	.30
SN74HC367DR	296-14849-2-ND	Tri-State Hex Buffer/Line Driver	16-SOIC		422.50/2,500	
SN74HC367N	296-8306-5-ND	Tri-State Hex Buffer/Line Driver	16-Dip	.64	.48	.36
SN74HC367NSR	296-12898-1-ND	Tri-State Hex Buffer/Line Driver	16-SOP	.52	.39	.30
SN74HC367NSR	296-12898-2-ND	Tri-State Hex Buffer/Line Driver	16-SOP		346.00/2,000	
SN74HC368D	296-8307-5-ND	Tri-State Hex Buffer/Line Driver	16-SOIC	.52	.39	.30
SN74HC368DR	296-14850-1-ND	Tri-State Hex Buffer/Line Driver	16-SOIC	.52	.39	.30
SN74HC368DR	296-14850-2-ND	Tri-State Hex Buffer/Line Driver	16-SOIC		422.50/2,500	
SN74HC368N	296-8308-5-ND	Tri-State Hex Buffer/Line Driver	16-Dip	.57	.43	.33
SN74HC373DBR	296-8309-1-ND	Tri-St. Octal Transparent D-Type Latch	20-SSOP	.60	.45	.34
SN74HC373DBR	296-8309-2-ND	Tri-St. Octal Transparent D-Type Latch	20-SSOP		400.00/2,000	
SN74HC373DW	296-1200-5-ND	Tri-St. Octal Transparent D-Type Latch	20-SOIC	.60	.45	.34
SN74HC373DWR	296-1200-1-ND	Tri-St. Octal Transparent D-Type Latch	20-SOIC	.60	.45	.34
SN74HC373DWR	296-1200-2-ND	Tri-St. Octal Transparent D-Type Latch	20-SOIC		400.00/2,000	
SN74HC373N	296-1591-5-ND	Tri-St. Octal Transparent D-Type Latch	20-Dip	.66	.50	.38
SN74HC373NSR	296-8310-1-ND	Tri-St. Octal Transparent D-Type Latch	20-SOP	.60	.45	.34
SN74HC373NSR	296-8310-2-ND	Tri-St. Octal Transparent D-Type Latch	20-SOP		400.00/2,000	
SN74HC373PWR	296-8311-1-ND	Tri-St. Octal Transparent D-Type Latch	20-TSSOP	.60	.45	.34
SN74HC373PWR	296-8311-2-ND	Tri-St. Octal Transparent D-Type Latch	20-TSSOP		400.00/2,000	
SN74HC374DBR	296-8312-1-ND	Tri-State Octal D-Type Flip-Flop	20-SSOP	.60	.45	.34
SN74HC374DBR	296-8312-2-ND	Tri-State Octal D-Type Flip-Flop	20-SSOP		400.00/2,000	
SN74HC374DW	296-1201-5-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.60	.45	.34
SN74HC374DW	296-1201-1-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.60	.45	.34
SN74HC374DWR	296-1201-2-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC		400.00/2,000	
SN74HC374N	296-1592-5-ND	Tri-State Octal D-Type Flip-Flop	20-Dip	.66	.50	.38
SN74HC374NSR	296-8313-1-ND	Tri-State Octal D-Type Flip-Flop	20-SOP	.60	.45	.34
SN74HC374NSR	296-8313-2-ND	Tri-State Octal D-Type Flip-Flop	20-SOP		400.00/2,000	
SN74HC374PWR	296-8314-1-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	.60	.45	.34
SN74HC374PWR	296-8314-2-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP		400.00/2,000	
SN74HC377DW	296-9818-5-ND	Octal D-Type Flip-Flop with Clock Enable	20-SOIC	.48	.36	.27
SN74HC377DWR	296-9818-1-ND	Octal D-Type Flip-Flop with Clock Enable	20-SOP	.48	.36	.27
SN74HC377DWR	296-9818-2-ND	Octal D-Type Flip-Flop with Clock Enable	20-SOP		320.00/2,000	
SN74HC377N	296-8316-5-ND	Octal D-Type Flip-Flop with Clock Enable	20-Dip	.53	.40	.30
SN74HC393D	296-8317-5-ND	Dual 4-Bit Binary Counter	14-SOIC	.40	.32	.24
SN74HC393DBR	296-8318-1-ND	Dual 4-Bit Binary Counter	14-SSOP	.40	.32	.24
SN74HC393DBR	296-8318-2-ND	Dual 4-Bit Binary Counter	14-SSOP		224.00/2,000	
SN74HC393DR	296-14851-1-ND	Dual 4-Bit Binary Counter	14-SOIC	.40	.32	.24
SN74HC393DR	296-14851-2-ND	Dual 4-Bit Binary Counter	14-SOIC		270.00/2,500	
SN74HC393N	296-8319-5-ND	Dual 4-Bit Binary Counter	14-Dip	.44	.36	.27
SN74HC540DWR	296-8333-1-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.56	.42	.32
SN74HC540DWR	296-8333-2-ND	Tri-State Octal Buffer/Line Driver	20-SOIC		372.00/2,000	
SN74HC540N	296-8334-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	.62	.47	.35
SN74HC541DBR	296-14855-1-ND	Tri-State Octal Buffer/Line Driver	20-SSOP	.56	.42	.32
SN74HC541DBR	296-14855-2-ND	Tri-State Octal Buffer/Line Driver	20-SSOP		372.00/2,000	
SN74HC541DW	296-1202-5-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.56	.42	.32
SN74HC541DWR	296-1202-1-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.56	.42	.32
SN74HC541DWR	296-1202-2-ND	Tri-State Octal Buffer/Line Driver	20-SOIC		372.00/2,000	
SN74HC541N	296-1594-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	.62	.47	.35
SN74HC541NSR	296-13218-1-ND	Tri-State Octal Buffer/Line Driver	20-SOP	.56	.42	.32
SN74HC541NSR	296-13218-2-ND	Tri-State Octal Buffer/Line Driver	20-SOP		372.00/2,000	
SN74HC541PWR	296-8335-1-ND	Tri-State Octal Buffer/Line Driver	20-TSSOP	.56	.42	.32
SN74HC541PWR	296-8335-2-ND	Tri-State Octal Buffer/Line Driver	20-TSSOP		372.00/2,000	
SN74HC573ADW	296-1203-5-ND	Tri-State Octal D-Type Latch	20-SOIC	.60	.45	.34
SN74HC573ADWR	296-1203-1-ND	Tri-State Octal D-Type Latch	20-SOIC	.60	.45	.34
SN74HC573ADWR	296-1203-2-ND	Tri-State Octal D-Type Latch	20-SOIC		400.00/2,000	
SN74HC573AN	296-1596-5-ND	Tri-State Octal D-Type Latch	20-Dip	.66	.50	.38
SN74HC573APWR	296-8338-1-ND	Tri-State Octal Transp. D-Type Latch	20-TSSOP	.60	.45	.34
SN74HC573APWR	296-8338-2-ND	Tri-State Octal Transp. D-Type Latch	20-TSSOP		400.00/2,000	
SN74HC574DW	296-1597-5-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.60	.45	.34
SN74HC574DWR	296-1597-1-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.60	.45	.34
SN74HC574DWR	296-1597-2-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC		400.00/2,000	
SN74HC574N	296-1598-5-ND	Tri-State Octal D-Type Flip-Flop	20-Dip	.66	.50	.38
SN74HC574PWR	296-8339-1-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	.60	.45	.34
SN74HC574PWR	296-8339-2-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP		400.00/2,000	
SN74HC590AD	296-8340-5-ND	Tri-State 8-Bit Binary Counter	16-SOIC	.52	.39	.30
SN74HC590ADR	296-17132-1-ND	Tri-State 8-Bit Binary Counter	16-SOIC	.52	.39	.30
SN74HC590ADR	296-17132-2-ND	Tri-State 8-Bit Binary Counter	16-SOIC		422.50/2,500	
SN74HC590ADW	296-8341-5-ND	Tri-State 8-Bit Binary Counter	16-SOIC	.52	.39	.30
SN74HC590ADWR	296-14856-1-ND	Tri-State 8-Bit Binary Counter	16-SOIC	.52	.39	.30
SN74HC590ADWR	296-14856-2-ND	Tri-State 8-Bit Binary Counter	16-SOIC		346.00/2,000	
SN74HC590AN	296-1599-5-ND	Tri-State 8-Bit Binary Counter	16-Dip	.52	.39	.30
SN74HC594DW	296-8342-5-ND	8-Bit Shift Register with Output Register	16-SOIC	.75	.63	.50
SN74HC594N	296-8343-5-ND	8-Bit Shift Register with Output Register	16-Dip	.75	.63	.50
SN74HC595D	296-8344-5-ND	Tri-State 8-Bit Shift Register	16-SOIC	.50	.40	.30
SN74HC595DR	296-14857-1-ND	Tri-State 8-Bit Shift Register	16-SOIC	.50	.40	.30
SN74HC595DR	296-14857-2-ND	Tri-State 8-Bit Shift Register	16-SOIC		337.50/2,500	
SN74HC595DW	296-8345-5-ND	Tri-State 8-Bit Shift Register	16-SOIC	.50	.40	.30
SN74HC595DWR	296-14858-1-ND	Tri-State 8-Bit Shift Register	16-SOIC	.50	.40	.30
SN74HC595DWR	296-14858-2-ND	Tri-State 8-Bit Shift Register	16-SOIC		280.00/2,000	
SN74HC595N	296-1600-5-ND	Tri-State 8-Bit Shift Register	16-Dip	.53	.40	.30
SN74HC623DW	296-8346-5-ND	Tri-State Octal Bus Transceiver	20-SOIC	5.20	4.16	3.51
SN74HC623N	296-8347-5-ND	Tri-State Octal Bus Transceiver	20-Dip	5.20	4.16	3.51
SN74HC640DW	296-8348-5-ND	Tri-State Octal Bus Transceiver	20-SOIC	.80	.60	.45
SN74HC640N	296-8349-5-ND	Tri-State Octal Bus Transceiver	20-Dip	.88	.66	.50
SN74HC645DW	296-8350-5-ND	Tri-State Octal Bus Transceiver	20-SOIC	1.05	.88	.70
SN74HC645N	296-8351-5-ND	Tri-State Octal Bus Transceiver	20-Dip	1.05	.88	.70
SN74HC646DW	296-8352-5-ND	Tri-State Octal Bus Transceiver/Register	24-SOIC	1.11	.93	.74
SN74HC646NT	296-8353-5-ND	Tri-State Octal Bus Transceiver/Register	24-Dip	1.23	1.03	.82
SN74HC652DW	296-8354-5-ND	Tri-State Octal Bus Transceiver/Register	24-SOIC	1.50	1.20	.90
SN74HC652NT	296-8355-5-ND	Tri-State Octal Bus Transceiver/Register	24-Dip	1.65	1.32	.99
SN74HC682DWR	296-8356-1-ND	8-Bit Magnitude Comparator	20-SOIC	3.35	2.69	2.09
SN74HC682DWR	296-8356-2-ND	8-Bit Magnitude Comparator	20-SOIC		3800.00/2,000	
SN74HC682N	296-8357-5-ND	8-Bit Magnitude Comparator	20-Dip	3.31	2.65	2.06
SN74HC684DW	296-8358-5-ND	8-Bit Magnitude Comparator	20-SOIC	5.76	4.61	3.89
SN74HC684N	296-8359-5-ND	8-Bit Magnitude Comparator	20-Dip	6.00	4.80	4.05
SN74HC688DW	296-8360-5-ND	8-Bit Identity Comparator	20-SOIC	.80	.60	.45
SN74HC688N	296-8361-5-ND	8-Bit Identity Comparator	20-Dip	.80	.60	.45
SN74HC688PWR	296-8362-1-ND	8-Bit Identity Comparator	20-TSSOP	2.43	1.95	1.52
SN74HC688PWR	296-8362-2-ND	8-Bit Identity Comparator	20-TSSOP		2754.00/2,000	
SN74HC4020D	296-8320-5-ND	14-Bit Async. Binary Counter	16-SOIC	.50	.20	.15

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	10
SN74HC4020N	296-8321-5-ND	14-Bit Async. Binary Counter	16-Dip	.48	.36	
SN74HC4040D	296-8322-5-ND	12-Bit Async. Binary Counter	16-SOIC	.48	.36	
SN74HC4040DBR	296-8323-1-ND	12-Bit Async. Binary Counter	16-SSOP	.48	.36	
SN74HC4040DBR	296-8323-2-ND	12-Bit Async. Binary Counter	16-SSOP		320.00/2,000	
SN74HC4040DR	296-14852-1-ND	12-Bit Async. Binary Counter	16-SOIC	.48	.36	
SN74HC4040DR	296-14852-2-ND	12-Bit Async. Binary Counter	16-SOIC		390.00/2,50	
SN74HC4040N	296-8324-5-ND	12-Bit Async. Binary Counter	16-Dip	.53	.40	
SN74HC4040PWR	296-8325-1-ND	12-Bit Async. Binary Counter	16-TSSOP	.48	.36	
SN74HC4040PWR	296-8325-2-ND	12-Bit Async. Binary Counter	16-TSSOP		320.00/2,00	
SN74HC4060D	296-8326-5-ND	14-Stage Async. Binary Counter and Oscillator	16-SOIC	.48	.36	
SN74HC4060DR	296-14853-1-ND	14-Stage Async. Binary Counter and Oscillator	16-SOIC	.48	.36	
SN74HC4060DR	296-14853-2-ND	14-Stage Async. Binary Counter and Oscillator	16-SOIC		390.00/2,50	
SN74HC4060N	296-8209-5-ND	14-Stage Async. Binary Counter and Oscillator	16-Dip	.48	.36	
SN74HC4066D	296-8327-5-ND	Quad Bilateral Analog Switch	14-SOIC	.50	.40	
SN74HC4066DBR	296-8328-1-ND	Quad Bilateral Analog Switch	14-SSOP	.50	.40	
SN74HC4066DBR	296-8328-2-ND	Quad Bilateral Analog Switch	14-SSOP		280.00/2,00	
SN74HC4066DR	296-14854-1-ND	Quad Bilateral Analog Switch	14-SOIC	.50	.40	
SN74HC4066DR	296-14854-2-ND	Quad Bilateral Analog Switch	14-SOIC		337.50/2,50	
SN74HC4066N	296-8329-5-ND	Quad Bilateral Analog Switch	14-Dip	.50	.40	
SN74HC4066PWR	296-8330-1-ND	Quad Bilateral Analog Switch	14-TSSOP	.50	.40	
SN74HC4066PWR	296-8330-2-ND	Quad Bilateral Analog Switch	14-TSSOP		280.00/2,00	
SN74HC4851DR	296-15740-1-ND	8-Channel Analog Mux/Demux	16-SOIC	.64	.48	
SN74HC4851DR	296-15740-2-ND	8-Channel Analog Mux/Demux	16-SOIC		520.00/2,50	
SN74HC4851N	296-15741-5-ND	8-Channel Analog Mux/Demux	16-Dip	.64	.48	
SN74HC4851PWR	296-16983-1-ND	8-Channel Analog Mux/Demux	16-TSSOP	.64	.48	
SN74HC4851PWR	296-16983-2-ND	8-Channel Analog Mux/Demux	16-TSSOP		426.00/2,00	
SN74HC4851QDRQ1	296-17266-1-ND	8-Channel Analog Mux/Demux	16-SOIC	.75	.57	
SN74HC4851QDRQ1	296-17266-2-ND	8-Channel Analog Mux/Demux	16-SOIC		610.00/2,50	
SN74HC4852N	296-17301-5-ND	Dual 4-1 Channel Analog Mux/Demux	16-Dip	.64	.48	
SN74HC7001D	296-8363-5-ND	Quad AND Gate w/Schmitt-Trigger Input	14-SOIC	1.23	1.03	
SN74HC7001N	296-8364-5-ND	Quad AND Gate w/Schmitt-Trigger Input	14-Dip	1.23	1.03	
SN74HC7002D	296-8365-5-ND	Quad NOR Gate w/Schmitt-Trigger Input	14-SOIC	1.88	1.50	1.
SN74HC7002N	296-8366-5-ND	Quad NOR Gate w/Schmitt-Trigger Input	14-Dip	1.88	1.50	1.
SN74HC7032D	296-8367-5-ND	Quad OR Gate w/Schmitt-Trigger Input	14-SOIC	2.20	1.76	1.
SN74HC7032N	296-8368-5-ND	Quad OR Gate w/Schmitt-Trigger Input	14-Dip	2.20	1.76	1.
		HCT Family				
CD74HCT00E	296-2081-5-ND	Quad 2-Input NAND Gate	14-Dip	.53	.42	
CD74HCT00M	296-9244-5-ND	Quad 2-Input NAND Gate	14-SOIC	.44	.36	
CD74HCT00M96	296-14542-1-ND	Quad 2-Input NAND Gate	14-SOIC	.46	.37	
CD74HCT00M96	296-14542-2-ND	Quad 2-Input NAND Gate	14-SOIC		297.50/2,50	
CD74HCT02E	296-2082-5-ND	Quad 2-Input NOR Gate	14-Dip	.53	.42	
CD74HCT02M	296-12825-5-ND	Quad 2-Input NOR Gate	14-SOIC	.46	.37	
CD74HCT03E	296-2134-5-ND	Quad 2-Input NAND Gate with OD	14-Dip	.53	.42	
CD74HCT03M96	296-9245-1-ND	Quad 2-Input NAND Gate with OD	14-SOIC	.44	.36	
CD74HCT03M96	296-9245-2-ND	Quad 2-Input NAND Gate with OD	14-SOIC		285.00/2,50	
CD74HCT04E	296-2083-5-ND	Hex Inverter/Buffer	14-Dip	.53	.42	
CD74HCT04M	296-9246-5-ND	Hex Inverter/Buffer	14-SOIC	.44	.36	
CD74HCT04M96	296-14543-1-ND	Hex Inverter/Buffer	14-SOIC	.46	.37	
CD74HCT04M96	296-14543-2-ND	Hex Inverter/Buffer	14-SOIC		297.50/2,50	
CD74HCT04PWR	296-17123-1-ND	Hex Inverter/Buffer	14-TSSOP	.46	.37	
CD74HCT04PWR	296-17123-2-ND	Hex Inverter/Buffer	14-TSSOP		252.00/2,00	
CD74HCT08E	296-2084-5-ND	Quad 2-Input AND Gate	14-Dip	.53	.42	
CD74HCT08M	296-12828-5-ND	Quad 2-Input AND Gate	14-SOIC	.46	.37	
CD74HCT08M96	296-14544-1-ND	Quad 2-Input AND Gate	14-SOIC	.46	.37	
CD74HCT08M96	296-14544-2-ND	Quad 2-Input AND Gate	14-SOIC		297.50/2,50	
CD74HCT10E	296-2086-5-ND	Triple 3-Input NAND Gate	14-Dip	.53	.42	
CD74HCT10M	296-9247-5-ND	Triple 3-Input NAND Gate	14-SOIC	.44	.36	
CD74HCT10M96	296-14545-1-ND	Triple 3-Input NAND Gate	14-SOIC	.46	.37	
CD74HCT10M96	296-14545-2-ND	Triple 3-Input NAND Gate	14-SOIC		297.50/2,50	
CD74HCT11E	296-2087-5-ND	Triple 3-Input AND Gate	14-Dip	.53	.42	
CD74HCT11M96	296-9249-1-ND	Triple 3-Input AND Gate	14-SOIC	.44	.36	
CD74HCT11M96	296-9249-2-ND	Triple 3-Input AND Gate	14-SOIC		285.00/2,50	
CD74HCT14E	296-2093-5-ND	Hex Schmitt-Trigger Inverter	14-Dip	.53	.42	
CD74HCT14M	296-9253-5-ND	Hex Schmitt-Trigger Inverter	14-SOIC	.44	.36	
CD74HCT14M96	296-14548-1-ND	Hex Schmitt-Trigger Inverter	14-SOIC	.46	.37	
CD74HCT14M96	296-14548-2-ND	Hex Schmitt-Trigger Inverter	14-SOIC		297.50/2,50	
CD74HCT21E	296-9262-5-ND	Dual 4-Input AND Gate	14-Dip	.53	.42	
CD74HCT30E	296-2111-5-ND	8-Input NAND Gate	14-Dip	.53	.42	
CD74HCT30M	296-9267-5-ND	8-Input NAND Gate	14-SOIC	.44	.36	
CD74HCT32E	296-2112-5-ND	Quad 2-Input OR Gate	14-Dip	.53	.42	
CD74HCT32M	296-12842-5-ND	Quad 2-Input OR Gate	14-SOIC	.46	.37	
CD74HCT32M96	296-14555-1-ND	Quad 2-Input OR Gate	14-SOIC	.46	.37	
CD74HCT32M96	296-14555-2-ND	Quad 2-Input OR Gate	14-SOIC		297.50/2,50	
CD74HCT73E	296-9297-5-ND	Dual Neg-Edge-Trig. J-K Flip-Flop with Reset	14-Dip	.80	.60	
CD74HCT73M	296-9298-5-ND	Dual Neg-Edge-Trig. J-K Flip-Flop with Reset	14-SOP	.80	.60	
CD74HCT74E	296-2132-5-ND	Dual D-Type Flip-Flop with Set and Reset	14-Dip	.53	.42	
CD74HCT74M	296-9299-5-ND	Dual Pos-Edge-Trig. D-Type Flip-Flop with Set and Reset	14-SOIC	.44	.36	
CD74HCT74M96	296-14561-1-ND	Dual Pos-Edge-Trig. D-Type Flip-Flop with Set and Reset	14-SOIC	.46	.37	
CD74HCT74M96	296-14561-2-ND	Dual Pos-Edge-Trig. D-Type Flip-Flop with Set and Reset	14-SOIC		297.50/2,50	
CD74HCT86E	296-2133-5-ND	Quad High Speed 2-Input Exclusive-OR Gate	14-Dip	.53	.42	
CD74HCT86M	296-8201-5-ND	Quad High Speed 2-Input Exclusive-OR Gate	14-SOIC	.44	.36	
CD74HCT86M96	296-8201-1-ND	Quad High Speed 2-Input Exclusive-OR Gate	14-SOIC	.44	.36	
CD74HCT86M96	296-8201-2-ND	Quad High Speed 2-Input Exclusive-OR Gate	14-SOIC		285.00/2,50	
CD74HCT109E	296-2085-5-ND	Dual J-K Flip-Flop with Set and Reset	16-Dip	.72	.54	
CD74HCT112E	296-9248-5-ND	Dual Neg-Edge-Trig J-K Flip-Flop with Set and Reset	16-Dip	.50	.40	
CD74HCT123E	296-2088-5-ND	Dual Retriggerable Monostable Multivibrator with Reset	16-Dip	.53	.40	
CD74HCT123M	296-9250-5-ND	Dual Retriggerable Monostable Multivibrator with Reset	16-SOIC	.48	.36	

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
CD74HCT125E	296-2089-5-ND	Tri-State Quad Buffer	14-Dip	.53	.40	.30
CD74HCT125M96	296-12829-1-ND	Tri-State Quad Buffer	14-SOIC	.48	.36	.27
CD74HCT125M96	296-12829-2-ND	Tri-State Quad Buffer	14-SOIC		390.00/2,500	
CD74HCT126E	296-9251-5-ND	Tri-State Quad Buffer	14-Dip	.48	.36	.27
CD74HCT126M	296-12830-5-ND	Tri-State Quad Buffer	14-SOIC	.48	.36	.27
CD74HCT126M96	296-14546-1-ND	Tri-State Quad Buffer	14-SOIC	.48	.36	.27
CD74HCT126M96	296-14546-2-ND	Tri-State Quad Buffer	14-SOIC		390.00/2,500	
CD74HCT132E	296-2090-5-ND	Quad 2-In NAND Schmitt Trigger	14-Dip	.53	.40	.30
CD74HCT132M96	296-12831-1-ND	Quad 2-In NAND Schmitt Trigger	14-SOIC	.48	.36	.27
CD74HCT132M96	296-12831-2-ND	Quad 2-In NAND Schmitt Trigger	14-SOIC		390.00/2,500	
CD74HCT138E	296-2091-5-ND	3-8 Line Decoder/Demux Inverting/Non-Inverting	16-Dip	.53	.40	.30
CD74HCT138M	296-12832-5-ND	3-8 Line Decoder/Demux Inverting/Non-Inverting	16-SOIC	.48	.36	.27
CD74HCT138M96	296-14547-1-ND	3-8 Line Decoder/Demux Inverting/Non-Inverting	16-SOIC	.48	.36	.27
CD74HCT138M96	296-14547-2-ND	3-8 Line Decoder/Demux Inverting/Non-Inverting	16-SOIC		390.00/2,500	
CD74HCT139E	296-2092-5-ND	Dual 2-of-4 Line Decoder/Demux	16-Dip	.53	.40	.30
CD74HCT147E	296-9252-5-ND	10-4 Line Priority Encoder	16-Dip	.53	.40	.30
CD74HCT151M	296-9254-5-ND	8-Input Multiplexer	16-SOIC	.48	.36	.27
CD74HCT153E	296-2094-5-ND	Dual 4-Input Multiplexer	16-Dip	.48	.36	.27
CD74HCT153M	296-9255-5-ND	Dual 4-Input Multiplexer	16-SOIC	.48	.36	.27
CD74HCT157E	296-2095-5-ND	Quad 2-Input Multiplexer	16-Dip	.53	.40	.30
CD74HCT161E	296-2096-5-ND	Sync. 4-Bit Binary Counter, Async. Reset	16-Dip	.53	.40	.30
CD74HCT161M	296-9256-5-ND	Sync. 4-Bit Binary Counter, Async. Reset	16-SOIC	.48	.36	.27
CD74HCT163E	296-12833-5-ND	Presettable Sync. Counter	16-Dip	.53	.40	.30
CD74HCT164E	296-2097-5-ND	8-Bit Serial-In Parallel-Out Shift Register	14-Dip	.53	.40	.30
CD74HCT164M	296-9257-5-ND	8-Bit Serial-In/Parallel-Out Shift Register	14-SOIC	.48	.36	.27
CD74HCT164M96	296-14549-1-ND	8-Bit Serial-In/Parallel-Out Shift Register	14-SOIC	.48	.36	.27
CD74HCT164M96	296-14549-2-ND	8-Bit Serial-In/Parallel-Out Shift Register	14-SOIC		390.00/2,500	
CD74HCT165E	296-2098-5-ND	8-Bit Parallel-In Serial-Out Shift Register	16-Dip	.53	.40	.30
CD74HCT165M	296-9258-5-ND	Asynchronous 8-Bit Parallel-In/Serial-Out Shift Register	16-SOIC	.48	.36	.27
CD74HCT165M96	296-14551-1-ND	8-Bit Parallel-In Serial-Out Shift Register	16-SOIC	.48	.36	.27
CD74HCT165M96	296-14551-2-ND	8-Bit Parallel-In Serial-Out Shift Register	16-SOIC		390.00/2,500	
CD74HCT166E	296-2099-5-ND	8-Bit Parallel-In Serial-Out Shift Register	16-Dip	.53	.40	.30
CD74HCT166M	296-9259-5-ND	Synchronous 8-Bit Parallel-In/Serial-Out Shift Register	16-SOIC	.48	.36	.27
CD74HCT174E	296-2100-5-ND	Hex D-Type Flip-Flop with Reset	16-Dip	.53	.40	.30
CD74HCT174M	296-9260-5-ND	Hex D-Type Flip-Flop with Reset	16-SOIC	.48	.36	.27
CD74HCT174M96	296-12836-1-ND	Hex D-Type Flip-Flop with Reset	16-SOIC	.48	.36	.27
CD74HCT174M96	296-12836-2-ND	Hex D-Type Flip-Flop with Reset	16-SOIC		390.00/2,500	
CD74HCT175E	296-2101-5-ND	Quad D-Type Flip-Flop with Reset	16-Dip	.53	.40	.30
CD74HCT175M96	296-12837-1-ND	Quad D-Type Flip-Flop with Reset	16-SOIC	.48	.36	.27
CD74HCT175M96	296-12837-2-ND	Quad D-Type Flip-Flop with Reset	16-SOIC		390.00/2,500	
CD74HCT191M	296-9261-5-ND	Presettable Synchronous 4-Bit Binary Up/Down Counter	16-SOIC	.48	.36	.27
CD74HCT221M96	296-9263-1-ND	Dual Mono Multivibrator with Reset	16-SOIC	.56	.42	.32
CD74HCT221M96	296-9263-2-ND	Dual Mono Multivibrator with Reset	16-SOIC		455.00/2,500	
CD74HCT238M96	296-17124-5-ND	HS CMOS 3 to 8 Line Decoder/Demux Inverter/Noninverting	16-SOIC	.48	.36	.27
CD74HCT240E	296-2103-5-ND	Tri-St. Inverting Octal Buffer Line Driver	20-Dip	.66	.50	.38
CD74HCT240M	296-9264-5-ND	Tri-St. Inverting Octal Buffer Line Driver	20-SOIC	.60	.45	.34
CD74HCT241M96	296-12838-1-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.60	.45	.34
CD74HCT241M96	296-12838-2-ND	Tri-State Octal Buffer/Line Driver	20-SOIC		400.00/2,000	
CD74HCT243E	296-2145-5-ND	Tri-State HS CMOS Logic Quad Bus Transceiver	14-Dip	.96	.80	.64
CD74HCT244E	296-2104-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	.66	.50	.38
CD74HCT244M	296-12839-5-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.60	.45	.34
CD74HCT244M96	296-14552-1-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.60	.45	.34
CD74HCT244M96	296-14552-2-ND	Tri-State Octal Buffer/Line Driver	20-SOIC		400.00/2,000	
CD74HCT245E	296-2105-5-ND	Tri-State Octal Bus Transceiver	20-Dip	.66	.50	.38
CD74HCT245M	296-12840-5-ND	Tri-State Octal Bus Transceiver	20-SOIC	.60	.45	.34
CD74HCT245M96	296-14553-1-ND	Tri-State Octal Bus Transceiver	20-SOIC	.60	.45	.34
CD74HCT245M96	296-14553-2-ND	Tri-State Octal Bus Transceiver	20-SOIC		400.00/2,000	
SN74HCT245NSR	296-15849-1-ND	Tri-State Octal Bus Transceiver	20-SOP	.60	.45	.34
SN74HCT245NSR	296-15849-2-ND	Tri-State Octal Bus Transceiver	20-SOP		400.00/2,000	
CD74HCT251E	296-2106-5-ND	Tri-State 8-Input Multiplexer	16-Dip	.66	.50	.38
CD74HCT253E	296-2107-5-ND	Tri-State Dual 4-Input Multiplexer	16-Dip	.60	.45	.34
CD74HCT253M	296-9265-5-ND	Tri-State Dual 4-Input Multiplexer	16-SOIC	.60	.45	.34
CD74HCT257E	296-2108-5-ND	Tri-St. Quad 2-Input Mux, Non-Invert Out	16-Dip	.60	.45	.34
CD74HCT258E	296-2146-5-ND	Tri-State Inverting High Speed CMOS Logic Quad 2-Input Multiplexer	16-Dip	.52	.39	.30
CD74HCT259E	296-2109-5-ND	8-Bit Addressable Latch	16-Dip	.62	.47	.35
CD74HCT273E	296-2110-5-ND	Octal D-Type Flip-Flop with Reset	20-Dip	.66	.50	.38
CD74HCT273M	296-12841-5-ND	Octal D-Type Flip-Flop with Reset	20-SOIC	.60	.45	.34
CD74HCT273M96	296-14554-1-ND	Octal D-Type Flip-Flop with Reset	20-SOIC	.60	.45	.34
CD74HCT273M96	296-14554-2-ND	Octal D-Type Flip-Flop with Reset	20-SOIC		400.00/2,000	
CD74HCT280E	296-2147-5-ND	High Speed CMOS Logic 9-Bit Odd/Even Parity Generator/Checker	14-Dip	.56	.42	.32
CD74HCT299M	296-9266-5-ND	Tri-State 8-Bit Universal Shift Register	20-SOIC	.72	.54	.41
CD74HCT356E	296-2148-5-ND	Tri-State High Speed CMOS Logic 8-Input Multiplexer/Register	20-Dip	1.08	.90	.72
CD74HCT365E	296-2149-5-ND	Tri-State High Speed CMOS Logic Hex Buffer/Line Driver, Non-Invert	16-Dip	.48	.36	.27
CD74HCT365M96	296-15733-1-ND	Tri-State High Speed CMOS Logic Hex Buffer/Line Driver, Non-Invert	16-SOIC	.48	.36	.27
CD74HCT365M96	296-15733-2-ND	Tri-State High Speed CMOS Logic Hex Buffer/Line Driver, Non-Invert	16-SOIC		390.00/2,500	
CD74HCT367E	296-2113-5-ND	Tri-State Hex Buffer/Line Driver	16-Dip	.48	.36	.27
CD74HCT368M	296-9268-5-ND	Tri-State Inverting Hex Buffer/Line Driver	16-SOIC	.48	.36	.27
CD74HCT373E	296-2114-5-ND	Tri-State Octal Transparent D-Type Latch	20-Dip	.66	.50	.38
CD74HCT373M	296-12843-5-ND	Tri-State Octal Transparent D-Type Latch	20-SOIC	.60	.45	.34
CD74HCT374E	296-2115-5-ND	Tri-State Octal D-Type Flip-Flop	20-Dip	.66	.50	.38
CD74HCT374M96	296-9269-1-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.60	.45	.34
CD74HCT374M96	296-9269-2-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC		400.00/2,000	
CD74HCT377M	296-9427-5-ND	Octal D-Type Flip-Flop w/Clock Enable	20-SOIC	.52	.39	.30
CD74HCT390M	296-9270-5-ND	Dual Decade Ripple Counter	16-SOIC	.52	.39	.30
CD74HCT393E	296-2116-5-ND	Dual 4-Stage Binary Counter	14-Dip	.52	.39	.30
CD74HCT393M	296-9271-5-ND	Dual 4-Stage Binary Counter	14-SOIC	.52	.39	.30
CD74HCT393M96	296-14556-1-ND	Dual 4-Stage Binary Counter	14-SOIC	.52	.39	.30
CD74HCT393M96	296-14556-2-ND	Dual 4-Stage Binary Counter	14-SOIC		422.50/2,500	
CD74HCT540E	296-2126-5-ND	Tri-St. Inverting Octal Buffer Line Driver	20-Dip	.60	.45	.34
CD74HCT541E	296-2127-5-ND	Tri-State Octal Buffer Line Driver	20-Dip	.60	.45	.34
CD74HCT541M	296-9288-5-ND	Tri-State Non-Inverting Octal Buffer Line Driver	20-SOIC	.60	.45	.34
CD74HCT541M96	296-9288-1-ND	Tri-State Non-Inverting Octal Buffer Line Driver	20-SOIC	.60	.45	.34
CD74HCT541M96	296-9288-2-ND	Tri-State Non-Inverting Octal Buffer Line Driver	20-SOIC		400.00/2,000	
CD74HCT563M	296-9289-5-ND	Tri-St. Octal Transparent Inverting Latch	20-SOIC	.60	.45	.34
CD74HCT564M	296-9290-5-ND	Tri-St. Inverting Octal D-Type Flip-Flop	20-SOIC	1.35	1.13	.90
CD74HCT573E	296-2128-5-ND	Tri-St. Octal Transparent Latch	20-Dip	.66	.50	.38
CD74HCT573DBR	296-17125-1-ND	Tri-St. Octal Transparent Latch	20-SSOP	.60	.45	.34
CD74HCT573DBR	296-17125-2-ND	Tri-St. Octal Transparent Latch	20-SSOP		400.00/2,000	
CD74HCT573M96	296-9291-1-ND	Tri-St. Octal Transparent Latch	20-SOIC	.60	.45	.34
CD74HCT573M96	296-9291-2-ND	Tri-St. Octal Transparent Latch	20-SOIC		400.00/2,000	
CD74HCT574E	296-2129-5-ND	Tri-St. Octal D-Type Flip-Flop	20-Dip	.66	.50	.38
CD74HCT574M96	296-9292-1-ND	Tri-St. Octal D-Type Flip-Flop	20-SOIC	.60	.45	.34
CD74HCT574M96	296-9292-2-ND	Tri-St. Octal D-Type Flip-Flop	20-SOIC		400.00/2,000	
CD74HCT574PWR	296-17126-1-ND	Tri-St. Octal D-Type Flip-Flop	20-TSSOP	.66	.50	.38
CD74HCT574PWR	296-17126-2-ND	Tri-St. Octal D-Type Flip-Flop	20-TSSOP		438.00/2,000	
CD74HCT597E	296-2130-5-ND	8-Bit Shift Register with Input Storage	16-Dip	.96	.79	.58
CD74HCT597M96	296-12844-1-ND	8-Bit Shift Register with Input Storage	16-SOIC	1.05	.88	.70
CD74HCT597M96	296-12844-2-ND	8-Bit Shift Register with Input Storage	16-SOIC		1137.50/2,500	
CD74HCT646M96	296-9293-1-ND	Tri-State Octal D-Type Flip-Flop	24-SOIC	1.11	.93	.74
CD74HCT646M96	296-9293-2-ND	Tri-State Octal D-Type Flip-Flop	24-SOIC		984.00/2,000	
CD74HCT670M	296-9294-5-ND	4-by-4 Register File	16-SOIC	4.73	3.78	2.94
CD74HCT688E	296-2131-5-ND	8-Bit Magnitude Comparator	20-Dip	.88	.66	.50
CD74HCT688M	296-9295-5-ND	8-Bit Magnitude Comparator	20-SOIC	.80	.60	.45
CD74HCT4020M	296-9273-5-ND	14-Stage Binary Counter	16-SOIC	.48	.36	.27
CD74HCT4024M	296-9274-5-ND	7-Stage Binary Ripple Counter	14-SOIC	.48	.36	.27
CD74HCT4040E	296-2118-5-ND	12-Bit Binary Counter	16-Dip	.70	.53	.40
CD74HCT4040M96	296-14558-1-ND	12-Stage Binary Counter	16-SOIC	.64	.48	.36
CD74HCT4040M96	296-14558-2-ND	12-Stage Binary Counter	16-SOIC		520.00/2,500	
CD74HCT4046AM	296-9275-5-ND	Phase-Locked-Loop with VCO	16-SOIC	.50	.40	.30
CD74HCT4046AM96	296-14559-1-ND	Phase-Locked-Loop with VCO	16-SOIC	.50	.40	.30
CD74HCT4046AM96	296-14559-2-ND	Phase-Locked-Loop with VCO	16-SOIC		337.50/2,500	
CD74HCT4051E	296-2119-5-ND	8-Channel Analog Mux/Demux	16-Dip	.52	.39	.30
CD74HCT4051M	296-9276-5-ND	8-Channel Analog Mux/Demux	16-SOIC	.50	.40	.30
CD74HCT4051M96	296-14560-1-ND	8-Channel Analog Mux/Demux	16-SOIC	.50	.40	.30
CD74HCT4051M96	296-14560-2-ND	8-Channel Analog Mux/Demux	16-SOIC		337.50/2,500	
CD74HCT4051QM96Q1	296-17264-1-ND	8-Channel Analog Mux/Demux	16-SOIC	.59	.48	.36
CD74HCT4051QM96Q1	296-17264-2-ND	8-Channel Analog Mux/Demux	16-SOIC		397.50/2,500	
CD74HCT4052E	296-2120-5-ND	Dual 4-Channel Analog Mux/Demux	16-Dip	.48	.36	.27
CD74HCT4052M96	296-9277-1-ND	Dual 4-Channel Analog Mux/Demux	16-SOIC	.48	.36	.27
CD74HCT4052M96	296-9277-2-ND	Dual 4-Channel Analog Mux/Demux	16-SOIC		390.00/2,500	
CD74HCT4053E	296-2121-5-ND	Triple 2-Channel Analog Mux/Demux	16-Dip	.50	.40	.30
CD74HCT4053M	296-9278-5-ND	Triple 2-Channel Analog Mux/Demux	16-SOIC	.50	.40	.30
CD74HCT4053PWR	296-9279-1-ND	Triple 2-Channel Analog Mux/Demux	16-TSSOP	.50	.40	.30
CD74HCT4053PWR	296-9279-2-ND	Triple 2-Channel Analog Mux/Demux	16-TSSOP		280.00/2,000	
CD74HCT4060M	296-9280-5-ND	14-Stage Binary Counter with Oscillator	16-SOIC	.48	.36	.27
CD74HCT4066M96	296-9281-1-ND	Quad Bilateral Switch	14-SOIC	.45	.36	.27
CD74HCT4066M96	296-9281-2-ND	Quad Bilateral Switch	14-SOIC		305.00/2,500	
CD74HCT4066E	296-2122-5-ND	Quad Bilateral Switch	14-Dip	.55	.44	.33
CD74HCT4094E	296-2123-5-ND	Tri-State, 8-Stage Shift-and-Store Bus Register	16-Dip	.50	.40	.30
CD74HCT4094M	296-14291-5-ND	Tri-State, 8-Stage Shift-and-Store Bus Register	16-SOIC	.50	.40	.30
CD74HCT4316E	296-2124-5-ND	Quad Analog Switch	16-Dip	.56	.42	.32
CD74HCT4511E	296-9282-5-ND	BCD-to-7 Segment Latch/Decoder/Driver	16-Dip	.76	.57	.43
CD74HCT4514E	296-9283-5-ND	4-to-16 Line Decoder/Demux with Input Latch	24-Dip	2.25	1.88	1.13
CD74HCT4520E	296-9284-5-ND	Dual Binary Up-Counter	16-Dip	.50	.40	.30
CD74HCT4520M	296-9285-5-ND	Dual Binary Up-Counter	16-SOIC	.50	.40	.30
CD74HCT4538E	296-2125-5-ND	Dual Precision Monostable Multivibrator	16-Dip	.72	.54	.41
CD74HCT4538M	296-9286-5-ND	Dual Retrig. Precision Monostable Multivibrator	16-SOIC	.72	.54	.41
CD74HCT7046AM	296-9296-5-ND	PLL with VCO and Lock Detector	16-SOIC	1.85	1.48	1.11
CD74HCT40103M	296-9272-5-ND	8-Stage Sync. Down Counter	16-SOIC	.75	.63	.50
CD74HCT40105E	296-2117-5-ND	4 Bits x 16 Words FIFO Register	16-Dip	.78	.65	.52
SN74HCT00D	296-8377-5-ND	Quad 2-Input NAND Gate	14-SOIC	.46	.37	.26
SN74HCT00DR	296-14860-1-ND	Quad 2-Input NAND Gate	14-SOIC	.46	.37	.26
SN74HCT00DR	296-14860-2-ND	Quad 2-Input NAND Gate	14-SOIC		297.50/2,500	
SN74HCT00N	296-1603-5-ND	Quad 2-Input NAND Gate	14-Dip	.53	.42	.32
SN74HCT00PWR	296-8378-1-ND	Quad 2-Input NAND Gate	14-TSSOP	.46	.37	.26
SN74HCT00PWR	296-8378-2-ND	Quad 2-Input NAND Gate	14-TSSOP		252.00/2,000	
SN74HCT02D	296-8379-5-ND	Quad 2-Input NOR Gate	14-SOIC	.46	.37	.26
SN74HCT02DR	296-14861-1-ND	Quad 2-Input NOR Gate	14-SOIC	.46	.37	.26
SN74HCT02DR	296-14861-2-ND	Quad 2-Input NOR Gate	14-SOIC		297.50/2,500	
SN74HCT02N	296-8380-5-ND	Quad 2-Input NOR Gate	14-Dip	.53	.42	.32
SN74HCT04D	296-1205-5-ND	Hex Inverter	14-SOIC	.46	.37	.26
SN74HCT04DR	296-1205-1-ND	Hex Inverter	14-SOIC	.46	.37	.26
SN74HCT04DR	296-1205-2-ND	Hex Inverter	14-SOIC		297.50/2,500	
SN74HCT04N	296-1605-5-ND	Hex Inverter	14-Dip	.53	.42	.32
SN74HCT04PWR	296-8382-1-ND	Hex Inverter	14-TSSOP	.46	.37	.26
SN74HCT04PWR	296-8382-2-ND	Hex Inverter	14-TSSOP		252.00/2,000	
SN74HCT08D	296-8383-5-ND	Quad 2-Input AND Gate	14-SOIC	.46	.37	.26
SN74HCT08DBR	296-8384-1-ND	Quad 2-Input AND Gate	14-SSOP	.46	.37	.26
SN74HCT08DBR	296-8384-2-ND	Quad 2-Input AND Gate	14-SSOP		252.00/2,000	
SN74HCT08DR	296-14862-1-ND	Quad 2-Input AND Gate	14-SOIC	.46	.37	.26
SN74HCT08DR	296-14862-2-ND	Quad 2-Input AND Gate	14-SOIC		297.50/2,500	
SN74HCT08N	296-1606-5-ND	Quad 2-Input AND Gate	14-Dip	.53	.42	.32
SN74HCT08PWR	296-8385-1-ND	Quad 2-Input AND Gate	14-TSSOP	.46	.37	.26
SN74HCT08PWR	296-8385-2-ND	Quad 2-Input AND Gate	14-TSSOP		252.00/2,000	
SN74HCT14D	296-8391-5-ND	Hex Schmitt-Trigger Inverter	14-SOIC	.46	.37	.26
SN74HCT14DBR	296-8392-1-ND	Hex Schmitt-Trigger Inverter	14-SSOP	.46	.37	.26
SN74HCT14DBR	296-8392-2-ND	Hex Schmitt-Trigger Inverter	14-SSOP		252.00/2,000	
SN74HCT14DGVR	296-8393-1-ND	Hex Schmitt-Trigger Inverter	14-TVSOP	.40	.32	.24
SN74HCT14DGVR	296-8393-2-ND	Hex Schmitt-Trigger Inverter	14-TVSOP		224.00/2,000	

(Continued)

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74HCT14DR	296-14864-1-ND	Hex Schmitt-Trigger Inverter	14-SOIC	.46	.37	.26
SN74HCT14DR	296-14864-2-ND	Hex Schmitt-Trigger Inverter	14-SOIC		297.50/2,500	
SN74HCT14N	296-8394-5-ND	Hex Schmitt-Trigger Inverter	14-Dip	.53	.42	.32
SN74HCT14PWR	296-8395-1-ND	Hex Schmitt-Trigger Inverter	14-TSSOP	.46	.37	.26
SN74HCT14PWR	296-8395-2-ND	Hex Schmitt-Trigger Inverter	14-TSSOP		252.00/2,000	
SN74HCT32D	296-1614-5-ND	Quad 2-Input OR Gate	14-SOIC	.46	.37	.26
SN74HCT32DBR	296-8410-1-ND	Quad 2-Input OR Gate	14-SSOP	.46	.37	.26
SN74HCT32DBR	296-8410-2-ND	Quad 2-Input OR Gate	14-SSOP		252.00/2,000	
SN74HCT32DR	296-14868-1-ND	Quad 2-Input OR Gate	14-SOIC	.46	.37	.26
SN74HCT32DR	296-14868-2-ND	Quad 2-Input OR Gate	14-SOIC		297.50/2,500	
SN74HCT32N	296-1615-5-ND	Quad 2-Input OR Gate	14-Dip	.53	.42	.32
SN74HCT32PWR	296-8411-1-ND	Quad 2-Input OR Gate	14-TSSOP	.46	.37	.26
SN74HCT32PWR	296-8411-2-ND	Quad 2-Input OR Gate	14-TSSOP		252.00/2,000	
SN74HCT74D	296-1211-5-ND	Dual D-Type Flip-Flop w/Clear & Preset	14-SOIC	.46	.37	.26
SN74HCT74D	296-1211-2-ND	Dual D-Type Flip-Flop w/Clear & Preset	14-SOIC		297.50/2,500	
SN74HCT74DR	296-1211-1-ND	Dual D-Type Flip-Flop	14-SOIC	.46	.37	.26
SN74HCT74N	296-1625-5-ND	Dual D-Type Flip-Flop	14-Dip	.53	.42	.32
SN74HCT74PWR	296-8429-1-ND	Dual D-Type Flip-Flop with Clear and Preset	14-TSSOP	.46	.37	.26
SN74HCT74PWR	296-8429-2-ND	Dual D-Type Flip-Flop with Clear and Preset	14-TSSOP		252.00/2,000	
SN74HCT125D	296-1206-5-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	.55	.44	.33
SN74HCT125DR	296-1206-1-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	.55	.44	.33
SN74HCT125DR	296-1206-2-ND	Tri-State Quad Bus Buffer Gate	14-SOIC		372.50/2,500	
SN74HCT125N	296-8386-5-ND	Tri-State Quad Bus Buffer Gate	14-Dip	.53	.40	.30
SN74HCT138D	296-8387-5-ND	3-8 Line Decoder/Demultiplexer	14-SOIC	.55	.44	.33
SN74HCT138DR	296-14863-1-ND	3-8 Line Decoder/Demultiplexer	16-SOIC	.55	.44	.33
SN74HCT138DR	296-14863-2-ND	3-8 Line Decoder/Demultiplexer	16-SOIC		372.50/2,500	
SN74HCT138N	296-1608-5-ND	3-8 Line Decoder/Demultiplexer	16-Dip	.53	.40	.30
SN74HCT138PWR	296-8388-1-ND	3-8 Line Decoder/Demultiplexer	14-TSSOP	.55	.44	.33
SN74HCT138PWR	296-8388-2-ND	3-8 Line Decoder/Demultiplexer	14-TSSOP		308.00/2,000	
SN74HCT139D	296-8389-5-ND	Dual 2-to-4 Line Decoder/Demux	16-SOIC	.55	.44	.33
SN74HCT139N	296-8390-5-ND	Dual 2-to-4 Line Decoder/Demux	16-Dip	.53	.40	.30
SN74HCT139PWR	296-11999-1-ND	Dual 2-to-4 Line Decoder/Demux	16-TSSOP	.55	.44	.33
SN74HCT139PWR	296-11999-2-ND	Dual 2-to-4 Line Decoder/Demux	16-TSSOP		308.00/2,000	
SN74HCT157D	296-8396-5-ND	Quad 2-to-1 Line Data Selector/Mux	16-SOIC	.56	.42	.32
SN74HCT157N	296-8397-5-ND	Quad 2-to-1 Line Data Selector/Mux	16-Dip	.48	.36	.27
SN74HCT240DW	296-8398-5-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.60	.45	.34
SN74HCT240DWR	296-14865-1-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.60	.45	.34
SN74HCT240DWR	296-14865-2-ND	Tri-State Octal Buffer/Line Driver	20-SOIC		400.00/2,000	
SN74HCT240N	296-8399-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	.66	.50	.38
SN74HCT240NSR	296-12899-1-ND	Tri-State Octal Buffer/Line Driver	20-SOP	.60	.45	.34
SN74HCT240NSR	296-12899-2-ND	Tri-State Octal Buffer/Line Driver	20-SOP		400.00/2,000	
SN74HCT240PWR	296-13631-1-ND	Tri-State Octal Buffer/Line Driver	20-TSSOP	.60	.45	.34
SN74HCT240PWR	296-13631-2-ND	Tri-State Octal Buffer/Line Driver	20-TSSOP		400.00/2,000	
SN74HCT244DBR	296-8400-1-ND	Tri-State Octal Buffer/Line Driver	20-SSOP	.60	.45	.34
SN74HCT244DBR	296-8400-2-ND	Tri-State Octal Buffer/Line Driver	20-SSOP		400.00/2,000	
SN74HCT244DW	296-1207-5-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.60	.45	.34
SN74HCT244DWR	296-1207-1-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.60	.45	.34
SN74HCT244DWR	296-1207-2-ND	Tri-State Octal Buffer/Line Driver	20-SOIC		400.00/2,000	
SN74HCT244N	296-1610-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	.66	.50	.38
SN74HCT244NSR	296-8401-1-ND	Tri-State Octal Buffer/Line Driver	20-SOP	.60	.45	.34
SN74HCT244NSR	296-8401-2-ND	Tri-State Octal Buffer/Line Driver	20-SOP		400.00/2,000	
SN74HCT244PWR	296-8402-1-ND	Tri-State Octal Buffer/Line Driver	20-TSSOP	.60	.45	.34
SN74HCT244PWR	296-8402-2-ND	Tri-State Octal Buffer/Line Driver	20-TSSOP		400.00/2,000	
SN74HCT245DBR	296-8403-1-ND	Tri-State Octal Bus Transceiver	20-SSOP	.60	.45	.34
SN74HCT245DBR	296-8403-2-ND	Tri-State Octal Bus Transceiver	20-SSOP		400.00/2,000	
SN74HCT245DW	296-1208-5-ND	Tri-State Octal Bus Transceiver	20-SOIC	.60	.45	.34
SN74HCT245DWR	296-1208-1-ND	Tri-State Octal Bus Transceiver	20-SOIC	.60	.45	.34
SN74HCT245DWR	296-1208-2-ND	Tri-State Octal Bus Transceiver	20-SOIC		400.00/2,000	
SN74HCT245N	296-1612-5-ND	Tri-State Octal Bus Transceiver	20-Dip	.66	.50	.38
SN74HCT245PWR	296-8404-1-ND	Tri-State Octal Bus Transceiver	20-TSSOP	.60	.45	.34
SN74HCT245PWR	296-8404-2-ND	Tri-State Octal Bus Transceiver	20-TSSOP		400.00/2,000	
SN74HCT257DR	296-14866-1-ND	Tri-St. Quad 2-1 Line Data Selector/Mux	16-SOIC	.56	.42	.32
SN74HCT257DR	296-14866-2-ND	Tri-St. Quad 2-1 Line Data Selector/Mux	16-SOIC		455.00/2,500	
SN74HCT257N	296-8406-5-ND	Tri-St. Quad 2-1 Line Data Selector/Mux	16-Dip	.62	.47	.35
SN74HCT273DBR	296-8407-1-ND	Octal D-Type Flip-Flop with Clear	20-SSOP	.56	.42	.32
SN74HCT273DBR	296-8407-2-ND	Octal D-Type Flip-Flop with Clear	20-SSOP		372.00/2,000	
SN74HCT273DW	296-8408-5-ND	Octal D-Type Flip-Flop with Clear	20-SOIC	.56	.42	.32
SN74HCT273DWR	296-14867-1-ND	Octal D-Type Flip-Flop with Clear	20-SOIC	.56	.42	.32
SN74HCT273DWR	296-14867-2-ND	Octal D-Type Flip-Flop with Clear	20-SOIC		372.00/2,000	
SN74HCT273N	296-1613-5-ND	Octal D-Type Flip-Flop with Clear	20-Dip	.62	.47	.35
SN74HCT273PWR	296-8409-1-ND	Octal D-Type Flip-Flop with Clear	20-TSSOP	.56	.42	.32
SN74HCT273PWR	296-8409-2-ND	Octal D-Type Flip-Flop with Clear	20-TSSOP		372.00/2,000	
SN74HCT373DW	296-8412-5-ND	Tri-St. Octal Transparent D-Type Latch	20-SOIC	.60	.45	.34
SN74HCT373DWR	296-8412-1-ND	Tri-St. Octal Transparent D-Type Latch	20-SOIC	.60	.45	.34
SN74HCT373DWR	296-8412-2-ND	Tri-St. Octal Transparent D-Type Latch	20-SOIC		400.00/2,000	
SN74HCT373N	296-1616-5-ND	Tri-St. Octal Transparent D-Type Latch	20-Dip	.66	.50	.38
SN74HCT373NSR	296-8413-1-ND	Tri-St. Octal Transparent D-Type Latch	20-SOP	.60	.45	.34
SN74HCT373NSR	296-8413-2-ND	Tri-St. Octal Transparent D-Type Latch	20-SOP		400.00/2,000	
SN74HCT373PWR	296-8414-1-ND	Tri-St. Octal Transp. D-Type Latch	20-TSSOP	.60	.45	.34
SN74HCT373PWR	296-8414-2-ND	Tri-St. Octal Transp. D-Type Latch	20-TSSOP		400.00/2,000	
SN74HCT374DBR	296-8415-1-ND	Tri-St. Octal Transp. D-Type Flip-Flop	20-SSOP	.60	.45	.34
SN74HCT374DBR	296-8415-2-ND	Tri-St. Octal Transp. D-Type Flip-Flop	20-SSOP		400.00/2,000	
SN74HCT374DW	296-1209-5-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.60	.45	.34
SN74HCT374DWR	296-1209-1-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.60	.45	.34
SN74HCT374DWR	296-1209-2-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC		400.00/2,000	
SN74HCT374N	296-1617-5-ND	Tri-State Octal D-Type Flip-Flop	20-Dip	.66	.50	.38
SN74HCT377DW	296-8416-5-ND	Octal D-Type Flip-Flop with Clock Enable	20-SOIC	.56	.42	.32
SN74HCT377N	296-8417-5-ND	Octal D-Type Flip-Flop with Clock Enable	20-Dip	.62	.47	.35
SN74HCT540DW	296-8418-5-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.56	.42	.32
SN74HCT540DWR	296-14869-1-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.56	.42	.32
SN74HCT540DWR	296-14869-2-ND	Tri-State Octal Buffer/Line Driver	20-SOIC		372.00/2,000	
SN74HCT540N	296-8419-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	.56	.42	.32
SN74HCT541DW	296-1618-5-ND	Octal Buffer/Line Driver	20-SOIC	.56	.42	.32
SN74HCT541DWR	296-14870-1-ND	Octal Buffer/Line Driver	20-SOIC	.56	.42	.32
SN74HCT541DWR	296-14870-2-ND	Octal Buffer/Line Driver	20-SOIC		372.00/2,000	
SN74HCT541N	296-1619-5-ND	Octal Buffer/Line Driver	20-Dip	.62	.47	.35
SN74HCT573DBR	296-8420-1-ND	Tri-St. Octal D-Type Transparent Latch	20-SSOP	.60	.45	.34
SN74HCT573DBR	296-8420-2-ND	Tri-St. Octal D-Type Transparent Latch	20-SSOP		400.00/2,000	
SN74HCT573DW	296-1210-5-ND	Tri-St. Octal D-Type Transparent Latch	20-SOIC	.60	.45	.34
SN74HCT573DWR	296-1210-1-ND	Tri-St. Octal D-Type Transparent Latch	20-SOIC	.60	.45	.34
SN74HCT573DWR	296-1210-2-ND	Tri-St. Octal D-Type Transparent Latch	20-SOIC		400.00/2,000	
SN74HCT573N	296-1621-5-ND	Tri-St. Octal D-Type Transparent Latch	20-Dip	.66	.50	.38
SN74HCT574DW	296-1622-5-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.60	.45	.34
SN74HCT574DWR	296-14871-1-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.60	.45	.34

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74HCT574DWR	296-14871-2-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC		400.00/2,000	
SN74HCT574N	296-1623-5-ND	Tri-State Octal D-Type Flip-Flop	20-Dip	.66	.50	
SN74HCT574PWR	296-8421-1-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	.60	.45	
SN74HCT574PWR	296-8421-2-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP		400.00/2,000	
SN74HCT623DW	296-8422-5-ND	Tri-State Octal Bus Transceiver	20-SOIC	5.27	4.22	3.
SN74HCT645DW	296-8423-5-ND	Tri-State Octal Bus Transceiver	20-SOIC	1.05	.88	
SN74HCT645N	296-8424-5-ND	Tri-State Octal Bus Transceiver	20-Dip	1.05	.88	
SN74HCT646DW	296-8425-5-ND	Tri-State Octal Bus Transceiver/Register	24-SOIC	1.11	.93	
SN74HCT646NT	296-8426-5-ND	Tri-State Octal Bus Transceiver/Register	24-Dip	1.11	.93	
SN74HCT652DW	296-1624-5-ND	Tri-State Octal Bus Transceiver/Register	24-SOIC	1.50	1.20	
SN74HCT652DWR	296-1624-1-ND	Tri-State Octal Bus Transceiver/Register	24-SOIC	1.50	1.20	
SN74HCT652DWR	296-1624-2-ND	Tri-State Octal Bus Transceiver/Register	24-SOIC		1560.00/2,000	
SN74HCT652NT	296-8427-5-ND	Tri-State Octal Bus Transceiver/Register	24-Dip	1.65	1.32	
HCU Family						
CD74HCU04M	296-9432-5-ND	Hex Inverter/Buffer	14-SOIC	.44	.36	
SN74HCU04D	296-9819-5-ND	Hex Inverter	14-SOIC	.46	.37	
SN74HCU04DR	296-14872-1-ND	Hex Inverter	14-SOIC	.46	.37	
SN74HCU04DR	296-14872-2-ND	Hex Inverter	14-SOIC		297.50/2,5	
SN74HCU04N	296-9820-5-ND	Hex Inverter	14-Dip	.53	.42	
SN74HCU04PWR	296-9821-1-ND	Hex Inverter	14-TSSOP	.46	.37	
SN74HCU04PWR	296-9821-2-ND	Hex Inverter	14-TSSOP		252.00/2,0	
HSTL Family						
SN74HSTL16918DGGR	296-9823-1-ND	9-to-18 Bit HSTL-to-LVTTL Memory Address Latch	48-TSSOP	7.50	6.00	5.
SN74HSTL16918DGGR	296-9823-2-ND	9-to-18 Bit HSTL-to-LVTTL Memory Address Latch	48-TSSOP		9376.00/2,0	
SN74HSTL16919DGGR	296-13219-1-ND	9-to-18 Bit HSTL-to-LVTTL Memory Address Latch with Input Pullup Resistors	48-TSSOP	7.50	6.00	5.
SN74HSTL16919DGGR	296-13219-2-ND	9-to-18 Bit HSTL-to-LVTTL Memory Address Latch with Input Pullup Resistors	48-TSSOP		9376.00/2,0	
SN74HSTL162822DGGR	296-9822-1-ND	14-to-28 Bit HSTL-to-LVTTL Memory Address Latch	64-TSSOP	8.00	6.40	5.
SN74HSTL162822DGGR	296-9822-2-ND	14-to-28 Bit HSTL-to-LVTTL Memory Address Latch	64-TSSOP		10000.00/2,0	
LS Family						
SN74LS00DR	296-14873-1-ND	Quad 2-Input Positive NAND Gate	14-SOIC	.50	.40	
SN74LS00DR	296-14873-2-ND	Quad 2-Input Positive NAND Gate	14-SOIC		372.50/2,5	
SN74LS00N	296-1626-5-ND	Quad 2-Input Positive NAND Gate	14-Dip	.55	.44	
SN74LS00NSR	296-3616-2-ND	Quad 2-Input Positive NAND Gate	14-SOP		308.00/2,0	
SN74LS00PSR	296-13220-1-ND	Quad 2-Input Positive NAND Gate	8-SOP	.50	.40	
SN74LS00PSR	296-13220-2-ND	Quad 2-Input Positive NAND Gate	8-SOP		308.00/2,0	
SN74LS02DR	296-14874-1-ND	Quad 2-Input Positive NOR Gate	14-SOIC	.50	.40	
SN74LS02DR	296-14874-2-ND	Quad 2-Input Positive NOR Gate	14-SOIC		372.50/2,5	
SN74LS02N	296-1627-5-ND	Quad 2-Input NOR Gate	14-Dip	.55	.44	
SN74LS02NSR	296-3618-2-ND	Quad 2-Input NOR Gate	14-SOP		308.00/2,0	
SN74LS03N	296-3620-5-ND	Quad 2-Input NAND Gate with OC Output	14-Dip	.55	.44	
SN74LS04D	296-1628-5-ND	Hex Inverter	14-SOIC	.55	.44	
SN74LS04DR	296-14875-1-ND	Hex Inverter	14-SOIC	.50	.40	
SN74LS04DR	296-14875-2-ND	Hex Inverter	14-SOIC		372.50/2,5	
SN74LS04N	296-1629-5-ND	Hex Inverter	14-Dip	.55	.44	
SN74LS05D	296-1630-5-ND	Hex Inverter with OC Output	14-SOIC	.55	.44	
SN74LS05N	296-1631-5-ND	Hex Inverter with OC Output	14-Dip	.55	.44	
SN74LS06DR	296-14876-1-ND	Hex Inverter Buffer/Driver with OC High-Volt. Output	14-SOIC	.78	.65	
SN74LS06DR	296-14876-2-ND	Hex Inverter Buffer/Driver with OC High-Volt. Output	14-SOIC		877.50/2,5	
SN74LS06N	296-15069-5-ND	Hex Inverter Buffer/Driver with OC High-Volt. Output	14-Dip	.81	.68	
SN74LS07D	296-3626-5-ND	Hex Buffer/Driver with HV Output	14-SOP	.81	.68	
SN74LS07DBR	296-3627-1-ND	Hex Buffer/Driver with HV Output	14-SSOP	.78	.65	
SN74LS07DBR	296-3627-2-ND	Hex Buffer/Driver with HV Output	14-SSOP		718.00/2,0	
SN74LS07DR	296-14877-1-ND	Hex Buffer/Driver with HV Output	14-SOIC	.78	.65	
SN74LS07DR	296-14877-2-ND	Hex Buffer/Driver with HV Output	14-SOIC		877.50/2,5	
SN74LS07N	296-14878-5-ND	Hex Buffer/Driver with HV Output	14-Dip	.81	.68	
SN74LS07NSR	296-3628-2-ND	Hex Buffer/Driver with HV Output	14-SOP		718.00/2,0	
SN74LS08D	296-1632-5-ND	Quad 2-Input AND Gate	14-SOIC	.55	.44	
SN74LS08DR	296-14879-1-ND	Quad 2-Input AND Gate	14-SOIC	.50	.40	
SN74LS08DR	296-14879-2-ND	Quad 2-Input AND Gate	14-SOIC		372.50/2,5	
SN74LS08N	296-1633-5-ND	Quad 2-Input AND Gate	14-Dip	.55	.44	
SN74LS09DR	296-14880-1-ND	Quad 2-Input AND Gate with OC Output	14-SOIC	.50	.40	
SN74LS09DR	296-14880-2-ND	Quad 2-Input AND Gate with OC Output	14-SOIC		372.50/2,5	
SN74LS10N	296-1634-5-ND	Triple 3-Input NAND Gate	14-Dip	.55	.44	
SN74LS14D	296-1212-5-ND	Hex Schmitt-Trigger Inverter	14-SOIC	.48	.38	
SN74LS14DR	296-1212-1-ND	Hex Schmitt-Trigger Inverter	14-SOIC	.45	.36	
SN74LS14DR	296-1212-2-ND	Hex Schmitt-Trigger Inverter	14-SOIC		320.00/2,5	
SN74LS14N	296-1643-5-ND	Hex Schmitt-Trigger Inverter	14-Dip	.48	.38	
SN74LS20N	296-3670-5-ND	Dual 4-Input NAND Gate	14-Dip	.53	.42	
SN74LS21N	296-3672-5-ND	Dual 4-Input AND Gate	14-Dip	.53	.42	
SN74LS27N	296-14890-5-ND	Triple 3-Input NOR Gate	14-Dip	.53	.42	
SN74LS30N	296-3693-5-ND	8-Input NAND Gate	14-Dip	.53	.42	
SN74LS32DR	296-14891-1-ND	Quad 2-Input OR Gate	14-SOIC	.50	.40	
SN74LS32DR	296-14891-2-ND	Quad 2-Input OR Gate	14-SOIC		355.00/2,5	
SN74LS32N	296-1658-5-ND	Quad 2-Input OR Gate	14-Dip	.53	.42	
SN74LS33DR	296-14892-1-ND	Quad 2-Input NOR Buffer w/OC Output	14-SOIC	1.02	.85	
SN74LS33DR	296-14892-2-ND	Quad 2-Input NOR Buffer w/OC Output	14-SOIC		1137.50/2,5	
SN74LS38N	296-1664-5-ND	Quad 2-Input NAND Buffer	14-Dip	.56	.42	
SN74LS47N	296-3712-5-ND	BCD to 7-Segment Decoder/Driver	16-Dip	1.26	1.05	
SN74LS47NSR	296-13223-1-ND	BCD to 7-Segment Decoder/Driver	16-SOP	1.20	1.00	
SN74LS47NSR	296-13223-2-ND	BCD to 7-Segment Decoder/Driver	16-SOP		1118.00/2,0	
SN74LS74ADR	296-14899-1-ND	Dual D-Type Flip-Flop	14-SOIC	.50	.40	
SN74LS74ADR	296-14899-2-ND	Dual D-Type Flip-Flop	14-SOIC		355.00/2,5	
SN74LS74AN	296-1668-5-ND	Dual D-Type Flip-Flop	14-Dip	.53	.42	
SN74LS85N	296-14900-5-ND	4-Bit Magnitude Comparator	16-Dip	.80	.60	
SN74LS86ADR	296-14901-1-ND	Quad 2-Input Exclusive-OR Gate	14-SOIC	.53	.42	
SN74LS86ADR	296-14901-2-ND	Quad 2-Input Exclusive-OR Gate	14-SOIC		355.00/2,5	
SN74LS86AN	296-1669-5-ND	Quad 2-Input Exclusive-OR Gate	14-Dip	.53	.42	
SN74LS92D	296-3747-5-ND	Divide-by-Twelve Counter	14-SOIC	1.38	1.10	
SN74LS92NSR	296-13225-1-ND	Divide-by-Twelve Counter	14-SOP	1.33	1.06	
SN74LS92NSR	296-13225-2-ND	Divide-by-Twelve Counter	14-SOP		1430.00/2,0	
SN74LS93N	296-3750-5-ND	4-Bit Binary Counter	14-Dip	1.38	1.10	
SN74LS122N	296-3639-5-ND	Retriggerable Monostable Multivibrator	14-Dip	60	.45	

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74LS122NSR	296-13221-1-ND	Retriggerable Monostable Multivibrator	14-SOP	.56	.42	.32
SN74LS122NSR	296-13221-2-ND	Retriggerable Monostable Multivibrator	14-SOP		400.00/2,000	
SN74LS123D	296-1635-5-ND	Dual Monostable Multivibrator	16-SOIC	.60	.45	.34
SN74LS123DR	296-14881-1-ND	Dual Monostable Multivibrator	16-SOIC	.56	.42	.32
SN74LS123DR	296-14881-2-ND	Dual Monostable Multivibrator	16-SOIC		487.50/2,500	
SN74LS123N	296-1636-5-ND	Dual Monostable Multivibrator	14-Dip	.60	.45	.34
SN74LS125AD	296-1637-5-ND	Tri-State Quad Bus Buffer	14-SOIC	.60	.45	.34
SN74LS125AN	296-1638-5-ND	Tri-State Quad Bus Buffer	14-Dip	.60	.45	.34
SN74LS126ADR	296-14882-1-ND	Tri-State Quad Bus Buffer	14-SOIC	.56	.42	.32
SN74LS126ADR	296-14882-2-ND	Tri-State Quad Bus Buffer	14-SOIC		487.50/2,500	
SN74LS138DR	296-14883-1-ND	3-8 Line Decoder/Demux	16-SOIC	.56	.42	.32
SN74LS138DR	296-14883-2-ND	3-8 Line Decoder/Demux	16-SOIC		487.50/2,500	
SN74LS138N	296-1639-5-ND	3-8 Line Decoder/Demux	16-Dip	.60	.45	.34
SN74LS139AN	296-1640-5-ND	Dual 2-4 Line Decoder	16-Dip	.60	.45	.34
SN74LS145N	296-1641-5-ND	BCD-To-Decimal Decoder/Driver	16-Dip	.88	.66	.50
SN74LS148N	296-3651-5-ND	8-3 Line Priority Encoder	16-Dip	.99	.83	.66
SN74LS151N	296-1644-5-ND	8-1 Data Selector/Multiplexer	16-Dip	.60	.45	.34
SN74LS157DR	296-14884-1-ND	Quad 2-1 Data Selector/Mux	16-SOIC	.56	.42	.32
SN74LS157DR	296-14884-2-ND	Quad 2-1 Data Selector/Mux	16-SOIC		487.50/2,500	
SN74LS157N	296-1645-5-ND	Quad 2-1 Data Selector/Mux	16-Dip	.60	.45	.34
SN74LS157NSR	296-3659-2-ND	Quad 2-1 Data Selector/Mux	16-SOP		400.00/2,000	
SN74LS161AN	296-1646-5-ND	4-Bit Synchronous Binary Counter	16-Dip	.60	.45	.34
SN74LS161ANSR	296-3660-2-ND	4-Bit Synchronous Binary Counter	16-SOP		400.00/2,000	
SN74LS164N	296-1647-5-ND	8-Bit Shift Register	14-Dip	.60	.45	.34
SN74LS165AN	296-14885-5-ND	Parallel Load 8-Bit Shift Register	16-Dip	.55	.44	.33
SN74LS175N	296-1648-5-ND	Quad D-Type Flip-Flop	16-Dip	.52	.39	.30
SN74LS191N	296-14886-5-ND	Sync. Up/Down Counter with Down/Up Mode Control	16-Dip	.92	.69	.52
SN74LS193N	296-1649-5-ND	4-Bit Up/Down Counter	16-Dip	.92	.69	.52
SN74LS240DW	296-1650-5-ND	Octal Buffer/Line Driver	20-SOIC	.68	.51	.39
SN74LS240N	296-1651-5-ND	Octal Buffer/Line Driver	20-Dip	.68	.51	.39
SN74LS241N	296-14887-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	.68	.51	.39
SN74LS244DW	296-1213-5-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.68	.51	.39
SN74LS244DWR	296-1213-1-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.64	.48	.36
SN74LS244DWR	296-1213-2-ND	Tri-State Octal Buffer/Line Driver	20-SOIC		452.00/2,000	
SN74LS244N	296-1653-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	.68	.51	.39
SN74LS245DW	296-1214-5-ND	Octal Bus Transceiver	20-SOIC	.68	.51	.39
SN74LS245DWR	296-1214-1-ND	Octal Bus Transceiver	20-SOIC	.64	.48	.36
SN74LS245DWR	296-1214-2-ND	Octal Bus Transceiver	20-SOIC		452.00/2,000	
SN74LS245N	296-1655-5-ND	Octal Bus Transceiver	20-Dip	.68	.51	.39
SN74LS247D	296-3678-5-ND	BCD to 7-Segment Decoder/Driver	16-SOIC	1.20	1.00	.80
SN74LS247N	296-3679-5-ND	BCD to 7-Segment Decoder/Driver	16-Dip	1.20	1.00	.80
SN74LS251N	296-14888-5-ND	Tri-State 8-1 Data Selector/Mux	16-Dip	.72	.54	.41
SN74LS257BN	296-1656-5-ND	Quad 2-1 Data Selector/Multiplexer	16-Dip	.72	.54	.41
SN74LS259BN	296-14889-5-ND	8-Bit Addressable Latch	16-Dip	.84	.63	.48
SN74LS266N	296-3681-5-ND	Quad 2-Input Exclusive-NOR Gate with OC Output	14-Dip	.84	.63	.48
SN74LS273N	296-1657-5-ND	Octal D-Type Flip-Flop	20-Dip	.68	.51	.39
SN74LS279ANSR	296-13222-1-ND	Quad S-R Latch	16-SOP	.80	.60	.45
SN74LS279ANSR	296-13222-2-ND	Quad S-R Latch	16-SOP		558.00/2,000	
SN74LS368AN	296-3702-5-ND	6-Bit Buffer/Line Driver	16-Dip	.80	.60	.45
SN74LS373DW	296-1659-5-ND	Octal D-Type Latch	20-SOIC	.67	.51	.38
SN74LS373DWR	296-14893-1-ND	Octal D-Type Latch	20-SOIC	.64	.48	.36
SN74LS373DWR	296-14893-2-ND	Octal D-Type Latch	20-SOIC		446.00/2,000	
SN74LS373N	296-1660-5-ND	Octal D-Type Latch	20-Dip	.67	.51	.38
SN74LS374DW	296-1661-5-ND	Octal D-Type Flip-Flop	20-SOIC	.67	.51	.38
SN74LS374DWR	296-14894-1-ND	Octal D-Type Flip-Flop	20-SOIC	.64	.48	.36
SN74LS374DWR	296-14894-2-ND	Octal D-Type Flip-Flop	20-SOIC		446.00/2,000	
SN74LS374N	296-1662-5-ND	Octal D-Type Flip-Flop	20-Dip	.67	.51	.38
SN74LS377N	296-1663-5-ND	Octal D-Type Flip-Flop	20-Dip	.96	.80	.64
SN74LS393N	296-1665-5-ND	Dual 4-Bit Binary Counter	14-Dip	.96	.72	.54
SN74LS399N	296-14895-5-ND	Quad 2-Input Mux with Storage	16-Dip	1.41	1.18	.94
SN74LS423N	296-3707-5-ND	Dual Retrig. Mono Multivibrator	16-Dip	1.45	1.16	.87
SN74LS541N	296-1666-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	.88	.66	.50
SN74LS595DR	296-14896-1-ND	8-Bit Shift Register with Output Latch	16-SOIC	5.54	4.44	3.74
SN74LS595DR	296-14896-2-ND	8-Bit Shift Register with Output Latch	16-SOIC		8960.00/2,500	
SN74LS595N	296-15070-5-ND	8-Bit Shift Register with Output Latch	16-Dip	5.78	4.63	3.91
SN74LS640N	296-14897-5-ND	Octal Bus Transceiver	20-Dip	1.29	1.08	.86
SN74LS645-1NSR	296-13224-1-ND	Tri-State Octal Bus Transceiver	20-SOP	1.98	1.58	1.19
SN74LS645-1NSR	296-13224-2-ND	Tri-State Octal Bus Transceiver	20-SOP		2158.00/2,000	
SN74LS682N	296-14898-5-ND	8-Bit Magnitude/Identity Comparator	20-Dip	1.38	1.10	.83
SN74LS688N	296-1667-5-ND	8-Bit Magnitude Comparator	20-Dip	1.47	1.23	.98
		LV Family				
SN74LV00AD	296-1670-5-ND	Quad 2-Input Positive NAND Gate	14-SOIC	.49	.40	.27
SN74LV00ADR	296-1670-1-ND	Quad 2-Input Positive NAND Gate	14-SOIC	.46	.37	.26
SN74LV00ADR	296-1670-2-ND	Quad 2-Input Positive NAND Gate	14-SOIC		297.50/2,500	
SN74LV00ADBR	296-3751-1-ND	Quad 2-Input Positive NAND Gate	14-SSOP	.46	.37	.26
SN74LV00ADBR	296-3751-2-ND	Quad 2-Input Positive NAND Gate	14-SSOP		252.00/2,000	
SN74LV00ADGVR	296-3752-1-ND	Quad 2-Input Positive NAND Gate	14-TVSOP	.46	.37	.26
SN74LV00ADGVR	296-3752-2-ND	Quad 2-Input Positive NAND Gate	14-TVSOP		252.00/2,000	
SN74LV00ANSR	296-13226-1-ND	Quad 2-Input Positive NAND Gate	14-SOP	.46	.37	.26
SN74LV00ANSR	296-13226-2-ND	Quad 2-Input Positive NAND Gate	14-SOP		252.00/2,000	
SN74LV00APWR	296-3753-1-ND	Quad 2-Input Positive NAND Gate	14-TSSOP	.46	.37	.26
SN74LV00APWR	296-3753-2-ND	Quad 2-Input Positive NAND Gate	14-TSSOP		252.00/2,000	
SN74LV00ARGYR	296-13927-1-ND	Quad 2-Input Positive NAND Gate	14-QFN	.50	.40	.30
SN74LV00ARGYR	296-13927-2-ND	Quad 2-Input Positive NAND Gate	14-QFN		140.00/1,000	
SN74LV02AD	296-1671-5-ND	Quad 2-Input NOR Gate	14-SOIC	.60	.45	.34
SN74LV02ADBR	296-3754-1-ND	Quad 2-Input NOR Gate	14-SSOP	.60	.45	.34
SN74LV02ADBR	296-3754-2-ND	Quad 2-Input NOR Gate	14-SSOP		400.00/2,000	
SN74LV02ADGVR	296-16706-1-ND	Quad 2-Input NOR Gate	14-TVSOP	.60	.45	.34
SN74LV02ADGVR	296-16706-2-ND	Quad 2-Input NOR Gate	14-TVSOP		400.00/2,000	
SN74LV02APWR	296-14902-1-ND	Quad 2-Input NOR Gate	14-TSSOP	.60	.45	.34
SN74LV02APWR	296-14902-2-ND	Quad 2-Input NOR Gate	14-TSSOP		400.00/2,000	
SN74LV02ARGYR	296-13928-1-ND	Quad 2-Input NOR Gate	14-QFN	.50	.40	.30
SN74LV02ARGYR	296-13928-2-ND	Quad 2-Input NOR Gate	14-QFN		140.00/1,000	
SN74LV04AD	296-1672-5-ND	Hex Inverter	14-SOIC	.49	.40	.27
SN74LV04ADBR	296-3755-1-ND	Hex Inverter	14-SSOP	.46	.37	.26
SN74LV04ADBR	296-3755-2-ND	Hex Inverter	14-SSOP		252.00/2,000	
SN74LV04ADGVR	296-3756-1-ND	Hex Inverter	14-TVSOP	.46	.37	.26
SN74LV04ADGVR	296-3756-2-ND	Hex Inverter	14-TVSOP		252.00/2,000	
SN74LV04APWR	296-3757-1-ND	Hex Inverter	14-TSSOP	.46	.37	.26
SN74LV04APWR	296-3757-2-ND	Hex Inverter	14-TSSOP		252.00/2,000	
SN74LV04ARGYR	296-13929-1-ND	Hex Inverter	14-QFN	.50	.40	.30
SN74LV04ARGYR	296-13929-2-ND	Hex Inverter	14-QFN		140.00/1,000	
SN74LV05ADGVR	296-14313-1-ND	Hex Inverter with OD Output	14-TVSOP	.60	.45	.34
SN74LV05ADGVR	296-14313-2-ND	Hex Inverter with OD Output	14-TVSOP		400.00/2,000	
SN74LV05ADR	296-3758-1-ND	Hex Inverter with OD Output	14-SOIC	.60	.45	.34
SN74LV05ADR	296-3758-2-ND	Hex Inverter with OD Output	14-SOIC		487.50/2,500	
SN74LV05APWR	296-3759-1-ND	Hex Inverter with OD Output	14-TSSOP	.60	.45	.34
SN74LV05APWR	296-3759-2-ND	Hex Inverter with OD Output	14-TSSOP		400.00/2,000	
SN74LV06ADBR	296-3760-1-ND	Hex Inverter Buffer/Driver w/OD Out	14-SSOP	.60	.45	.34
SN74LV06ADBR	296-3760-2-ND	Hex Inverter Buffer/Driver w/OD Out	14-SSOP		400.00/2,000	
SN74LV06ADGVR	296-3761-1-ND	Hex Inverter Buffer/Driver w/OD Out	14-TVSOP	.60	.45	.34
SN74LV06ADGVR	296-3761-2-ND	Hex Inverter Buffer/Driver w/OD Out	14-TVSOP		400.00/2,000	
SN74LV06ADR	296-3762-1-ND	Hex Inverter Buffer/Driver w/OD Out	14-SOIC	.60	.45	.34
SN74LV06ADR	296-3762-2-ND	Hex Inverter Buffer/Driver w/OD Out	14-SOIC		487.50/2,500	
SN74LV06APWR	296-3763-1-ND	Hex Inverter Buffer/Driver w/OD Out	14-TSSOP	.60	.45	.34
SN74LV06APWR	296-3763-2-ND	Hex Inverter Buffer/Driver w/OD Out	14-TSSOP		400.00/2,000	
SN74LV07AD	296-3764-5-ND	Hex Buffer/Driver with OD Out	14-SOIC	.60	.45	.34
SN74LV07ADR	296-3764-1-ND	Hex Buffer/Driver with OD Out	14-SOIC	.60	.45	.34
SN74LV07ADR	296-3764-2-ND	Hex Buffer/Driver with OD Out	14-SOIC		487.50/2,500	
SN74LV07ADBR	296-3765-1-ND	Hex Buffer/Driver with OD Out	14-SSOP	.60	.45	.34
SN74LV07ADBR	296-3765-2-ND	Hex Buffer/Driver with OD Out	14-SSOP		400.00/2,000	
SN74LV07ADGVR	296-3766-1-ND	Hex Buffer/Driver with OD Out	14-TVSOP	.60	.45	.34
SN74LV07ADGVR	296-3766-2-ND	Hex Buffer/Driver with OD Out	14-TVSOP		400.00/2,000	
SN74LV07APWR	296-3767-1-ND	Hex Buffer/Driver with OD Out	14-TSSOP	.60	.45	.34
SN74LV07APWR	296-3767-2-ND	Hex Buffer/Driver with OD Out	14-TSSOP		400.00/2,000	
SN74LV08AD	296-1673-5-ND	Quad 2-Input AND Gate	14-SOIC	.46	.37	.26
SN74LV08ADBR	296-3768-1-ND	Quad 2-Input AND Gate	14-SSOP	.46	.37	.26
SN74LV08ADBR	296-3768-2-ND	Quad 2-Input AND Gate	14-SSOP		252.00/2,000	
SN74LV08ADGVR	296-3769-1-ND	Quad 2-Input AND Gate	14-TVSOP	.46	.37	.26
SN74LV08ADGVR	296-3769-2-ND	Quad 2-Input AND Gate	14-TVSOP		252.00/2,000	
SN74LV08APWR	296-3770-1-ND	Quad 2-Input AND Gate	14-TSSOP	.46	.37	.26
SN74LV08APWR	296-3770-2-ND	Quad 2-Input AND Gate	14-TSSOP		270.00/2,000	
SN74LV08ARGYR	296-13930-1-ND	Quad 2-Input AND Gate	14-QFN	.50	.40	.30
SN74LV08ARGYR	296-13930-2-ND	Quad 2-Input AND Gate	14-QFN		140.00/1,000	
SN74LV10AD	296-3771-5-ND	Triple 3-Input NAND Gate	14-SOIC	.46	.37	.26
SN74LV10ADR	296-3771-1-ND	Triple 3-Input NAND Gate	14-SOIC	.46	.37	.26
SN74LV10ADR	296-3771-2-ND	Triple 3-Input NAND Gate	14-SOIC		297.50/2,500	
SN74LV10ADBR	296-3772-1-ND	Triple 3-Input NAND Gate	14-SSOP	.46	.37	.26
SN74LV10ADBR	296-3772-2-ND	Triple 3-Input NAND Gate	14-SSOP		252.00/2,000	
SN74LV10ADGVR	296-3773-1-ND	Triple 3-Input NAND Gate	14-TVSOP	.46	.37	.26
SN74LV10ADGVR	296-3773-2-ND	Triple 3-Input NAND Gate	14-TVSOP		252.00/2,000	
SN74LV10APWR	296-9824-1-ND	Triple 3-Input NAND Gate	14-TSSOP	.46	.37	.26
SN74LV10APWR	296-9824-2-ND	Triple 3-Input NAND Gate	14-TSSOP		252.00/2,000	
SN74LV11ADBR	296-9825-1-ND	Triple 3-Input AND Gate	14-SSOP	.60	.45	.34
SN74LV11ADBR	296-9825-2-ND	Triple 3-Input AND Gate	14-SSOP		400.00/2,000	
SN74LV11ADGVR	296-9826-1-ND	Triple 3-Input AND Gate	14-TVSOP	.60	.45	.34
SN74LV11ADGVR	296-9826-2-ND	Triple 3-Input AND Gate	14-TVSOP		400.00/2,000	
SN74LV11ADR	296-9827-1-ND	Triple 3-Input AND Gate	14-SOIC	.60	.45	.34
SN74LV11ADR	296-9827-2-ND	Triple 3-Input AND Gate	14-SOIC		487.50/2,500	
SN74LV11APWR	296-9828-1-ND	Triple 3-Input AND Gate	14-TSSOP	.60	.45	.34
SN74LV11APWR	296-9828-2-ND	Triple 3-Input AND Gate	14-TSSOP		400.00/2,000	
SN74LV14AD	296-1678-5-ND	Hex Schmitt-Trigger Inverter	14-SOIC	.46	.37	.26
SN74LV14ADR	296-1678-1-ND	Hex Schmitt-Trigger Inverter	14-SOIC	.46	.37	.26
SN74LV14ADR	296-1678-2-ND	Hex Schmitt-Trigger Inverter	14-SOIC		297.50/2,500	
SN74LV14ADBR	296-3783-1-ND	Hex Schmitt-Trigger Inverter	14-SSOP	.46	.37	.26
SN74LV14ADBR	296-3783-2-ND	Hex Schmitt-Trigger Inverter	14-SSOP		252.00/2,000	
SN74LV14ADGVR	296-3784-1-ND	Hex Schmitt-Trigger Inverter	14-TVSOP	.43	.34	.26
SN74LV14ADGVR	296-3784-2-ND	Hex Schmitt-Trigger Inverter	14-TVSOP		238.00/2,000	
SN74LV14APWR	296-3785-1-ND	Hex Schmitt-Trigger Inverter	14-TSSOP	.46	.37	.26
SN74LV14APWR	296-3785-2-ND	Hex Schmitt-Trigger Inverter	14-TSSOP		270.00/2,000	
SN74LV14ARGYR	296-13935-1-ND	Hex Schmitt-Trigger Inverter	14-QFN	.50	.40	.30
SN74LV14ARGYR	296-13935-2-ND	Hex Schmitt-Trigger Inverter	14-QFN		140.00/1,000	
SN74LV20AD	296-3794-5-ND	Dual 4-Input NAND Gate	14-SOIC	.60	.45	.34
SN74LV20ADR	296-3794-1-ND	Dual 4-Input NAND Gate	14-SOIC	.60	.45	.34
SN74LV20ADR	296-3794-2-ND	Dual 4-Input NAND Gate	14-SOIC		487.50/2,500	
SN74LV20ADBR	296-9838-1-ND	Dual 4-Input NAND Gate	14-SSOP	.60	.45	.34
SN74LV20ADBR	296-9838-2-ND	Dual 4-Input NAND Gate	14-SSOP		400.00/2,000	
SN74LV20ADGVR	296-3795-1-ND	Dual 4-Input NAND Gate	14-TVSOP	.60	.45	.34
SN74LV20ADGVR	296-3795-2-ND	Dual 4-Input NAND Gate	14-TVSOP		400.00/2,000	
SN74LV20APWR	296-3796-1-ND	Dual 4-Input NAND Gate	14-TSSOP	.60	.45	.34
SN74LV20APWR	296-3796-2-ND	Dual 4-Input NAND Gate	14-TSSOP		400.00/2,000	
SN74LV21ADR	296-9839-1-ND	Dual 4-Input AND Gate	14-SOIC	.60	.45	.34
SN74LV21ADR	296-9839-2-ND	Dual 4-Input AND Gate	14-SOIC		487.50/2,500	
SN74LV21ADBR	296-3798-1-ND	Dual 4-Input AND Gate	14-SSOP	.60	.45	.34
SN74LV21ADBR	296-3798-2-ND	Dual 4-Input AND Gate	14-SSOP		400.00/2,000	
SN74LV21ADGVR	296-3799-1-ND	Dual 4-Input AND Gate	14-TVSOP	.60	.45	.34
SN74LV21ADGVR	296-3799-2-ND	Dual 4-Input AND Gate	14-TVSOP		400.00/2,000	
SN74LV21APWR	296-3800-1-ND	Dual 4-Input AND Gate	14-TSSOP	.60	.45	.34
SN74LV21APWR	296-3800-2-ND	Dual 4-Input AND Gate	14-TSSOP		400.00/2,000	
SN74LV27ADR	296-3813-1-ND	Triple 3-Input NOR Gate	14-SOIC	.60	.45	.34
SN74LV27ADR	296-3813-2-ND	Triple 3-Input NOR Gate	14-SOIC		487.50/2,500	
SN74LV27ADBR	296-3814-1-ND	Triple 3-Input NOR Gate	14-SSOP	.60	.45	.34
SN74LV27ADBR	296-3814-2-ND	Triple 3-Input NOR Gate	14-SSOP		400.00/2,000	
SN74LV27ADGVR	296-3815-1-ND	Triple 3-Input NOR Gate	14-TVSOP	.60	.45	.34
SN74LV27ADGVR	296-3815-2-ND	Triple 3-Input NOR Gate	14-TVSOP		400.00/2,000	
SN74LV27APWR	296-3816-1-ND	Triple 3-Input NOR Gate	14-TSSOP	.60	.45	.34
SN74LV27APWR	296-3816-2-ND	Triple 3-Input NOR Gate	14-TSSOP		400.00/2,000	
SN74LV32AD	296-1686-5-ND	Quad 2-Input Positive OR Gate	14-SOIC	.46	.37	.26
SN74LV32ADBR	296-3817-1-ND	Quad 2-Input Positive OR Gate	14-SSOP	.46	.37	.26
SN74LV32ADBR	296-3817-2-ND	Quad 2-Input Positive OR Gate	14-SSOP		252.00/2,000	
SN74LV32ADGVR	296-3818-1-ND	Quad 2-Input Positive OR Gate	14-TVSOP	.46	.37	.26
SN74LV32ADGVR	296-3818-2-ND	Quad 2-Input Positive OR Gate	14-TVSOP		252.00/2,000	
SN74LV32ANSR	296-13232-1-ND	Quad 2-Input Positive OR Gate	14-SOP	.46	.37	.26
SN74LV32ANSR	296-13232-2-ND	Quad 2-Input Positive OR Gate	14-SOP		252.00/2,000	
SN74LV32APWR	296-3819-1-ND	Quad 2-Input Positive OR Gate	14-TSSOP	.46	.37	.26
SN74LV32APWR	296-3819-2-ND	Quad 2-Input Positive OR Gate	14-TSSOP		270.00/2,000	
SN74LV32ARGYR	296-13941-1-ND	Quad 2-Input Positive OR Gate	14-QFN	.50	.40	.30
SN74LV32ARGYR	296-13941-2-ND	Quad 2-Input Positive OR Gate	14-QFN		140.00/1,000	
SN74LV74AD	296-1692-5-ND	Dual D-Type Flip-Flop	14-SOIC	.50	.40	.30
SN74LV74ADBR	296-3844-1-ND	Dual D-Type Flip-Flop	14-SSOP	.40	.32	.24
SN74LV74ADBR	296-3844-2-ND	Dual D-Type Flip-Flop	14-SSOP		224.00/2,000	

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TEXAS INSTRUMENTS — POWER SUPPLY PRODUCTS

Voltage Regulators

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TL780-12CKC	296-10227-5-ND	12V, Fixed Positive Volt. Regulator	TO-220AB	.80	.60	.45
TL780-12KCS	296-14325-5-ND	12V, Fixed Positive Volt. Regulator	TO-220	.72	.54	.41
TL780-15CKC	296-10228-5-ND	15V, Fixed Positive Volt. Regulator	TO-220AB	.80	.60	.45
TL780-15KCS	296-14326-5-ND	15V, Fixed Positive Volt. Regulator	TO-220	.72	.54	.41
TL2218-285PWR	296-10163-1-ND	2.85V, SCSI Fixed Regulator	20-TSSOP	3.31	2.65	2.06
TL2218-285PWR	296-10163-2-ND	2.85V, SCSI Fixed Regulator	20-TSSOP		3748.00/2,000	
TLV431BCDCKR	296-17794-1-ND	Low Volt. Adj. Precision Shunt Regulator ***NEW!***	SC70-6	.88	.66	.50
TLV431BCDCKR	296-17794-2-ND	Low Volt. Adj. Precision Shunt Regulator ***NEW!***	SC70-6		858.00/3,000	
TLV431BCLPR	296-17809-1-ND	Low Volt. Adj. Precision Shunt Regulator ***NEW!***	TO-92	.84	.63	.48
TLV431BCLPR	296-17809-2-ND	Low Volt. Adj. Precision Shunt Regulator ***NEW!***	TO-92		558.00/2,000	
TLV431BIDCKR	296-17795-1-ND	Low Volt. Adj. Precision Shunt Regulator ***NEW!***	SC70-6	.96	.72	.54
TLV431BIDCKR	296-17795-2-ND	Low Volt. Adj. Precision Shunt Regulator ***NEW!***	SC70-6		936.00/3,000	
TLV431BILPR	296-17810-1-ND	Low Volt. Adj. Precision Shunt Regulator ***NEW!***	TO-92	.92	.69	.52
TLV431BILPR	296-17810-2-ND	Low Volt. Adj. Precision Shunt Regulator ***NEW!***	TO-92		612.00/2,000	
TLV431BQDCKR	296-17796-1-ND	Low Volt. Adj. Precision Shunt Regulator ***NEW!***	SC70-6	1.05	.88	.70
TLV431BQDCKR	296-17796-2-ND	Low Volt. Adj. Precision Shunt Regulator ***NEW!***	SC70-6		1365.00/3,000	
TLV431BQLPR	296-17811-1-ND	Low Volt. Adj. Precision Shunt Regulator ***NEW!***	TO-92	.99	.63	.66
TLV431BQLPR	296-17811-2-ND	Low Volt. Adj. Precision Shunt Regulator ***NEW!***	TO-92		878.00/2,000	
TLVH431BCDBVR	296-17684-1-ND	Low Volt. Adj. Precision Shunt Regulator ***NEW!***	SOT-23-5	.92	.69	.52
TLVH431BCDBVR	296-17684-2-ND	Low Volt. Adj. Precision Shunt Regulator ***NEW!***	SOT-23-5		897.00/3,000	
TLVH431BCDBZR	296-17685-1-ND	Low Volt. Adj. Precision Shunt Regulator ***NEW!***	SOT-23	.92	.69	.52
TLVH431BCDBZR	296-17685-2-ND	Low Volt. Adj. Precision Shunt Regulator ***NEW!***	SOT-23		897.00/3,000	
TLVH431BCDCKR	296-17797-1-ND	Low Volt. Adj. Precision Shunt Regulator ***NEW!***	SC70-6	.75	.63	.50
TLVH431BCDCKR	296-17797-2-ND	Low Volt. Adj. Precision Shunt Regulator ***NEW!***	SC70-6		975.00/3,000	
TLVH431BCLPR	296-17812-1-ND	Low Volt. Adj. Precision Shunt Regulator ***NEW!***	TO-92	.92	.69	.52
TLVH431BCLPR	296-17812-2-ND	Low Volt. Adj. Precision Shunt Regulator ***NEW!***	TO-92		612.00/2,000	
TLVH431BIDBVR	296-17686-1-ND	Low Volt. Adj. Precision Shunt Regulator ***NEW!***	SOT-23-5	.75	.63	.50
TLVH431BIDBVR	296-17686-2-ND	Low Volt. Adj. Precision Shunt Regulator ***NEW!***	SOT-23-5		975.00/3,000	
TLVH431BIDBZR	296-17687-1-ND	Low Volt. Adj. Precision Shunt Regulator ***NEW!***	SOT-23	.75	.63	.50
TLVH431BIDBZR	296-17687-2-ND	Low Volt. Adj. Precision Shunt Regulator ***NEW!***	SOT-23		975.00/3,000	
TLVH431BIDCKR	296-17798-1-ND	Low Volt. Adj. Precision Shunt Regulator ***NEW!***	SC70-6	.81	.68	.54
TLVH431BIDCKR	296-17798-2-ND	Low Volt. Adj. Precision Shunt Regulator ***NEW!***	SC70-6		1053.00/3,000	
TLVH431BILPR	296-17813-1-ND	Low Volt. Adj. Precision Shunt Regulator ***NEW!***	TO-92	.75	.63	.50
TLVH431BILPR	296-17813-2-ND	Low Volt. Adj. Precision Shunt Regulator ***NEW!***	TO-92		666.00/2,000	
TLVH431BQDBVR	296-17688-1-ND	Low Volt. Adj. Precision Shunt Regulator ***NEW!***	SOT-23-5	1.05	.88	.70
TLVH431BQDBVR	296-17688-2-ND	Low Volt. Adj. Precision Shunt Regulator ***NEW!***	SOT-23-5		1365.00/3,000	
TLVH431BQDBZR	296-17689-1-ND	Low Volt. Adj. Precision Shunt Regulator ***NEW!***	SOT-23	1.05	.88	.70
TLVH431BQDBZR	296-17689-2-ND	Low Volt. Adj. Precision Shunt Regulator ***NEW!***	SOT-23		1365.00/3,000	
TLVH431BQDCKR	296-17799-1-ND	Low Volt. Adj. Precision Shunt Regulator ***NEW!***	SC70-6	1.11	.93	.74
TLVH431BQDCKR	296-17799-2-ND	Low Volt. Adj. Precision Shunt Regulator ***NEW!***	SC70-6		1443.00/3,000	
TLVH431BQLPR	296-17814-1-ND	Low Volt. Adj. Precision Shunt Regulator ***NEW!***	TO-92	1.05	.88	.70
TLVH431BQLPR	296-17814-2-ND	Low Volt. Adj. Precision Shunt Regulator ***NEW!***	TO-92		932.00/2,000	
UA78L02ACD	296-11116-5-ND	2.0V, 100mA Regulator	8-SOP	.40	.32	.24
UA78L02ACLP	296-11117-5-ND	2.0V, 100mA Regulator	TO-226AA	.40	.32	.24
UA78L05ACD	296-1364-5-ND	5.0V, 100mA Regulator	8-SOIC	.46	.37	.26
UA78L05ACDR	296-1364-1-ND	5.0V, 100mA Regulator	8-SOIC	.46	.37	.26
UA78L05ACDR	296-1364-2-ND	5.0V, 100mA Regulator	8-SOIC		297.50/2,500	
UA78L05ACLP	296-1365-ND	5.0V, 100mA Regulator	TO-92	.49	.40	.27
UA78L05ACLPR	296-1365-1-ND	5.0V, 100mA Regulator	TO-92	.49	.40	.27
UA78L05ACLPR	296-1365-2-ND	5.0V, 100mA Regulator	TO-92		270.00/2,000	
UA78L05ACPK	296-11118-1-ND	5.0V, 100mA Regulator	SOT-89	.40	.32	.24
UA78L05ACPK	296-11118-2-ND	5.0V, 100mA Regulator	SOT-89		112.00/1,000	
UA78L05AIDR	296-16903-1-ND	5.0V, 100mA Regulator	8-SOIC	.50	.40	.30
UA78L05AIDR	296-16903-2-ND	5.0V, 100mA Regulator	8-SOIC		337.50/2,500	
UA78L05AILP	296-11119-5-ND	5.0V, 100mA Regulator	TO-92	.55	.44	.33
UA78L05AIPK	296-17759-1-ND	5.0V, 100mA Regulator ***NEW!***	SOT-89	.55	.44	.33
UA78L05AIPK	296-17759-2-ND	5.0V, 100mA Regulator ***NEW!***	SOT-89		154.00/1,000	
UA78L05CD	296-11120-5-ND	5.0V, 100mA Regulator	8-SOP	.46	.37	.26
UA78L05CLP	296-11121-5-ND	5.0V, 100mA Regulator	TO-226AA	.46	.37	.26
UA78L06ACLP	296-11122-5-ND	6.0V, 100mA Regulator	TO-226AA	.39	.32	.22
UA78L06ACPK	296-15739-1-ND	6.0V, 100mA Regulator	SOT-89	.40	.32	.24
UA78L06ACPK	296-15739-2-ND	6.0V, 100mA Regulator	SOT-89		112.00/1,000	
UA78L08ACD	296-11123-5-ND	8.0V, 100mA Regulator	8-SOP	.39	.32	.22
UA78L08ACLP	296-11124-5-ND	8.0V, 100mA Regulator	TO-226AA	.39	.32	.22
UA78L08ACLPR	296-15052-1-ND	8.0V, 100mA Regulator	TO-226	.39	.32	.22
UA78L08ACLPR	296-15052-2-ND	8.0V, 100mA Regulator	TO-226		216.00/2,000	
UA78L08ACPK	296-11125-1-ND	8.0V, 100mA Regulator	SOT-89	.40	.32	.24
UA78L08ACPK	296-11125-2-ND	8.0V, 100mA Regulator	SOT-89		112.00/1,000	
UA78L09ACD	296-11126-5-ND	9.0V, 100mA Regulator	8-SOP	.39	.32	.22
UA78L09ACDR	296-15053-1-ND	9.0V, 100mA Regulator	8-SOIC	.39	.32	.22
UA78L09ACDR	296-15053-2-ND	9.0V, 100mA Regulator	8-SOIC		255.00/2,500	
UA78L09ACLP	296-11127-5-ND	9.0V, 100mA Regulator	TO-226AA	.39	.32	.24
UA78L09ACPK	296-14331-1-ND	9.0V, 100mA Regulator	SOT-89	.40	.32	.24
UA78L09ACPK	296-14331-2-ND	9.0V, 100mA Regulator	SOT-89		112.00/1,000	
UA78L10ACD	296-11129-5-ND	10.0V, 100mA Regulator	8-SOP	.39	.32	.24
UA78L10ACLP	296-1996-ND	10.0V, 100mA Regulator	TO-92	.39	.32	.24
UA78L10ACPK	296-15327-5-ND	10.0V, 100mA Regulator	SOT-89	.40	.32	.24
UA78L12ACD	296-11130-5-ND	12.0V, 100mA Regulator	8-SOP	.39	.32	.24
UA78L12ACDR	296-15054-1-ND	12.0V, 100mA Regulator	8-SOIC	.39	.32	.24
UA78L12ACDR	296-15054-2-ND	12.0V, 100mA Regulator	8-SOIC		255.00/2,500	
UA78L12ACLP	296-11131-5-ND	12.0V, 100mA Regulator	TO-226AA	.39	.32	.24
UA78L12ACPK	296-11132-1-ND	12.0V, 100mA Regulator	SOT-89	.40	.32	.24
UA78L12ACPK	296-11132-2-ND	12.0V, 100mA Regulator	SOT-89		112.00/1,000	
UA78L15ACLP	296-11133-5-ND	15.0V, 100mA Regulator	TO-226AA	.39	.32	.24
UA78L15ACPK	296-12002-1-ND	15.0V, 100mA Regulator	SOT-89	.40	.32	.24
UA78L15ACPK	296-12002-2-ND	15.0V, 100mA Regulator	SOT-89		112.00/1,000	
UA78M05CDCYR	296-12290-1-ND	5.0V, 500mA, Fixed Pos. Volt. Reg.	SOT-223	.56	.42	.32
UA78M05CDCYR	296-12290-2-ND	5.0V, 500mA, Fixed Pos. Volt. Reg.	SOT-223		455.00/2,500	
UA78M05CKC	296-11134-5-ND	5.0V, 500mA Regulator	TO-220	.64	.48	.36
UA78M05CKCS	296-14000-5-ND	5.0V, 500mA Regulator	TO-220	.56	.42	.32
UA78M05CKTPR	296-11135-1-ND	5.0V, 500mA Regulator	2-PFM	.56	.42	.32
UA78M05CKTPR	296-11135-2-ND	5.0V, 500mA Regulator	2-PFM		546.00/3,000	
UA78M05IDCYR	296-17616-1-ND	5.0V, 500mA Regulator ***NEW!***	SOT-223	.84	.63	.48
UA78M05IDCYR	296-17616-2-ND	5.0V, 500mA Regulator ***NEW!***	SOT-223		682.50/2,500	
UA78M05QDCYRQ1	296-17425-1-ND	5.0V, 500mA Regulator	SOT-223	.64	.48	.36
UA78M05QDCYRQ1	296-17425-2-ND	5.0V, 500mA Regulator	SOT-223		520.00/2,500	
UA78M06CKTPR	296-1366-1-ND	6.0V, 500mA Regulator	2-PFM	.56	.42	.32
UA78M06CKTPR	296-1366-2-ND	6.0V, 500mA Regulator	2-PFM		546.00/3,000	
UA78M08CDCYR	296-12612-1-ND	8.0V, 500mA Voltage Regulator	SOT-223	.56	.42	.32
UA78M08CDCYR	296-12612-2-ND	8.0V, 500mA Voltage Regulator	SOT-223		455.00/2,500	
UA78M08CKC	296-11136-5-ND	8.0V, 500mA Voltage Regulator	TO-220	.56	.42	.32
UA78M08CKTPR	296-11137-1-ND	8.0V, 500mA Voltage Regulator	2-PFM	.56	.42	.32
UA78M08CKTPR	296-11137-2-ND	8.0V, 500mA Voltage Regulator	2-PFM		546.00/3,000	
UA78M09CKTPR	296-11138-1-ND	9.0V, 500mA Fixed Pos. Volt. Regulator	2-PFM	.56	.42	.32
UA78M09CKTPR	296-11138-2-ND	9.0V, 500mA Fixed Pos. Volt. Regulator	2-PFM		546.00/3,000	
UA78M10CKTPR	296-11140-1-ND	10.0V, 500mA Fixed Pos. Volt. Reg.	2-PFM	.87	.73	.59
UA78M10CKTPR	296-11140-2-ND	10.0V, 500mA Fixed Pos. Volt. Reg.	2-PFM		1131.00/3,000	
UA78M12CKC	296-11141-5-ND	12.0V, 500mA Fixed Pos. Volt. Reg.	TO-220	.56	.42	.32
UA78M12CKTPR	296-11142-1-ND	12.0V, 500mA Regulator	2-PFM	.56	.42	.32
UA78M12CKTPR	296-11142-2-ND	12.0V, 500mA Regulator	2-PFM		546.00/3,000	
UA78M33CDCYR	296-13424-1-ND	3.3V, 500mA Fixed Pos. Volt. Reg.	SOT-223-4	.56	.42	.32
UA78M33CDCYR	296-13424-2-ND	3.3V, 500mA Fixed Pos. Volt. Reg.	SOT-223-4		455.00/2,500	
UA78M33CKC	296-12722-5-ND	3.3V, 500mA Fixed Pos. Volt. Reg.	TO-220	.56	.42	.32
UA78M33CKTPR	296-13425-1-ND	3.3V, 500mA Fixed Pos. Volt. Reg.	2-PFM	.56	.42	.32
UA78M33CKTPR	296-13425-2-ND	3.3V, 500mA Fixed Pos. Volt. Reg.	2-PFM		546.00/3,000	
UA79M05CKC	296-11144-5-ND	5.0V, 500mA Neg. Volt. Regulator	TO-220	.56	.42	.32
UA79M05CKCS	296-14001-5-ND	5.0V, 500mA Neg. Volt. Regulator	TO-220	.48	.36	.27
UA79M05CKTPR	296-11145-1-ND	5.0V, 500mA Neg. Volt. Regulator	2-PFM	.56	.42	.32
UA79M05CKTPR	296-11145-2-ND	5.0V, 500mA Neg. Volt. Regulator	2-PFM		546.00/3,000	
UA79M08CKTPR	296-11146-1-ND	8.0V Negative Voltage Regulator	2-PFM	.56	.42	.32
UA79M08CKTPR	296-11146-2-ND	8.0V Negative Voltage Regulator	2-PFM		546.00/3,000	
UA723CD	296-11102-5-ND	Adjustable, Prec Voltage Regulator	14-SOIC	.64	.48	.36
UA723CDR	296-11102-1-ND	Adjustable, Prec Voltage Regulator	14-SOIC	.64	.48	.36
UA723CDR	296-11102-2-ND	Adjustable, Prec Voltage Regulator	14-SOIC		520.00/2,500	
UA723CN	296-11104-5-ND	Adjustable, Prec Voltage Regulator	14-Dip	.64	.48	.36
UA733CN	296-11105-5-ND	Differential Video Amplifier	14-Dip	.76	.57	.43
UA7805CKC	296-1974-5-ND	5.0V, 1500mA Regulator	TO-220	.52	.39	.29
UA7805CKTER	296-11108-1-ND	5.0V, 1500mA Regulator	3-PFM	.64	.48	.36
UA7805CKTER	296-11108-2-ND	5.0V, 1500mA Regulator	3-PFM		426.00/2,000	
UA7805CKCS	296-13996-5-ND	Positive Voltage Regulator	TO-220	.52	.39	.29
UA7808CKC	296-11109-5-ND	8.0V, 1500mA Regulator	TO-220	.64	.48	.36
UA7808CKCS	296-13997-5-ND	Positive Voltage Regulator	TO-220	.52	.39	.29
UA7808CKTER	296-11110-1-ND	8.0V, 1500mA Regulator	3-PFM	.64	.48	.36
UA7808CKTER	296-11110-2-ND	8.0V, 1500mA Regulator	3-PFM		426.00/2,000	
UA7810CKC	296-1975-5-ND	10.0V, 1500mA Regulator	TO-220	.64	.48	.36
UA7810CKTER	296-17050-1-ND	10.0V, 1500mA Regulator	3-PFM	.52	.39	.29
UA7810CKTER	296-17050-2-ND	10.0V, 1500mA Regulator	3-PFM		346.00/2,000	
UA7812CKC	296-11111-5-ND	12.0V, 1500mA Regulator	TO-220	.64	.48	.36
UA7812CKCS	296-13998-5-ND	Positive Voltage Regulator	TO-220	.52	.39	.29
UA7812CKTER	296-11112-1-ND	12.0V, 1500mA Regulator	3-PFM	.64	.48	.36
UA7812CKTER	296-11112-2-ND	12.0V, 1500mA Regulator	3-PFM		426.00/2,000	
UA7815CKC	296-11113-5-ND	15V, 1500mA Positive Volt. Regulator	TO-220	.64	.48	.36
UA7815CKCS	296-13999-5-ND	Positive Voltage Regulator	TO-220	.64	.48	.36
UA7815CKTER	296-11114-1-ND	15V, 1.5A Positive Volt. Regulator	3-PFM	.52	.39	.29
UA7815CKTER	296-11114-2-ND	15V, 1.5A Positive Volt. Regulator	3-PFM		346.00/2,000	
UA7824CKC	296-11115-5-ND	24V, 1.5A Positive Volt. Regulator	TO-220	.64	.48	.36
UA7905CKTER	296-17834-1-ND	-5V, 1.5A Negative Volt. Reg. ***NEW!***	3-PFM	.32	.26	.20
UA7905CKTER	296-17834-2-ND	-5V, 1.5A Negative Volt. Reg. ***NEW!***	3-PFM		528.00/3,000	
UA7915CKTER	296-17081-1-ND	-15V, 1.5A Negative Volt. Regulator	3-PFM	.60	.45	.33
UA7915CKTER	296-17081-2-ND	-15V, 1.5A Negative Volt. Regulator	3-PFM		400.00/2,000	
UC2577T-ADJ	296-11159-5-ND	Adj., Simple Step Up Volt. Regulator	TO-220-5	10.83	9.75	8.67
UC29431D	296-11209-5-ND	Precision Adjustable Shunt Regulator	8-SOIC	7.60	6.08	5.17
UC39431D	296-11348-5-ND	Precision Adjustable Shunt Regulator	8-SOIC	5.51	4.41	3.42
UC39431N	296-11349-5-ND	Precision Adjustable Shunt Regulator	8-Dip	5.51	4.41	3.42

TEXAS INSTRUMENTS — PRECISION GROUND REFERENCE

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TLE2425CD	296-1344-5-ND	2.5V Precision Ground Reference	8-SOIC	1.43	1.14	.86
TLE2425CDR	296-1344-1-ND	2.5V Precision Ground Reference	8-SOIC	1.43	1.14	.86
TLE2425CDR	296-1344-2-ND	2.5V Precision Ground Reference	8-SOIC		1825.00/2,500	
TLE2425CLP	296-1993-ND	2.5V Precision Ground Reference	TO-92	1.43	1.14	.86
TLE2425ID	296-6545-5-ND	2.5V Precision Ground Reference	8-SOIC	1.43	1.14	.86
TLE2425ILP	296-6546-5-ND	2.5V Precision Ground Reference	TO-92	1.43	1.14	.86
TLE2426CD	296-6547-5-ND	1/2 Rail Virtual Ground Reference	8-SOIC	1.30	1.04	.78
TLE2426CLP	296-1994-ND	1/2 Rail Virtual Ground Reference	TO-92	1.30	1.04	.78
TLE2426CLPR	296-1994-1-ND	1/2 Rail Virtual Ground Reference	TO-92	1.30	1.04	.78
TLE2426CLPR	296-1994-2-ND	1/2 Rail Virtual Ground Reference	TO-92		1352.00/2,000	
TLE2426CP	296-6548-5-ND	1/2 Rail Virtual Ground Reference	8-Dip	1.30	1.04	.78
TLE2426ID	296-1345-5-ND	1/2 Rail Virtual Ground Reference	8-SOIC	1.30	1.04	.78
TLE2426IDR	296-1345-1-ND	1/2 Rail Virtual Ground Reference	8-SOIC	1.30	1.04	.78
TLE2426IDR	296-1345-2-ND	1/2 Rail Virtual Ground Reference	8-SOIC		1665.00/2,500	
TLE2426ILP	296-6549-5-ND	1/2 Rail Virtual Ground Reference	TO-92	1.30	1.04	.78
TLE2426IP	296-6550-5-ND	1/2 Rail Virtual Ground Reference	8-Dip	1.30	1.04	.78

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Texas Instruments — SIGNAL CONTROLLERS

I. art No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LV320AIC1107PWR	296-12709-1-ND	Prog. PCM CODEC with Microphone Amps and Speaker Driver	20-TSSOP	5.40	4.32	3.85
LV320AIC1107PWR	296-12709-2-ND	Prog. PCM CODEC with Microphone Amps and Speaker Driver	20-TSSOP		6750.00/2,000	
LV320AIC1109PBS	296-13002-1-ND	Programmable PCM Codec with Microphone Amps and Speaker Driver	32-TQFP	5.60	4.48	3.78
LV320AIC1109PBS	296-13002-2-ND	Programmable PCM Codec with Microphone Amps and Speaker Driver	32-TQFP		910.00/250	
LV320AIC1110GQER	296-12710-1-ND	Prog. PCM CODEC with Microphone Amps and Speaker Driver	80-BGA	5.70	4.56	3.85
LV320AIC1110GQER	296-12710-2-ND	Prog. PCM CODEC with Microphone Amps and Speaker Driver	80-BGA		8835.00/2,500	
LV320AIC1110PBS	296-13508-ND	Prog. PCM Codec with Microphone Amps and Speaker Driver	32-TQFP	5.70	4.56	3.85
LV320DAC23GQE	296-12027-5-ND	8-96KHz Stereo Audio DAC	80-VFBGA	4.84	3.87	3.01
LV320DAC23RHDR	296-15636-1-ND	8-96KHz Stereo Audio DAC	28-PQFP	4.50	3.60	2.80
LV320DAC23RHDR	296-15636-2-ND	8-96KHz Stereo Audio DAC	28-PQFP		7800.00/3,000	
LV320DAC26EVM	296-17267-ND	Eval. Module for TLV320DAC26	—	126.84	—	—
LV320DAC26IRHB	296-17402-ND	Low Power Stereo Audio DAC	32-QFN	5.90	4.72	3.99
WL1102PBS	296-13005-5-ND	Voice Band Audio Processor	32-TQFP	5.96	4.77	4.03
WL1103GQER	296-11095-1-ND	Voice Band Audio Processor	80-VFBGA	6.50	5.20	4.39
WL1103GQER	296-11095-2-ND	Voice Band Audio Processor	80-VFBGA		10075.00/2,500	
WL1103TPBSQ1	296-12962-1-ND	Voice Band Audio Processor	32-TQFP	6.72	5.38	4.54
WL1103TPBSQ1	296-12962-2-ND	Voice Band Audio Processor	32-TQFP		1092.00/250	
WL1103TPBSRQ1	296-16969-1-ND	Voice Band Audio Processor	32-TQFP	6.76	5.41	4.57
WL1103TPBSRQ1	296-16969-2-ND	Voice Band Audio Processor	32-TQFP		4225.00/1,000	

Texas Instruments — TEMPERATURE SENSORS

I. art No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MP75AIDR	296-17838-1-ND	Digital Temp. Sensor with Two-Wire Interface ***NEW!***	8-SOIC	1.75	1.40	1.05
MP75AIDR	296-17838-2-ND	Digital Temp. Sensor with Two-Wire Interface ***NEW!***	8-SOIC		2240.00/2,500	
MP100NA/250	296-12749-1-ND	Digital Temperature Sensor	SOT-23-6	1.88	1.50	1.13
MP100NA/250	296-12749-2-ND	Digital Temperature Sensor	SOT-23-6		262.50/250	
MP101NA/250	296-12750-1-ND	Digital Temperature Sensor w/Alert	SOT-23-6	2.00	1.60	1.20
MP101NA/250	296-12750-2-ND	Digital Temperature Sensor w/Alert	SOT-23-6		280.00/250	
MP121AIDBVT	296-15177-1-ND	Digital Temperature Sensor	SOT-23-6	2.25	1.80	1.35
MP121AIDBVT	296-15177-2-ND	Digital Temperature Sensor	SOT-23-6		315.00/250	
MP122AIDBVT	296-15178-1-ND	Prog. Digital Temp. Sensor	SOT-23-6	2.48	1.98	1.49
MP122AIDBVT	296-15178-2-ND	Prog. Digital Temp. Sensor	SOT-23-6		346.50/250	
MP123AIDBVT	296-15832-1-ND	Digital Temp. Sensor with SPI	SOT-23-6	2.25	1.80	1.35
MP123AIDBVT	296-15832-2-ND	Digital Temp. Sensor with SPI	SOT-23-6		315.00/250	
MP124AID	296-16977-ND	Digital Temp. Sensor with SPI	8-SOIC	1.75	1.40	1.05
MP125AIDBVT	296-17690-1-ND	Digital Temp. Sensor w/SPI ***NEW!***	SOT-23-6	2.00	1.60	1.20
MP125AIDBVT	296-17690-2-ND	Digital Temp. Sensor w/SPI ***NEW!***	SOT-23-6		280.00/250	
MP141AIDBVT	296-17922-1-ND	Digital Out Temp. Sensor ***NEW!***	SOT-23-6	1.63	1.30	.98
MP141AIDBVT	296-17922-2-ND	Digital Out Temp. Sensor ***NEW!***	SOT-23-6		227.50/250	
MP141AIDGKT	296-17923-1-ND	Digital Out Temp. Sensor ***NEW!***	8-MSOP	1.63	1.30	.98
MP141AIDGKT	296-17923-2-ND	Digital Out Temp. Sensor ***NEW!***	8-MSOP		227.50/250	
MP175AIDR	296-17837-1-ND	Digital Temp. Sensor with Two-Wire Interface ***NEW!***	8-SOIC	2.13	1.70	1.28
MP175AIDR	296-17837-2-ND	Digital Temp. Sensor with Two-Wire Interface ***NEW!***	8-SOIC		2720.00/2,500	

Texas Instruments — TIMERS

I. art No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
IE555D	296-16792-ND	Precision Timer	8-SOIC	.45	.36	.27
IE555DR	296-6501-1-ND	Precision Timer	8-SOIC	.45	.36	.27
IE555DR	296-6501-2-ND	Precision Timer	8-SOIC		305.00/2,500	
IE555P	296-1411-5-ND	Precision Timer	8-Dip	.45	.36	.27
IE555PSR	296-6502-1-ND	Precision Timer	8-SOP	.45	.36	.27
IE555PSR	296-6502-2-ND	Precision Timer	8-SOP		252.00/2,000	
IE555PW	296-15086-5-ND	Precision Timer	8-TSSOP	.45	.36	.27
IE556D	296-6503-5-ND	Dual Precision Timer	14-SOIC	.50	.40	.30
IE556N	296-6504-5-ND	Dual Precision Timer	14-Dip	.48	.36	.27
IE556NSR	296-13104-1-ND	Dual Precision Timer	14-SOP	.50	.40	.30
IE556NSR	296-13104-2-ND	Dual Precision Timer	14-SOP		280.00/2,000	
IA555D	296-9681-5-ND	Precision Timer	8-SOIC	.48	.36	.27
IA555DR	296-14635-1-ND	Precision Timer	8-SOIC	.48	.36	.27
IA555DR	296-14635-2-ND	Precision Timer	8-SOIC		390.00/2,500	
IA555P	296-9682-5-ND	Precision Timer	8-Dip	.48	.36	.27
LE555D	296-9683-5-ND	Precision Timer	8-SOIC	.84	.70	.56
LE555P	296-9684-5-ND	Precision Timer	8-Dip	.84	.70	.56
LC551CD	296-11822-5-ND	CMOS Timer	8-SOIC	1.11	.93	.74
LC551CP	296-10333-5-ND	CMOS Timer	8-Dip	1.11	.93	.74
LC552CD	296-10334-5-ND	CMOS Timer	14-SOIC	1.48	1.18	.89
LC552CN	296-10335-5-ND	CMOS Timer	14-Dip	1.48	1.18	.89
LC555CD	296-1336-5-ND	CMOS Timer	8-SOIC	.88	.66	.50
LC555CDR	296-1336-1-ND	CMOS Timer	8-SOIC	.88	.66	.50
LC555CDR	296-1336-2-ND	CMOS Timer	8-SOIC		715.00/2,500	
LC555CP	296-1857-5-ND	CMOS Timer	8-Dip	.88	.66	.50
LC555CPWR	296-10339-1-ND	CMOS Timer	14-TSSOP	.88	.66	.50
LC555CPWR	296-10339-2-ND	CMOS Timer	14-TSSOP		586.00/2,000	
LC555ID	296-1337-5-ND	CMOS Timer	8-SOIC	.96	.72	.54
LC555IDR	296-1337-1-ND	CMOS Timer	8-SOIC	.72	.60	.48
LC555IDR	296-1337-2-ND	CMOS Timer	8-SOIC		780.00/2,500	
LC555IP	296-1858-5-ND	CMOS Timer	8-Dip	.96	.72	.54
LC555QDR	296-10341-1-ND	CMOS Timer	8-SOIC	.75	.63	.50
LC555QDR	296-10341-2-ND	CMOS Timer	8-SOIC		812.50/2,500	
LC556CD	296-1338-5-ND	Dual CMOS Timer	14-SOIC	1.02	.85	.68
LC556CDR	296-1338-1-ND	Dual CMOS Timer	14-SOIC	1.02	.85	.68
LC556CDR	296-1338-2-ND	Dual CMOS Timer	14-SOIC		1105.00/2,500	
LC556CN	296-1859-5-ND	Dual CMOS Timer	14-Dip	1.02	.85	.68
LC556ID	296-10343-5-ND	Dual CMOS Timer	14-SOIC	1.14	.95	.76
LC556IN	296-10344-5-ND	Dual CMOS Timer	14-Dip	1.14	.95	.76
LC556MD	296-10345-5-ND	Dual CMOS Timer	14-SOIC	1.38	1.15	.92

ON Semiconductor — INTEGRATED CIRCUITS

ON Semiconductor Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
CS1112YDWFR24	CS1112YDWFR24OSCT-ND	Quad Power Output Driver	24-SOIC	6.54	5.24	4.42
CS1112YDWFR24	CS1112YDWFR24OSTR-ND	Quad Power Output Driver	24-SOIC		4088.00/1,000	
CS5124XDR8	CS5124XDR8OSCT-ND	HP, IC Mode PWM Controller	8-SOIC	2.34	1.88	1.58
CS5124XDR8	CS5124XDR8OSTR-ND	HP, IC Mode PWM Controller	8-SOIC		3685.00/2,500	
CS5171EDR8	CS5171EDR8OSCT-ND	1.5A, 280KHz Positive Boost Regulator	8-SOIC	2.36	1.89	1.60
CS5171EDR8	CS5171EDR8OSTR-ND	1.5A, 280KHz Positive Boost Regulator	8-SOIC		3717.50/2,500	
CS5171GDR8	CS5171GDR8OSCT-ND	1.5A, 280KHz Positive Boost Regulator	8-SOIC	2.32	1.86	1.57
CS5171GDR8	CS5171GDR8OSTR-ND	1.5A, 280KHz Positive Boost Regulator	8-SOIC		3655.00/2,500	
CS5172EDR8	CS5172EDR8OSCT-ND	1.5A, 280KHz Negative Boost Regulator	8-SOIC	2.36	1.89	1.60
CS5172EDR8	CS5172EDR8OSTR-ND	1.5A, 280KHz Negative Boost Regulator	8-SOIC		3717.50/2,500	
CS5172GDR8	CS5172GDR8OSCT-ND	1.5A, 280KHz Negative Boost Regulator	8-SOIC	2.32	1.86	1.57
CS5172GDR8	CS5172GDR8OSTR-ND	1.5A, 280KHz Negative Boost Regulator	8-SOIC		3655.00/2,500	
CS5173EDR8	CS5173EDR8OSCT-ND	1.5A, 560KHz Positive Boost Regulator	8-SOIC	2.36	1.89	1.60
CS5173EDR8	CS5173EDR8OSTR-ND	1.5A, 560KHz Positive Boost Regulator	8-SOIC		3717.50/2,500	
CS5173GDR8	CS5173GDR8OSCT-ND	1.5A, 560KHz Positive Boost Regulator	8-SOIC	2.32	1.86	1.57
CS5173GDR8	CS5173GDR8OSTR-ND	1.5A, 560KHz Positive Boost Regulator	8-SOIC		3655.00/2,500	
CS5174EDR8	CS5174EDR8OSCT-ND	1.5A, 560KHz Negative Boost Regulator	8-SOIC	2.36	1.89	1.60
CS5174EDR8	CS5174EDR8OSTR-ND	1.5A, 560KHz Negative Boost Regulator	8-SOIC		3717.50/2,500	
CS5174GDR8	CS5174GDR8OSCT-ND	1.5A, 560KHz Negative Boost Regulator	8-SOIC	2.32	1.86	1.57
CS5174GDR8	CS5174GDR8OSTR-ND	1.5A, 560KHz Negative Boost Regulator	8-SOIC		3655.00/2,500	
CS5211EDR14	CS5211EDR14OSCT-ND	Low Volt. Sync. Buck Controller	14-SOIC	2.72	2.18	1.70
CS5211EDR14	CS5211EDR14OSTR-ND	Low Volt. Sync. Buck Controller	14-SOIC		3812.50/2,500	
CS5211GDR14	CS5211GDR14OSCT-ND	Low Volt. Sync. Buck Controller	14-SOIC	2.68	2.15	1.67
CS5211GDR14	CS5211GDR14OSTR-ND	Low Volt. Sync. Buck Controller	14-SOIC		3747.50/2,500	
CS5212EDR14	CS5212EDR14OSCT-ND	Low Volt. Sync. Buck Controller	14-SOIC	2.72	2.18	1.70
CS5212EDR14	CS5212EDR14OSTR-ND	Low Volt. Sync. Buck Controller	14-SOIC		3812.50/2,500	
CS5212GDR14	CS5212GDR14OSCT-ND	Low Volt. Sync. Buck Controller	14-SOIC	2.68	2.15	1.67
CS5212GDR14	CS5212GDR14OSTR-ND	Low Volt. Sync. Buck Controller	14-SOIC		3747.50/2,500	
CS5301GDWR32	CS5301GDWR32OSCT-ND	Three-Phase Buck Controller with Integrated Gate Drivers/Power Good	32-SOIC	5.10	4.59	4.07
CS5301GDWR32	CS5301GDWR32OSTR-ND	Three-Phase Buck Controller with Integrated Gate Drivers/Power Good	32-SOIC		3825.00/1,000	
CS8101YDR8	CS8101YDR8OSCT-ND	Micropower 5V, 100mA LDO Reg.	8-SOIC	2.32	1.86	1.45
CS8101YDR8	CS8101YDR8OSTR-ND	Micropower 5V, 100mA LDO Reg.	8-SOIC		3245.00/2,500	
CS8101YDWFR20	CS8101YDWFR20OSCT-ND	Micropower 5V, 100mA LDO Reg.	20-SOIC	3.67	2.94	2.29
CS8101YDWFR20	CS8101YDWFR20OSTR-ND	Micropower 5V, 100mA LDO Reg.	20-SOIC		2078.00/1,000	
CS8101YT5	CS8101YT5OS-ND	Micropower 5V, 100mA LDO Reg.	TO-220	4.70	3.77	2.93
CS8101YTHA5	CS8101YTHA5OS-ND	Micropower 5V, 100mA LDO Reg.	TO-220	4.52	3.62	2.82
CS8101YTVA5	CS8101YTVA5OS-ND	Micropower 5V, 100mA LDO Reg.	TO-220	4.52	3.62	2.82
CS8120YDPR5	CS8120YDPR5OSCT-ND	5V, 300mA Linear Regulator	D2-PAK	4.21	3.37	2.62
CS8120YDR14	CS8120YDR14OSCT-ND	5V, 300mA Linear Regulator	14-SOIC	3.58	2.87	2.23
CS8120YDR14	CS8120YDR14OSTR-ND	5V, 300mA Linear Regulator	14-SOIC		5067.50/2,500	
CS8120YN8	CS8120YN8OS-ND	5V, 300mA Linear Regulator	8-Dip	3.47	2.78	2.16
CS8120YT5	CS8120YT5OS-ND	5V, 300mA Linear Regulator	TO-220	4.48	3.59	2.79
CS8120YTHA5	CS8120YTHA5OS-ND	5V, 300mA Linear Regulator	TO-220	5.09	4.07	3.17
CS8120YTVA5	CS8120YTVA5OS-ND	5V, 300mA Linear Regulator	TO-220	5.09	4.07	3.17
CS8126-1YT5	CS8126-1YT5OS-ND	5V, 750mA LDO Linear Regulator	TO-220	3.56	2.85	2.22
CS8151CGN8	CS8151CGN8OS-ND	5V, 100mA LDO Linear Regulator	8-Dip	3.02	2.42	1.88
CS8151YDPSR7	CS8151YDPSR7OSCT-ND	5V, 100mA LDO Linear Regulator	D2-PAK	5.60	4.48	3.78
CS8151YDPSR7	CS8151YDPSR7OSTR-ND	5V, 100mA LDO Linear Regulator	D2-PAK		2667.00/750	
CS8151YDWFR16	CS8151YDWFR16OSCT-ND	5V, 100mA LDO Linear Regulator	16-SOIC	4.91	3.93	3.06
CS8151YDWFR16	CS8151YDWFR16OSTR-ND	5V, 100mA LDO Linear Regulator	16-SOIC		2780.00/1,000	
CS8151YNF16	CS8151YNF16OS-ND	5V, 100mA LDO Linear Regulator	16-Dip	5.13	4.11	3.20
CS8151YT7	CS8151YT7OS-ND	5V, 100mA LDO Linear Regulator	TO-220	4.46	3.57	2.78
CS8151YTHA7	CS8151YTHA7OS-ND	5V, 100mA LDO Linear Regulator	TO-220	4.91	3.93	3.06
CS8151YTVA7	CS8151YTVA7OS-ND	5V, 100mA LDO Linear Regulator	TO-220	4.91	3.93	3.06
CS8190ENF16	CS8190ENF16OS-ND	Air-Core Tach/Speedo Driver	16-Dip	3.53	2.83	2.20
CS8361YDPSR7	CS8361YDPSR7OSCT-ND	5V Dual Micropower LDO Regulator	D2-PAK	4.21	3.37	2.62
CS8361YDPSR7	CS8361YDPSR7OSTR-ND	5V Dual Micropower LDO Regulator	D2-PAK		1823.25/750	
CS8361YDWFR16	CS8361YDWFR16OSCT-ND	5V Dual Micropower LDO Regulator	16-SOIC	4.21	3.37	2.62
CS8361YDWFR16	CS8361YDWFR16OSTR-ND	5V Dual Micropower LDO Regulator	16-SOIC		2384.00/1,000	
CS9201YDFR8	CS9201YDFR8OSCT-ND	Micropower 5V, 100mA LDO Linear Regulator	8-SOIC	2.66	2.13	1.66
CS9201YDFR8	CS9201YDFR8OSTR-ND	Micropower 5V, 100mA LDO Linear Regulator	8-SOIC		3717.50/2,500	
CS9202YDFR8	CS9202YDFR8OSCT-ND	3.3V, 100mA LDO Linear Regulator	8-SOIC	2.66	2.13	1.66
CS9202YDFR8	CS9202YDFR8OSTR-ND	3.3V, 100mA LDO Linear Regulator	8-SOIC		3717.50/2,500	
CS51414EDR8	CS51414EDR8OSCT-ND	1.5A, 520KHz Low Volt. Buck Reg.	8-SOIC	2.12	1.70	1.32
CS51414EDR8	CS51414EDR8OSTR-ND	1.5A, 520KHz Low Volt. Buck Reg.	8-SOIC		3007.50/2,500	
CS59201GDR8	CS59201GDR8OSCT-ND	Winchester Servo Preamp	8-SOIC	5.31	4.25	3.31
CS59201GDR8	CS59201GDR8OSTR-ND	Winchester Servo Preamp	8-SOIC		7435.00/2,500	
LC03-6R2	LC03-6R2OSCT-ND	Low Capacitance Surface Mount TVS for HS Data Interface	8-SOIC	.88	.70	.53
LC03-6R2	LC03-6R2OSTR-ND	Low Capacitance Surface Mount TVS for HS Data Interface	8-SOIC		1137.50/2,500	
LM201AN	LM201ANOS-ND	Non-Compensated Single Op Amp	8-Dip	.75	.56	.43
LM211DR2	LM211DR2OSCT-ND	Single Comparator	8-SOIC	.61	.46	.35
LM211DR2	LM211DR2OSTR-ND	Single Comparator	8-SOIC		492.50/2,500	
LM224DR2	LM224DR2OSCT-ND	Single Supply Quad Op Amp	14-SOIC	.41	.33	.25
LM224DR2	LM224DR2OSTR-ND	Single Supply Quad Op Amp	14-SOIC		252.50/2,500	
LM224N	LM224NOS-ND	Single Supply Quad Op Amp	14-Dip	.50	.40	.30
LM239DR2	LM239DR2OSCT-ND	Single Supply Quad Comparator	14-SOIC	.41	.33	.25
LM239DR2	LM239DR2OSTR-ND	Single Supply Quad Comparator	14-SOIC		252.50/2,500	
LM239N	LM239NOS-ND	Single Supply Quad Comparator	14-Dip	.50	.40	.30
LM2574N-005	LM2574N-005OS-ND	0.5A, 5V, Step-Down Switching Reg.	8-Dip	1.25	1.01	.76

(Continued)

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ON Semiconductor Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MC100LVEL92DW	MC100LVEL92DWOS-ND	5V Triple PECL Input to LVPECL Output Translator	20-SOIC	9.00	7.20	6.08
MC100LVELT22D	MC100LVELT22DOS-ND	3.3V Dual LVTTL/LVCMOS to Diff. LVPECL Translator	8-SOIC	4.28	3.42	2.66
MC100LVELT22DT	MC100LVELT22DTOS-ND	3.3V Dual LVTTL/LVCMOS to Diff. LVPECL Translator	8-TSSOP	4.28	3.42	2.66
MC100LVELT23D	MC100LVELT23DOS-ND	3.3V Dual Diff. LVPECL to LVTTL Translator	8-SOIC	4.28	3.42	2.66
MC100LVELT23DT	MC100LVELT23DTOS-ND	3.3V Dual Diff. LVPECL to LVTTL Translator	8-TSSOP	4.28	3.42	2.66
MC100LVEP11DT	MC100LVEP11DTOS-ND	2.5V/3.3V ECL 1:2 Diff. Fanout Buffer	8-TSSOP	6.90	5.52	4.66
MC100LVEP14DT	MC100LVEP14DTOS-ND	2.5V/3.3V, 1:5 Diff. ECL/PECL/HSTL Clock Driver	20-TSSOP	9.08	8.18	7.25
MC100LVEP34DR2	MC100LVEP34DROSCT-ND	2.5V/3.3V ECL 2, 4, 8 Clock Generation Chip	16-SOIC	16.03	14.43	12.80
MC100LVEP34DR2	MC100LVEP34DROSTR-ND	2.5V/3.3V ECL 2, 4, 8 Clock Generation Chip	16-SOIC		29220.00/2,500	
MC100LVEP34DTR2	MC100LVEP34DTOSCT-ND	2.5V/3.3V ECL 2, 4, 8 Clock Generation Chip	16-TSSOP	16.03	14.43	12.80
MC100LVEP34DTR2	MC100LVEP34DTOSTR-ND	2.5V/3.3V ECL 2, 4, 8 Clock Generation Chip	16-TSSOP		29220.00/2,500	
MC100LVEP111FA	MC100LVEP111FAOS-ND	2.5V/3.3V, 1:10 Diff. ECL/PECL/HSTL Clock Driver	32-LQFP	10.00	9.00	7.98
MC100LVEP210FA	MC100LVEP210FAOS-ND	2.5V/3.3V, 1:5 Dual Diff. ECL/PECL/HSTL Clock Driver	32-LQFP	11.58	10.43	9.25
MC1403DR2	MC1403DR2OSCT-ND	Low Voltage Reference	8-SOIC	.88	.73	.59
MC1403DR2	MC1403DR2OSTR-ND	Low Voltage Reference	8-SOIC		947.50/2,500	
MC1403P1	MC1403P1OS-ND	Low Voltage Reference	8-Dip	.91	.76	.61
MC1413BDR2	MC1413BDR2OSCT-ND	High Volt., High Current Darlington Transistor Array	16-SOIC	.65	.50	.37
MC1413BDR2	MC1413BDR2OSTR-ND	High Volt., High Current Darlington Transistor Array	16-SOIC		530.00/2,500	
MC1413BP	MC1413BPOS-ND	High Volt., High Current Darlington Transistor Array	16-Dip	.70	.53	.40
MC1413DR2	MC1413DR2OSCT-ND	High Volt., High Current Darlington Transistor Array	16-SOIC	.56	.42	.32
MC1413DR2	MC1413DR2OSTR-ND	High Volt., High Current Darlington Transistor Array	16-SOIC		455.00/2,500	
MC1413P	MC1413POS-ND	High Volt., High Current Darlington Transistor Array	16-Dip	.61	.46	.35
MC1455BP1	MC1455BP1OS-ND	Monolithic Timing Circuit	8-Dip	.61	.46	.35
MC1455D	MC1455DOS-ND	Monolithic Timing Circuit	8-SOIC	.58	.47	.36
MC1455P1	MC1455P1OS-ND	Monolithic Timing Circuit	8-Dip	.56	.42	.32
MC1488DR2	MC1488DR2OSCT-ND	Quad Line EIA-232D Driver	14-SOIC	.47	.35	.27
MC1488DR2	MC1488DR2OSTR-ND	Quad Line EIA-232D Driver	14-SOIC		395.00/2,500	
MC1488P	MC1488POS-ND	Quad Line EIA-232D Driver	14-Dip	.65	.50	.37
MC1489ADR2	MC1489ADR2OSCT-ND	Quad Line EIA-232D Receiver	14-SOIC	.51	.39	.29
MC1489ADR2	MC1489ADR2OSTR-ND	Quad Line EIA-232D Receiver	14-SOIC		417.50/2,500	
MC1489AP	MC1489APOS-ND	Quad Line EIA-232D Receiver	14-Dip	.68	.51	.39
MC1489D	MC1489DOS-ND	Quad Line EIA-232D Receiver	14-SOIC	.58	.47	.36
MC1489P	MC1489POS-ND	Quad Line EIA-232D Receiver	14-Dip	.65	.50	.37
MC1496DR2	MC1496DR2OSCT-ND	Balanced Modulator/Demodulator	14-SOIC	.74	.62	.49
MC1496DR2	MC1496DR2OSTR-ND	Balanced Modulator/Demodulator	14-SOIC		797.50/2,500	
MC1496P	MC1496POS-ND	Balanced Modulator/Demodulator	14-Dip	.98	.74	.56
MC3302P	MC3302POS-ND	Single Supply Quad Comparator	14-Dip	.79	.60	.45
MC3303P	MC3303POS-ND	Single Supply Quad Op Amp	14-Dip	.75	.56	.43
MC3403DR2	MC3403DR2OSCT-ND	Single Supply Quad Op Amp	14-SOIC	.61	.46	.35
MC3403DR2	MC3403DR2OSTR-ND	Single Supply Quad Op Amp	14-SOIC		492.50/2,500	
MC3403P	MC3403POS-ND	Single Supply Quad Op Amp	14-Dip	.70	.53	.40
MC3423D	MC3423DOS-ND	Overvolt. Crowbar Sensing Circuit	8-SOIC	.84	.70	.56
MC3423P1	MC3423P1OS-ND	Overvolt. Crowbar Sensing Circuit	8-Dip	.88	.73	.59
MC3479P	MC3479POS-ND	Stepper Motor Driver	16-Dip	3.68	2.94	2.29
MC3488AP1	MC3488AP1OS-ND	Dual Line Driver	8-Dip	1.00	.84	.67
MC7805ACD2TR4	MC7805ACD2TR4OSCT-ND	1A, 5V, Positive Voltage Regulator	D2PAK	.67	.56	.45
MC7805ACD2TR4	MC7805ACD2TR4OSTR-ND	1A, 5V, Positive Voltage Regulator	D2PAK		248.00/800	
MC7805ACT	MC7805ACTOS-ND	1A, 5V, Positive Voltage Regulator	TO-220	.53	.40	.30
MC7805BD2TR4	MC7805BD2TR4OSCT-ND	1A, 5V, Positive Voltage Regulator	D2PAK	.70	.59	.47
MC7805BD2TR4	MC7805BD2TR4OSTR-ND	1A, 5V, Positive Voltage Regulator	D2PAK		258.40/800	
MC7805BDTRK	MC7805BDTRKOSCT-ND	1A, 5V, Positive Voltage Regulator	DPAK	.65	.50	.37
MC7805BDTRK	MC7805BDTRKOSTR-ND	1A, 5V, Positive Voltage Regulator	DPAK		530.00/2,500	
MC7805BT	MC7805BTOS-ND	1A, 5V, Positive Voltage Regulator	TO-220	.53	.40	.30
MC7805CD2TR4	MC7805CD2TR4OSCT-ND	1A, 5V, Positive Voltage Regulator	D2PAK	.60	.50	.40
MC7805CD2TR4	MC7805CD2TR4OSTR-ND	1A, 5V, Positive Voltage Regulator	D2PAK		222.40/800	
MC7805CT	MC7805CTOS-ND	1A, 5V, Positive Voltage Regulator	TO-220	.57	.46	.34
MC7806CT	MC7806CTOS-ND	1A, 6V, Positive Voltage Regulator	TO-220	.45	.34	.26
MC7808ACT	MC7808ACTOS-ND	1A, 8V, Positive Voltage Regulator	TO-220	.53	.40	.30
MC7808BT	MC7808BTOS-ND	1A, 8V, Positive Voltage Regulator	TO-220	.53	.40	.30
MC7808CD2T	MC7808CD2TOS-ND	1A, 8V, Positive Voltage Regulator	D2PAK	.79	.60	.45
MC7808CT	MC7808CTOS-ND	1A, 8V, Positive Voltage Regulator	TO-220	.45	.34	.26
MC7809CT	MC7809CTOS-ND	1A, 9V, Positive Voltage Regulator	TO-220	.45	.34	.26
MC7812ACD2T	MC7812ACD2TOS-ND	1A, 12V, Positive Voltage Regulator	D2PAK	.69	.67	.50
MC7812ACT	MC7812ACTOS-ND	1A, 12V, Positive Voltage Regulator	TO-220	.53	.40	.30
MC7812BT	MC7812BTOS-ND	1A, 12V, Positive Voltage Regulator	TO-220	.53	.40	.30
MC7812CD2TR4	MC7812CD2TR4OSCT-ND	1A, 12V, Positive Voltage Regulator	D2PAK	.60	.50	.40
MC7812CD2TR4	MC7812CD2TR4OSTR-ND	1A, 12V, Positive Voltage Regulator	D2PAK		222.40/800	
MC7812CT	MC7812CTOS-ND	1A, 12V, Positive Voltage Regulator	TO-220	.57	.46	.34
MC7815ACT	MC7815ACTOS-ND	1A, 15V, Positive Voltage Regulator	TO-220	.53	.40	.30
MC7815BT	MC7815BTOS-ND	1A, 15V, Positive Voltage Regulator	TO-220	.53	.40	.30
MC7815CD2TR4	MC7815CD2TR4OSCT-ND	1A, 15V, Positive Voltage Regulator	D2PAK	.60	.50	.40
MC7815CD2TR4	MC7815CD2TR4OSTR-ND	1A, 15V, Positive Voltage Regulator	D2PAK		222.40/800	
MC7815CT	MC7815CTOS-ND	1A, 15V, Positive Voltage Regulator	TO-220	.45	.34	.26
MC7818CT	MC7818CTOS-ND	1A, 18V, Positive Voltage Regulator	TO-220	.45	.34	.26
MC7824BT	MC7824BTOS-ND	1A, 24V, Positive Voltage Regulator	TO-220	.53	.40	.30
MC7824CT	MC7824CTOS-ND	1A, 24V, Positive Voltage Regulator	TO-220	.45	.34	.26
MC7905ACT	MC7905ACTOS-ND	1A, 5V, Negative Voltage Regulator	TO-220	.53	.40	.30
MC7905CT	MC7905CTOS-ND	1A, 5V, Negative Voltage Regulator	TO-220	.45	.34	.26
MC7905.2CT	MC7905.2CTOS-ND	1A, 5.2V, Negative Voltage Regulator	TO-220	.56	.42	.32
MC7906CT	MC7906CTOS-ND	1A, 6V, Negative Voltage Regulator	TO-220	.45	.34	.26
MC7908CT	MC7908CTOS-ND	1A, 8V, Negative Voltage Regulator	TO-220	.45	.34	.26
MC7912ACT	MC7912ACTOS-ND	1A, 12V, Negative Voltage Regulator	TO-220	.53	.40	.30

ON Semiconductor Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25
MC7912CT	MC7912CTOS-ND	1A, 12V, Negative Voltage Regulator	TO-220	.45	.34
MC7915ACT	MC7915CTOS-ND	1A, 15V, Negative Voltage Regulator	TO-220	.45	.34
MC7915BT	MC7915BTOS-ND	1A, 15V, Negative Voltage Regulator	TO-220	.53	.40
MC7915CT	MC7915CTOS-ND	1A, 15V, Negative Voltage Regulator	TO-220	.45	.34
MC12026AD	MC12026ADOS-ND	1.1GHz Dual Modulus Prescaler	8-SOIC	4.28	3.42
MC12080D	MC12080DOS-ND	1.1GHz Prescaler	8-SOIC	4.28	3.42
MC12093D	MC12093DOS-ND	2, 4, 8, 1.1GHz Low Power Prescaler with Stand-By Mode	8-SOIC	4.28	3.42
MC12095D	MC12095DOS-ND	2.5GHz Low Power Prescaler with Stand-By Mode	8-SOIC	4.28	3.42
MC14001BCP	MC14001BCPOS-ND	Quad 2-Input NOR Gate	14-Dip	.55	.45
MC14001BDR2	MC14001BDR2OSCT-ND	Quad 2-Input NOR Gate	14-SOIC	.38	.31
MC14001BDR2	MC14001BDR2OSTR-ND	Quad 2-Input NOR Gate	14-SOIC		322.50/2,
MC14001UBCP	MC14001UBCPOS-ND	Quad 2-Input NOR Gate	14-Dip	.55	.45
MC14007UBCP	MC14007UBCPOS-ND	Dual Complementary Pair + Inverter	14-Dip	.55	.45
MC14007UBDR2	MC14007UBDR2OSCT-ND	Dual Complementary Pair + Inverter	14-SOIC	.38	.31
MC14007UBDR2	MC14007UBDR2OSTR-ND	Dual Complementary Pair + Inverter	14-SOIC		322.50/2,
MC14011BCP	MC14011BCPOS-ND	Quad 2-Input NAND Gate	14-Dip	.55	.45
MC14011BDR2	MC14011BDR2OSCT-ND	Quad 2-Input NAND Gate	14-SOIC	.38	.31
MC14011BDR2	MC14011BDR2OSTR-ND	Quad 2-Input NAND Gate	14-SOIC		322.50/2,
MC14011UBCP	MC14011UBCPOS-ND	Quad 2-Input NAND Gate	14-Dip	.55	.45
MC14012BCP	MC14012BCPOS-ND	Dual NAND Gate	14-Dip	.58	.47
MC14013BCP	MC14013BCPOS-ND	Dual D-Type Flip-Flop	14-Dip	.61	.46
MC14013BDR2	MC14013BDR2OSCT-ND	Dual D-Type Flip-Flop	14-SOIC	.41	.33
MC14013BDR2	MC14013BDR2OSTR-ND	Dual D-Type Flip-Flop	14-SOIC		275.00/2,
MC14015BCP	MC14015BCPOS-ND	Dual 4-Bit Static Shift Register	16-Dip	.61	.46
MC14016BCP	MC14016BCPOS-ND	Quad Analog Switch/Quad Mux	14-Dip	.49	.37
MC14016BDR2	MC14016BDR2OSCT-ND	Quad Analog Switch/Quad Mux	14-SOIC	.44	.36
MC14016BDR2	MC14016BDR2OSTR-ND	Quad Analog Switch/Quad Mux	14-SOIC		295.00/2,
MC14017BCP	MC14017BCPOS-ND	Decade Counter	16-Dip	.62	.47
MC14018BD	MC14018BDOS-ND	Presettable Divide-by-N Counter	16-SOIC	.56	.42
MC14020BCP	MC14020BCPOS-ND	14-Bit Binary Counter	16-Dip	.75	.56
MC14021BCP	MC14021BCPOS-ND	8-Bit Static Shift Register	16-Dip	.56	.42
MC14021BD	MC14021BDOS-ND	8-Bit Static Shift Register	16-SOIC	.58	.47
MC14022BCP	MC14022BCPOS-ND	Octal Counter	16-Dip	.65	.50
MC14023BCP	MC14023BCPOS-ND	Triple 3-Input NAND Gate	14-Dip	.58	.47
MC14023BDR2	MC14023BDR2OSCT-ND	Triple 3-Input NAND Gate	14-SOIC	.41	.33
MC14023BDR2	MC14023BDR2OSTR-ND	Triple 3-Input NAND Gate	14-SOIC		275.00/2,
MC14024BCP	MC14024BCPOS-ND	7-Stage Ripple Counter	14-Dip	.58	.44
MC14024BD	MC14024BDOS-ND	7-Stage Ripple Counter	14-SOIC	.44	.36
MC14025BCP	MC14025BCPOS-ND	Triple 3-Input NOR Gate	14-Dip	.58	.47
MC14027BCP	MC14027BCPOS-ND	Dual J-K Flip-Flop	16-Dip	.56	.42
MC14027BD	MC14027BDOS-ND	Dual J-K Flip-Flop	16-SOIC	.47	.38
MC14028BCP	MC14028BCPOS-ND	BCD-to-Decimal Decoder	16-Dip	.54	.41
MC14029BCP	MC14029BCPOS-ND	Binary/Decade Up/Down Counter	16-Dip	.65	.50
MC14040BCP	MC14040BCPOS-ND	12-Bit Binary Counter	16-Dip	.64	.49
MC14040BDR2	MC14040BDR2OSCT-ND	12-Bit Binary Counter	16-SOIC	.46	.35
MC14040BDR2	MC14040BDR2OSTR-ND	12-Bit Binary Counter	16-SOIC		375.00/2,
MC14043BCP	MC14043BCPOS-ND	Quad R-S Latch	16-Dip	.65	.50
MC14043BD	MC14043BDOS-ND	Quad R-S Latch	16-SOIC	.58	.47
MC14044BCP	MC14044BCPOS-ND	Quad R-S Latch	16-Dip	.69	.52
MC14046BCP	MC14046BCPOS-ND	Phase Locked Loop	16-Dip	.70	.53
MC14046BDWR2	MC14046BDWR2OSCT-ND	Phase Locked Loop	16-SOIC	.77	.58
MC14046BDWR2	MC14046BDWR2OSTR-ND	Phase Locked Loop	16-SOIC		256.00/1,
MC14049BCP	MC14049BCPOS-ND	Hex Inverter/Buffer	16-Dip	.56	.42
MC14049BDR2	MC14049BDR2OSCT-ND	Hex Inverter/Buffer	16-SOIC	.40	.30
MC14049BDR2	MC14049BDR2OSTR-ND	Hex Inverter/Buffer	16-SOIC		335.00/2,
MC14049UBCP	MC14049UBCPOS-ND	Hex Inverter/Buffer	16-Dip	.58	.44
MC14049UBDR2	MC14049UBDR2OSCT-ND	Hex Inverter/Buffer	16-SOIC	.40	.30
MC14049UBDR2	MC14049UBDR2OSTR-ND	Hex Inverter/Buffer	16-SOIC		335.00/2,
MC14050BCP	MC14050BCPOS-ND	Hex Noninverting Buffer	16-Dip	.55	.42
MC14050BDR2	MC14050BDR2OSCT-ND	Hex Noninverting Buffer	16-SOIC	.37	.29
MC14050BDR2	MC14050BDR2OSTR-ND	Hex Noninverting Buffer	16-SOIC		315.00/2,
MC14051BCP	MC14051BCPOS-ND	8-Channel, Analog Mux/Demux	16-Dip	.61	.46
MC14051BDR2	MC14051BDR2OSCT-ND	8-Channel, Analog Mux/Demux	16-SOIC	.47	.35
MC14051BDR2	MC14051BDR2OSTR-ND	8-Channel, Analog Mux/Demux	16-SOIC		395.00/2,
MC14052BCP	MC14052BCPOS-ND	Dual Analog Mux/Demux	16-Dip	.77	.58
MC14052BDR2	MC14052BDR2OSCT-ND	Dual Analog Mux/Demux	16-SOIC	.47	.35
MC14052BDR2	MC14052BDR2OSTR-ND	Dual Analog Mux/Demux	16-SOIC		395.00/2,
MC14053BCP	MC14053BCPOS-ND	Triple Analog Mux/Demux	16-Dip	.65	.50
MC14053BDR2	MC14053BDR2OSCT-ND	Triple Analog Mux/Demux	16-SOIC	.47	.35
MC14053BDR2	MC14053BDR2OSTR-ND	Triple Analog Mux/Demux	16-SOIC		395.00/2,
MC14060BCP	MC14060BCPOS-ND	14-Bit Binary Counter and Oscillator	16-Dip	.64	.49
MC14060BDR2	MC14060BDR2OSCT-ND	14-Bit Binary Counter and Oscillator	16-SOIC	.49	.37
MC14060BDR2	MC14060BDR2OSTR-ND	14-Bit Binary Counter and Oscillator	16-SOIC		375.00/2,
MC14066BCP	MC14066BCPOS-ND	Quad Analog Switch/Quad Mux	14-Dip	.61	.46
MC14066BDR2	MC14066BDR2OSCT-ND	Quad Analog Switch/Quad Mux	14-SOIC	.44	.36
MC14066BDR2	MC14066BDR2OSTR-ND	Quad Analog Switch/Quad Mux	14-SOIC		295.00/2,
MC14067BCP	MC14067BCPOS-ND	16-Ch., Analog Mux/Demux	24-Dip	1.40	1.17
MC14069UBCP	MC14069UBCPOS-ND	Hex Inverter	14-Dip	.55	.45
MC14069UBDR2	MC14069UBDR2OSCT-ND	Hex Inverter	14-SOIC	.38	.31
MC14069UBDR2	MC14069UBDR2OSTR-ND	Hex Inverter	14-SOIC		322.50/2,
MC14070BCP	MC14070BCPOS-ND	Quad Exclusive OR Gate	14-Dip	.49	.37
MC14070BDR2	MC14070BDR2OSCT-ND	Quad Exclusive OR Gate	14-SOIC	.41	.33
MC14070BDR2	MC14070BDR2OSTR-ND	Quad Exclusive OR Gate	14-SOIC		275.00/2,
MC14071BCP	MC14071BCPOS-ND	Quad 2-Input OR Gate	14-Dip	.58	.47
MC14071BDR2	MC14071BDR2OSCT-ND	Quad 2-Input OR Gate	14-SOIC	.41	.33
MC14071BDR2	MC14071BDR2OSTR-ND	Quad 2-Input OR Gate	14-SOIC		275.00/2,
MC14073BCP	MC14073BCPOS-ND	Triple 3-Input AND Gate	14-Dip	.58	.47
MC14077BCP	MC14077BCPOS-ND	Quad Exclusive NOR Gate	14-Dip	.49	.37
MC14077BD	MC14077BDOS-ND	Quad Exclusive NOR Gate	14-SOIC	.41	.33
MC14081BCP	MC14081BCPOS-ND	Quad 2-Input AND Gate	14-Dip	.55	.45
MC14081BDR2	MC14081BDR2OSCT-ND	Quad 2-Input AND Gate	14-SOIC	.41	.33
MC14081BDR2	MC14081BDR2OSTR-ND	Quad 2-Input AND Gate	14-SOIC		275.00/2,
MC14082BCP	MC14082BCPOS-ND	Dual 4-Input AND Gate	14-Dip	.55	.45
MC14082BD	MC14082BDOS-ND	Dual 4-Input AND Gate	14-SOIC	.41	.33
MC14093BCP	MC14093BCPOS-ND	Quad 2-In. NAND Schmitt Trigger	14-Dip	.49	.37
MC14093BDR2	MC14093BDR2OSCT-ND	Quad 2-In. NAND Schmitt Trigger	14-SOIC	.44	.36
MC14093BDR2	MC14093BDR2OSTR-ND	Quad 2-In. NAND Schmitt Trigger	14-SOIC		295.00/2,
MC14094BCP	MC14094BCPOS-ND	Tri-St. 8-Stage Shift/Store Regulator	16-Dip	.61	.46

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ON Semiconductor™ INTEGRATED CIRCUITS *(Continued)*

ON Semiconductor Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
NUP2201MR6T1	NUP2201MR6T1OSTR-ND	Low Capacitance Diode TVS Array for High Speed Data Line Protection ***NEW!***	6-TSOP		1137.00/3,000	
NUP2201MR6T1G	NUP2201MR6T1GOSCT-ND	Low Capacitance Diode TVS Array for High Speed Data Line Protection ***NEW!***	6-TSOP	1.20	1.00	.80
NUP2201MR6T1G	NUP2201MR6T1GOSTR-ND	Low Capacitance Diode TVS Array for High Speed Data Line Protection ***NEW!***	6-TSOP		1560.00/3,000	
NUP4201DR2	NUP4201DR2OSCT-ND	Low Cap. Surface Mount TVS	8-SOIC	1.46	1.17	.88
NUP4201DR2	NUP4201DR2OSTR-ND	Low Cap. Surface Mount TVS	8-SOIC		1867.50/2,500	
NUP4201MR6T1	NUP4201MR6T1OSCT-ND	Low Capacitance Diode TVS Array for High Speed Data Line Protection ***NEW!***	6-TSOP	1.20	1.00	.80
NUP4201MR6T1	NUP4201MR6T1OSTR-ND	Low Capacitance Diode TVS Array for High Speed Data Line Protection ***NEW!***	6-TSOP		1560.00/3,000	
NUP4201MR6T1G	NUP4201MR6T1GOSCT-ND	Low Capacitance Diode TVS Array for High Speed Data Line Protection ***NEW!***	6-TSOP	1.25	1.00	.75
NUP4201MR6T1G	NUP4201MR6T1GOSTR-ND	Low Capacitance Diode TVS Array for High Speed Data Line Protection ***NEW!***	6-TSOP		1920.00/3,000	
NUP6101DMR2	NUP6101DMR2OSCT-ND	Unidirectional TVS Array	8-Micro	1.26	1.05	.84
NUP6101DMR2	NUP6101DMR2OSTR-ND	Unidirectional TVS Array	8-Micro		2184.00/4,000	
NZF220DFT1	NZF220DFT1OSCT-ND	EMI Filter with ESD Protection	SOT-353	.63	.48	.36
NZF220DFT1	NZF220DFT1OSTR-ND	EMI Filter with ESD Protection	SOT-353		615.00/3,000	
NZF220TT1	NZF220TT1OSCT-ND	EMI Filter with ESD Protection	SOT-416	.53	.43	.30
NZF220TT1	NZF220TT1OSTR-ND	EMI Filter with ESD Protection	SOT-416		330.00/3,000	
NZMM7V0T4	NZMM7V0T4OSCT-ND	EMI Filter w/ESD Protection ***NEW!***	24-MLF	1.70	1.36	1.02
NZMM7V0T4	NZMM7V0T4OSTR-ND	EMI Filter w/ESD Protection ***NEW!***	24-MLF		3480.00/4,000	
SG3525AN	SG3525ANOS-ND	PWM Control Circuit	16-Dip	.98	.82	.66
SMS05T1	SMS05T1OSCT-ND	350W, 5V, Quad Transient Volt. Suppressor	SC-74-6	.35	.28	.21
SMS05T1	SMS05T1OSTR-ND	350W, 5V, Quad Transient Volt. Suppressor	SC-74-6		357.00/3,000	
STF202-22T1	STF202-22T1OSCT-ND	USB Filter w/ESD Protection ***NEW!***	6-TSOP	.56	.42	.32
STF202-22T1	STF202-22T1OSTR-ND	USB Filter w/ESD Protection ***NEW!***	6-TSOP		546.00/3,000	
STF202-22T1G	STF202-22T1GOSCT-ND	USB Filter w/ESD Protection ***NEW!***	6-TSOP	.56	.42	.32
STF202-22T1G	STF202-22T1GOSTR-ND	USB Filter w/ESD Protection ***NEW!***	6-TSOP		546.00/3,000	
TCA0372DP1	TCA0372DP1OS-ND	1.0A, Dual Power Op Amp	8-Dip	.98	.82	.66
TCA0372DWR2	TCA0372DWR2OSCT-ND	1.0A, Dual Power Op Amp	16-SOIC	.81	.68	.54
TCA0372DWR2	TCA0372DWR2OSTR-ND	1.0A, Dual Power Op Amp	16-SOIC		357.00/1,000	
TDA1085C	TDA1085COS-ND	Universal Motor Speed Controller	16-Dip	1.68	1.34	1.01
TL431ACDR2	TL431ACDR2OSCT-ND	2.5V, Programmable Precision Ref.	8-SOIC	.30	.23	.18
TL431ACDR2	TL431ACDR2OSTR-ND	2.5V, Programmable Precision Ref.	8-SOIC		322.50/2,500	
TL431ACLP	TL431ACLPOS-ND	2.5V, Programmable Precision Ref.	TO-92	.42	.34	.24
TL431ACLPRA	TL431ACLPRAOS-ND	2.5V, Programmable Precision Ref.	TO-92	.42	.34	.24
TL431AIDR2	TL431AIDR2OSCT-ND	2.5V, Programmable Precision Ref.	8-SOIC	.33	.25	.19
TL431AIDR2	TL431AIDR2OSTR-ND	2.5V, Programmable Precision Ref.	8-SOIC		280.00/2,500	
TL431AILP	TL431AILPOS-ND	2.5V, Programmable Precision Ref.	TO-92	.41	.34	.25
TL431AILPRA	TL431AILPRAOS-ND	2.5V, Programmable Precision Ref.	TO-92	.41	.34	.25
TL431BIDR2	TL431BIDR2OSCT-ND	2.5V, Programmable Precision Ref.	8-SOIC	.51	.39	.29
TL431BIDR2	TL431BIDR2OSTR-ND	2.5V, Programmable Precision Ref.	8-SOIC		417.50/2,500	
TL431CDR2	TL431CDR2OSCT-ND	2.5V, Programmable Precision Ref.	8-SOIC	.23	.18	.14
TL431CDR2	TL431CDR2OSTR-ND	2.5V, Programmable Precision Ref.	8-SOIC		247.50/2,500	
TL431CLP	TL431CLPOS-ND	2.5V, Programmable Precision Ref.	TO-92	.38	.31	.22
TL431IDR2	TL431IDR2OSCT-ND	2.5V, Programmable Precision Ref.	8-SOIC	.32	.24	.18
TL431IDR2	TL431IDR2OSTR-ND	2.5V, Programmable Precision Ref.	8-SOIC		337.50/2,500	
TL431ILP	TL431ILPOS-ND	2.5V, Programmable Precision Ref.	TO-92	.47	.38	.29
TL431ILPRA	TL431ILPRAOS-ND	2.5V, Programmable Precision Ref.	TO-92	.47	.38	.29
TL431IP	TL431IPOS-ND	2.5V, Programmable Precision Ref.	8-Dip	.53	.42	.32
TL494CN	TL494CNOS-ND	Switchmode™ Pulse Width Modulation Control Circuit	16-Dip	.93	.71	.53
UAA2016P	UAA2016POS-ND	Zero Volt. Switch Power Controller	8-Dip	1.38	1.10	.83
UC2842AN	UC2842ANOS-ND	High Perf. Current Mode Controller	8-Dip	.86	.65	.49
UC2843ADR2	UC2843ADR2OSCT-ND	High Perf. Current Mode Controller	14-SOIC	.58	.49	.39
UC2843ADR2	UC2843ADR2OSTR-ND	High Perf. Current Mode Controller	14-SOIC		625.00/2,500	
UC2843AN	UC2843ANOS-ND	High Perf. Current Mode Controller	8-Dip	.86	.65	.49
UC2844N	UC2844NOS-ND	High Perf. Current Mode Controller	8-Dip	.86	.65	.49
UC2845N	UC2845NOS-ND	High Perf. Current Mode Controller	8-Dip	.77	.58	.44
UC3842ADR2	UC3842ADR2OSCT-ND	High Perf. Current Mode Controller	14-SOIC	.56	.47	.38
UC3842ADR2	UC3842ADR2OSTR-ND	High Perf. Current Mode Controller	14-SOIC		607.50/2,500	
UC3842AN	UC3842ANOS-ND	High Perf. Current Mode Controller	8-Dip	.79	.60	.45
UC3842BN	UC3842BNOS-ND	High Perf. Current Mode Controller	8-Dip	.70	.53	.40
UC3843ADR2	UC3843ADR2OSCT-ND	High Perf. Current Mode Controller	14-SOIC	.56	.47	.38
UC3843ADR2	UC3843ADR2OSTR-ND	High Perf. Current Mode Controller	14-SOIC		607.50/2,500	
UC3843AN	UC3843ANOS-ND	High Perf. Current Mode Controller	8-Dip	.75	.56	.43
UC3843BN	UC3843BNOS-ND	High Perf. Current Mode Controller	8-Dip	.70	.53	.40
UC3843BVD1R2	UC3843BVD1R2OSCT-ND	High Perf. Current Mode Controller	8-SOIC	1.29	1.08	.86
UC3843BVD1R2	UC3843BVD1R2OSTR-ND	High Perf. Current Mode Controller	8-SOIC		1397.50/2,500	
UC3843BVDR2	UC3843BVDR2OSCT-ND	High Perf. Current Mode Controller	14-SOIC	1.29	1.08	.86
UC3843BVDR2	UC3843BVDR2OSTR-ND	High Perf. Current Mode Controller	14-SOIC		1397.50/2,500	
UC3844BD	UC3844BDOS-ND	High Perf. Current Mode Controller	14-SOIC	.68	.51	.39
UC3844N	UC3844NOS-ND	High Perf. Current Mode Controller	8-Dip	.70	.53	.40
UC3845DR2	UC3845DR2OSCT-ND	High Perf. Current Mode Controller	14-SOIC	.51	.43	.34
UC3845DR2	UC3845DR2OSTR-ND	High Perf. Current Mode Controller	14-SOIC		550.00/2,500	
UC3845N	UC3845NOS-ND	High Perf. Current Mode Controller	8-Dip	.70	.53	.40

STMicroelectronics 74AC/ACT/ALV SERIES

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
74AC02B	497-1324-5-ND	Quad 2-Input NOR Gate	14-Dip	.51	.39	.29
74AC02MTR	497-1014-1-ND	Quad 2-Input NOR Gate	14-SOIC	.77	.62	.46
74AC02MTR	497-1014-2-ND	Quad 2-Input NOR Gate	14-SOIC		605.00/2,500	
74AC04MTR	497-1015-1-ND	Hex Inverter	14-SOIC	.55	.44	.33
74AC04MTR	497-1015-2-ND	Hex Inverter	14-SOIC		412.50/2,500	
74AC08B	497-1325-5-ND	Quad 2-Input AND Gate	14-Dip	.51	.39	.29
74AC08MTR	497-1016-1-ND	Quad 2-Input AND Gate	14-SOIC	.55	.44	.33
74AC08MTR	497-1016-2-ND	Quad 2-Input AND Gate	14-SOIC		412.50/2,500	
74AC14MTR	497-1019-1-ND	Hex Schmitt Inverter	14-SOIC	.55	.44	.33
74AC14MTR	497-1019-2-ND	Hex Schmitt Inverter	14-SOIC		412.50/2,500	
74AC32MTR	497-1026-1-ND	Quad 2-Input OR Gate	14-SOIC	.48	.38	.29
74AC32MTR	497-1026-2-ND	Quad 2-Input OR Gate	14-SOIC		357.50/2,500	
74AC74B	497-1329-5-ND	Dual D-Type F/F with Preset and Clear	14-Dip	.51	.39	.29
74AC74MTR	497-1030-1-ND	Dual D-Type F/F with Preset and Clear	14-SOIC	.48	.38	.29
74AC74MTR	497-1030-2-ND	Dual D-Type F/F with Preset and Clear	14-SOIC		357.50/2,500	

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
74AC125MTR	497-1017-1-ND	Tri-State Quad Bus Buffer	14-SOIC	.55	.44	.33
74AC125MTR	497-1017-2-ND	Tri-State Quad Bus Buffer	14-SOIC		412.50/2,500	
74AC138MTR	497-1018-1-ND	3-8 Inverting Line Decoder	16-SOIC	.60	.48	.33
74AC138MTR	497-1018-2-ND	3-8 Inverting Line Decoder	16-SOIC		450.00/2,500	
74AC240MTR	497-2911-1-ND	Tri-State Octal Bus Buffer	20-SOIC	.68	.54	.41
74AC240MTR	497-2911-2-ND	Tri-State Octal Bus Buffer	20-SOIC		233.00/1,000	
74AC240TTR	497-2912-1-ND	Tri-State Octal Bus Buffer	20-TSSOP	.65	.52	.36
74AC240TTR	497-2912-2-ND	Tri-State Octal Bus Buffer	20-TSSOP		487.50/2,500	
74AC244MTR	497-1023-1-ND	Tri-State Octal Bus Buffer	20-SOIC	.65	.52	.36
74AC244MTR	497-1023-2-ND	Tri-State Octal Bus Buffer	20-SOIC		208.00/1,000	
74AC244TTR	497-2913-1-ND	Tri-State Octal Bus Buffer	20-TSSOP	.65	.52	.36
74AC244TTR	497-2913-2-ND	Tri-State Octal Bus Buffer	20-TSSOP		487.50/2,500	
74AC245B	497-1327-5-ND	Tri-State Octal Bus Transceiver	20-Dip	.72	.58	.44
74AC245MTR	497-1024-1-ND	Tri-State Octal Bus Transceiver	20-SOIC	.65	.52	.36
74AC245MTR	497-1024-2-ND	Tri-State Octal Bus Transceiver	20-SOIC		208.00/1,000	
74AC245TTR	497-2914-1-ND	Tri-State Octal Bus Transceiver	20-TSSOP	.65	.52	.36
74AC245TTR	497-2914-2-ND	Tri-State Octal Bus Transceiver	20-TSSOP		487.50/2,500	
74AC257MTR	497-1025-1-ND	Tri-State Quad 2-Channel Mux	16-SOIC	.65	.52	.36
74AC257MTR	497-1025-2-ND	Tri-State Quad 2-Channel Mux	16-SOIC		487.50/2,500	
74AC374B	497-1328-5-ND	Tri-State Octal D-Type Flip-Flop	20-Dip	.72	.58	.44
74AC374MTR	497-1027-1-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.81	.65	.49
74AC374MTR	497-1027-2-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC		279.00/1,000	
74AC541MTR	497-2915-1-ND	Tri-State Octal Bus Buffer	20-SOIC	.65	.52	.36
74AC541MTR	497-2915-2-ND	Tri-State Octal Bus Buffer	20-SOIC		208.00/1,000	
74AC573MTR	497-1028-1-ND	Tri-State Octal D-Type Latch	20-SOIC	.65	.52	.36
74AC573MTR	497-1028-2-ND	Tri-State Octal D-Type Latch	20-SOIC		208.00/1,000	
74AC574MTR	497-1029-1-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.65	.52	.36
74AC574MTR	497-1029-2-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC		208.00/1,000	
74AC16244TTR	497-1020-1-ND	Tri-State 16-Bit Bus Buffer	48-TSSOP	1.35	1.17	.90
74AC16244TTR	497-1020-2-ND	Tri-State 16-Bit Bus Buffer	48-TSSOP		1044.00/2,000	
74ACT02B	497-1330-5-ND	Quad 2-Input NOR Gate	14-Dip	.51	.39	.29
74ACT02MTR	497-1031-1-ND	Quad 2-Input NOR Gate	14-SOIC	.49	.30	.23
74ACT02MTR	497-1031-2-ND	Quad 2-Input NOR Gate	14-SOIC		320.00/2,500	
74ACT14MTR	497-1034-1-ND	Hex Schmitt Inverter	14-SOIC	.55	.44	.33
74ACT14MTR	497-1034-2-ND	Hex Schmitt Inverter	14-SOIC		412.50/2,500	
74ACT138MTR	497-1033-1-ND	3-8 Inverting Line Decoder	16-SOIC	.70	.56	.42
74ACT138MTR	497-1033-2-ND	3-8 Inverting Line Decoder	16-SOIC		525.00/2,500	
74ACT240MTR	497-1040-1-ND	Tri-State Octal Bus Buffer	20-SOIC	.60	.48	.33
74ACT240MTR	497-1040-2-ND	Tri-State Octal Bus Buffer	20-SOIC		192.00/1,000	
74ACT244B	497-1331-5-ND	Tri-State Octal Bus Buffer	20-Dip	1.16	1.01	.78
74ACT244MTR	497-1041-1-ND	Tri-State Octal Bus Buffer	20-SOIC	.65	.52	.36
74ACT244MTR	497-1041-2-ND	Tri-State Octal Bus Buffer	20-SOIC		208.00/1,000	
74ACT244TTR	497-2916-1-ND	Tri-State Octal Bus Buffer	20-TSSOP	.65	.52	.36
74ACT244TTR	497-2916-2-ND	Tri-State Octal Bus Buffer	20-TSSOP		487.50/2,500	
74ACT257MTR	497-1042-1-ND	Tri-State Quad 2-Channel Mux	16-SOIC	.60	.48	.36
74ACT257MTR	497-1042-2-ND	Tri-State Quad 2-Channel Mux	16-SOIC		450.00/2,500	
74ACT273B	497-1332-5-ND	Octal D-Type Flip-Flop with Clear	20-Dip	.72	.58	.44
74ACT273MTR	497-1043-1-ND	Octal D-Type Flip-Flop with Clear	20-SOIC	.55	.40	.30
74ACT273MTR	497-1043-2-ND	Octal D-Type Flip-Flop with Clear	20-SOIC		176.00/1,000	
74ACT299TTR	497-4140-1-ND	8-Bit PIPO Shift Register ***NEW!***	20-TSSOP	.68	.54	.41
74ACT299TTR	497-4140-2-ND	8-Bit PIPO Shift Register ***NEW!***	20-TSSOP		535.00/2,500	
74ACT374TTR	497-4141-1-ND	Tri-State Octal D-Type F/F ***NEW!***	20-TSSOP	.68	.54	.41
74ACT374TTR	497-4141-2-ND	Tri-State Octal D-Type F/F ***NEW!***	20-TSSOP		535.00/2,500	
74ACT541MTR	497-1044-1-ND	Tri-State Octal Bus Buffer	20-SOIC	.65	.52	.36
74ACT541MTR	497-1044-2-ND	Tri-State Octal Bus Buffer	20-SOIC		208.00/1,000	
74ACT573B	497-1334-5-ND	Tri-State Octal D-Type Latch	20-Dip	.72	.58	.44
74ACT573MTR	497-1045-1-ND	Tri-State Octal D-Type Latch	20-SOIC	.65	.52	.36
74ACT573MTR	497-1045-2-ND	Tri-State Octal D-Type Latch	20-SOIC		208.00/1,000	
74ACT1284MTR	497-1032-1-ND	High Speed IEEE 1284 Transceiver	20-SOIC	.55	.44	.33
74ACT1284MTR	497-1032-2-ND	High Speed IEEE 1284 Transceiver	20-SOIC		176.00/1,000	
74ACT16244TTR	497-1035-1-ND	Tri-State 16-Bit Bus Buffer	48-TSSOP	1.35	1.17	.90
74ACT16244TTR	497-1035-2-ND	Tri-State 16-Bit Bus Buffer	48-TSSOP		1044.00/2,000	
74ACT16245TTR	497-1036-1-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	1.35	1.17	.90
74ACT16245TTR	497-1036-2-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP		1044.00/2,000	
74ACT16373TTR	497-1037-1-ND	Tri-State 16-Bit D-Type Latch	48-TSSOP	1.35	1.17	.90
74ACT16373TTR	497-1037-2-ND	Tri-State 16-Bit D-Type Latch	48-TSSOP		1044.00/2,000	
74ACT16374TTR	497-1038-1-ND	Tri-State 16-Bit D-Type Flip-Flop	48-TSSOP	1.35	1.17	.90
74ACT16374TTR	497-1038-2-ND	Tri-State 16-Bit D-Type Flip-Flop	48-TSSOP		1044.00/2,000	
74ACT16541TTR	497-1039-1-ND	Tri-State 16-Bit Bus Buffer	48-TSSOP	1.35	1.17	.90
74ACT16541TTR	497-1039-2-ND	Tri-State 16-Bit Bus Buffer	48-TSSOP		1044.00/2,000	
74ALVCH16244TTR	497-1046-1-ND	LV CMOS 16-Bit Bus Buffer	48-TSSOP	1.86	1.55	1.31
74ALVCH16244TTR	497-1046-2-ND	LV CMOS 16-Bit Bus Buffer	48-TSSOP		1674.00/2,000	
74ALVCH16374TTR	497-1047-1-ND	LV CMOS 16-Bit D-Type Flip-Flop	48-TSSOP	1.86	1.55	1.31
74ALVCH16374TTR	497-1047-2-ND	LV CMOS 16-Bit D-Type Flip-Flop	48-TSSOP		1674.00/2,000	
74ALVCH32245LBR	497-3705-1-ND	Tri-St. Low Volt., CMOS 32-Bit Bus Transceiver	96-LFBGA	6.33	5.78	4.57
74ALVCH32245LBR	497-3705-2-ND	Tri-St. Low Volt., CMOS 32-Bit Bus Transceiver	96-LFBGA		7012.00/2,000	
74ALVCR162245TTR	497-2382-1-ND	3.6V, 16-Bit Transceiver	48-TSSOP	1.80	1.50	1.26
74ALVCR162245TTR	497-2382-2-ND	3.6V, 16-Bit Transceiver	48-TSSOP		1620.00/2,000	

STMicroelectronics 74HC/HCT/HCU SERIES

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
M74HC00B1R	497-1745-5-ND	Quad 2-Input NAND Gate	14-Dip	.55	.34	.26
M74HC00RM13TR	497-1746-1-ND	Quad 2-Input NAND Gate	14-SOIC	.49	.30	.23
M74HC00RM13TR	497-1746-2-ND	Quad 2-Input NAND Gate	14-SOIC		320.00/2,500	
M74HC02B1R	497-1747-5-ND	Quad 2-Input NOR Gate	14-Dip	.55	.34	.26
M74HC02RM13TR	497-1748-1-ND	Quad 2-Input NOR Gate	14-SOIC	.49	.30	.23
M74HC02RM13TR	497-1748-2-ND	Quad 2-Input NOR Gate	14-SOIC		320.00/2,500	
M74HC03B1R	497-1749-5-ND	Quad 2-Input Open Drain NAND Gate	14-Dip	.55	.34	.26
M74HC03RM13TR	497-1750-1-ND	Quad 2-Input Open Drain NAND Gate	14-SOIC	.49	.30	.23
M74HC03RM13TR	497-1750-2-ND	Quad 2-Input Open Drain NAND Gate	14-SOIC		320.00/2,500	
M74HC04B1R	497-1751-5-ND	Hex Inverter	14-Dip	.55	.34	.26
M74HC04RM13TR	497-1752-1-ND	Hex Inverter	14-SOIC	.49	.30	.23
M74HC04RM13TR	497-1752-2-ND	Hex Inverter	14-SOIC		320.00/2,500	
M74HC05B1R	497-1753-5-ND	Hex Inverter, Open Drain	14-Dip	.55	.43	.31
M74HC05RM13TR	497-1754-1-ND	Hex Inverter, Open Drain	14-SOIC	.49	.30	.23
M74HC05RM13TR	497-1754-2-ND	Hex Inverter, Open Drain	14-SOIC		320.00/2,500	
M74HC08B1R	497-1755-5-ND	Quad 2-Input AND Gate	14-Dip	.55	.34	.26
M74HC08RM13TR	497-1756-1-ND	Quad 2-Input AND Gate	14-SOIC	.49	.30	.23
M74HC08RM13TR	497-1756-2-ND	Quad 2-Input AND Gate	14-SOIC		320.00/2,500	
M74HC10B1R	497-1759-5-ND	Triple 3-Input NAND Gate	14-Dip	.48	.35	.26
M74HC10RM13TR	497-1760-1-ND	Triple 3-Input NAND Gate	14-SOIC	.49	.30	.23

(Continued)

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STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
M74HC10RM13TR	497-1760-2-ND	Triple 3-Input NAND Gate	14-SOIC		320.00/2,500	
M74HC11B1R	497-1761-5-ND	Triple 3-Input AND Gate	14-Dip	.54	.44	.33
M74HC11RM13TR	497-1762-1-ND	Triple 3-Input AND Gate	14-SOIC	.49	.30	.23
M74HC11RM13TR	497-1762-2-ND	Triple 3-Input AND Gate	14-SOIC		320.00/2,500	
M74HC14B1R	497-1777-5-ND	Hex Schmitt Inverter	14-Dip	.55	.34	.26
M74HC14RM13TR	497-1778-1-ND	Hex Schmitt Inverter	14-SOIC	.49	.30	.23
M74HC14RM13TR	497-1778-2-ND	Hex Schmitt Inverter	14-SOIC		320.00/2,500	
M74HC20B1R	497-1795-5-ND	Dual 4-Input NAND Gate	14-Dip	.55	.34	.26
M74HC20RM13TR	497-1796-1-ND	Dual 4-Input NAND Gate	14-SOIC	.49	.30	.23
M74HC20RM13TR	497-1796-2-ND	Dual 4-Input NAND Gate	14-SOIC		320.00/2,500	
M74HC32B1R	497-1819-5-ND	Quad 2-Input OR Gate	14-Dip	.48	.35	.26
M74HC32RM13TR	497-1820-1-ND	Quad 2-Input OR Gate	14-SOIC	.49	.30	.23
M74HC32RM13TR	497-1820-2-ND	Quad 2-Input OR Gate	14-SOIC		320.00/2,500	
M74HC42B1R	497-1858-5-ND	BCD-to-Decimal Decoder	16-Dip	.86	.69	.52
M74HC42RM13TR	497-1859-1-ND	BCD-to-Decimal Decoder	16-SOIC	.72	.58	.44
M74HC42RM13TR	497-1859-2-ND	BCD-to-Decimal Decoder	16-SOIC		540.00/2,500	
M74HC51B1R	497-1870-5-ND	Dual 2 Wide 2-In. AND/OR Invert Gate	14-Dip	.63	.51	.38
M74HC51RM13TR	497-1871-1-ND	Dual 2 Wide 2-In. AND/OR Invert Gate	14-SOIC	.55	.34	.26
M74HC51RM13TR	497-1871-2-ND	Dual 2 Wide 2-In. AND/OR Invert Gate	14-SOIC		362.50/2,500	
M74HC73RM13TR	497-1884-1-ND	Dual J-K F/F with Preset and Clear	14-SOIC	.49	.30	.23
M74HC73RM13TR	497-1884-2-ND	Dual J-K F/F with Preset and Clear	14-SOIC		320.00/2,500	
M74HC74B1R	497-1885-5-ND	Dual D-Type F/F w/Preset and Clear	14-Dip	.55	.34	.26
M74HC74RM13TR	497-1886-1-ND	Dual D-Type F/F w/Preset and Clear	14-SOIC	.55	.34	.26
M74HC74RM13TR	497-1886-2-ND	Dual D-Type F/F w/Preset and Clear	14-SOIC		362.50/2,500	
M74HC85B1R	497-1887-5-ND	4-Bit Magnitude Comparator	16-Dip	.60	.44	.33
M74HC85RM13TR	497-1888-1-ND	4-Bit Magnitude Comparator	16-SOIC	.55	.40	.30
M74HC85RM13TR	497-1888-2-ND	4-Bit Magnitude Comparator	16-SOIC		412.50/2,500	
M74HC86B1R	497-1889-5-ND	Quad Exclusive OR Gate	14-Dip	.65	.47	.36
M74HC86M1R	497-1890-5-ND	Quad Exclusive OR Gate	14-SOIC	.90	.72	.54
M74HC123B1R	497-1763-5-ND	Dual Retriggerable Mono Multivibrator	16-Dip	.65	.47	.36
M74HC123RM13TR	497-1764-1-ND	Dual Retriggerable Mono Multivibrator	16-SOIC	.60	.44	.33
M74HC123RM13TR	497-1764-2-ND	Dual Retriggerable Mono Multivibrator	16-SOIC		450.00/2,500	
M74HC125B1R	497-1765-5-ND	Tri-State Quad Bus Buffer	14-Dip	.55	.34	.26
M74HC125RM13TR	497-1766-1-ND	Tri-State Quad Bus Buffer	14-SOIC	.49	.30	.23
M74HC125RM13TR	497-1766-2-ND	Tri-State Quad Bus Buffer	14-SOIC		320.00/2,500	
M74HC132B1R	497-1767-5-ND	Quad 2-Input Schmitt NAND Gate	14-Dip	.55	.40	.30
M74HC132RM13TR	497-1768-1-ND	Quad 2-Input Schmitt NAND Gate	14-SOIC	.49	.30	.23
M74HC132RM13TR	497-1768-2-ND	Quad 2-Input Schmitt NAND Gate	14-SOIC		320.00/2,500	
M74HC133B1R	497-1769-5-ND	13-Input NAND Gate	16-Dip	.54	.44	.33
M74HC133RM13TR	497-1770-1-ND	13-Input NAND Gate	16-SOIC	.59	.47	.36
M74HC133RM13TR	497-1770-2-ND	13-Input NAND Gate	16-SOIC		462.50/2,500	
M74HC138B1R	497-1771-5-ND	3-to-8 Line Decoder, Inverting	16-Dip	.60	.44	.33
M74HC138RM13TR	497-1772-1-ND	3-to-8 Line Decoder, Inverting	16-SOIC	.48	.35	.26
M74HC138RM13TR	497-1772-2-ND	3-to-8 Line Decoder, Inverting	16-SOIC		357.50/2,500	
M74HC139B1R	497-1773-5-ND	Dual 2-to-4 Decoder/Demux	16-Dip	.59	.47	.36
M74HC139RM13TR	497-1774-1-ND	Dual 2-to-4 Decoder/Demux	16-SOIC	.48	.35	.26
M74HC139RM13TR	497-1774-2-ND	Dual 2-to-4 Decoder/Demux	16-SOIC		357.50/2,500	
M74HC148RM13TR	497-1776-1-ND	8-to-3 Line Priority Encoder	16-SOIC	.48	.35	.26
M74HC148RM13TR	497-1776-2-ND	8-to-3 Line Priority Encoder	16-SOIC		357.50/2,500	
M74HC151B1R	497-1779-5-ND	8-Channel Multiplexer	16-Dip	.54	.44	.33
M74HC151RM13TR	497-1780-1-ND	8-Channel Multiplexer	16-SOIC	.55	.40	.30
M74HC151RM13TR	497-1780-2-ND	8-Channel Multiplexer	16-SOIC		412.50/2,500	
M74HC153B1R	497-1781-5-ND	Dual 4-Channel Multiplexer	16-Dip	.60	.48	.36
M74HC153RM13TR	497-1782-1-ND	Dual 4-Channel Multiplexer	16-SOIC	.55	.44	.30
M74HC153RM13TR	497-1782-2-ND	Dual 4-Channel Multiplexer	16-SOIC		412.50/2,500	
M74HC155RM13TR	497-1784-1-ND	Dual 2-to-4 and 3-to-8 Line Decoder	16-SOIC	.55	.40	.30
M74HC155RM13TR	497-1784-2-ND	Dual 2-to-4 and 3-to-8 Line Decoder	16-SOIC		412.50/2,500	
M74HC157RM13TR	497-1786-1-ND	Quad 2-Channel Multiplexer	16-SOIC	.48	.35	.26
M74HC157RM13TR	497-1786-2-ND	Quad 2-Channel Multiplexer	16-SOIC		357.50/2,500	
M74HC161B1R	497-1787-5-ND	Sync. Presettable 4-Bit Counter	16-Dip	.65	.47	.36
M74HC161RM13TR	497-1788-1-ND	Sync. Presettable 4-Bit Counter	16-SOIC	.48	.35	.26
M74HC161RM13TR	497-1788-2-ND	Sync. Presettable 4-Bit Counter	16-SOIC		357.50/2,500	
M74HC164B1R	497-1789-5-ND	8-Bit SIPO Shift Register	14-Dip	.60	.44	.33
M74HC165B1R	497-1790-5-ND	8-Bit PISO Shift Register	16-Dip	.60	.44	.33
M74HC166RM13TR	497-1791-1-ND	8-Bit PISO Shift Register	16-SOIC	.48	.35	.26
M74HC166RM13TR	497-1791-2-ND	8-Bit PISO Shift Register	16-SOIC		357.50/2,500	
M74HC174B1R	497-1792-5-ND	Hex D-Type Flip-Flop with Clear	16-Dip	.55	.40	.30
M74HC174TTR	497-4274-1-ND	Hex D-Type Flip-Flop with Clear **NEW!**	16-TSSOP	.60	.48	.36
M74HC174TTR	497-4274-2-ND	Hex D-Type Flip-Flop with Clear **NEW!**	16-TSSOP		450.00/2,500	
M74HC175B1R	497-1793-5-ND	Quad D-Type Flip-Flop with Clear	16-Dip	.68	.54	.41
M74HC175RM13TR	497-1794-1-ND	Quad D-Type Flip-Flop with Clear	16-SOIC	.48	.35	.26
M74HC175RM13TR	497-1794-2-ND	Quad D-Type Flip-Flop with Clear	16-SOIC		357.50/2,500	
M74HC221B1R	497-1797-5-ND	Dual Mono Multivibrator	16-Dip	.72	.58	.44
M74HC221RM13TR	497-1798-1-ND	Dual Mono Multivibrator	16-SOIC	.68	.54	.41
M74HC221RM13TR	497-1798-2-ND	Dual Mono Multivibrator	16-SOIC		535.00/2,500	
M74HC238B1R	497-1799-5-ND	3-to-8 Line Decoder	16-Dip	.77	.62	.46
M74HC238RM13TR	497-1800-1-ND	3-to-8 Line Decoder	16-SOIC	.48	.35	.26
M74HC238RM13TR	497-1800-2-ND	3-to-8 Line Decoder	16-SOIC		357.50/2,500	
M74HC240B1R	497-1801-5-ND	Tri-State Octal Bus Buffer, Inverted	20-Dip	.60	.44	.33
M74HC240RM13TR	497-1802-1-ND	Tri-State Octal Bus Buffer, Inverted	20-SOIC	.55	.44	.30
M74HC240RM13TR	497-1802-2-ND	Tri-State Octal Bus Buffer, Inverted	20-SOIC		176.00/1,000	
M74HC244B1R	497-1803-5-ND	Tri-State Octal Bus Buffer, Non-Inverted	20-Dip	.60	.44	.33
M74HC244RM13TR	497-1804-1-ND	Tri-State Octal Bus Buffer, Non-Inverted	20-SOIC	1.08	.87	.60
M74HC244RM13TR	497-1804-2-ND	Tri-State Octal Bus Buffer, Non-Inverted	20-SOIC		372.00/1,000	
M74HC245B1R	497-1805-5-ND	Tri-State Octal Bus Transceiver, Non-Inverted	20-Dip	.60	.44	.33
M74HC245RM13TR	497-1806-1-ND	Tri-State Octal Bus Transceiver, Non-Inverted	20-SOIC	.55	.44	.30
M74HC245RM13TR	497-1806-2-ND	Tri-State Octal Bus Transceiver, Non-Inverted	20-SOIC		176.00/1,000	
M74HC251B1R	497-1807-5-ND	Tri-State 8-Channel Mux	16-Dip	.55	.44	.30
M74HC251RM13TR	497-1808-1-ND	Tri-State 8-Channel Mux	16-SOIC	.55	.44	.30
M74HC251RM13TR	497-1808-2-ND	Tri-State 8-Channel Mux	16-SOIC		412.50/2,500	
M74HC253RM13TR	497-1809-1-ND	Tri-State Dual 4-Channel Mux	16-SOIC	.48	.35	.26
M74HC253RM13TR	497-1809-2-ND	Tri-State Dual 4-Channel Mux	16-SOIC		357.50/2,500	
M74HC257B1R	497-1810-5-ND	Tri-State Quad 2-Channel Mux	16-Dip	.68	.54	.41
M74HC257RM13TR	497-1811-1-ND	Tri-State Quad 2-Channel Mux	16-SOIC	.48	.35	.26
M74HC257RM13TR	497-1811-2-ND	Tri-State Quad 2-Channel Mux	16-SOIC		357.50/2,500	
M74HC259B1R	497-1812-5-ND	8-Bit Addressable Latch	16-Dip	1.05	.91	.72
M74HC273B1R	497-1813-5-ND	Octal D-Type Flip-Flop w/Clear	20-Dip	.72	.58	.45
M74HC273RM13TR	497-1814-1-ND	Octal D-Type Flip-Flop w/Clear	20-SOIC	.55	.40	.30
M74HC273RM13TR	497-1814-2-ND	Octal D-Type Flip-Flop w/Clear	20-SOIC		176.00/1,000	
M74HC280B1R	497-1815-5-ND	9-Bit Parity Generator	14-Dip	.54	.44	.33
M74HC280RM13TR	497-1816-1-ND	9-Bit Parity Generator	14-SOIC	.48	.35	.26
M74HC280RM13TR	497-1816-2-ND	9-Bit Parity Generator	14-SOIC		357.50/2,500	
M74HC299B1R	497-1817-5-ND	8-Bit PIPO Shift Register with Async. Clear	20-Dip	.68	.54	.41
M74HC299RM13TR	497-1818-1-ND	8-Bit PIPO Shift Register with Async. Clear	20-SOIC	.90	.72	.54
M74HC299RM13TR	497-1818-2-ND	8-Bit PIPO Shift Register with Async. Clear	20-SOIC		310.00/1,000	
M74HC365B1R	497-1821-5-ND	Tri-St. Hex Bus Buffer	16-Dip	.63	.51	.38
M74HC365RM13TR	497-1822-1-ND	Tri-St. Hex Bus Buffer	16-SOIC	.49	.30	.23
M74HC365RM13TR	497-1822-2-ND	Tri-St. Hex Bus Buffer	16-SOIC		320.00/2,500	
M74HC367M1R	497-1823-5-ND	Tri-St. Hex Bus Buffer	16-SOIC	.99	.80	.60
M74HC367TTR	497-1824-1-ND	Tri-St. Hex Bus Buffer	16-TSSOP	.49	.30	.23
M74HC367TTR	497-1824-2-ND	Tri-St. Hex Bus Buffer	16-TSSOP		320.00/2,500	
M74HC368RM13TR	497-1826-1-ND	Tri-St. Hex Bus Buffer	16-SOIC	.49	.30	.23
M74HC368RM13TR	497-1826-2-ND	Tri-St. Hex Bus Buffer	16-SOIC		320.00/2,500	
M74HC373B1R	497-1827-5-ND	Tri-St. Octal D-Type Latch	20-Dip	.68	.54	.41
M74HC373RM13TR	497-1828-1-ND	Tri-St. Octal D-Type Latch	20-SOIC	.55	.40	.30
M74HC373RM13TR	497-1828-2-ND	Tri-St. Octal D-Type Latch	20-SOIC		176.00/1,000	
M74HC374B1R	497-1829-5-ND	Tri-St. Octal D-Type Flip-Flop	20-Dip	.60	.44	.33
M74HC374RM13TR	497-1830-1-ND	Tri-St. Octal D-Type Flip-Flop	20-SOIC	.55	.44	.33
M74HC374RM13TR	497-1830-2-ND	Tri-St. Octal D-Type Flip-Flop	20-SOIC		176.00/1,000	
M74HC377RM13TR	497-1832-1-ND	Octal D-Type Flip-Flop	20-SOIC	.55	.44	.33
M74HC377RM13TR	497-1832-2-ND	Octal D-Type Flip-Flop	20-SOIC		176.00/1,000	
M74HC393B1R	497-1833-5-ND	Dual Binary Counter	14-Dip	.72	.58	.44
M74HC393RM13TR	497-1834-1-ND	Dual Binary Counter	14-SOIC	.48	.35	.26
M74HC393RM13TR	497-1834-2-ND	Dual Binary Counter	14-SOIC		357.50/2,500	
M74HC541B1R	497-1873-5-ND	Tri-St. Octal Bus Buffer	20-Dip	.72	.58	.44
M74HC541RM13TR	497-1874-1-ND	Tri-St. Octal Bus Buffer	20-SOIC	.63	.51	.38
M74HC541RM13TR	497-1874-2-ND	Tri-St. Octal Bus Buffer	20-SOIC		202.00/1,000	
M74HC573B1R	497-1875-5-ND	Tri-St. Octal D-Type Latch	20-Dip	.68	.54	.41
M74HC573RM13TR	497-1876-1-ND	Tri-St. Octal D-Type Latch	20-SOIC	.55	.40	.30
M74HC573RM13TR	497-1876-2-ND	Tri-St. Octal D-Type Latch	20-SOIC		176.00/1,000	
M74HC574B1R	497-1877-5-ND	Tri-St. Octal D-Type Flip-Flop	20-Dip	.60	.44	.33
M74HC574RM13TR	497-1878-1-ND	Tri-St. Octal D-Type Flip-Flop	20-SOIC	.55	.40	.30
M74HC574RM13TR	497-1878-2-ND	Tri-St. Octal D-Type Flip-Flop	20-SOIC		176.00/1,000	
M74HC590B1R	497-1879-5-ND	Tri-St. 8-Binary Counter Register	16-Dip	.63	.51	.38
M74HC595B1R	497-2986-5-ND	Tri-St. 8-Bit Shift Register	16-Dip	.68	.54	.41
M74HC595RM13TR	497-1880-1-ND	Tri-St. 8-Bit Shift Register	16-SOIC	.55	.44	.33
M74HC595RM13TR	497-1880-2-ND	Tri-St. 8-Bit Shift Register	16-SOIC		412.50/2,500	
M74HC597RM13TR	497-1881-1-ND	8-Bit Latch/Shift Register	16-SOIC	.55	.40	.30
M74HC597RM13TR	497-1881-2-ND	8-Bit Latch/Shift Register	16-SOIC		412.50/2,500	
M74HC688RM13TR	497-1882-1-ND	8-Bit Equality Comparator	20-SOIC	.48	.35	.26
M74HC688RM13TR	497-1882-2-ND	8-Bit Equality Comparator	20-SOIC		152.00/1,000	
M74HC688TTR	497-4275-1-ND	8-Bit Equality Comparator **NEW!**	20-TSSOP	.72	.58	.44
M74HC688TTR	497-4275-2-ND	8-Bit Equality Comparator **NEW!**	20-TSSOP		570.00/2,500	
M74HC4017B1R	497-1835-5-ND	Decade Counter/Divider	16-Dip	.72	.58	.44
M74HC4017RM13TR	497-1836-1-ND	Decade Counter/Divider	16-SOIC	.65	.47	.36
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M74HC4020RM13TR	497-1837-1-ND	14-Stage Binary Counter	16-SOIC	.48	.35	.26
M74HC4020RM13TR	497-1837-2-ND	14-Stage Binary Counter	16-SOIC		357.50/2,500	
M74HC4024B1R	497-1838-5-ND	7-Stage Binary Counter	14-Dip	.68	.54	.41
M74HC4024RM13TR	497-1839-1-ND	7-Stage Binary Counter	14-SOIC	.68	.54	.41
M74HC4024RM13TR	497-1839-2-ND	7-Stage Binary Counter	14-SOIC		535.00/2,500	
M74HC4040B1R	497-1840-5-ND	12-Stage Binary Counter	16-Dip	.68	.54	.41
M74HC4049B1R	497-1841-5-ND	Hex Buffer/Converter	16-Dip	.86	.69	.52
M74HC4049RM13TR	497-1842-1-ND	Hex Buffer/Converter	16-SOIC	.49	.30	.23
M74HC4049RM13TR	497-1842-2-ND	Hex Buffer/Converter	16-SOIC		320.00/2,500	
M74HC4050B1R	497-1843-5-ND	Hex Buffer/Converter	16-Dip	.79	.64	.49
M74HC4050RM13TR	497-1844-1-ND	Hex Buffer/Converter	16-SOIC	.60	.44	.33
M74HC4050RM13TR	497-1844-2-ND	Hex Buffer/Converter	16-SOIC		450.00/2,500	
M74HC4051B1R	497-1845-5-ND	Single 8-Ch. Analog Mux/Demux	16-Dip	.77	.62	.46
M74HC4051RM13TR	497-1846-1-ND	Single 8-Ch. Analog Mux/Demux	16-SOIC	.68	.54	.41
M74HC4051RM13TR	497-1846-2-ND	Single 8-Ch. Analog Mux/Demux	16-SOIC		535.00/2,500	
M74HC4052B1R	497-1847-5-ND	Dual 4-Ch. Analog Mux/Demux	16-Dip	.63	.51	.38
M74HC4052RM13TR	497-1848-1-ND	Dual 4-Ch. Analog Mux/Demux	16-SOIC	.48	.35	.26
M74HC4052RM13TR	497-1848-2-ND	Dual 4-Ch. Analog Mux/Demux	16-SOIC		357.50/2,500	
M74HC4053B1R	497-1849-5-ND	Triple 2-Ch. Analog Mux/Demux	16-Dip	.55	.40	.30
M74HC4053RM13TR	497-1850-1-ND	Triple 2-Ch. Analog Mux/Demux	16-SOIC	.60	.44	.33
M74HC4053RM13TR	497-1850-2-ND	Triple 2-Ch. Analog Mux/Demux	16-SOIC		450.00/2,500	
M74HC4060RM13TR	497-1852-1-ND	14-Stage Binary Counter/Oscillator	16-SOIC	.55	.40	.30
M74HC4060RM13TR	497-1852-2-ND	14-Stage Binary Counter/Oscillator	16-SOIC		412.50/2,500	
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M74HC4066RM13TR	497-1854-1-ND	Quad Bilateral Switch	14-SOIC	.48	.38	.29
M74HC4066RM13TR	497-1854-2-ND	Quad Bilateral Switch	14-SOIC		357.50/2,500	
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M74HC4075RM13TR	497-1856-1-ND	Triple 3-Input OR Gate	14-SOIC	.68	.54	.41
M74HC4075RM13TR	497-1856-2-ND	Triple 3-Input OR Gate	14-SOIC		535.00/2,500	
M74HC4094B1R	497-2985-5-ND	Tri-St. 8-Bit SIPO Shift Latch Register	16-Dip	.68	.54	.41
M74HC4094RM13TR	497-1857-1-ND	Tri-St. 8-Bit SIPO Shift Latch Register	16-SOIC	.48	.35	.26
M74HC4094RM13TR	497-1857-2-ND	Tri-St. 8-Bit SIPO Shift Latch Register	16-SOIC		357.50/2,500	
M74HC4316B1R	497-1860-5-ND	Quad Bilateral Switch	16-Dip	.70	.56	.42
M74HC4316RM13TR	497-1861-1-ND	Quad Bilateral Switch	16-SOIC	.68	.54	.41
M74HC4316RM13TR	497-1861-2-ND	Quad Bilateral Switch	16-SOIC		535.00/2,500	
M74HC4520B1R	497-1862-5-ND	Dual 4-Bit Binary Counter	16-Dip	.72	.58	.44
M74HC4520RM13TR	497-1863-1-ND	Dual 4-Bit Binary Counter	16-SOIC	.68	.54	.41
M74HC4520RM13TR	497-1863-2-ND	Dual 4-Bit Binary Counter	16-SOIC		535.00/2,500	
M74HC4538B1R	497-1864-5-ND	Dual Retriggerable Mono Multivibrator	16-Dip	.72	.58	.44
M74HC4538RM13TR	497-1865-1-ND	Dual Retriggerable Mono Multivibrator	16-SOIC	.60	.44	.33
M74HC4538RM13TR	497-1865-2-ND	Dual Retriggerable Mono Multivibrator	16-SOIC		450.00/2,500	
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74HCT125RM13TR	497-1898-1-ND	Tri-St. Quad Bus Buffer	14-SOIC	.49	.30	.23
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74HCT273RM13TR	497-1908-1-ND	Octal D-Type Flip-Flop with Clear	20-SOIC	.55	.44	.30
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74HCT374RM13TR	497-1912-1-ND	Tri-St. Octal D-Type Flip-Flop	20-SOIC	.55	.40	.30
74HCT374RM13TR	497-1912-2-ND	Tri-St. Octal D-Type Flip-Flop	20-SOIC		176.00/1,000	
74HCT540B1R	497-1914-5-ND	Tri-St. Octal Bus Buffer	20-Dip	1.31	1.14	.88
74HCT540RM13TR	497-1915-1-ND	Tri-St. Octal Bus Buffer	20-SOIC	.53	.41	.30
74HCT540RM13TR	497-1915-2-ND	Tri-St. Octal Bus Buffer	20-SOIC		146.00/1,000	
74HCT541B1R	497-1916-5-ND	Tri-St. Octal Bus Buffer	20-Dip	.60	.44	.33
74HCT573RM13TR	497-1918-1-ND	Tri-St. Octal D-Type Latch	20-SOIC	.60	.44	.33
74HCT573RM13TR	497-1918-2-ND	Tri-St. Octal D-Type Latch	20-SOIC		192.00/1,000	
74HCT574B1R	497-1919-5-ND	Tri-St. Octal D-Type Flip-Flop	20-Dip	1.69	1.47	1.13
74HCT574RM13TR	497-1920-1-ND	Tri-St. Octal D-Type Flip-Flop	20-SOIC	.55	.44	.30
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74LVC86AMTR	497-1078-2-ND	Low Voltage CMOS Quad Exclusive OR Gate	14-SOIC		320.00/2,500	
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74LVC244ATTR	497-2919-2-ND	Tri-State Low Voltage CMOS Quad Bus Buffer	20-TSSOP		487.50/2,500	
74LVC373AMTR	497-1076-1-ND	Octal D-Type Latch	20-SOIC	.65	.47	.36
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74LVX08MTR	497-1081-1-ND	Low Voltage CMOS Quad 2-Input AND Gate	14-SOIC	.49	.30	.23
74LVX08MTR	497-1081-2-ND	Low Voltage CMOS Quad 2-Input AND Gate	14-SOIC		320.00/2,500	
74LVX14MTR	497-1085-1-ND	Low Voltage CMOS Hex Schmitt Inverter	14-SOIC	.49	.30	.23
74LVX14MTR	497-1085-2-ND	Low Voltage CMOS Hex Schmitt Inverter	14-SOIC		320.00/2,500	
74LVX125MTR	497-1082-1-ND	Low Voltage Quad Bus Buffer	14-SOIC	.49	.30	.23
74LVX125MTR	497-1082-2-ND	Low Voltage Quad Bus Buffer	14-SOIC		320.00/2,500	
74LVX126MTR	497-1083-1-ND	Low Voltage CMOS Quad Bus Buffer	14-SOIC	.49	.30	.23
74LVX126MTR	497-1083-2-ND	Low Voltage CMOS Quad Bus Buffer	14-SOIC		320.00/2,500	
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74LVX244MTR	497-1087-2-ND	Low Volt. CMOS Octal Bus Buffer	20-SOIC		208.00/1,000	
74LVX244TTR	497-2920-1-ND	Low Volt. CMOS Octal Bus Buffer	20-TSSOP	.65	.47	.36
74LVX244TTR	497-2920-2-ND	Low Volt. CMOS Octal Bus Buffer	20-TSSOP		487.50/2,500	
74LVX245MTR	497-1088-1-ND	Low Voltage CMOS Octal Bus Transceiver	20-SOIC	.65	.47	.36
74LVX245MTR	497-1088-2-ND	Low Voltage CMOS Octal Bus Transceiver	20-SOIC		208.00/1,000	
74LVX374MTR	497-1090-1-ND	Low Volt. CMOS Octal D-Type F/F	20-SOIC	.65	.47	.36
74LVX374MTR	497-1090-2-ND	Low Volt. CMOS Octal D-Type F/F	20-SOIC		208.00/1,000	
74LVX3245MTR	497-1089-1-ND	Octal Dual Supply Bus Transceiver	24-SOIC	1.73	1.50	1.15
74LVX3245MTR	497-1089-2-ND	Octal Dual Supply Bus Transceiver	24-SOIC		667.00/1,000	
74LVX4245MTR	497-1091-1-ND	Octal Dual Supply Bus Transceiver	24-SOIC	1.16	1.01	.78
74LVX4245MTR	497-1091-2-ND	Octal Dual Supply Bus Transceiver	24-SOIC		450.00/1,000	
74LVX16373TTR	497-1086-1-ND	LV CMOS 16-Bit D-Type Latch	48-TSSOP	1.31	1.14	.88
74LVX16373TTR	497-1086-2-ND	LV CMOS 16-Bit D-Type Latch	48-TSSOP		1016.00/2,000	
74LVXC3245MTR	497-1092-1-ND	Octal Dual Supply Bus Transceiver	24-SOIC	1.16	1.01	.78
74LVXC3245MTR	497-1092-2-ND	Octal Dual Supply Bus Transceiver	24-SOIC		450.00/1,000	
74LVXU04MTR	497-1093-1-ND	Low Voltage CMOS Hex Inverter	14-SOIC	.39	.29	.21
74LVXU04MTR	497-1093-2-ND	Low Voltage CMOS Hex Inverter	14-SOIC		207.50/2,500	
74LX1G04CTR	497-4027-1-ND	Low Voltage CMOS Single Inverter **NEW!**	SOT-323-5L	.46	.35	.26
74LX1G04CTR	497-4027-2-ND	Low Voltage CMOS Single Inverter **NEW!**	SOT-323-5L		357.00/3,000	
74LX1G08CTR	497-4028-1-ND	Low Voltage CMOS Single 2-Input AND Gate **NEW!**	SOT-323-5L	.46	.35	.26
74LX1G08CTR	497-4028-2-ND	Low Voltage CMOS Single 2-Input AND Gate **NEW!**	SOT-323-5L		357.00/3,000	
74LX1G08STR	497-1252-1-ND	Low Voltage CMOS Single 2-Input AND Gate	SOT-23-5L	.47	.35	.25
74LX1G08STR	497-1252-2-ND	Low Voltage CMOS Single 2-Input AND Gate	SOT-23-5L		297.00/3,000	
74LX1G14CTR	497-4030-1-ND	Low Voltage CMOS Single Schmitt Inverter **NEW!**	SOT-323-5L	.46	.35	.26
74LX1G14CTR	497-4030-2-ND	Low Voltage CMOS Single Schmitt Inverter **NEW!**	SOT-323-5L		357.00/3,000	
74LX1G126CTR	497-4029-1-ND	Tri-St. Single Bus Buffer **NEW!**	SOT-323-5L	.46	.35	.26
74LX1G126CTR	497-4029-2-ND	Tri-St. Single Bus Buffer **NEW!**	SOT-323-5L		357.00/3,000	

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

STMicroelectronics — 74V SERIES

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
74V1G00CTR	497-4031-1-ND	Single 2-In. NAND Gate **NEW!**	SOT-323-5L	.46	.35	.26
74V1G00CTR	497-4031-2-ND	Single 2-In. NAND Gate **NEW!**	SOT-323-5L		357.00/3,000	
74V1G04CTR	497-4032-1-ND	Single Inverter **NEW!**	SOT-323-5L	.44	.34	.25
74V1G04CTR	497-4032-2-ND	Single Inverter **NEW!**	SOT-323-5L		342.00/3,000	
74V1G04STR	497-1264-1-ND	Single Inverter	SOT-23-5L	.47	.35	.25
74V1G04STR	497-1264-2-ND	Single Inverter	SOT-23-5L		297.00/3,000	
74V1G08STR	497-1267-1-ND	Single 2-Input AND Gate	SOT-23-5L	.46	.35	.21
74V1G08STR	497-1267-2-ND	Single 2-Input AND Gate	SOT-23-5L		357.00/3,000	
74V1G14STR	497-1270-1-ND	Single Schmitt Inverter	SOT-23-5L	.81	.65	.49
74V1G14STR	497-1270-2-ND	Single Schmitt Inverter	SOT-23-5L		771.00/3,000	
74V1G32STR	497-1271-1-ND	Single 2-Input OR Gate	SOT-23-5L	.39	.30	.18
74V1G32STR	497-1271-2-ND	Single 2-Input OR Gate	SOT-23-5L		306.00/3,000	
74V1G66CTR	497-4035-1-ND	Single Bilateral Switch **NEW!**	SOT-323-5L	.46	.35	.26
74V1G66CTR	497-4035-2-ND	Single Bilateral Switch **NEW!**	SOT-323-5L		357.00/3,000	
74V1G66STR	497-1273-1-ND	Single Bilateral Switch	SOT-23-5L	.49	.30	.23
74V1G66STR	497-1273-2-ND	Single Bilateral Switch	SOT-23-5L		384.00/3,000	
74V1G70STR	497-1274-1-ND	Single Buffer	SOT-23-5L	.49	.30	.23
74V1G70STR	497-1274-2-ND	Single Buffer	SOT-23-5L		384.00/3,000	
74V1G125CTR	497-4033-1-ND	Tri-St. Single Bus Buffer **NEW!**	SOT-323-5L	.46	.35	.46
74V1G125CTR	497-4033-2-ND	Tri-St. Single Bus Buffer **NEW!**	SOT-323-5L		357.00/3,000	
74V1G125STR	497-1268-1-ND	Tri-St. Single Bus Buffer	SOT-23-5L	.46	.35	.21
74V1G125STR	497-1268-2-ND	Tri-St. Single Bus Buffer	SOT-23-5L		357.00/3,000	
74V1G384CTR	497-4034-1-ND	Single High Speed Bus Switch **NEW!**	SOT-323-5L	.46	.35	.26
74V1G384CTR	497-4034-2-ND	Single High Speed Bus Switch **NEW!**	SOT-323-5L		357.00/3,000	
74V1G384STR	497-1272-1-ND	Single High Speed Bus Switch	SOT-23-5L	.49	.30	.23
74V1G384STR	497-1272-2-ND	Single High Speed Bus Switch	SOT-23-5L		384.00/3,000	
74V1T04CTR	497-4144-1-ND	Single Inverter **NEW!**	SOT-323-5L	.39	.30	.22
74V1T04CTR	497-4144-2-ND	Single Inverter **NEW!**	SOT-323-5L		306.00/3,000	
74V1T04STR	497-1283-1-ND	Single Inverter	SOT-23-5L	.70	.56	.42
74V1T04STR	497-1283-2-ND	Single Inverter	SOT-23-5L		630.00/3,000	
74V1T08CTR	497-4036-1-ND	Single 2-In. AND Gate **NEW!**	SOT-323-5L	.46	.35	.26
74V1T08CTR	497-4036-2-ND	Single 2-In. AND Gate **NEW!**	SOT-323-5L		357.00/3,000	
74V1T14CTR	497-4038-1-ND	Single Schmitt Inverter **NEW!**	SOT-323-5L	.46	.35	.26
74V1T14CTR	497-4038-2-ND	Single Schmitt Inverter **NEW!**	SOT-323-5L		357.00/3,000	
74V1T14STR	497-1289-1-ND	Single Schmitt Inverter	SOT-23-5L	.39	.30	.18
74V1T14STR	497-1289-2-ND	Single Schmitt Inverter	SOT-23-5L		306.00/3,000	
74V1T66CTR	497-4039-1-ND	Single Bilateral Switch **NEW!**	SOT-323-5L	.46	.35	.26
74V1T66CTR	497-4039-2-ND	Single Bilateral Switch **NEW!**	SOT-323-5L		357.00/3,000	
74V1T66STR	497-1292-1-ND	Single Bilateral Switch	SOT-23-5L	.49	.30	.23
74V1T66STR	497-1292-2-ND	Single Bilateral Switch	SOT-23-5L		384.00/3,000	
74V1T125CTR	497-4037-1-ND	Tri-St. Single Bus Buffer **NEW!**	SOT-323-5L	.46	.35	.26
74V1T125CTR	497-4037-2-ND	Tri-St. Single Bus Buffer **NEW!**	SOT-323-5L		357.00/3,000	
74V1T125STR	497-1287-1-ND	Tri-State Single Bus Buffer	SOT-23-5L	.70	.56	.42
74V1T125STR	497-1287-2-ND	Tri-State Single Bus Buffer	SOT-23-5L		630.00/3,000	
74V2G00STR	497-1298-1-ND	Dual 2-Input NAND Gate	SOT-23-8L	.81	.65	.49
74V2G00STR	497-1298-2-ND	Dual 2-Input NAND Gate	SOT-23-8L		771.00/3,000	
74V2G04STR	497-1300-1-ND	Triple Inverter	SOT-23-8L	.48	.35	.26
74V2G04STR	497-1300-2-ND	Triple Inverter	SOT-23-8L		429.00/3,000	
74V2G08STR	497-1303-1-ND	Dual 2-Input AND Gate	SOT-23-8L	.48	.35	.26
74V2G08STR	497-1303-2-ND	Dual 2-Input AND Gate	SOT-23-8L		429.00/3,000	
74V2G14STR	497-1306-1-ND	Triple Schmitt Inverter	SOT-23-8L	.48	.35	.26
74V2G14STR	497-1306-2-ND	Triple Schmitt Inverter	SOT-23-8L		429.00/3,000	
74V2G66STR	497-1308-1-ND	Dual Bilateral Switch	SOT-23-8L	.55	.40	.30
74V2G66STR	497-1308-2-ND	Dual Bilateral Switch	SOT-23-8L		495.00/3,000	
74V2G70STR	497-1309-1-ND	Triple Buffer	SOT-23-8L	.48	.35	.26
74V2G70STR	497-1309-2-ND	Triple Buffer	SOT-23-8L		429.00/3,000	
74V2G125STR	497-1304-1-ND	Tri-State Dual Bus Buffer	SOT-23-8L	.60	.44	.33
74V2G125STR	497-1304-2-ND	Tri-State Dual Bus Buffer	SOT-23-8L		540.00/3,000	
74V2G126STR	497-1305-1-ND	Tri-State Dual Bus Buffer	SOT-23-8L	.48	.35	.26
74V2G126STR	497-1305-2-ND	Tri-State Dual Bus Buffer	SOT-23-8L		429.00/3,000	
74V2T04STR	497-1311-1-ND	Triple Inverter	SOT-23-8L	.48	.35	.26
74V2T04STR	497-1311-2-ND	Triple Inverter	SOT-23-8L		429.00/3,000	
74V2T08STR	497-1314-1-ND	Dual 2-Input AND Gate	SOT-23-8L	.48	.35	.26
74V2T08STR	497-1314-2-ND	Dual 2-Input AND Gate	SOT-23-8L		429.00/3,000	
74V2T125STR	497-1315-1-ND	Tri-State Dual Bus Buffer	SOT-23-8L	.48	.35	.26
74V2T125STR	497-1315-2-ND	Tri-State Dual Bus Buffer	SOT-23-8L		429.00/3,000	
74V2T126STR	497-1316-1-ND	Tri-State Dual Bus Buffer	SOT-23-8L	.48	.35	.26
74V2T126STR	497-1316-2-ND	Tri-State Dual Bus Buffer	SOT-23-8L		429.00/3,000	
74VCX16244TTR	497-1095-1-ND	Tri-State Low Volt. CMOS 16-Bit Bus Buffer	48-TSSOP	1.80	1.50	1.26
74VCX16244TTR	497-1095-2-ND	Tri-State Low Volt. CMOS 16-Bit Bus Buffer	48-TSSOP		1620.00/2,000	
74VCX16245LBR	497-2921-1-ND	Tri-St. Low Volt. CMOS 16-Bit Bus Transceiver	54-TFBGA	2.55	2.13	1.79
74VCX16245LBR	497-2921-2-ND	Tri-St. Low Volt. CMOS 16-Bit Bus Transceiver	54-TFBGA		3315.00/3,000	
74VCX16245TTR	497-3706-1-ND	Tri-St. Low Volt. CMOS 16-Bit Bus Transceiver	48-TSSOP	1.80	1.50	1.26
74VCX16245TTR	497-3706-2-ND	Tri-St. Low Volt. CMOS 16-Bit Bus Transceiver	48-TSSOP		1620.00/2,000	
74VCX16373TTR	497-1096-1-ND	Tri-State Low Volt. CMOS 16-Bit D-Type Latch	48-TSSOP	1.80	1.50	1.26
74VCX16373TTR	497-1096-2-ND	Tri-State Low Volt. CMOS 16-Bit D-Type Latch	48-TSSOP		1620.00/2,000	
74VCX16374TTR	497-1097-1-ND	Tri-State Low Volt. CMOS 16-Bit D-Type Flip-Flop	48-TSSOP	1.80	1.50	1.26
74VCX16374TTR	497-1097-2-ND	Tri-State Low Volt. CMOS 16-Bit D-Type Flip-Flop	48-TSSOP		1620.00/2,000	
74VCX1632245LBR	497-2922-1-ND	16-Bit Dual Supply Bus Transceiver	54-TFBGA	3.51	3.06	2.28
74VCX1632245LBR	497-2922-2-ND	16-Bit Dual Supply Bus Transceiver	54-TFBGA		4992.00/3,000	
74VCX1632245TBR	497-4145-1-ND	16-Bit Dual Supply Bus Transceiver **NEW!**	42-TFBGA	2.55	2.13	1.79
74VCX1632245TBR	497-4145-2-ND	16-Bit Dual Supply Bus Transceiver **NEW!**	42-TFBGA		3315.00/3,000	
74VCX1632245TTR	497-2923-1-ND	16-Bit Dual Supply Bus Transceiver	48-TSSOP	2.55	2.13	1.79
74VCX1632245TTR	497-2923-2-ND	16-Bit Dual Supply Bus Transceiver	48-TSSOP		2296.00/2,000	
74VCXH16244TTR	497-1098-1-ND	Tri-State Low Volt. CMOS 16-Bit Bus Buffer	48-TSSOP	1.80	1.50	1.26
74VCXH16244TTR	497-1098-2-ND	Tri-State Low Volt. CMOS 16-Bit Bus Buffer	48-TSSOP		1620.00/2,000	

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	1
74VCXH16245TTR	497-1099-1-ND	Tri-State Low Volt. CMOS 16-Bit Bus Transceiver	48-TSSOP	1.80	1.50	1.
74VCXH16245TTR	497-1099-2-ND	Tri-State Low Volt. CMOS 16-Bit Bus Transceiver	48-TSSOP		1620.00/2,00	
74VCXH16374TTR	497-1101-1-ND	Tri-State Low Volt. CMOS 16-Bit D-Type Flip-Flop	48-TSSOP	1.80	1.50	1.
74VCXH16374TTR	497-1101-2-ND	Tri-State Low Volt. CMOS 16-Bit D-Type Flip-Flop	48-TSSOP		1620.00/2,00	
74VCXH1632245TBR	497-4146-1-ND	16-Bit Dual Supply Bus Transceiver Level Translator **NEW!**	42-TFBGA	2.55	2.13	1.
74VCXH1632245TBR	497-4146-2-ND	16-Bit Dual Supply Bus Transceiver Level Translator **NEW!**	42-TFBGA		3315.00/3,00	
74VCXH1632245TTR	497-4147-1-ND	16-Bit Dual Supply Bus Transceiver Level Translator **NEW!**	48-TSSOP	2.55	2.13	1.
74VCXH1632245TTR	497-4147-2-ND	16-Bit Dual Supply Bus Transceiver Level Translator **NEW!**	48-TSSOP		2296.00/2,00	
74VHC05TTR	497-4148-1-ND	Hex Inverter, Open Drain **NEW!**	14-TSSOP	.65	.52	
74VHC05TTR	497-4148-2-ND	Hex Inverter, Open Drain **NEW!**	14-TSSOP		487.50/2,50	
74VHC08MTR	497-1102-1-ND	Quad 2-Input AND Gate	14-SOIC	.55	.34	
74VHC08MTR	497-1102-2-ND	Quad 2-Input AND Gate	14-SOIC		362.50/2,50	
74VHC14MTR	497-1104-1-ND	Hex Schmitt Inverter	14-SOIC	.49	.30	
74VHC14MTR	497-1104-2-ND	Hex Schmitt Inverter	14-SOIC		320.00/2,50	
74VHC138MTR	497-1103-1-ND	3-8 Line Decoder	16-SOIC	.55	.44	
74VHC138MTR	497-1103-2-ND	3-8 Line Decoder	16-SOIC		412.50/2,50	
74VHC240MTR	497-2925-1-ND	Tri-State Octal Bus Buffer	20-SOIC	.65	.47	
74VHC240MTR	497-2925-2-ND	Tri-State Octal Bus Buffer	20-SOIC		208.00/1,00	
74VHC244MTR	497-2926-1-ND	Tri-State Octal Bus Buffer	20-SOIC	.65	.47	
74VHC244MTR	497-2926-2-ND	Tri-State Octal Bus Buffer	20-SOIC		208.00/1,00	
74VHC245MTR	497-1105-1-ND	Tri-State Octal Bus Transceiver	20-SOIC	.65	.47	
74VHC245MTR	497-1105-2-ND	Tri-State Octal Bus Transceiver	20-SOIC		208.00/1,00	
74VHC273MTR	497-1106-1-ND	Octal D-Type Flip-Flop with Clear	20-SOIC	.65	.47	
74VHC273MTR	497-1106-2-ND	Octal D-Type Flip-Flop with Clear	20-SOIC		208.00/1,00	
74VHC16240TTR	497-2924-1-ND	Tri-State 16-Bit Bus Buffer	48-TSSOP	1.35	1.17	
74VHC16240TTR	497-2924-2-ND	Tri-State 16-Bit Bus Buffer	48-TSSOP		1044.00/2,00	
74VHCT244AMTR	497-2928-1-ND	Tri-State Octal Bus Buffer	20-SOIC	.65	.47	
74VHCT244AMTR	497-2928-2-ND	Tri-State Octal Bus Buffer	20-SOIC		208.00/1,00	
74VHCT541AMTR	497-2929-1-ND	Tri-State Octal Bus Buffer	20-SOIC	.65	.47	
74VHCT541AMTR	497-2929-2-ND	Tri-State Octal Bus Buffer	20-SOIC		208.00/1,00	
74VHCT16373ATTR	497-1107-1-ND	16-Bit D-Type Latch	48-TSSOP	1.35	1.17	
74VHCT16373ATTR	497-1107-2-ND	16-Bit D-Type Latch	48-TSSOP		1044.00/2,00	

STMicroelectronics — 78/79 SERIE VOLTAGE REGULATOR

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	1
L78L05ABD13TRI	497-1180-1-ND	5V, Positive Voltage Regulator	8-SOIC	.48	.38	
L78L05ABD13TRI	497-1180-2-ND	5V, Positive Voltage Regulator	8-SOIC		357.50/2,5	
L78L05ABUTR	497-1181-1-ND	5V, Positive Voltage Regulator	SOT-89	.90	.72	
L78L05ABUTR	497-1181-2-ND	5V, Positive Voltage Regulator	SOT-89		712.50/2,5	
L78L05ABZ	497-1009-ND	5V, Positive Voltage Regulator	TO-92	.70	.56	
L78L05ACD	497-2951-5-ND	5V, Positive Voltage Regulator	8-SOIC	.48	.39	
L78L05ACD13TRI	497-1182-1-ND	5V, Positive Voltage Regulator	8-SOIC	.55	.43	
L78L05ACD13TRI	497-1182-2-ND	5V, Positive Voltage Regulator	8-SOIC		362.50/2,5	
L78L05ACUTR	497-1183-1-ND	5V, Positive Voltage Regulator	SOT-89	.77	.62	
L78L05ACUTR	497-1183-2-ND	5V, Positive Voltage Regulator	SOT-89		605.00/2,5	
L78L05ACZ	497-2952-5-ND	5V, Positive Voltage Regulator	TO-92	.54	.44	
L78L05ACZTR	497-1184-1-ND	5V, Positive Voltage Regulator	TO-92	.50	.40	
L78L05ACZTR	497-1184-2-ND	5V, Positive Voltage Regulator	TO-92		320.00/2,0	
L78L06ABZ	497-1010-ND	6V, Positive Voltage Regulator	TO-92	.72	.58	
L78L06ACD13TRI	497-1185-1-ND	6V, Positive Voltage Regulator	8-SOIC	.81	.65	
L78L06ACD13TRI	497-1185-2-ND	6V, Positive Voltage Regulator	8-SOIC		642.50/2,5	
L78L06ACZ	497-2953-5-ND	6V, Positive Voltage Regulator	TO-92	.70	.56	
L78L06ACZ-TRI	497-1186-1-ND	6V, Positive Voltage Regulator	TO-92	.72	.58	
L78L06ACZ-TRI	497-1186-2-ND	6V, Positive Voltage Regulator	TO-92		496.00/2,0	
L78L08ABD13TRI	497-1187-1-ND	8V, Positive Voltage Regulator	8-SOIC	.99	.80	
L78L08ABD13TRI	497-1187-2-ND	8V, Positive Voltage Regulator	8-SOIC		785.00/2,5	
L78L08ABUTR	497-1188-1-ND	8V, Positive Voltage Regulator	SOT-89	.90	.72	
L78L08ABUTR	497-1188-2-ND	8V, Positive Voltage Regulator	SOT-89		712.50/2,5	
L78L08ABZ	497-1011-ND	8V, Positive Voltage Regulator	TO-92	.68	.54	
L78L08ACD13TRI	497-1189-1-ND	8V, Positive Voltage Regulator	8-SOIC	.55	.44	
L78L08ACD13TRI	497-1189-2-ND	8V, Positive Voltage Regulator	8-SOIC		412.50/2,5	
L78L08ACZ	497-2954-5-ND	8V, Positive Voltage Regulator	TO-92	.70	.56	
L78L08ACZTR	497-1190-1-ND	8V, Positive Voltage Regulator	TO-92	.55	.44	
L78L08ACZTR	497-1190-2-ND	8V, Positive Voltage Regulator	TO-92		352.00/2,0	
L78L09ACD13TRI	497-1191-1-ND	9V, Positive Voltage Regulator	8-SOIC	.60	.48	
L78L09ACD13TRI	497-1191-2-ND	9V, Positive Voltage Regulator	8-SOIC		450.00/2,5	
L78L09ACUTR	497-1192-1-ND	9V, Positive Voltage Regulator	SOT-89	.60	.48	
L78L09ACUTR	497-1192-2-ND	9V, Positive Voltage Regulator	SOT-89		450.00/2,5	
L78L09ACZ	497-1012-ND	9V, Positive Voltage Regulator	TO-92	.60	.48	
L78L09CD13TRI	497-1193-1-ND	9V, Positive Voltage Regulator	8-SOIC	.60	.48	
L78L09CD13TRI	497-1193-2-ND	9V, Positive Voltage Regulator	8-SOIC		450.00/2,5	
L78L12ACD13TRI	497-1194-1-ND	12V, Positive Voltage Regulator	8-SOIC	.65	.52	
L78L12ACD13TRI	497-1194-2-ND	12V, Positive Voltage Regulator	8-SOIC		487.50/2,5	
L78L12ACUTR	497-1195-1-ND	12V, Positive Voltage Regulator	SOT-89	.77	.62	
L78L12ACUTR	497-1195-2-ND	12V, Positive Voltage Regulator	SOT-89		605.00/2,5	
L78L12ACZ	497-2955-5-ND	12V, Positive Voltage Regulator	TO-92	.70	.56	
L78L12ACZ-TRI	497-1196-1-ND	12V, Positive Voltage Regulator	TO-92	.48	.38	
L78L12ACZ-TRI	497-1196-2-ND	12V, Positive Voltage Regulator	TO-92		304.00/2,0	
L78L15ACZ-TRI	497-1197-1-ND	15V, Positive Voltage Regulator	TO-92	.55	.44	
L78L15ACZ-TRI	497-1197-2-ND	15V, Positive Voltage Regulator	TO-92		352.00/2,0	
L78L15CD-TRI	497-1198-1-ND	15V, Positive Voltage Regulator	8-SOIC	.60	.48	
L78L15CD-TRI	497-1198-2-ND	15V, Positive Voltage Regulator	8-SOIC		450.00/2,5	
L78L33ACD13TRI	497-1199-1-ND	3.3V, Positive Voltage Regulator	8-SOIC	.81	.65	
L78L33ACD13TRI	497-1199-2-ND	3.3V, Positive Voltage Regulator	8-SOIC		642.50/2,5	
L78L33ACUTR	497-1200-1-ND	3.3V, Positive Voltage Regulator	SOT-89	.77	.62	
L78L33ACUTR	497-1200-2-ND	3.3V, Positive Voltage Regulator	SOT-89		605.00/2,5	
L78M05ABDT-TRI	497-1201-1-ND	5V, Precision 500mA Regulator	D-PAK	.90	.72	
L78M05ABDT-TRI	497-1201-2-ND	5V, Precision 500mA Regulator	D-PAK		712.50/2,5	
L78M05ABV	497-1461-5-ND	5V, Precision 500mA Regulator	TO-220	.86	.69	
L78M05ACDT-TRI	497-1202-1-ND	5V, Precision 500mA Regulator	D-PAK	.86	.69	
L78M05ACDT-TRI	497-1202-2-ND	5V, Precision 500mA Regulator	D-PAK		677.50/2,5	
L78M05CDT	497-2956-5-ND	5V, Positive Voltage Regulator	D-PAK	.66	.53	
L78M05CDT-TRI	497-1203-1-ND	5V, Positive Voltage Regulator	D-PAK	.55	.44	
L78M05CDT-TRI	497-1203-2-ND	5V, Positive Voltage Regulator	D-PAK		412.50/2,5	
L78M05CV	497-2957-5-ND	5V, Positive Voltage Regulator	TO-220	.90	.72	

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★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

STMicroelectronics — 78/79 SERIES VOLTAGE REGULATORS (Continued)

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
78M06ACDT-TRI	497-1204-1-ND	6V, Precision 500mA Regulator	D-PAK	.68	.49	.38
78M06ACDT-TRI	497-1204-2-ND	6V, Precision 500mA Regulator	D-PAK		535.00/2,500	
78M06CV	497-1462-5-ND	6V, Positive Voltage Regulator	TO-220	.72	.58	.44
78M08ABDT-TRI	497-1205-1-ND	8V, Precision 500mA Regulator	D-PAK	.86	.62	.48
78M08ABDT-TRI	497-1205-2-ND	8V, Precision 500mA Regulator	D-PAK		677.50/2,500	
78M08CDT-TRI	497-1206-1-ND	8V, Positive Voltage Regulator	D-PAK	.77	.62	.46
78M08CDT-TRI	497-1206-2-ND	8V, Positive Voltage Regulator	D-PAK		605.00/2,500	
78M08CV	497-1463-5-ND	8V, Positive Voltage Regulator	TO-220	.81	.65	.49
78M09ACDT-TRI	497-1207-1-ND	9V, Precision 500mA Regulator	D-PAK	.86	.69	.52
78M09ACDT-TRI	497-1207-2-ND	9V, Precision 500mA Regulator	D-PAK		677.50/2,500	
78M09CDT-TRI	497-1208-1-ND	9V, Positive Voltage Regulator	D-PAK	.81	.65	.49
78M09CDT-TRI	497-1208-2-ND	9V, Positive Voltage Regulator	D-PAK		642.50/2,500	
78M12ABDT-TRI	497-1209-1-ND	12V, Precision 500mA Regulator	D-PAK	.99	.87	.67
78M12ABDT-TRI	497-1209-2-ND	12V, Precision 500mA Regulator	D-PAK		880.00/2,500	
78M12ACDT-TRI	497-1210-1-ND	12V, Precision 500mA Regulator	D-PAK	.86	.69	.52
78M12ACDT-TRI	497-1210-2-ND	12V, Precision 500mA Regulator	D-PAK		677.50/2,500	
78M12CDT-1	497-4228-5-ND	12V, Precision 500mA Reg. **NEW!**	I-PAK	.72	.58	.44
78M12CDT-TRI	497-1211-1-ND	12V, Positive 500mA Regulator	D-PAK	.86	.69	.52
78M12CDT-TRI	497-1211-2-ND	12V, Positive 500mA Regulator	D-PAK		677.50/2,500	
78M12CV	497-1464-5-ND	12V, Positive 500mA Regulator	TO-220	.72	.58	.44
78M15ABV	497-1465-5-ND	15V, Precision 500mA Regulator	TO-220	.86	.69	.52
78M15ACDT	497-4229-5-ND	15V, Precision 500mA Reg. **NEW!**	D-PAK	1.16	1.01	.78
78M15CDT-TRI	497-1212-1-ND	15V, Precision 500mA Regulator	D-PAK	.86	.69	.52
78M15CDT-TRI	497-1212-2-ND	15V, Precision 500mA Regulator	D-PAK		677.50/2,500	
78M15CV	497-2958-5-ND	15V, Precision 500mA Regulator	TO-220	.90	.72	.54
78M18ABDT	497-1466-5-ND	18V, Precision 500mA Regulator	D-PAK	1.80	1.56	1.20
78M24CDT-TRI	497-1213-1-ND	24V, Positive Voltage Regulator	D-PAK	.98	.85	.65
78M24CDT-TRI	497-1213-2-ND	24V, Positive Voltage Regulator	D-PAK		865.00/2,500	
78M24CV	497-1467-5-ND	24V, Positive Voltage Regulator	TO-220	.72	.58	.44
78S05CV	497-1468-5-ND	5V, Positive 2A Regulator	TO-220	1.04	.83	.63
78S12CV	497-1469-5-ND	12V, Positive 2A Regulator	TO-220	1.04	.83	.63
78S24CV	497-1470-5-ND	24V, Positive 2A Regulator	TO-220	1.04	.83	.63
79L05ABUTR	497-1217-1-ND	-5V, Negative Voltage Regulator	SOT-89	.95	.76	.57
79L05ABUTR	497-1217-2-ND	-5V, Negative Voltage Regulator	SOT-89		747.50/2,500	
79L05ACD13TRI	497-1218-1-ND	-5V, Negative Voltage Regulator	8-SOIC	.55	.44	.33
79L05ACD13TRI	497-1218-2-ND	-5V, Negative Voltage Regulator	8-SOIC		412.50/2,500	
79L05ACUTR	497-1219-1-ND	-5V, Negative Voltage Regulator	SOT-89	.86	.69	.52
79L05ACUTR	497-1219-2-ND	-5V, Negative Voltage Regulator	SOT-89		677.50/2,500	
79L05ACZ	497-2960-5-ND	-5V, Negative Voltage Regulator	TO-92	.70	.56	.42
79L05ACZ-TRI	497-1220-1-ND	-5V, Negative Voltage Regulator	TO-92	.48	.38	.29
79L05ACZ-TRI	497-1220-2-ND	-5V, Negative Voltage Regulator	TO-92		304.00/2,000	
79L12ACZ	497-1013-ND	-12V, Negative Voltage Regulator	TO-92	.70	.56	.42
7805ABD2T-TRI	497-1170-1-ND	5V, Precision 1A Regulator	D2-PAK	1.04	.83	.58
7805ABD2T-TRI	497-1170-2-ND	5V, Precision 1A Regulator	D2-PAK		357.00/1,000	
7805ABP	497-4226-5-ND	5V, Precision 1A Regulator **NEW!**	TO-220FP	.99	.80	.60
7805ABV	497-2947-5-ND	5V, Precision 1A Regulator	TO-220	1.13	.98	.75
7805ACD2T	497-1440-5-ND	5V, Precision 1A Regulator	D2-PAK	1.08	.87	.65
7805ACV	497-1441-5-ND	5V, Precision 1A Regulator	TO-220	.72	.58	.44
7805CD2T	497-2948-5-ND	5V, Positive Voltage Regulator	D2-PAK	.72	.63	.48
7805CD2T-TRI	497-1171-1-ND	5V, Positive Voltage Regulator	D2-PAK	.77	.62	.46
7805CD2T-TRI	497-1171-2-ND	5V, Positive Voltage Regulator	D2-PAK		264.00/1,000	
7805CP	497-1442-5-ND	5V, Positive Voltage Regulator	TO-220FP	.81	.65	.49
7805CT	497-1005-ND	5V, Positive Voltage Regulator	TO-3	2.16	1.80	1.52
7805CV	497-1443-5-ND	5V, Positive Voltage Regulator	TO-220	.55	.44	.33
7806ABD2T-TRI	497-1172-1-ND	6V, Precision 1A Regulator	D2-PAK	1.04	.83	.58
7806ABD2T-TRI	497-1172-2-ND	6V, Precision 1A Regulator	D2-PAK		357.00/1,000	
7806ABV	497-1444-5-ND	6V, Precision 1A Regulator	TO-220	.77	.62	.46
7806CV	497-1445-5-ND	6V, Positive Voltage Regulator	TO-220	.65	.52	.39
7808ABD2T-TRI	497-1173-1-ND	8V, Precision 1A Regulator	D2-PAK	.99	.80	.60
7808ABD2T-TRI	497-1173-2-ND	8V, Precision 1A Regulator	D2-PAK		341.00/1,000	
7808ABV	497-1446-5-ND	8V, Precision 1A Regulator	TO-220	.77	.62	.46
7808CD2T-TRI	497-1174-1-ND	8V, Positive Voltage Regulator	D2-PAK	.95	.76	.57
7808CD2T-TRI	497-1174-2-ND	8V, Positive Voltage Regulator	D2-PAK		326.00/1,000	
7808CV	497-2949-5-ND	8V, Positive Voltage Regulator	TO-220	.70	.57	.43
7809ABD2T	497-4227-5-ND	9V, Precision 1A Regulator **NEW!**	D2-PAK	.90	.72	.54
7809ABV	497-1447-5-ND	9V, Precision 1A Regulator	TO-220	1.24	1.08	.83
7809ACD2T-TRI	497-1175-1-ND	9V, Precision 1A Regulator	D2-PAK	.94	.82	.63
7809ACD2T-TRI	497-1175-2-ND	9V, Precision 1A Regulator	D2-PAK		363.00/1,000	
7809CD2T-TRI	497-1176-1-ND	9V, Positive Voltage Regulator	D2-PAK	.86	.69	.52
7809CD2T-TRI	497-1176-2-ND	9V, Positive Voltage Regulator	D2-PAK		295.00/1,000	
7809CV	497-1448-5-ND	9V, Positive Voltage Regulator	TO-220	.65	.52	.39
7812ABV	497-1449-5-ND	12V, Precision 1A Regulator	TO-220	.81	.65	.49
7812ACD2T-TRI	497-1177-1-ND	12V, Precision 1A Regulator	D2-PAK	1.08	.87	.65
7812ACD2T-TRI	497-1177-2-ND	12V, Precision 1A Regulator	D2-PAK		372.00/1,000	
7812ACV	497-1450-5-ND	12V, Precision 1A Regulator	TO-220	.72	.58	.44
7812CD2T	497-2950-5-ND	12V, Positive Voltage Regulator	D2-PAK	.86	.70	.52
7812CD2T-TRI	497-1178-1-ND	12V, Positive Voltage Regulator	D2-PAK	.86	.69	.52
7812CD2T-TRI	497-1178-2-ND	12V, Positive Voltage Regulator	D2-PAK		295.00/1,000	
7812CP	497-1451-5-ND	12V, Positive Voltage Regulator	TO-220FP	.98	.85	.65
7812CT	497-1006-ND	12V, Positive Voltage Regulator	TO-3	1.86	1.55	1.31
7812CV	497-1452-5-ND	12V, Positive Voltage Regulator	TO-220	.55	.44	.33
7815ACV	497-1453-5-ND	15V, Precision 1A Regulator	TO-220	.77	.62	.46
7815CD2T-TRI	497-1179-1-ND	15V, Positive Voltage Regulator	D2-PAK	.95	.76	.57
7815CD2T-TRI	497-1179-2-ND	15V, Positive Voltage Regulator	D2-PAK		326.00/1,000	
7815CT	497-1007-ND	15V, Positive Voltage Regulator	TO-3	2.16	1.80	1.52
7815CV	497-1454-5-ND	15V, Positive Voltage Regulator	TO-220	.55	.44	.33
7818ABV	497-1455-5-ND	18V, Precision 1A Regulator	TO-220	1.24	1.08	.83
7818CV	497-1456-5-ND	18V, Positive Voltage Regulator	TO-220	.65	.52	.39
7820CV	497-1457-5-ND	20V, Positive Voltage Regulator	TO-220	.65	.52	.39
7824ACV	497-1458-5-ND	24V, Precision 1A Regulator	TO-220	.77	.62	.46
7824CD2T	497-1459-5-ND	24V, Positive Voltage Regulator	D2-PAK	1.05	.91	.70
7824CT	497-1008-ND	24V, Positive Voltage Regulator	TO-3	2.16	1.80	1.52
7824CV	497-1460-5-ND	24V, Positive Voltage Regulator	TO-220	.65	.52	.39
7905ACV	497-1471-5-ND	-5V, Negative 2% Regulator	TO-220	.77	.62	.46
7905CD2T	497-2959-5-ND	-5V, Negative Voltage Regulator	D2-PAK	1.16	1.01	.78
7905CD2T-TRI	497-1214-1-ND	-5V, Negative Voltage Regulator	D2-PAK	.99	.80	.55
7905CD2T-TRI	497-1214-2-ND	-5V, Negative Voltage Regulator	D2-PAK		341.00/1,000	
7905CV	497-1472-5-ND	-5V, Negative Voltage Regulator	TO-220	.65	.52	.39
7906CD2T-TR	497-4230-1-ND	-6V, Negative Voltage Reg. **NEW!**	D2-PAK	.95	.76	.57
7906CD2T-TR	497-4230-2-ND	-6V, Negative Voltage Reg. **NEW!**	D2-PAK		326.00/1,000	
7906CV	497-1473-5-ND	-6V, Negative Voltage Reg.	TO-220	.72	.58	.44
7908ACV	497-4231-5-ND	-8V, Negative Voltage Reg. **NEW!**	TO-220	.72	.58	.44
7908CV	497-1474-5-ND	-8V, Negative Voltage Reg.	TO-220	.72	.58	.44
7912ACV	497-1475-5-ND	-12V, Negative 2% Regulator	TO-220	.72	.58	.44
7912CD2T-TRI	497-1215-1-ND	-12V, Negative Voltage Regulator	D2-PAK	1.08	.87	.60
7912CD2T-TRI	497-1215-2-ND	-12V, Negative Voltage Regulator	D2-PAK		372.00/1,000	
L7912CV	497-1476-5-ND	-12V, Negative Voltage Regulator	TO-220	.65	.52	.39
L7915ACV	497-1477-5-ND	-15V, Negative Voltage Regulator	TO-220	.72	.58	.44
L7915CD2T-TRI	497-1216-1-ND	-15V, Negative Voltage Regulator	D2-PAK	1.16	1.01	.78
L7915CD2T-TRI	497-1216-2-ND	-15V, Negative Voltage Regulator	D2-PAK		450.00/1,000	
L7915CV	497-1478-5-ND	-15V, Negative Voltage Regulator	TO-220	.65	.52	.39
L7918CV	497-1479-5-ND	-18V, Negative Voltage Regulator	TO-220	.65	.52	.39
L7924CV	497-1480-5-ND	-24V, Negative Voltage Regulator	TO-220	.68	.54	.45

STMicroelectronics — APPLICATION SPECIFIC DISCRETES

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
ACS102-5TA-TR	497-3113-1-ND	AC Line Switch	TO-92	1.13	.98	.75
ACS102-5TA-TR	497-3113-2-ND	AC Line Switch	TO-92		870.00/2,000	
ACS108-5SA	497-2401-ND	AC Line Switch	TO-92	1.68	1.40	1.18
ACS108-5SN	497-2448-1-ND	AC Line Switch	SOT-223	2.10	1.75	1.47
ACS108-5SN	497-2448-2-ND	AC Line Switch	SOT-223		945.00/1,000	
ACS110-7SB2	497-4149-5-ND	AC Line Switch **NEW!**	8-DIL	1.80	1.50	1.26
ACS120-7SFP	497-3815-5-ND	AC Line Switch	TO-220-FPAB	1.73	1.50	1.15
ACS302-5T3	497-3114-5-ND	AC Switch Array, 3 Lines	20-SOIC	2.13	1.78	1.50
ACST4-7CFP	497-3820-5-ND	AC Power Switch	TO-220-FPAB	2.40	2.00	1.68
ACST4-7SB	497-2555-5-ND	AC Power Switch	D-PAK	2.40	2.00	1.68
ACST4-7SB-TR	497-2555-1-ND	AC Power Switch **NEW!**	D-PAK	1.50	1.25	1.05
ACST4-7SB-TR	497-2555-2-ND	AC Power Switch **NEW!**	D-PAK		1625.00/2,500	
ACST4-7SFP	497-2568-5-ND	AC Power Switch	TO-220-FPAB	2.40	2.00	1.68
ACST6-7SFP	497-3789-5-ND	Over Voltage Protected AC Power Switch	TO-220-FPAB	1.89	1.58	1.33
ACST6-7SG	497-3115-5-ND	Over Voltage Protected AC Power Switch	D2-PAK	1.83	1.53	1.29
ACST6-7ST	497-2547-5-ND	Over Voltage Protected AC Power Switch	TO-220AB	1.65	1.38	1.16
ACST8-8CFP	497-2566-5-ND	Over Voltage Protected AC Power Switch	TO-220-FPAB	2.31	1.93	1.62
ACST8-8CG-TR	497-4151-1-ND	Over Voltage Protected AC Power Switch **NEW!**	D2-PAK	2.31	1.93	1.62
ACST8-8CG-TR	497-4151-2-ND	Over Voltage Protected AC Power Switch **NEW!**	D2-PAK		577.50/500	
ACST8-8CT	497-3380-ND	Over Voltage Protected AC Power Switch	TO-220AB	2.31	1.93	1.62
AVS08CB	497-2567-5-ND	Auto Voltage Switch	TO-220AB	2.22	1.85	1.56
AVS1ACP08	497-3820-ND	Auto Voltage Switch	8-Dip	3.78	3.29	2.45
AVS12CB	497-2564-5-ND	Auto Voltage Switch	TO-220AB	2.73	2.38	1.77
DA108S1	497-2696-5-ND	Diode Array	8-SOIC	1.43	1.24	.95
DA108S1RL	497-3399-1-ND	8 Diode Array	8-SOIC	1.43	1.24	.95
DA108S1RL	497-3399-2-ND	8 Diode Array	8-SOIC		1262.50/2,500	
DALC112S1	497-2695-5-ND	12 Diode Low Cap. Array for ESD Protection	8-SOIC	1.24	1.08	.83
DALC112S1RL	497-3400-1-ND	12 Diode Low Cap. Array for ESD Protection	8-SOIC	1.24	1.08	.83
DALC112S1RL	497-3400-2-ND	12 Diode Low Cap. Array for ESD Protection	8-SOIC		1097.50/2,500	
DALC208SC6	497-2525-1-ND	Low Cap. Diode Array	SOT-23-6	1.24	1.08	.83
DALC208SC6	497-2525-2-ND	Low Cap. Diode Array	SOT-23-6		1317.00/3,000	
EMIF01-10005W5	497-3708-1-ND	1 Line EMI Filter	SOT-323-5	1.13	.98	.75
EMIF01-10005W5	497-3708-2-ND	1 Line EMI Filter	SOT-323-5		1197.00/3,000	
EMIF02-MIC02F2	497-3782-1-ND	2 Lines EMI Filter, ESD Protection	Flip Chip	1.13	.98	.75
EMIF02-MIC02F2	497-3782-2-ND	2 Lines EMI Filter, ESD Protection	Flip Chip		1915.00/5,000	
EMIF03-SIM01	497-3709-1-ND	3 Lines EMI Filter	Flip Chip	1.09	.95	.73
EMIF03-SIM01	497-3709-2-ND	3 Lines EMI Filter	Flip Chip		1850.00/5,000	
EMIF06-10006F1	497-3710-1-ND	6 Lines EMI Filter	Flip Chip	1.09	.95	.73
EMIF06-10006F1	497-3710-2-ND	6 Lines EMI Filter	Flip Chip		1850.00/5,000	
SSRP105B1	497-4303-5-ND	Dual Asymmetrical Overvoltage Protection for Telecom Line **NEW!**	8-SOIC	1.50	1.25	1.05
ST1284-01A8	497-2565-5-ND	Single Termination Network	28-QSOP	2.85	2.38	2.00
ST1394-01SC6	497-3725-1-ND	IEEE1394 One Port Cable Termination Network with ESD Protection	SOT-23-6	1.13	.98	.75
ST1394-01SC6	497-3725-2-ND	IEEE1394 One Port Cable Termination Network with ESD Protection	SOT-23-6		1197.00/3,000	
STIL02-P5	497-3174-5-ND	AC Inrush Current Limiter	Pentawatt HV2	1.77	1.48	1.24
STIL04-P5	497-3175-5-ND	AC Inrush Current Limiter	Pentawatt HV2	1.77	1.48	1.24
STIL04-T5	497-4359-5-ND	AC Inrush Current Limiter **NEW!**	Pentawatt HV2	2.40	2.00	1.68
STIL08-T5	497-4360-5-ND	AC Inrush Current Limiter **NEW!**	Pentawatt	2.70	2.25	1.89
STLD20D-C8	497-4361-1-ND	White LED Power Supply **NEW!**	SOT-23-8L	2.25	1.88	1.58
STLD20D-C8	497-4361-2-ND	White LED Power Supply **NEW!**	SOT-23-8L		2925.00/3,000	
STLD20D-DEF	497-4362-1-ND	White LED Power Supply **NEW!**	8-QFN	2.40	2.00	1.68
STLD20D-DEF	497-4362-2-ND	White LED Power Supply **NEW!**	8-QFN		3120.00/3,000	
STP08C596B1	497-3744-5-ND	8-Bit Constant Current LED Sink Driver	16-Dip	1.68	1.40	1.18
STPAC01F2	497-4388-1-ND	RF Detector for Power Amp Control **NEW!**	Flip Chip	1.58	1.37	1.05
STPAC01F2	497-4388-2-ND	RF Detector for Power Amp Control **NEW!**	Flip Chip		2680.00/5,000	
STPAC02F1	497-4389-1-ND	RF Detector for Power Amp Control **NEW!**	Flip Chip	1.65	1.43	1.10
STPAC02F1	497-4389-2-ND	RF Detector for Power Amp Control **NEW!**	Flip Chip		2805.00/5,000	
TN22-1500B-TR	497-3772-1-ND	400V, 1.8A Startlight	D-PAK	1.58	1.37	1.05
TN22-1500B-TR	497-3772-2-ND	400V, 1.8A Startlight	D-PAK		1397.50/2,500	
TPN3021RL	497-3741-1-ND	Tripolar Overvoltage Protection for Network Interfaces	8-SOIC	1.65	1.38	1.16
TPN3021RL	497-3741-2-ND	Tripolar Overvoltage Protection for Network Interfaces	8-SOIC		1787.50/2,500	
USB6B1	497-2727-5-ND	Data Line Protection	8-SOIC	1.69	1.47	1.13
USB6B1RL	497-3281-1-ND	Data Line Protection	8-SOIC	1.28	1.11	.85
USB6B1RL	497-3281-2-ND	Data Line Protection	8-SOIC		1130.00/2,500	
USBDF02W5	497-3742-1-ND	EMI Filter and Line Termination for USB Downstream Ports	SOT-323-5	1.35	1.17	.90
USBDF02W5	497-3742-2-ND	EMI Filter and Line Termination for USB Downstream Ports	SOT-323-5		1437.00/3,000	
USBLC6-4SC6	497-4492-1-ND	Very Low Capacitance ESD Protection **NEW!**	SOT-23-6L	1.28	1.11	.85

(Continued)

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STMicroelectronics — APPLICATION SPECIFIC DISCRETES (Continued)

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
USBLC6-4SC6	497-4492-2-ND	Very Low Capacitance ESD Protection ***NEW!***	SOT-23-6L		1356.00/3,000	
USBUF01P6	497-3282-1-ND	EMI Filter/Line Termination	SOT-666	.90	.72	.54
USBUF01P6	497-3282-2-ND	EMI Filter/Line Termination	SOT-666		855.00/3,000	
USBUF02W6	497-3743-1-ND	EMI Filter and Line Termination for USB Upstream Ports	SOT-323-6	1.08	.87	.65
USBUF02W6	497-3743-2-ND	EMI Filter and Line Termination for USB Upstream Ports	SOT-323-6		1026.00/3,000	

STMicroelectronics — HCF SERIES

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
HCF4001BEY	497-1340-5-ND	Quad 2-Input NOR Gate	14-Dip	.49	.30	.23
HCF4001M013TRI	497-1110-1-ND	Quad 2-Input NOR Gate	14-SOIC	.55	.43	.26
HCF4001M013TRI	497-1110-2-ND	Quad 2-Input NOR Gate	14-SOIC		362.50/2,500	
HCF4011BEY	497-1345-5-ND	Quad 2-Input NAND Gate	14-Dip	.48	.35	.26
HCF4011M013TRI	497-1114-1-ND	Quad 2-Input NAND Gate	14-SOIC	.49	.30	.23
HCF4011M013TRI	497-1114-2-ND	Quad 2-Input NAND Gate	14-SOIC		320.00/2,500	
HCF4013BEY	497-1346-5-ND	Dual D-Type Flip-Flop	14-Dip	.48	.35	.26
HCF4013M013TRI	497-1115-1-ND	Dual D-Type Flip-Flop	14-SOIC	.55	.34	.26
HCF4013M013TRI	497-1115-2-ND	Dual D-Type Flip-Flop	14-SOIC		362.50/2,500	
HCF4014BEY	497-1347-5-ND	Sync. Parallel or Serial In/Serial Out 8-Stage Static Shift Register	16-Dip	.63	.51	.38
HCF4014M013TRI	497-1116-1-ND	Sync. Parallel or Serial In/Serial Out 8-Stage Static Shift Register	16-SOIC	.55	.34	.26
HCF4014M013TRI	497-1116-2-ND	Sync. Parallel or Serial In/Serial Out 8-Stage Static Shift Register	16-SOIC		362.50/2,500	
HCF4015BEY	497-1348-5-ND	Dual 4-Stage Static Shift Register	16-Dip	.48	.35	.26
HCF4015M013TRI	497-1117-1-ND	Dual 4-Stage Static Shift Register	16-SOIC	.72	.58	.44
HCF4015M013TRI	497-1117-2-ND	Dual 4-Stage Static Shift Register	16-SOIC		570.00/2,500	
HCF4016BEY	497-1349-5-ND	Quad Bilateral Switch	14-Dip	.65	.47	.36
HCF4016M013TRI	497-1118-1-ND	Quad Bilateral Switch	14-SOIC	.49	.30	.23
HCF4016M013TRI	497-1118-2-ND	Quad Bilateral Switch	14-SOIC		320.00/2,500	
HCF4017BEY	497-1350-5-ND	Decade Counter w/10 Decoded Output	16-Dip	.77	.62	.46
HCF4017M013TRI	497-1119-1-ND	Decade Counter with 10 Decoded Output	16-SOIC	.55	.34	.26
HCF4017M013TRI	497-1119-2-ND	Decade Counter with 10 Decoded Output	16-SOIC		362.50/2,500	
HCF4020BEY	497-1351-5-ND	14-Stage Ripple-Carry Binary Counter/Divider	16-Dip	.60	.44	.33
HCF4021BEY	497-1352-5-ND	Async. Parallel In or Sync. Serial In/Serial Out 8-Stage Static Shift Register	16-Dip	.49	.43	.33
HCF4021M013TRI	497-1120-1-ND	Async. Parallel In or Sync. Serial In/Serial Out 8-Stage Static Shift Register	16-SOIC	.55	.40	.30
HCF4021M013TRI	497-1120-2-ND	Async. Parallel In or Sync. Serial In/Serial Out 8-Stage Static Shift Register	16-SOIC		412.50/2,500	
HCF4024BEY	497-1353-5-ND	7-Stage Ripply-Carry Binary Counter/Divider	14-Dip	.49	.30	.23
HCF4024M013TRI	497-1121-1-ND	7-Stage Ripply-Carry Binary Counter/Divider	14-SOIC	.49	.38	.23
HCF4024M013TRI	497-1121-2-ND	7-Stage Ripply-Carry Binary Counter/Divider	14-SOIC		320.00/2,500	
HCF4028BEY	497-1354-5-ND	BCD to Decimal Decoder	16-Dip	.65	.47	.36
HCF4028M013TRI	497-1122-1-ND	BCD to Decimal Decoder	16-SOIC	.48	.35	.26
HCF4028M013TRI	497-1122-2-ND	BCD to Decimal Decoder	16-SOIC		357.50/2,500	
HCF4030BEY	497-1355-5-ND	Quad Exclusive OR Gate	14-Dip	.60	.48	.36
HCF4030M013TRI	497-1123-1-ND	Quad Exclusive OR Gate	14-SOIC	.49	.30	.23
HCF4030M013TRI	497-1123-2-ND	Quad Exclusive OR Gate	14-SOIC		320.00/2,500	
HCF4040BEY	497-1356-5-ND	12-Stage Ripple-Carry Binary Counter/Divider	16-Dip	.63	.51	.38
HCF4040M013TRI	497-1124-1-ND	12-Stage Ripple-Carry Binary Counter/Divider	16-SOIC	.48	.35	.26
HCF4040M013TRI	497-1124-2-ND	12-Stage Ripple-Carry Binary Counter/Divider	16-SOIC		357.50/2,500	
HCF4042BEY	497-1357-5-ND	Quad Clocked D-Latch	16-Dip	.50	.40	.30
HCF4042M013TRI	497-1125-1-ND	Quad Clocked D-Latch	16-SOIC	.52	.32	.24
HCF4042M013TRI	497-1125-2-ND	Quad Clocked D-Latch	16-SOIC		340.00/2,500	
HCF4047BEY	497-1358-5-ND	Low Power Monostable/Astable Multivibrator	14-Dip	.60	.44	.33
HCF4047M013TRI	497-1126-1-ND	Low Power Monostable/Astable Multivibrator	14-SOIC	.65	.47	.36
HCF4047M013TRI	497-1126-2-ND	Low Power Monostable/Astable Multivibrator	14-SOIC		487.50/2,500	
HCF4049UBEY	497-1359-5-ND	Hex Buffer/Converter	16-Dip	.55	.40	.30
HCF4049UM013TRI	497-1127-1-ND	Hex Buffer/Converter	16-SOIC	.55	.34	.26
HCF4049UM013TRI	497-1127-2-ND	Hex Buffer/Converter	16-SOIC		362.50/2,500	
HCF4050BEY	497-1360-5-ND	Hex Buffer/Converter	16-Dip	.48	.35	.26
HCF4050M013TRI	497-1128-1-ND	Hex Buffer/Converter	16-SOIC	.55	.34	.26
HCF4050M013TRI	497-1128-2-ND	Hex Buffer/Converter	16-SOIC		362.50/2,500	
HCF4051BEY	497-1361-5-ND	8-Channel Analog Mux/Demux	16-Dip	.48	.35	.26
HCF4051M013TRI	497-1129-1-ND	8-Channel Analog Mux/Demux	16-SOIC	.48	.35	.26
HCF4051M013TRI	497-1129-2-ND	8-Channel Analog Mux/Demux	16-SOIC		357.50/2,500	
HCF4052BEY	497-1362-5-ND	Diff. 4-Ch. Analog Mux/Demux	16-Dip	.65	.47	.36
HCF4052M013TRI	497-1130-1-ND	Diff. 4-Ch. Analog Mux/Demux	16-SOIC	.48	.38	.29
HCF4052M013TRI	497-1130-2-ND	Diff. 4-Ch. Analog Mux/Demux	16-SOIC		357.50/2,500	
HCF4053BEY	497-1363-5-ND	Triple 2-Ch. Analog Mux/Demux	16-Dip	.48	.35	.26
HCF4053BTTR	497-2383-1-ND	Triple 2-Ch. Analog Mux/Demux	16-SOIC	.72	.58	.44
HCF4053BTTR	497-2383-2-ND	Triple 2-Ch. Analog Mux/Demux	16-SOIC		570.00/2,500	
HCF4053M013TRI	497-1131-1-ND	Triple 2-Ch. Analog Mux/Demux	16-SOIC	.65	.52	.36
HCF4053M013TRI	497-1131-2-ND	Triple 2-Ch. Analog Mux/Demux	16-SOIC		487.50/2,500	
HCF4056BEY	497-1364-5-ND	BCD to 7 Segment Decoder/Driver	16-Dip	.95	.76	.57
HCF4056M013TRI	497-1132-1-ND	BCD to 7 Segment Decoder/Driver	16-SOIC	.77	.62	.46
HCF4056M013TRI	497-1132-2-ND	BCD to 7 Segment Decoder/Driver	16-SOIC		605.00/2,500	
HCF4060BEY	497-1365-5-ND	14-Stage Ripple Carry Binary Counter/Divider and Oscillator	16-Dip	.65	.47	.36
HCF4060M013TRI	497-1133-1-ND	14-Stage Ripple Carry Binary Counter/Divider and Oscillator	16-SOIC	.60	.44	.33
HCF4060M013TRI	497-1133-2-ND	14-Stage Ripple Carry Binary Counter/Divider and Oscillator	16-SOIC		450.00/2,500	
HCF4066BEY	497-1366-5-ND	Quad Bilateral Switch for Transmission or Multiplexing of Analog or Digital Signals	14-Dip	.55	.34	.26
HCF4066M013TRI	497-1134-1-ND	Quad Bilateral Switch for Transmission or Multiplexing of Analog or Digital Signals	14-SOIC	.49	.38	.3
HCF4066M013TRI	497-1134-2-ND	Quad Bilateral Switch for Transmission or Multiplexing of Analog or Digital Signals	14-SOIC		320.00/2,50	
HCF4067M013TRI	497-1135-1-ND	Analog Single 16-Ch. Mux/Demux	24-SOIC	1.71	1.43	1.2
HCF4067M013TRI	497-1135-2-ND	Analog Single 16-Ch. Mux/Demux	24-SOIC		770.00/1,00	
HCF4069UBEY	497-1367-5-ND	Hex Inverter	14-Dip	.49	.38	.3
HCF4069UM013TRI	497-1136-1-ND	Hex Inverter	14-SOIC	.49	.38	.3
HCF4069UM013TRI	497-1136-2-ND	Hex Inverter	14-SOIC		320.00/2,50	
HCF4070BEY	497-1368-5-ND	Quad Exclusive OR Gate	14-Dip	.48	.35	.2
HCF4070M013TRI	497-1137-1-ND	Quad Exclusive OR Gate	14-SOIC	.55	.34	.2
HCF4070M013TRI	497-1137-2-ND	Quad Exclusive OR Gate	14-SOIC		362.50/2,50	
HCF4071BEY	497-1369-5-ND	Quad 2-Input OR Gate	14-Dip	.55	.34	.2
HCF4071M013TRI	497-1138-1-ND	Quad 2-Input OR Gate	14-SOIC	.49	.30	.2
HCF4071M013TRI	497-1138-2-ND	Quad 2-Input OR Gate	14-SOIC		320.00/2,50	
HCF4073BEY	497-1370-5-ND	Triple 3-Input AND Gate	14-Dip	.65	.52	.4
HCF4073M013TRI	497-1139-1-ND	Triple 3-Input AND Gate	14-SOIC	.65	.52	.4
HCF4073M013TRI	497-1139-2-ND	Triple 3-Input AND Gate	14-SOIC		487.50/2,50	
HCF4081BEY	497-1371-5-ND	Quad 2-Input AND Gate	14-Dip	.55	.34	.2
HCF4081M013TRI	497-1140-1-ND	Quad 2-Input AND Gate	14-SOIC	.49	.38	.3
HCF4081M013TRI	497-1140-2-ND	Quad 2-Input AND Gate	14-SOIC		320.00/2,50	
HCF4093BEY	497-1372-5-ND	Quad 2-Input NAND Schmitt Trigger	14-Dip	.49	.38	.3
HCF4093M013TRI	497-1141-1-ND	Quad 2-Input NAND Schmitt Trigger	14-SOIC	.49	.30	.2
HCF4093M013TRI	497-1141-2-ND	Quad 2-Input NAND Schmitt Trigger	14-SOIC		320.00/2,50	
HCF4094BEY	497-1373-5-ND	8-Stage Shift and Store Bus Register	16-Dip	.55	.34	.2
HCF4094M013TRI	497-1142-1-ND	8-Stage Shift and Store Bus Register	16-SOIC	.55	.34	.2
HCF4094M013TRI	497-1142-2-ND	8-Stage Shift and Store Bus Register	16-SOIC		362.50/2,50	
HCF4099BEY	497-1374-5-ND	8-Bit Addressable Latch	16-Dip	.72	.58	.4
HCF4099M013TRI	497-1143-1-ND	8-Bit Addressable Latch	16-SOIC	.65	.52	.4
HCF4099M013TRI	497-1143-2-ND	8-Bit Addressable Latch	16-SOIC		487.50/2,50	
HCF4511BEY	497-1375-5-ND	BCD to 7 Seg. Latch/Decoder/Driver	16-Dip	.72	.58	.4
HCF4511M013TRI	497-1144-1-ND	BCD to 7 Seg. Latch/Decoder/Driver	16-SOIC	.45	.36	.2
HCF4511M013TRI	497-1144-2-ND	BCD to 7 Seg. Latch/Decoder/Driver	16-SOIC		337.50/2,50	
HCF4520BEY	497-1376-5-ND	Dual Binary Up Counter	16-Dip	.68	.54	.4
HCF4520M013TRI	497-1145-1-ND	Dual Binary Up Counter	16-SOIC	.68	.54	.4
HCF4520M013TRI	497-1145-2-ND	Dual Binary Up Counter	16-SOIC		535.00/2,50	
HCF4536BEY	497-1377-5-ND	Programmable Timer	16-Dip	.72	.58	.4
HCF4538BEY	497-1378-5-ND	Dual Monostable Multivibrator	16-Dip	.65	.52	.4
HCF4538M013TRI	497-1146-1-ND	Dual Monostable Multivibrator	16-SOIC	.48	.35	.2
HCF4538M013TRI	497-1146-2-ND	Dual Monostable Multivibrator	16-SOIC		357.50/2,50	
HCF4541BEY	497-1379-5-ND	Programmable Timer	14-Dip	.55	.44	.3
HCF4541M013TRI	497-1147-1-ND	Programmable Timer	14-SOIC	.55	.44	.3
HCF4541M013TRI	497-1147-2-ND	Programmable Timer	14-SOIC		412.50/2,50	
HCF4555BEY	497-1380-5-ND	Dual Binary to 1-of-4 Decoder/Demux	16-Dip	.83	.67	.5
HCF4556M013TR	497-4040-1-ND	Dual Binary to 1-of-4 Decoder/Demux ***NEW!***	16-SOIC	.50	.40	.3
HCF4556M013TR	497-4040-2-ND	Dual Binary to 1-of-4 Decoder/Demux ***NEW!***	16-SOIC		375.00/2,50	
HCF40103BEY	497-1341-5-ND	8-Stage Presettable Sync. 8-Bit Binary Down Counter	16-Dip	1.05	.91	.7
HCF40106BEY	497-1342-5-ND	Hex Schmitt Trigger	14-Dip	.55	.34	.2
HCF40106M013TRI	497-1111-1-ND	Hex Schmitt Trigger	14-SOIC	.48	.35	.2
HCF40106M013TRI	497-1111-2-ND	Hex Schmitt Trigger	14-SOIC		357.50/2,50	
HCF40107BEY	497-1343-5-ND	Dual 2-Input NAND Buffer/Driver	8-Dip	.50	.40	.3
HCF40107M013TRI	497-1112-1-ND	Dual 2-Input NAND Buffer/Driver	8-SOIC	.72	.58	.4
HCF40107M013TRI	497-1112-2-ND	Dual 2-Input NAND Buffer/Driver	8-SOIC		570.00/2,50	
HCF40109BEY	497-1344-5-ND	Quad Low-to-High Volt. Level Shifter	16-Dip	.77	.62	.4
HCF40109M013TRI	497-1113-1-ND	Quad Low-to-High Volt. Level Shifter	16-SOIC	.55	.34	.2
HCF40109M013TRI	497-1113-2-ND	Quad Low-to-High Volt. Level Shifter	16-SOIC		362.50/2,50	

STMicroelectronics — EVALUATION BOARD

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	1
EVAL5970D	497-4132-ND	Evaluation Board for L5970 ***NEW!***	—	13.00	—	
EVAL5973AD	497-4133-ND	Evaluation Board for L5973 ***NEW!***	—	13.00	—	
EVAL5973D	497-4134-ND	Evaluation Board for L5973 ***NEW!***	—	13.00	—	
EVAL6206PD	497-4135-ND	Evaluation Board for L6206 ***NEW!***	—	32.50	—	
EVAL6208PD	497-4136-ND	Evaluation Board for L6208 ***NEW!***	—	32.50	—	
EVAL6562-250W	497-4137-ND	Evaluation Board for L6562-250 ***NEW!***	—	39.00	—	
EVAL6574B	497-3823-ND	Evaluation Board for HF TL Ballast	—	26.00	—	
EVALPRACTISPIN	497-4138-ND	Evaluation Board PractiSpin ***NEW!***	—	39.00	—	

STMicroelectronics — INTEGRATED CIRCUIT

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	1
74H1G66STR	497-1245-1-ND	Single Bilateral Switch	SOT-23-5L	.60	.48	
74H1G66STR	497-1245-2-ND	Single Bilateral Switch	SOT-23-5L		540.00/3,00	
DSM2150F5V-12T6	497-1320-ND	3.3V, Digital Signal Processor System Memory	80-TQFP	11.04	10.08	7.
DSM2180F3-90K6	497-1335-5-ND	5V, Digital Signal Processor System Memory	52-PLCC	9.36	8.55	6.
DSM2180F3-90T6	497-1321-ND	5V, Digital Signal Processor System Memory	52-PQFP	9.36	8.55	6.
DSM2180F3V-15K6	497-1336-5-ND	3.3V, Digital Signal Processor System Memory	52-PLCC	9.36	8.55	6.
DSM2180F3V-15T6	497-1322-ND	3.3V, Digital Signal Processor System Memory	52-PQFP	9.36	8.55	6.
DSM2190F4V-15K6	497-1337-5-ND	3.3V, Digital Signal Processor System Memory	52-PLCC	10.14	9.38	7.
DSM2190F4V-15T6	497-1323-ND	3.3V, Digital Signal Processor System Memory	52-PQFP	10.14	9.38	7.
EMIF03-SIM01F2	497-3401-1-ND	3-Line EMI Filter and ESD Protection	FlipChip	1.13	.98	
EMIF03-SIM01F2	497-3401-2-ND	3-Line EMI Filter and ESD Protection	FlipChip		1915.00/5,00	
EMIF10-LCD01F2	497-3402-1-ND	10-Line EMI Filter and ESD Protection	FlipChip	1.80	1.50	1.
EMIF10-LCD01F2	497-3402-2-ND	10-Line EMI Filter and ESD Protection	FlipChip		3825.00/5,00	
ETC5054D/H013TRI	497-1109-1-ND	Serial Interface Codec/Filter	16-SOIC	2.34	1.95	1.
ETC5054D/H013TRI	497-1109-2-ND	Serial Interface Codec/Filter	16-SOIC		1053.00/1,00	

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STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
TC5054D-X/HTR	497-1108-1-ND	Serial Interface Codec/Filter	16-SOIC	2.34	1.95	1.64
TC5054D-X/HTR	497-1108-2-ND	Serial Interface Codec/Filter	16-SOIC		1053.00/1,000	
TC5054N/H	497-1339-5-ND	Serial Interface Codec/Filter	16-Dip	2.92	2.54	1.89
TC5054N-X/H	497-1338-5-ND	Serial Interface Codec/Filter	16-Dip	2.92	2.54	1.89
TL-101	497-2381-ND	Flash Link Cable Programmer	—	61.36	—	—
TL149H	497-1381-5-ND	4A Linear Driver	5-Pentawatt	2.84	2.47	1.84
TL149V	497-3992-5-ND	4A Linear Driver **NEW!**	5-Pentawatt V	2.84	2.47	1.84
TL165H	497-2932-5-ND	3A Power Op Amp	5-Pentawatt	3.83	3.34	2.49
TL165V	497-2933-5-ND	3A Power Op Amp	5-Pentawatt	3.67	3.20	2.38
TL200CH	497-2934-5-ND	Adj. Voltage/Current Regulator	5-Pentawatt	2.22	1.85	1.56
TL200CV	497-1382-5-ND	Adj. Voltage/Current Regulator	5-Pentawatt	2.10	1.75	1.47
TL272	497-2935-5-ND	Dual Power Op Amp	16-Dip	2.22	1.85	1.56
TL272D	497-1386-5-ND	Dual Power Op Amp	16-SOIC Narrow	2.40	2.00	1.68
TL272M	497-1387-5-ND	Dual Power Op Amp	8-Mini Dip	2.34	1.95	1.64
TL292	497-1388-5-ND	Switch-Mode Driver for DC Motors	15V-Multiwatt	5.95	5.44	4.30
TL293B	497-1389-5-ND	Push-Pull 4-Channel Driver	16-Dip	2.97	2.59	1.93
TL293D	497-2936-5-ND	Push-Pull 4-Channel Driver	16-Dip	2.70	2.35	1.75
TL293DD	497-1390-5-ND	Push-Pull 4-Ch. Driver with Diodes	20-SOIC	2.97	2.59	1.93
TL293DD013TR	497-2937-1-ND	Push-Pull 4-Ch. Driver with Diodes	20-SOIC		3953.00/1,000	
TL293DD013TR	497-2937-2-ND	Push-Pull 4-Ch. Driver with Diodes	20-SOIC		1463.00/1,000	
TL293E	497-3622-ND	Push-Pull 4-Ch. Driver	20-PowerDip	2.97	2.59	1.93
TL294	497-2938-5-ND	Switch-Mode Solenoid Driver	11-Multiwatt	4.97	4.33	3.22
TL295	497-1391-5-ND	Dual Switch-Mode Solenoid Driver	15-Multiwatt	7.48	6.83	5.40
TL296	497-2939-5-ND	High Current Switching Reg.	15-Multiwatt	5.27	4.59	3.42
TL296HT	497-3994-5-ND	High Current Switching Reg. **NEW!**	15-Multiwatt	5.75	5.25	4.15
TL296P	497-1392-5-ND	High Current Switching Reg.	15-Multiwatt	8.63	7.88	6.23
TL296PHT	497-3995-5-ND	High Current Switching Reg. **NEW!**	15-Multiwatt	8.86	8.09	6.40
TL297D	497-1393-5-ND	Stepper Motor Controller	20-SOIC	7.13	6.51	5.15
TL297D013TR	497-3623-1-ND	Stepper Motor Controller	20-SOIC	7.13	6.51	5.15
TL297D013TR	497-3623-2-ND	Stepper Motor Controller	20-SOIC		3953.00/1,000	
TL297/1	497-1394-5-ND	Stepper Motor Controller	20-Dip	7.02	6.41	5.07
TL298HN	497-2940-5-ND	Dual Full-Bridge Driver	15-Multiwatt	6.21	5.41	4.03
TL298N	497-1395-5-ND	Dual Full-Bridge Driver	15-Multiwatt	4.19	3.65	2.72
TL298P	497-1396-5-ND	Dual Full-Bridge Driver	20-Power SOIC	4.86	4.23	3.15
TL298P013TR	497-3624-1-ND	Dual Full-Bridge Driver	20-Power SOIC	5.87	5.36	4.24
TL298P013TR	497-3624-2-ND	Dual Full-Bridge Driver	20-Power SOIC		1989.00/600	
TL387A	497-2941-5-ND	5V Regulator with Reset	5-Pentawatt	2.88	2.40	2.02
TL482D1013TR	497-3627-1-ND	Hall-Effect Pickup Ignition Controller	16-SOIC	4.19	3.65	2.72
TL482D1013TR	497-3627-2-ND	Hall-Effect Pickup Ignition Controller	16-SOIC		4960.00/2,500	
TL484D1013TR	497-3628-1-ND	Magnetic Pickup Ignition Controller	16-SOIC	3.89	3.39	2.52
TL484D1013TR	497-3628-2-ND	Magnetic Pickup Ignition Controller	16-SOIC		4607.50/2,500	
TL603C	497-3639-ND	5V, Darlington Array	18-Dip	2.34	1.95	1.64
TL2720	497-1383-5-ND	LDO Dual Power Op Amp	16-Power Dip	2.22	1.85	1.56
TL2720D13TR	497-3909-1-ND	LDO Dual Power Op Amp **NEW!**	16-SOIC	2.67	2.23	1.87
TL2720D13TR	497-3909-2-ND	LDO Dual Power Op Amp **NEW!**	16-SOIC		2892.50/2,500	
TL2722	497-1384-5-ND	LDO Dual Power Op Amp	8-Mini Dip	2.64	2.20	1.85
TL2724	497-1385-5-ND	Low Drop Dual Power Op Amp	9-Sip	2.85	2.38	2.00
TL3845B	497-3625-ND	Trunk Interface	8-Mini Dip	2.40	2.00	1.68
TL3845D1	497-1397-5-ND	Trunk Interface	8-SOIC	3.38	2.94	2.19
TL3845D1013TR	497-3626-1-ND	Trunk Interface	8-SOIC	3.38	2.94	2.19
TL3845D1013TR	497-3626-2-ND	Trunk Interface	8-SOIC		4000.00/2,500	
TL4936E	497-3913-5-ND	Dual Adv. Voltage Reg. **NEW!**	11-Multiwatt	6.21	5.67	4.49
TL4938E	497-3914-5-ND	Advanced Voltage Regulator **NEW!**	16-Dip	4.86	4.23	3.15
TL4938ED013TR	497-3355-1-ND	Advanced Voltage Regulator	20-SOIC	4.19	3.65	2.72
TL4938ED013TR	497-3355-2-ND	Advanced Voltage Regulator	20-SOIC		2062.00/1,000	
TL4938EPD13TR	497-3915-1-ND	Adv. Voltage Regulator **NEW!**	20-Power SOIC	6.21	5.41	4.03
TL4938EPD13TR	497-3915-2-ND	Adv. Voltage Regulator **NEW!**	20-Power SOIC		1932.00/600	
TL4938ND013TR	497-3916-1-ND	Dual Multifunction Volt. Reg. **NEW!**	20-SOIC	4.78	4.16	3.10
TL4938ND013TR	497-3916-2-ND	Dual Multifunction Volt. Reg. **NEW!**	20-SOIC		2354.00/1,000	
TL4938NPD013TR	497-3917-1-ND	Dual Multifunction Voltage Regulator **NEW!**	20-Power SOIC	5.05	4.40	3.28
TL4938NPD013TR	497-3917-2-ND	Dual Multifunction Voltage Regulator **NEW!**	20-Power SOIC		1570.80/600	
TL4960	497-1406-5-ND	2.5A Power Switching Regulator	Heptawatt	2.70	2.35	1.75
TL4960H	497-2942-5-ND	2.5A Power Switching Regulator	7-Heptawatt	2.70	2.35	1.75
TL4962/A	497-1407-5-ND	1.5A Power Switching Reg.	16-Power Dip	2.70	2.35	1.75
TL4962E/A	497-2943-5-ND	1.5A Power Switching Reg.	7-Heptawatt	2.70	2.35	1.75
TL4963D	497-1408-5-ND	1.5A Switching Regulator	20-SOIC	2.70	2.35	1.75
TL4964	497-1409-5-ND	High Current Switching Reg.	15-Multiwatt	6.21	5.41	4.03
TL4970A	497-1410-5-ND	10A Switching Regulator	15V-Multiwatt	12.20	11.29	8.54
TL4971D	497-1411-5-ND	1.5A Step Down Switching Reg.	16-SOIC	4.70	4.09	3.05
TL4971D013TR	497-3357-1-ND	1.5A Step Down Switching Reg.	16-SOIC	4.70	4.09	3.05
TL4971D013TR	497-3357-2-ND	1.5A Step Down Switching Reg.	16-SOIC		2314.00/1,000	
TL4972AD	497-4206-5-ND	2A Step Down Switching Reg. **NEW!**	20-SOIC	5.93	5.42	4.29
TL4972AD013TR	497-4207-1-ND	2A Step Down Switching Reg. **NEW!**	20-SOIC	5.93	5.42	4.29
TL4972AD013TR	497-4207-2-ND	2A Step Down Switching Reg. **NEW!**	20-SOIC		3290.00/1,000	
TL4973D3.3-013TR	497-3358-1-ND	3.5A Step Down Switching Reg.	20-SOIC	6.44	5.88	4.65
TL4973D3.3-013TR	497-3358-2-ND	3.5A Step Down Switching Reg.	20-SOIC		3570.00/1,000	
TL4973D5.1	497-1412-5-ND	3.5A Step Down Switching Reg.	20-SOIC	6.62	6.05	4.79
TL4973D5.1-013TR	497-3359-1-ND	3.5A Step Down Switching Reg.	20-SOIC	5.94	5.17	3.85
TL4973D5.1-013TR	497-3359-2-ND	3.5A Step Down Switching Reg.	20-SOIC		2926.00/1,000	
TL4973V3.3	497-1413-5-ND	3.5A Step Down Switching Reg.	18-Power Dip	6.44	5.88	4.65
TL4976D013TR	497-3360-1-ND	1A Step Down Switching Reg.	16-SOIC	4.13	3.60	2.68
TL4976D013TR	497-3360-2-ND	1A Step Down Switching Reg.	16-SOIC		2035.00/1,000	
TL4978D013TR	497-3361-1-ND	2A Step Down Switching Reg.	16-SOIC	4.89	4.26	3.17
TL4978D013TR	497-3361-2-ND	2A Step Down Switching Reg.	16-SOIC		2407.00/1,000	
TL4981A	497-3634-ND	Power Factor Corrector	20-Dip	5.18	4.52	3.36
TL4981AD	497-1414-5-ND	Power Factor Corrector	20-SOIC	5.40	4.70	3.50
TL5970D	497-1415-5-ND	Up to 1A Step Down Switching Reg.	8-SOIC	2.82	2.35	1.98
TL5971D	497-1416-5-ND	1.5A Step Down Switching Reg.	16-SOIC	4.70	4.09	3.05
TL5973AD	497-1417-5-ND	2A Step Down Switching Reg.	8-HSOP	3.38	2.94	2.19
TL5991AD13TR	497-3996-1-ND	Primary Controller w/Standby **NEW!**	16-SOIC	3.78	3.29	2.45
TL5991AD13TR	497-3996-2-ND	Primary Controller w/Standby **NEW!**	16-SOIC		4480.00/2,500	
TL5991D013TR	497-3997-1-ND	Primary Controller w/Standby **NEW!**	16-SOIC	3.78	3.29	2.45
TL5991D013TR	497-3997-2-ND	Primary Controller w/Standby **NEW!**	16-SOIC		4480.00/2,500	
TL5993D	497-2387-5-ND	Constant Power Controller	16-SOIC	3.78	3.29	2.45
TL6201	497-1418-5-ND	DMOS Full Bridge Driver	20-SOIC	8.56	7.82	6.18
TL6201PS	497-1419-5-ND	DMOS Full Bridge Driver	20-Power SOIC	8.79	8.03	6.35
TL6201PSTR	497-3641-1-ND	DMOS Full Bridge Driver	20-Power SOIC	8.79	8.03	6.35
TL6201PSTR	497-3641-2-ND	DMOS Full Bridge Driver	20-Power SOIC		2979.60/600	
TL6202	497-1420-5-ND	DMOS Full Bridge Driver	18-Power Dip	8.63	7.88	6.23
TL6203	497-1421-5-ND	DMOS Full Bridge Driver	Multiwatt	11.27	10.29	8.14
TL6204D	497-1422-5-ND	DMOS Dual Full Bridge Driver	28-SOIC	10.35	9.45	7.47
TL6205D	497-4208-5-ND	DMOS Dual Full Bridge Driver **NEW!**	20-SOIC	10.88	9.94	7.86
TL6205D013TR	497-3998-1-ND	DMOS Dual Full Bridge Driver **NEW!**	20-SOIC	10.88	9.94	7.86
TL6205D013TR	497-3998-2-ND	DMOS Dual Full Bridge Driver **NEW!**	20-SOIC		6031.00/1,000	
TL6205N	497-4209-5-ND	DMOS Dual Full Bridge Driver **NEW!**	20-Power Dip	10.88	9.94	7.86
TL6206PD	497-1423-5-ND	DMOS Dual Full Bridge Driver	20-Power SOIC	10.10	9.35	7.07
TL6205PD013TR	497-3642-1-ND	DMOS Dual Full Bridge Driver	20-Power SOIC	10.10	9.35	7.07
TL6205PD013TR	497-3642-2-ND	DMOS Dual Full Bridge Driver	20-Power SOIC		3848.40/600	
TL6206D	497-4210-5-ND	DMOS Dual Full Bridge Driver **NEW!**	24-SOIC	9.66	8.82	6.98
TL6206D013TR	497-3999-1-ND	DMOS Dual Full Bridge Driver **NEW!**	24-SOIC	9.66	8.82	6.98
TL6206D013TR	497-3999-2-ND	DMOS Dual Full Bridge Driver **NEW!**	24-SOIC		5355.00/1,000	
TL6206N	497-4211-5-ND	DMOS Dual Full Bridge Driver **NEW!**	24-Power Dip	9.78	8.93	7.06
TL6206PD013TR	497-3643-1-ND	DMOS Dual Full Bridge Driver	36-Power SOIC	10.94	10.12	7.66
TL6206PD013TR	497-3643-2-ND	DMOS Dual Full Bridge Driver	36-Power SOIC		4168.20/600	
TL6207D	497-1424-5-ND	DMOS Dual Full Bridge Driver with PWM Current Controller	24-SOIC	10.60	9.81	7.42
TL6207D013TR	497-3644-1-ND	DMOS Dual Full Bridge Driver	24-SOIC	10.60	9.81	7.42
TL6207D013TR	497-3644-2-ND	DMOS Dual Full Bridge Driver	24-SOIC		6625.00/1,000	
TL6207PD	497-4212-5-ND	DMOS Dual Full Bridge Driver **NEW!**	36-Power SOIC	11.40	10.55	7.98
TL6207PD013TR	497-4000-1-ND	DMOS Dual Full Bridge Driver **NEW!**	36-Power SOIC	11.40	10.55	7.98
TL6207PD013TR	497-4000-2-ND	DMOS Dual Full Bridge Driver **NEW!**	36-Power SOIC		4343.40/600	
TL6208D	497-4213-5-ND	DMOS Driver for Bipolar Stepper Motor **NEW!**	24-SOIC	13.30	12.31	9.31
TL6208D013TR	497-4001-1-ND	DMOS Driver for Bipolar Stepper Motor **NEW!**	24-SOIC	13.30	12.31	9.31
TL6208D013TR	497-4001-2-ND	DMOS Driver for Bipolar Stepper Motor **NEW!**	24-SOIC		8313.00/1,000	
TL6208PD	497-1425-5-ND	DMOS Driver for Bipolar Stepper Motor	36-Power SOIC	14.22	13.16	9.96
TL6208PD013TR	497-4214-1-ND	DMOS Driver for Bipolar Stepper Motor **NEW!**	36-Power SOIC	14.22	13.16	9.96
TL6208PD013TR	497-4214-2-ND	DMOS Driver for Bipolar Stepper Motor **NEW!**	36-Power SOIC		5418.00/600	
TL6219	497-1426-5-ND	Stepper Motor Driver	24-Power Dip	3.11	2.71	2.02
TL6219DS	497-1427-5-ND	Stepper Motor Driver	24-SOIC	3.11	2.71	2.02
TL6219DS013TR	497-3647-1-ND	Stepper Motor Driver	24-SOIC	3.38	2.94	2.19
TL6219DS013TR	497-3647-2-ND	Stepper Motor Driver	24-SOIC		1663.00/1,000	
TL6219DSA13TR	497-4002-1-ND	Stepper Motor Driver **NEW!**	24-SOIC	3.65	3.18	2.37
TL6219DSA13TR	497-4002-2-ND	Stepper Motor Driver **NEW!**	24-SOIC		1796.00/1,000	
TL6219R013TR	497-4003-1-ND	Stepper Motor Driver **NEW!**	24-SOIC	4.32	3.76	2.80
TL6219R013TR	497-4003-2-ND	Stepper Motor Driver **NEW!**	24-SOIC		2128.00/1,000	
TL6220	497-1428-5-ND	Quad Darlington Switch	16-Power Dip	2.76	2.30	1.94
TL6221AD013TR	497-4004-1-ND	Quad Darlington Switch **NEW!**	20-SOIC	4.73	4.12	3.07
TL6221AD013TR	497-4004-2-ND	Quad Darlington Switch **NEW!**	20-SOIC		2328.00/1,000	
TL6221AS	497-1429-5-ND	Quad Darlington Switch	16-Power Dip	2.55	2.13	1.79
TL6225D	497-1430-5-ND	DMOS Dual Full Bridge Driver	20-SOIC	6.08	5.29	3.94
TL6225PD	497-1431-5-ND	DMOS Dual Full Bridge Driver	20-Power SOIC	6.21	5.67	4.49
TL6226DTR	497-3362-1-ND	DMOS Dual Full Bridge Driver	24-SOIC	6.08	5.29	3.94
TL6226DTR	497-3362-2-ND	DMOS Dual Full Bridge Driver	24-SOIC		2993.00/1,000	
TL6226PD	497-1432-5-ND	DMOS Dual Full Bridge Driver	36-Power SOIC	6.21	5.67	4.49
TL6227DTR	497-3363-1-ND	DMOS Dual Full Bridge Driver with PWM Controller	24-SOIC	8.05	7.35	5.81
TL6227DTR	497-3363-2-ND	DMOS Dual Full Bridge Driver with PWM Controller	24-SOIC		4463.00/1,000	
TL6227N	497-3648-ND	DMOS Dual Full Bridge Driver with PWM Current Controller	24-Dip	8.05	7.35	5.81
TL6227PDTR	497-4006-1-ND	DMOS Dual Full Bridge Driver with PWM Current Controller **NEW!**	36-Power SOIC	8.97	8.19	6.48
TL6227PDTR	497-4006-2-ND	DMOS Dual Full Bridge Driver with PWM Current Controller **NEW!**	36-Power SOIC		3042.00/600	
TL6228DTR	497-3364-1-ND	DMOS Driver for Bipolar Stepper Motor	24-SOIC	8.05	7.35	5.81
TL6228DTR	497-3364-2-ND	DMOS Driver for Bipolar Stepper Motor	24-SOIC		4463.00/1,000	
TL6228PDTR	497-4007-1-ND	DMOS Driver for Bipolar Stepper Motor **NEW!**	36-Power SOIC	8.97	8.19	6.48
TL6228PDTR	497-4007-2-ND	DMOS Driver for Bipolar Stepper Motor **NEW!**	36-Power SOIC		3042.00/600	
TL6229DTR	497-4008-1-ND	DMOS Driver for 3-Phase Brushless DC Motor **NEW!**	24-SOIC	8.97	8.19	6.48
TL6229DTR	497-4008-2-ND	DMOS Driver for 3-Phase Brushless DC Motor **NEW!**	24-SOIC		4973.00/1,000	
TL6229PDTR	497-4215-1-ND	DMOS Driver for 3-Phase Brushless DC Motor **NEW!**	36-Power SOIC	8.63	7.88	6.23
TL6229PDTR	497-4215-2-ND	DMOS Driver for 3-Phase Brushless DC Motor **NEW!**	36-Power SOIC		2925.00/600	
TL6234PD	497-2944-5-ND	3-Phase Motor Driver	20-SOIC	10.35	9.45	7.47
TL6235D	497-4216-5-ND	DMOS Driver for 3-Phase Brushless DC Motor **NEW!**	24-SOIC	13.34	12.34	9.34
TL6235D013TR	497-4009-1-ND	DMOS Driver for 3-Phase Brushless DC Motor **NEW!**	24-SOIC	13.34	12.34	9.34
TL6235D013TR	497-4009-2-ND	DMOS Driver for 3-Phase Brushless DC Motor **NEW!**	24-SOIC		8337.50/1,000	
TL6235PD013TR	497-4010-1-ND	DMOS Driver for 3-Phase Brushless DC Motor **NEW!**	36-Power SOIC	14.00	12.95	9.80
TL6235PD013TR	497-4010-2-ND	DMOS Driver for 3-Phase Brushless DC Motor **NEW!**	36-Power SOIC		5334.00/600	
TL6258E	497-1433-5-ND	PWM Controlled, High Current DMOS Universal Motor Driver	36-Power SOIC	10.35	9.45	7.47
TL6258EX	497-3702-5-ND	PWM Controlled, High Current DMOS Universal Motor Driver	36-Power SOIC	6.10	5.57	4.40
TL6370D013TR	497-4011-1-ND	2.5A High Side Driver Industrial Intelligent Power Switch **NEW!**	20-Power SOIC	8.97	8.19	6.48
TL6370D013TR	497-4011-2-ND	2.5A High Side Driver Industrial Intelligent Power Switch **NEW!**	20-Power SOIC		3042.00/600	

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STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
L6374FP013TR	497-4012-1-ND	Industrial Quad Line Driver **NEW!**	20-SOIC	8.97	8.19	6.48
L6374FP013TR	497-4012-2-ND	Industrial Quad Line Driver **NEW!**	20-SOIC		4973.00/1,000	
L6375D013TR	497-4013-1-ND	0.5A Industrial Intelligent Power Switch **NEW!**	20-SOIC	4.05	3.53	2.63
L6375D013TR	497-4013-2-ND	0.5A Industrial Intelligent Power Switch **NEW!**	20-SOIC		1995.00/1,000	
L6376D013TR	497-3365-1-ND	0.5A High-Side Driver, Quad Intelligent Power Switch	20-Power SOIC	10.70	9.90	7.49
L6376D013TR	497-3365-2-ND	0.5A High-Side Driver, Quad Intelligent Power Switch	20-Power SOIC		4077.00/600	
L6377D	497-1434-5-ND	0.5A High-Side Driver Intelligent Power Switch	14-SOIC	5.67	4.94	3.68
L6384D013TR	497-4014-1-ND	High Volt. Half Bridge Driver **NEW!**	8-SOIC	4.05	3.53	2.63
L6384D013TR	497-4014-2-ND	High Volt. Half Bridge Driver **NEW!**	8-SOIC		4800.00/2,500	
L6385D	497-1435-5-ND	High Voltage High/Low Side Driver	8-SOIC	2.91	2.43	2.04
L6385D013TR	497-3650-1-ND	High Voltage High/Low Side Driver	8-SOIC	2.91	2.43	2.04
L6385D013TR	497-3650-2-ND	High Voltage High/Low Side Driver	8-SOIC		3152.50/2,500	
L6386D	497-1436-5-ND	High Voltage High/Low Side Driver	14-SOIC	4.32	3.76	2.80
L6386D013TR	497-3651-1-ND	High Voltage High/Low Side Driver	14-SOIC	4.32	3.76	2.80
L6386D013TR	497-3651-2-ND	High Voltage High/Low Side Driver	14-SOIC		5120.00/2,500	
L6387DTR	497-4015-1-ND	High Voltage High/Low Side Driver **NEW!**	8-SOIC	4.05	3.53	2.63
L6387DTR	497-4015-2-ND	High Voltage High/Low Side Driver **NEW!**	8-SOIC		4800.00/2,500	
L6506	497-2945-5-ND	Current Controller for Stepping Motor	18-Dip	4.86	4.23	3.15
L6506D	497-1437-5-ND	Current Controller for Stepping Motor	20-SOIC	5.18	4.52	3.36
L6506D013TR	497-3652-1-ND	Current Controller for Stepping Motor	20-SOIC	5.18	4.52	3.36
L6506D013TR	497-3652-2-ND	Current Controller for Stepping Motor	20-SOIC		2554.00/1,000	
L6560AD	497-1438-5-ND	Power Factor Corrector	8-SOIC	1.56	1.30	1.10
L6561	497-3653-ND	Power Factor Corrector	8-MiniDip	1.56	1.30	1.10
L6561D	497-2946-5-ND	Power Factor Corrector	8-SOIC	1.56	1.30	1.10
L6561D013TRI	497-1169-1-ND	Power Factor Corrector	8-SOIC	1.56	1.30	1.10
L6561D013TRI	497-1169-2-ND	Power Factor Corrector	8-SOIC		1690.00/2,500	
L6562DTR	497-3366-1-ND	Transition-Mode PFC Controller	8-SOIC	1.69	1.47	1.13
L6562DTR	497-3366-2-ND	Transition-Mode PFC Controller	8-SOIC		1497.50/2,500	
L6565DTR	497-4017-1-ND	Quasi-Resonant SMPS Controller **NEW!**	8-SOIC	2.70	2.35	1.75
L6565DTR	497-4017-2-ND	Quasi-Resonant SMPS Controller **NEW!**	8-SOIC		3200.00/2,500	
L6569	497-4217-5-ND	HV Half Bridge Driver with Oscillator **NEW!**	8-Dip	2.55	2.13	1.79
L6569A	497-3654-ND	HV Half Bridge Driver with Oscillator	8-MiniDip	2.55	2.13	1.79
L6569AD	497-1439-5-ND	HV Half Bridge Driver with Oscillator	8-SOIC	2.55	2.13	1.79
L6571AD013TR	497-3367-1-ND	HV Half Bridge Driver with Oscillator	8-SOIC	2.55	2.13	1.79
L6571AD013TR	497-3367-2-ND	HV Half Bridge Driver with Oscillator	8-SOIC		2762.50/2,500	
L6571BD013TR	497-3655-1-ND	HV Half Bridge Driver with Oscillator	8-SOIC	2.55	2.13	1.79
L6571BD013TR	497-3655-2-ND	HV Half Bridge Driver with Oscillator	8-SOIC		2762.50/2,500	
L6574D013TR	497-4018-1-ND	CFL/TL Ballast Driver Preheat and Dimming **NEW!**	16-SOIC	2.81	2.45	1.82
L6574D013TR	497-4018-2-ND	CFL/TL Ballast Driver Preheat and Dimming **NEW!**	16-SOIC		3327.50/2,500	
L6590D013TR	497-4019-1-ND	Fully Integrated Power Supply **NEW!**	16-SOIC	4.19	3.65	2.72
L6590D013TR	497-4019-2-ND	Fully Integrated Power Supply **NEW!**	16-SOIC		2062.00/1,000	
L6598D013TR	497-4020-1-ND	High Voltage Resonant Controller **NEW!**	16-SOIC	4.32	3.76	2.80
L6598D013TR	497-4020-2-ND	High Voltage Resonant Controller **NEW!**	16-SOIC		5120.00/2,500	
L6610DTR	497-4021-1-ND	Digitally Programmable Secondary Housekeeping Controller **NEW!**	24-SOIC	4.59	4.00	2.98
L6610DTR	497-4021-2-ND	Digitally Programmable Secondary Housekeeping Controller **NEW!**	24-SOIC		2261.00/1,000	
L6611DTR	497-4022-1-ND	Digitally Programmable Secondary Housekeeping Controller **NEW!**	20-SOIC	4.59	4.00	2.98
L6611DTR	497-4022-2-ND	Digitally Programmable Secondary Housekeeping Controller **NEW!**	20-SOIC		2261.00/1,000	
L6615D013TR	497-4023-1-ND	High/Low Side Load Share Controller **NEW!**	8-SOIC	2.43	2.03	1.71
L6615D013TR	497-4023-2-ND	High/Low Side Load Share Controller **NEW!**	8-SOIC		2632.50/2,500	
L6712ADTR	497-4218-1-ND	2-Phase Interleaved DC/DC Controller **NEW!**	28-SOIC	5.80	5.30	4.19
L6712ADTR	497-4218-2-ND	2-Phase Interleaved DC/DC Controller **NEW!**	28-SOIC		3213.00/1,000	
L6712QTR	497-4219-1-ND	2-Phase Interleaved DC/DC Controller **NEW!**	36-VFQFPN	6.48	5.64	4.20
L6712QTR	497-4219-2-ND	2-Phase Interleaved DC/DC Controller **NEW!**	36-VFQFPN		7680.00/2,500	
L6910	497-4220-5-ND	Adj. Step Down Controller with Sync. Rectification **NEW!**	16-SOIC	2.94	2.45	2.06
L6910TR	497-3656-1-ND	Adj. Step Down Controller with Sync. Rectification	16-SOIC	2.94	2.45	2.06
L6910TR	497-3656-2-ND	Adj. Step Down Controller with Sync. Rectification	16-SOIC		3185.00/2,500	
L6919ETR	497-4221-1-ND	5-Bit Prog. Dual-Phase Controller **NEW!**	28-SOIC	6.16	5.63	4.45
L6919ETR	497-4221-2-ND	5-Bit Prog. Dual-Phase Controller **NEW!**	28-SOIC		3417.00/1,000	
L6920DTR	497-3368-1-ND	1V High Eff. Sync. Step Up Converter	8-TSSOP	2.97	2.59	1.93
L6920DTR	497-3368-2-ND	1V High Eff. Sync. Step Up Converter	8-TSSOP		5720.00/4,000	
L6925D013TR	497-3369-1-ND	High Eff. Mono Sync. Step Down Regulator	8-MSOP	2.55	2.13	1.79
L6925D013TR	497-3369-2-ND	High Eff. Mono Sync. Step Down Regulator	8-MSOP		4420.00/4,000	
L6926013TR	497-3370-1-ND	Battery Management		2.64	2.20	1.85
L6926013TR	497-3370-2-ND	Battery Management			4576.00/4,000	
L6928D013TR	497-4222-1-ND	High Efficiency Mono Sync. Step Down Regulator **NEW!**	8-MSOP	2.64	2.20	1.85
L6928D013TR	497-4222-2-ND	High Efficiency Mono Sync. Step Down Regulator **NEW!**	8-MSOP		4576.00/4,000	
L6932D1.2	497-3371-1-ND	High Perf. 2A ULDO Linear Regulator	8-SOIC	2.52	2.10	1.77
L6932D1.2	497-3371-2-ND	High Perf. 2A ULDO Linear Regulator	8-SOIC		2268.00/2,000	
L6995DTR	497-4223-1-ND	Step Down Controller **NEW!**	20-TSSOP	5.10	4.45	3.31
L6995DTR	497-4223-2-ND	Step Down Controller **NEW!**	20-TSSOP		6047.50/2,500	
L6997STR	497-4225-1-ND	Step Down Controller **NEW!**	20-TSSOP	3.78	3.29	2.45
L6997STR	497-4225-2-ND	Step Down Controller **NEW!**	20-TSSOP		4480.00/2,500	
L9222	497-3920-5-ND	Quad Inverting Transistor Switch **NEW!**	16-Power Dip	3.38	2.94	2.2
L9222D013TR	497-3921-1-ND	Quad Inverting Transistor Switch **NEW!**	20-SOIC	3.38	2.94	2.2
L9222D013TR	497-3921-2-ND	Quad Inverting Transistor Switch **NEW!**	20-SOIC		1663.00/1,000	
L9333MD-TR	497-3923-1-ND	Quad Low Side Driver **NEW!**	20-SOIC	3.13	2.73	2.1
L9333MD-TR	497-3923-2-ND	Quad Low Side Driver **NEW!**	20-SOIC		1543.00/1,000	
L9337MD/TR	497-3924-1-ND	Triple Low Side Driver **NEW!**	20-SOIC	3.13	2.73	2.1
L9337MD/TR	497-3924-2-ND	Triple Low Side Driver **NEW!**	20-SOIC		1543.00/1,000	
L9338MD	497-1481-5-ND	Quad Low Side Driver	20-SOIC	3.13	2.73	2.1
L9338MD/TR	497-3657-1-ND	Quad Low Side Driver	20-SOIC	3.13	2.73	2.1
L9338MD/TR	497-3657-2-ND	Quad Low Side Driver	20-SOIC		1543.00/1,000	
L9339-TR	497-3925-1-ND	Quad Low Side Driver **NEW!**	20-SOIC	3.13	2.73	2.1
L9339-TR	497-3925-2-ND	Quad Low Side Driver **NEW!**	20-SOIC		1543.00/1,000	
L9339MD-TR	497-3926-1-ND	Quad Low Side Driver **NEW!**	20-SOIC	3.13	2.73	2.1
L9339MD-TR	497-3926-2-ND	Quad Low Side Driver **NEW!**	20-SOIC		1543.00/1,000	
L9347PD-TR	497-3927-1-ND	Intelligent Quad Low Side Switch **NEW!**	36-Power SOIC	6.33	5.78	4.3
L9347PD-TR	497-3927-2-ND	Intelligent Quad Low Side Switch **NEW!**	36-Power SOIC		2145.00/600	
L9386MD	497-3928-5-ND	Dual Intelligent Power Low Side Switch **NEW!**	20-SOIC	5.27	4.59	3.5
L9613B013TR	497-3929-1-ND	Data Interface **NEW!**	8-SOIC	2.79	2.33	1.7
L9613B013TR	497-3929-2-ND	Data Interface **NEW!**	8-SOIC		3022.50/2,500	
L9615D013TR	497-3658-1-ND	CAN Bus Transceiver	8-SOIC	2.85	2.38	2.1
L9615D013TR	497-3658-2-ND	CAN Bus Transceiver	8-SOIC		3087.50/2,500	
L9616-TR	497-3930-1-ND	High Speed CAN Bus Transceiver **NEW!**	8-SOIC	3.24	2.82	2.1
L9616-TR	497-3930-2-ND	High Speed CAN Bus Transceiver **NEW!**	8-SOIC		3840.00/2,500	
L9637D013TR	497-3659-1-ND	ISO 9141 Interface	8-SOIC	2.55	2.13	1.7
L9637D013TR	497-3659-2-ND	ISO 9141 Interface	8-SOIC		2762.50/2,500	
L9638D013TR	497-3931-1-ND	LIN Bus Transceiver **NEW!**	8-SOIC	2.40	2.00	1.6
L9638D013TR	497-3931-2-ND	LIN Bus Transceiver **NEW!**	8-SOIC		2600.00/2,500	
L9651	497-3932-5-ND	Smart Quad Switch **NEW!**	20-Power SOIC	6.35	5.80	4.7
L9700D013TR	497-3372-1-ND	Hex Precision Limiter	8-SOIC	3.65	3.18	2.5
L9700D013TR	497-3372-2-ND	Hex Precision Limiter	8-SOIC		4320.00/2,500	
L9820D013TR	497-3934-1-ND	High Side Driver **NEW!**	8-SOIC	3.65	3.18	2.5
L9820D013TR	497-3934-2-ND	High Side Driver **NEW!**	8-SOIC		4320.00/2,500	
L9822E	497-3935-5-ND	Octal Serial Solenoid Driver **NEW!**	15-Multiwatt	9.78	8.93	7.3
L9822EPD013TR	497-3660-1-ND	Octal Serial Solenoid Driver	20-Power SOIC	6.44	5.88	4.8
L9822EPD013TR	497-3660-2-ND	Octal Serial Solenoid Driver	20-Power SOIC		2352.00/600	
L9825TR	497-3936-1-ND	Octal Low Side Driver Circuit for Automotive Applications **NEW!**	20-Power SOIC	3.38	2.94	2.2
L9825TR	497-3936-2-ND	Octal Low Side Driver Circuit for Automotive Applications **NEW!**	20-Power SOIC		1050.00/600	
L9903TR	497-3937-1-ND	Motor Bridge Controller **NEW!**	20-SOIC	6.67	6.09	4.9
L9903TR	497-3937-2-ND	Motor Bridge Controller **NEW!**	20-SOIC		3698.00/1,000	
L9925	497-3938-5-ND	DMOS Dual Full Bridge Driver **NEW!**	28-SOIC	7.59	6.93	5.6
L9997ND013TR	497-3661-1-ND	Dual Half Bridge Driver	20-SOIC	2.52	2.10	1.7
L9997ND013TR	497-3661-2-ND	Dual Half Bridge Driver	20-SOIC		1302.00/1,000	
L2726013TR	497-3621-1-ND	Low Drop Dual Pwr Op Amp	14-SOIC	2.70	2.25	1.8
L2726013TR	497-3621-2-ND	Low Drop Dual Pwr Op Amp	14-SOIC		1215.00/1,000	
L4969013TR	497-3356-1-ND	Voltage Reg. w/Fault Tolerant	20-Power SOIC	6.10	5.57	4.5
L4969013TR	497-3356-2-ND	Voltage Reg. w/Fault Tolerant	20-Power SOIC		2067.00/600	
L6201013TR	497-3640-1-ND	DMOS Full Bridge Driver	20-SOIC	8.56	7.82	6.3
L6201013TR	497-3640-2-ND	DMOS Full Bridge Driver	20-SOIC		4743.00/1,000	
L6451013TR	497-4016-1-ND	28-Ch. Ink Jet Driver **NEW!**	44-PLCC	8.72	7.96	6.2
L6451013TR	497-4016-2-ND	28-Ch. Ink Jet Driver **NEW!**	44-PLCC		2463.50/500	
L9669013TR	497-3933-1-ND	Fault Tolerant CAN Transceiver **NEW!**	14-SOIC	3.94	3.44	2.7
L9669013TR	497-3933-2-ND	Fault Tolerant CAN Transceiver **NEW!**	14-SOIC		4672.50/2,500	
L9935013TR	497-3373-1-ND	2-Phase Stepper Motor Driver	20-Power SOIC	6.05	5.53	4.3
L9935013TR	497-3373-2-ND	2-Phase Stepper Motor Driver	20-Power SOIC		2011.95/600	
LF347DT	497-2963-1-ND	Wide Bandwidth Quad J-FET Op Amp	14-SOIC	1.09	.95	.8
LF347DT	497-2963-2-ND	Wide Bandwidth Quad J-FET Op Amp	14-SOIC		965.00/2,500	
LF347N	497-2964-5-ND	Wide Bandwidth Quad J-FET Op Amp	14-Dip	1.05	.91	.7
LF351D	497-2965-5-ND	Wide Bandwidth Single J-FET Op Amp	8-SOIC	1.04	.83	.6
LF351DT	497-4041-1-ND	Wide Bandwidth Single J-FET Op Amp **NEW!**	8-SOIC	.90	.72	.5
LF351DT	497-4041-2-ND	Wide Bandwidth Single J-FET Op Amp **NEW!**	8-SOIC		712.50/2,500	
LF351N	497-2966-5-ND	Wide Bandwidth Single J-FET Op Amp	8-Dip	.99	.80	.6
LF353DT	497-2967-1-ND	Wide Bandwidth Dual J-FET Op Amp	8-SOIC	1.08	.87	.6
LF353DT	497-2967-2-ND	Wide Bandwidth Dual J-FET Op Amp	8-SOIC		855.00/2,500	
LF353N	497-2968-5-ND	Wide Bandwidth Dual J-FET Op Amp	8-Dip	1.08	.87	.6
LIS2L02AQ	497-4025-ND	Dual Axis Linear Accelerometer **NEW!**	44-QFN	19.90	18.41	13.9
LIS3L02AQ	497-4026-ND	Low Power Three Axis Linear Accelerometer **NEW!**	44-QFN	19.90	18.41	13.9
LK115D50-TR	497-1541-1-ND	5V, LDO Voltage Regulator	8-SOIC	1.09	.95	.8
LK115D50-TR	497-1541-2-ND	5V, LDO Voltage Regulator	8-SOIC		965.00/2,500	
LM124D	497-2969-5-ND	Low Power Quad Op Amp	14-SOIC	2.19	1.83	1.5
LM201AD	497-4042-1-ND	Single Op Amp **NEW!**	8-SOIC	1.58	1.37	1.0
LM201AD	497-4042-2-ND	Single Op Amp **NEW!**	8-SOIC		1218.00/2,000	
LM201AN	497-2970-5-ND	Single Op Amp	8-Dip	1.54	1.34	1.0
LM211DT	497-1542-1-ND	Voltage Comparator	8-SOIC	.65	.52	.3
LM211DT	497-1542-2-ND	Voltage Comparator	8-SOIC		487.50/2,500	
LM217T	497-1543-5-ND	1.2V to 37V Regulator	TO-220	1.39	1.21	.9
LM219D	497-2971-5-ND	High Speed Dual Comparator	14-SOIC	1.58	1.37	1.0
LM219DT	497-1544-1-ND	High Speed Dual Comparator	14-SOIC	1.35	1.17	.9
LM219DT	497-1544-2-ND	High Speed Dual Comparator	14-SOIC		1197.50/2,500	
LM224ADT	497-1545-1-ND	Low Power Quad Op Amp	14-SOIC	.95	.76	.5
LM224ADT	497-1545-2-ND	Low Power Quad Op Amp	14-SOIC		747.50/2,500	
LM224AN	497-1546-5-ND	Low Power Quad Op Amp	14-Dip	.81	.65	.4
LM224APT	497-4043-1-ND	Low Power Quad Op Amp **NEW!**	14-TSSOP	.86	.69	.4
LM224APT	497-4043-2-ND	Low Power Quad Op Amp **NEW!**	14-TSSOP		677.50/2,500	
LM224DT	497-2972-1-ND	Low Power Quad Op Amp	14-SOIC	.77	.62	.4

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STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
LM224DT	497-2972-2-ND	Low Power Quad Op Amp	14-SOIC		605.00/2,500	
LM224N	497-1547-5-ND	Low Power Quad Op Amp	14-Dip	.55	.44	.33
LM224PT	497-1548-1-ND	Low Power Quad Op Amp	14-TSSOP	.72	.58	.44
LM224PT	497-1548-2-ND	Low Power Quad Op Amp	14-TSSOP		570.00/2,500	
LM234DT	497-1549-1-ND	3-Terminal Adj. Current Source	8-SOIC	1.61	1.40	1.08
LM234DT	497-1549-2-ND	3-Terminal Adj. Current Source	8-SOIC		1430.00/2,500	
LM239ADT	497-1550-1-ND	LP Quad Volt. Comparator	14-SOIC	.77	.62	.48
LM239ADT	497-1550-2-ND	LP Quad Volt. Comparator	14-SOIC		605.00/2,500	
LM239AN	497-1551-5-ND	LP Quad Volt. Comparator	14-Dip	1.08	.87	.65
LM239DT	497-2973-1-ND	LP Quad Volt. Comparator	14-SOIC	.95	.76	.57
LM239DT	497-2973-2-ND	LP Quad Volt. Comparator	14-SOIC		747.50/2,500	
LM239N	497-1552-5-ND	LP Quad Volt. Comparator	14-Dip	.55	.44	.33
LM239PT	497-4044-1-ND	Low Power Quad Voltage Comparator **NEW!**	14-TSSOP	.65	.52	.39
LM239PT	497-4044-2-ND	Low Power Quad Voltage Comparator **NEW!**	14-TSSOP		487.50/2,500	
LM258DT	497-1553-1-ND	Low Power Dual Op Amp	8-SOIC	.55	.43	.26
LM258DT	497-1553-2-ND	Low Power Dual Op Amp	8-SOIC		362.50/2,500	
LM258N	497-1554-5-ND	Low Power Dual Op Amp	8-Dip	.55	.44	.33
LM293ADT	497-4264-1-ND	Low Power Dual Voltage Comparator **NEW!**	8-SOIC	.99	.80	.60
LM293ADT	497-4264-2-ND	Low Power Dual Voltage Comparator **NEW!**	8-SOIC		785.00/2,500	
LM293DT	497-1566-1-ND	LP Dual Voltage Comparator	8-SOIC	.55	.44	.33
LM293DT	497-1566-2-ND	LP Dual Voltage Comparator	8-SOIC		412.50/2,500	
LM293N	497-1567-5-ND	LP Dual Voltage Comparator	8-Dip	.55	.44	.33
LM293ST	497-4265-1-ND	Low Power Dual Voltage Comparator **NEW!**	8-Mini SOIC	.72	.58	.44
LM293ST	497-4265-2-ND	Low Power Dual Voltage Comparator **NEW!**	8-Mini SOIC		912.00/4,000	
LM301AN	497-1568-5-ND	Single Op Amp	8-Dip	1.05	.91	.70
LM311DT	497-1569-1-ND	Voltage Comparator	8-SOIC	.55	.43	.31
LM311DT	497-1569-2-ND	Voltage Comparator	8-SOIC		362.50/2,500	
LM311N	497-1570-5-ND	Voltage Comparator	8-Dip	.55	.43	.26
LM317D2T	497-2974-5-ND	1.2V to 37V Adjustable Regulator	D2-PAK	1.35	1.17	.90
LM317D2T-TR	497-1571-1-ND	1.2V to 37V Adjustable Regulator	D2-PAK	.99	.80	.60
LM317D2T-TR	497-1571-2-ND	1.2V to 37V Adjustable Regulator	D2-PAK		341.00/1,000	
LM317LD13TR	497-1572-1-ND	1.2V to 37V Adjustable Regulator	8-SOIC	.60	.48	.36
LM317LD13TR	497-1572-2-ND	1.2V to 37V Adjustable Regulator	8-SOIC		450.00/2,500	
LM317LZ	497-2975-5-ND	1.2V to 37V Adjustable Regulator	TO-92	.70	.56	.42
LM317LZ-AP	497-4266-1-ND	1.2V to 37V Adjustable Reg. **NEW!**	TO-92	.72	.58	.44
LM317LZ-AP	497-4266-3-ND	1.2V to 37V Adjustable Reg. **NEW!**	TO-92		496.00/2,000	
LM317LZ-TR	497-1573-1-ND	1.2V to 37V Adjustable Regulator	TO-92	.65	.52	.39
LM317LZ-TR	497-1573-2-ND	1.2V to 37V Adjustable Regulator	TO-92		416.00/2,000	
LM317MDT-TR	497-1574-1-ND	1.2V to 37V Adjustable Regulator	D-PAK	.77	.62	.46
LM317MDT-TR	497-1574-2-ND	1.2V to 37V Adjustable Regulator	D-PAK		605.00/2,500	
LM317T	497-1575-5-ND	1.2V to 37V Adjustable Regulator	TO-220	.65	.52	.36
LM319DT	497-1576-1-ND	High Speed Dual Comparator	14-SOIC	1.04	.83	.58
LM319DT	497-1576-2-ND	High Speed Dual Comparator	14-SOIC		820.00/2,500	
LM319N	497-1577-5-ND	High Speed Dual Comparator	14-Dip	1.04	.83	.63
LM323K	497-2976-5-ND	5V, 3A Positive Voltage Regulator	TO-220	4.70	4.09	3.05
LM324ADT	497-1578-1-ND	Low Power Quad Op Amp	14-SOIC	.55	.43	.26
LM324ADT	497-1578-2-ND	Low Power Quad Op Amp	14-SOIC		362.50/2,500	
LM324AN	497-1579-5-ND	Low Power Quad Op Amp	14-Dip	.55	.34	.26
LM324DT	497-1580-1-ND	Low Power Quad Op Amp	14-SOIC	.49	.38	.23
LM324DT	497-1580-2-ND	Low Power Quad Op Amp	14-SOIC		320.00/2,500	
LM324N	497-1581-5-ND	Low Power Quad Op Amp	14-Dip	.55	.43	.26
LM334Z	497-1582-ND	3-Terminal Adjustable Current Source	TO-92	1.24	1.08	.83
LM335ADT	497-4047-1-ND	Precision Temperature Sensor **NEW!**	8-SOIC	1.61	1.40	1.08
LM335ADT	497-4047-2-ND	Precision Temperature Sensor **NEW!**	8-SOIC		1430.00/2,500	
LM335AZ	497-2977-5-ND	Precision Temperature Sensor	TO-92	1.54	1.34	1.03
LM335D	497-2978-5-ND	Precision Temperature Sensor	8-SOIC	1.46	1.27	.98
LM335DT	497-1583-1-ND	Precision Temperature Sensor	8-SOIC	1.34	1.16	.90
LM335DT	497-1583-2-ND	Precision Temperature Sensor	8-SOIC		1187.50/2,500	
LM335Z	497-1584-ND	Precision Temperature Sensor	TO-92	1.20	1.04	.80
LM337SP	497-1585-5-ND	3-Terminal Adjustable Neg. Volt. Reg.	TO-220	1.35	1.17	.90
LM338K	497-2979-5-ND	3-Terminal 5A Adj. Volt. Regulator	TO-3	8.37	7.65	6.05
LM339ADT	497-1586-1-ND	LP Quad Voltage Comparator	14-SOIC	.55	.44	.33
LM339ADT	497-1586-2-ND	LP Quad Voltage Comparator	14-SOIC		412.50/2,500	
LM339AN	497-1587-5-ND	LP Quad Voltage Comparator	14-Dip	.55	.44	.33
LM339DT	497-1588-1-ND	LP Quad Voltage Comparator	14-SOIC	.55	.43	.31
LM339DT	497-1588-2-ND	LP Quad Voltage Comparator	14-SOIC		362.50/2,500	
LM339N	497-1589-5-ND	LP Quad Voltage Comparator	14-Dip	.55	.43	.26
LM339PT	497-4048-1-ND	Low Power Quad Voltage Comparator **NEW!**	14-TSSOP	.50	.40	.30
LM339PT	497-4048-2-ND	Low Power Quad Voltage Comparator **NEW!**	14-TSSOP		375.00/2,500	
LM346N	497-2980-5-ND	Prog. Quad Bipolar Op Amp	16-Dip	1.86	1.55	1.31
LM348DT	497-4049-1-ND	Four UA741 Quad Bipolar Op Amp **NEW!**	14-SOIC	.90	.72	.54
LM348DT	497-4049-2-ND	Four UA741 Quad Bipolar Op Amp **NEW!**	14-SOIC		712.50/2,500	
LM348N	497-2981-5-ND	Four UA741 Quad Bipolar Op Amp	14-Dip	1.08	.87	.65
LM350K	497-2982-5-ND	3-Terminal 3A Adj. Voltage Regulator	TO-3	6.56	5.99	4.74
LM358ADT	497-1590-1-ND	Low Power Dual Op Amp	8-SOIC	.48	.38	.29
LM358ADT	497-1590-2-ND	Low Power Dual Op Amp	8-SOIC		357.50/2,500	
LM358AN	497-2983-5-ND	Low Power Dual Op Amp	8-Dip	.86	.69	.52
LM358DT	497-1591-1-ND	Low Power Dual Op Amp	8-SOIC	.49	.38	.23
LM358DT	497-1591-2-ND	Low Power Dual Op Amp	8-SOIC		320.00/2,500	
LM358N	497-1592-5-ND	Low Power Dual Op Amp	8-Dip	.55	.43	.26
LM393ADT	497-4267-1-ND	Low Power Dual Voltage Comparator **NEW!**	8-SOIC	.90	.72	.54
LM393ADT	497-4267-2-ND	Low Power Dual Voltage Comparator **NEW!**	8-SOIC		712.50/2,500	
LM393DT	497-1593-1-ND	LP Dual Voltage Comparator	8-SOIC	.49	.38	.23
LM393DT	497-1593-2-ND	LP Dual Voltage Comparator	8-SOIC		320.00/2,500	
LM393N	497-1594-5-ND	LP Dual Voltage Comparator	8-Dip	.55	.43	.26
LM723CD	497-2984-5-ND	High Precision Voltage Regulator	14-SOIC	.86	.69	.52
LM723CD013TR	497-1595-1-ND	High Precision Voltage Regulator	14-SOIC	.90	.72	.54
LM723CD013TR	497-1595-2-ND	High Precision Voltage Regulator	14-SOIC		712.50/2,500	
LM723CN	497-1596-5-ND	High Precision Voltage Regulator	14-Dip	.72	.58	.44
LM723N	497-4268-5-ND	High Precision Voltage Reg. **NEW!**	14-Dip	.90	.72	.54

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
LM833DT	497-1597-1-ND	Low Noise Dual Op Amp	8-SOIC	.94	.82	.63
LM833DT	497-1597-2-ND	Low Noise Dual Op Amp	8-SOIC		832.50/2,500	
LM833N	497-1598-5-ND	Low Noise Dual Op Amp	8-Dip	1.08	.87	.65
LM2901DT	497-1555-1-ND	LP Quad Voltage Comparator	14-SOIC	.55	.43	.31
LM2901DT	497-1555-2-ND	LP Quad Voltage Comparator	14-SOIC		362.50/2,500	
LM2901N	497-1556-5-ND	LP Quad Voltage Comparator	14-Dip	.55	.43	.26
LM2902DT	497-1557-1-ND	Low Power Quad Op Amp	14-SOIC	.55	.43	.31
LM2902DT	497-1557-2-ND	Low Power Quad Op Amp	14-SOIC		362.50/2,500	
LM2902N	497-1558-5-ND	Low Power Quad Op Amp	14-Dip	.55	.43	.26
LM2902PT	497-4045-1-ND	Low Power Quad Op Amp **NEW!**	14-TSSOP	.60	.48	.36
LM2902PT	497-4045-2-ND	Low Power Quad Op Amp **NEW!**	14-TSSOP		450.00/2,500	
LM2903DT	497-1559-1-ND	Low Power Dual Voltage Comparator	8-SOIC	.55	.43	.31
LM2903DT	497-1559-2-ND	Low Power Dual Voltage Comparator	8-SOIC		362.50/2,500	
LM2903HDT	497-4260-1-ND	Low Power Dual Voltage Comparator **NEW!**	8-SOIC	1.13	.98	.75
LM2903HDT	497-4260-2-ND	Low Power Dual Voltage Comparator **NEW!**	8-SOIC		997.50/2,500	
LM2903N	497-1560-5-ND	Low Power Dual Voltage Comparator	8-Dip	.55	.43	.26
LM2904DT	497-1561-1-ND	Low Power Dual Op Amp	8-SOIC	.55	.43	.31
LM2904DT	497-1561-2-ND	Low Power Dual Op Amp	8-SOIC		362.50/2,500	
LM2904N	497-1562-5-ND	Low Power Dual Op Amp	8-Dip	.55	.43	.26
LM2904PT	497-4046-1-ND	Low Power Dual Op Amp **NEW!**	8-TSSOP	.43	.34	.26
LM2904PT	497-4046-2-ND	Low Power Dual Op Amp **NEW!**	8-TSSOP		580.00/4,000	
LM2904WHDT	497-4261-1-ND	Low Power Dual Op Amp **NEW!**	8-SOIC	1.35	1.17	.90
LM2904WHDT	497-4261-2-ND	Low Power Dual Op Amp **NEW!**	8-SOIC		1197.50/2,500	
LNBH21PD-TR	497-4270-1-ND	LNB Supply/Control IC **NEW!**	20-Power SOIC	4.32	3.76	2.80
LNBH21PD-TR	497-4270-2-ND	LNB Supply/Control IC **NEW!**	20-Power SOIC		1344.00/600	
LNBH221PD-TR	497-4271-1-ND	Dual LNB Supply and Control IC **NEW!**	36-Power SOIC	5.81	5.06	3.77
LNBH221PD-TR	497-4271-2-ND	Dual LNB Supply and Control IC **NEW!**	36-Power SOIC		1806.00/600	
LNBP21D2-TR	497-4272-1-ND	LNBP Supply/Control IC **NEW!**	20-SOIC	3.24	2.82	2.10
LNBP21D2-TR	497-4272-2-ND	LNBP Supply/Control IC **NEW!**	20-SOIC		1596.00/1,000	
LNBP21PD-TR	497-4273-1-ND	LNBP Supply/Control IC **NEW!**	20-Power SOIC	4.19	3.65	2.72
LNBP21PD-TR	497-4273-2-ND	LNBP Supply/Control IC **NEW!**	20-Power SOIC		1302.00/600	
M48T201V-85MH1	497-2839-5-ND	3.3V, Timekeeper Supervisor	44-SOIC	12.00	11.10	8.40
M48T201Y-70MH1	497-2840-5-ND	5V, Timekeeper Supervisor	44-SOIC	11.00	10.18	7.70
M48T212V-85MH1	497-2841-5-ND	3.3V, Timekeeper Supervisor	44-SOIC	10.24	9.35	7.39
MC1458DT	497-1948-1-ND	High Performance DL Op Amp	8-SOIC	.70	.56	.42
MC1458DT	497-1948-2-ND	High Performance DL Op Amp	8-SOIC		525.00/2,500	
MC1458IN	497-1949-5-ND	High Performance DL Op Amp	8-Dip	.72	.58	.44
MC1488D1013TR	497-1950-1-ND	RS-232C Quad Line Driver	14-SOIC	.70	.56	.42
MC1488D1013TR	497-1950-2-ND	RS-232C Quad Line Driver	14-SOIC		525.00/2,500	
MC1489D1013TR	497-1951-1-ND	Quad Line Receiver	14-SOIC	.70	.56	.42
MC1489D1013TR	497-1951-2-ND	Quad Line Receiver	14-SOIC		525.00/2,500	
MC3303DT	497-4050-1-ND	Low Power Quad Bipolar Op Amp **NEW!**	14-SOIC	1.01	.88	.68
MC3303DT	497-4050-2-ND	Low Power Quad Bipolar Op Amp **NEW!**	14-SOIC		897.50/2,500	
MC3403D	497-2988-5-ND	LP Quad Bipolar Op Amp	14-SOIC	.98	.85	.65
MC3403DT	497-1959-1-ND	LP Quad Bipolar Op Amp	14-SOIC	.86	.69	.52
MC3403DT	497-1959-2-ND	LP Quad Bipolar Op Amp	14-SOIC		677.50/2,500	
MC4558CDT	497-4051-1-ND	Wide Bandwidth Dual Bipolar Op Amp **NEW!**	8-SOIC	.60	.48	.36
MC4558CDT	497-4051-2-ND	Wide Bandwidth Dual Bipolar Op Amp **NEW!**	8-SOIC		450.00/2,500	
MC4558CN	497-1960-5-ND	Wide Bandwidth Dual Bipolar Op Amp	8-Dip	.65	.52	.39
MC4558IDT	497-1961-1-ND	Wide Bandwidth Dual Bipolar Op Amp	8-SOIC	.65	.52	.39
MC4558IDT	497-1961-2-ND	Wide Bandwidth Dual Bipolar Op Amp	8-SOIC		487.50/2,500	
MC33078DT	497-1952-1-ND	Low Noise Dual Op Amp	8-SOIC	.99	.80	.60
MC33078DT	497-1952-2-ND	Low Noise Dual Op Amp	8-SOIC		785.00/2,500	
MC33078N	497-1953-5-ND	Low Noise Dual Op Amp	8-Dip	1.04	.83	.58
MC33079DT	497-1954-1-ND	Low Noise Quad Op Amp	14-SOIC	1.01	.88	.68
MC33079DT	497-1954-2-ND	Low Noise Quad Op Amp	14-SOIC		897.50/2,500	
MC33079N	497-1955-5-ND	Low Noise Quad Op Amp	14-Dip	1.24	1.08	.83
MC33171D	497-2987-5-ND	LP Single Bipolar Op Amp	8-SOIC	1.09	.95	.73
MC33171DT	497-1956-1-ND	LP Single Bipolar Op Amp	8-SOIC	1.09	.95	.73
MC33171DT	497-1956-2-ND	LP Single Bipolar Op Amp	8-SOIC		965.00/2,500	
MC33172DT	497-1957-1-ND	LP Dual Bipolar Op Amp	8-SOIC	.98	.85	.65
MC33172DT	497-1957-2-ND	LP Dual Bipolar Op Amp	8-SOIC		865.00/2,500	
MC33174DT	497-1958-1-ND	Low Power Quad Bipolar Op Amp	14-SOIC	.98	.85	.65
MC33174DT	497-1958-2-ND	Low Power Quad Bipolar Op Amp	14-SOIC		865.00/2,500	
MC34063ACD	497-2989-5-ND	DC/DC Converter Control Circuit	8-SOIC	1.43	1.24	.95
MC34063ECN	497-4280-5-ND	DC/DC Converter Control Circuit **NEW!**	8-Dip	.77	.62	.46
NE555D	497-2990-5-ND	GP Single Bipolar Timer	8-SOIC	.52	.40	.29
NE555DT	497-1962-1-ND	GP Single Bipolar Timer	8-SOIC	.49	.38	.23
NE555DT	497-1962-2-ND	GP Single Bipolar Timer	8-SOIC		320.00/2,500	
NE555N	497-1963-5-ND	GP Single Bipolar Timer	8-Dip	.55	.43	.26
NE556DT	497-1964-1-ND	GP Dual Bipolar Timer	14-SOIC	.55	.44	.33
NE556DT	497-1964-2-ND	GP Dual Bipolar Timer	14-SOIC		412.50/2,500	
NE556N	497-1965-5-ND	GP Dual Bipolar Timer	14-Dip	.55	.44	.33
OP07CN	497-2991-5-ND	Bipolar Op Amp	8-Dip	1.43	1.24	.95
PBL3717A	497-1966-5-ND	Stepper Motor Driver	16-Dip	2.40	2.00	1.68
SA555DT	497-2035-1-ND	GP Single Bipolar Timer	8-SOIC	.86	.69	.52
SA555DT	497-2035-2-ND	GP Single Bipolar Timer	8-SOIC		677.50/2,500	
SA555N	497-2036-5-ND	GP Single Bipolar Timer	8-Dip	.77	.62	.46
SA556DT	497-2037-1-ND	GP Dual Bipolar Timer	14-SOIC	.86	.69	.52
SA556DT	497-2037-2-ND	GP Dual Bipolar Timer	14-SOIC		677.50/2,500	
SERC816	497-3662-ND	Sercos Interface Controller	100-PQFP	23.19	19.88	17.63
SERC816/TR	497-3374-ND	Sercos Interface Controller	100-PQFP	23.19	19.88	17.63
SG2525AN	497-2038-5-ND	Reg. Pulse Width Modulator	16-Dip	1.39	1.21	.93
SG2525AP013TR	497-2039-1-ND	Reg. Pulse Width Modulator	16-SOIC	1.39	1.21	.93
SG2525AP013TR	497-2039-2-ND	Reg. Pulse Width Modulator	16-SOIC		1230.00/2,500	
SG3524N	497-2992-5-ND	Reg. Pulse Width Modulator	16-Dip	1.31	1.14	.88

(Continued)

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STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
SG3524P013TR	497-2040-1-ND	Reg. Pulse Width Modulator	16-SOIC	1.31	1.14	.88
SG3524P013TR	497-2040-2-ND	Reg. Pulse Width Modulator	16-SOIC		1165.00/2,500	
SG3525AN	497-2041-5-ND	Reg. Pulse Width Modulator	16-Dip	1.77	1.48	1.24
SG3525AP	497-2993-5-ND	Reg. Pulse Width Modulator	16-SOIC	1.31	1.14	.88
ST1S03PMR	497-4304-1-ND	1.5A, 1.5MHz Adj., Step Down Switching Reg. **NEW!**	6-DFN	1.92	1.60	1.35
ST1S03PMR	497-4304-2-ND	1.5A, 1.5MHz Adj., Step Down Switching Reg. **NEW!**	6-DFN		2496.00/3,000	
ST2L01K5	497-3568-5-ND	Dual Voltage Regulator	SPAK-5	2.31	1.93	1.62
ST2L01K5R	497-2069-1-ND	Dual Voltage Regulator	SPAK-5L	2.31	1.93	1.62
ST2L01K5R	497-2069-2-ND	Dual Voltage Regulator	SPAK-5L		2080.00/2,000	
ST2L05R3300K5	497-3583-1-ND	3.3V/Adj. Dual Voltage Regulator	5-SPAK	1.92	1.60	1.35
ST2L05R3300K5	497-3583-2-ND	3.3V/Adj. Dual Voltage Regulator	5-SPAK		1728.00/2,000	
ST3L01K7R	497-4313-1-ND	2.6V, 3.3V, 8V, Triple Voltage Regulator **NEW!**	7-SPAK	2.79	2.33	1.96
ST3L01K7R	497-4313-2-ND	2.6V, 3.3V, 8V, Triple Voltage Regulator **NEW!**	7-SPAK		2512.00/2,000	
ST5R25MTR	497-4314-1-ND	2.5V, Micropower VFM Step Up DC/DC Converter **NEW!**	SOT-23-5L	1.01	.88	.68
ST5R25MTR	497-4314-2-ND	2.5V, Micropower VFM Step Up DC/DC Converter **NEW!**	SOT-23-5L		1077.00/3,000	
ST26C31BDR	497-2063-1-ND	Tri-St. CMOS Quad Diff. Line Driver	16-SOIC	1.08	.87	.65
ST26C31BDR	497-2063-2-ND	Tri-St. CMOS Quad Diff. Line Driver	16-SOIC		855.00/2,500	
ST26C31BN	497-2064-5-ND	Tri-St. CMOS Quad Diff. Line Driver	16-Dip	1.08	.87	.65
ST26C31BTR	497-2065-1-ND	Tri-St. CMOS Quad Diff. Line Driver	16-TSSOP	1.08	.87	.65
ST26C31BTR	497-2065-2-ND	Tri-St. CMOS Quad Diff. Line Driver	16-TSSOP		855.00/2,500	
ST26C32ABDR	497-2066-1-ND	Tri-St. CMOS Quad Diff. Line Receiver	16-SOIC	1.08	.87	.65
ST26C32ABDR	497-2066-2-ND	Tri-St. CMOS Quad Diff. Line Receiver	16-SOIC		855.00/2,500	
ST26C32ABN	497-2067-5-ND	Tri-St. CMOS Quad Diff. Line Receiver	16-Dip	1.08	.87	.65
ST26C32ABTR	497-2068-1-ND	Tri-St. CMOS Quad Diff. Line Recvr	16-TSSOP	1.08	.87	.65
ST26C32ABTR	497-2068-2-ND	Tri-St. CMOS Quad Diff. Line Recvr	16-TSSOP		855.00/2,500	
ST75C176BDR	497-2125-1-ND	LP, RS-485/RS-422 Transceiver	8-SOIC	2.84	2.47	1.84
ST75C176BDR	497-2125-2-ND	LP, RS-485/RS-422 Transceiver	8-SOIC		3360.00/2,500	
ST75C185BDR	497-2126-1-ND	LP, Multiple RS-232 Driver/Rcvr	20-SOIC	1.68	1.40	1.18
ST75C185BDR	497-2126-2-ND	LP, Multiple RS-232 Driver/Rcvr	20-SOIC		479.00/1,000	
ST202BDR	497-2048-1-ND	5V, RS-232 Multi-Channel Driver and Receiver	16-SOIC	1.80	1.50	1.26
ST202BDR	497-2048-2-ND	5V, RS-232 Multi-Channel Driver and Receiver	16-SOIC		1097.50/2,500	
ST202BTR	497-2049-1-ND	5V, RS-232 Multi-Channel Driver and Receiver	16-TSSOP	1.80	1.50	1.26
ST202BTR	497-2049-2-ND	5V, RS-232 Multi-Channel Driver and Receiver	16-TSSOP		1097.50/2,500	
ST202EBD	497-2050-5-ND	5V, RS-232 Transceiver	16-SOIC	1.58	1.37	1.05
ST202EBN	497-2051-5-ND	5V, RS-232 Transceiver	16-Dip	1.61	1.40	1.08
ST202ECD	497-3008-5-ND	5V, RS-232 Transceiver	16-SOIC	1.95	1.63	1.37
ST202ECDR	497-3727-1-ND	5V, RS-232 Transceiver	16-SOIC	1.73	1.50	1.15
ST202ECDR	497-3727-2-ND	5V, RS-232 Transceiver	16-SOIC		1530.00/2,500	
ST202ECN	497-3009-5-ND	5V, RS-232 Transceiver	16-Dip	1.95	1.63	1.37
ST202ECWR	497-2052-1-ND	5V, RS-232 Transceiver	16-SOIC	1.95	1.63	1.37
ST202ECWR	497-2052-2-ND	5V, RS-232 Transceiver	16-SOIC		624.00/1,000	
ST232ABDR	497-2054-1-ND	5V, RS-232 Driver/Receiver	16-SOIC	1.65	1.38	1.16
ST232ABDR	497-2054-2-ND	5V, RS-232 Driver/Receiver	16-SOIC		1197.50/2,500	
ST232ABN	497-2055-5-ND	5V, RS-232 Driver/Receiver	16-Dip	1.39	1.21	.93
ST232ABWR	497-2056-1-ND	5V, RS-232 Driver/Receiver	16-SOIC	1.65	1.38	1.16
ST232ABWR	497-2056-2-ND	5V, RS-232 Driver/Receiver	16-SOIC		522.00/1,000	
ST232ACD	497-3010-5-ND	5V, RS-232 Driver/Receiver	16-SOIC	1.76	1.53	1.17
ST232ACDR	497-3728-1-ND	5V, RS-232 Driver/Receiver	16-SOIC	1.73	1.50	1.15
ST232ACDR	497-3728-2-ND	5V, RS-232 Driver/Receiver	16-SOIC		1530.00/2,500	
ST232ACN	497-3011-5-ND	5V, RS-232 Driver/Receiver	16-Dip	1.76	1.53	1.17
ST232ACW	497-3012-5-ND	5V, RS-232 Driver/Receiver	16-SOIC	1.65	1.38	1.16
ST232BD	497-3013-5-ND	5V, RS-232 Multi-Channel Driver/Receiver	16-SOIC	1.95	1.63	1.37
ST232BN	497-3014-5-ND	5V, RS-232 Multi-Channel Driver/Receiver	16-Dip	1.95	1.63	1.37
ST232BTR	497-2057-1-ND	5V, RS-232 Multi-Channel Driver/Receiver	16-TSSOP	1.46	1.27	.98
ST232BTR	497-2057-2-ND	5V, RS-232 Multi-Channel Driver/Receiver	16-TSSOP		1297.50/2,500	
ST232BW	497-3015-5-ND	5V, RS-232 Multi-Channel Driver/Receiver	16-SOIC	2.10	1.75	1.47
ST232BWR	497-3729-1-ND	5V, RS-232 Multi-Channel Driver/Receiver	16-SOIC	2.10	1.75	1.47
ST232BWR	497-3729-2-ND	5V, RS-232 Multi-Channel Driver/Receiver	16-SOIC		945.00/1,000	
ST232CD	497-3016-5-ND	5V, RS-232 Multi-Channel Driver/Receiver	16-SOIC	1.95	1.63	1.37
ST232CN	497-3017-5-ND	5V, RS-232 Multi-Channel Driver/Receiver	16-Dip	1.95	1.63	1.37
ST232CW	497-3018-5-ND	5V, RS-232 Multi-Channel Driver/Receiver	16-SOIC	1.95	1.63	1.37
ST232EBDR	497-2058-1-ND	5V, RS-232 Transceiver	16-SOIC	1.59	1.33	1.12
ST232EBDR	497-2058-2-ND	5V, RS-232 Transceiver	16-SOIC		1722.50/2,500	
ST232EBN	497-2059-5-ND	5V, RS-232 Transceiver	16-Dip	1.99	1.73	1.33
ST232EBTR	497-2060-1-ND	5V, RS-232 Transceiver	16-TSSOP	1.59	1.33	1.12
ST232EBTR	497-2060-2-ND	5V, RS-232 Transceiver	16-TSSOP		1722.50/2,500	
ST232EBWR	497-2061-1-ND	5V, RS-232 Transceiver	16-SOIC	1.59	1.33	1.12
ST232EBWR	497-2061-2-ND	5V, RS-232 Transceiver	16-SOIC		716.00/1,000	
ST232ECN	497-3019-5-ND	5V, RS-232 Transceiver	16-Dip	1.95	1.63	1.37
ST232ECWR	497-2062-1-ND	5V, RS-232 Transceiver	16-SOIC	1.59	1.33	1.12
ST232ECWR	497-2062-2-ND	5V, RS-232 Transceiver	16-SOIC		716.00/1,000	
ST485ABDR	497-2082-1-ND	HS, LP, RS-485/RS-422 Transceiver	8-SOIC	3.38	2.94	2.19
ST485ABDR	497-2082-2-ND	HS, LP, RS-485/RS-422 Transceiver	8-SOIC		4000.00/2,500	
ST485BDR	497-3733-1-ND	5V, Low Power, RS-485/RS-422 Transceiver	8-SOIC	1.43	1.24	.95
ST485BDR	497-3733-2-ND	5V, Low Power, RS-485/RS-422 Transceiver	8-SOIC		1262.50/2,500	
ST485CDR	497-3734-1-ND	5V, Low Power, RS-485/RS-422 Transceiver	8-SOIC	1.35	1.17	.90
ST485CDR	497-3734-2-ND	5V, Low Power, RS-485/RS-422 Transceiver	8-SOIC		1197.50/2,500	
ST485EBDR	497-2083-1-ND	LP, RS-485/RS-422 Transceiver	8-SOIC	3.92	3.41	2.54
ST485EBDR	497-2083-2-ND	LP, RS-485/RS-422 Transceiver	8-SOIC		1397.50/2,500	
ST485EBN	497-2084-5-ND	LP, RS-485/RS-422 Transceiver	8-Dip	1.61	1.40	1.0
ST485ECDR	497-3735-1-ND	5V, Low Power, RS-485/RS-422 Transceiver, ESD Protection	8-SOIC	3.51	3.06	2.2
ST485ECDR	497-3735-2-ND	5V, Low Power, RS-485/RS-422 Transceiver, ESD Protection	8-SOIC		4160.00/2,500	
ST485ERBDR	497-2085-1-ND	LP, RS-485/RS-422 Transceiver	8-SOIC	4.73	4.12	3.0
ST485ERBDR	497-2085-2-ND	LP, RS-485/RS-422 Transceiver	8-SOIC		5600.00/2,500	
ST485ERBN	497-2086-5-ND	LP, RS-485/RS-422 Transceiver	8-Dip	4.73	4.12	3.0
ST485ERXDR	497-2087-1-ND	LP, RS-485/RS-422 Transceiver	8-SOIC	4.32	3.76	2.8
ST485ERXDR	497-2087-2-ND	LP, RS-485/RS-422 Transceiver	8-SOIC		5120.00/2,500	
ST485ERXN	497-2088-5-ND	LP, RS-485/RS-422 Transceiver	8-Dip	4.32	3.76	2.8
ST485EXDR	497-2089-1-ND	LP, RS-485/RS-422 Transceiver	8-SOIC	4.32	3.76	2.8
ST485EXDR	497-2089-2-ND	LP, RS-485/RS-422 Transceiver	8-SOIC		5120.00/2,500	
ST485EXN	497-2090-5-ND	LP, RS-485/RS-422 Transceiver	8-Dip	4.32	3.76	2.8
ST490ABDR	497-2091-1-ND	LP, HS, RS-485/RS-422 Transceiver	8-SOIC	2.10	1.75	1.4
ST490ABDR	497-2091-2-ND	LP, HS, RS-485/RS-422 Transceiver	8-SOIC		2275.00/2,500	
ST491ACDR	497-2889-1-ND	Low Power, High Speed, RS-485/RS-422 Transceiver	14-SOIC	2.40	2.00	1.6
ST491ACDR	497-2889-2-ND	Low Power, High Speed, RS-485/RS-422 Transceiver	14-SOIC		2600.00/2,500	
ST619LBD	497-3880-ND	5V, DC-DC Converter Regulated Charge Pump	8-SOIC	2.07	1.73	1.4
ST619LBDR	497-3881-1-ND	5V, DC-DC Converter Regulated Charge Pump	8-SOIC	2.07	1.73	1.4
ST619LBDR	497-3881-2-ND	5V, DC-DC Converter Regulated Charge Pump	8-SOIC		2242.50/2,500	
ST619LBN	497-3882-ND	5V, DC-DC Converter Regulated Charge Pump	8-Dip	2.07	1.73	1.4
ST662ABD	497-2104-5-ND	5V to 12V, .03A DC/DC Converter	8-SOIC	2.25	1.88	1.5
ST730ACDTR	497-4315-1-ND	5V Step Down Current Mode PWM DC/DC Converter **NEW!**	8-SOIC	1.50	1.30	1.0
ST730ACDTR	497-4315-2-ND	5V Step Down Current Mode PWM DC/DC Converter **NEW!**	8-SOIC		1330.00/2,500	
ST735CD	497-2118-5-ND	-5V Inverting, Negative Output Current-Mode PWM Regulator	8-SOIC	1.56	1.30	1.1
ST735SCD	497-2119-5-ND	-5V/Adj. Inverting, Negative Output Current-Mode PWM Regulator	8-SOIC	1.56	1.30	1.1
ST750ACD	497-2120-5-ND	Adj. Step-Down, Current-Mode PWM DC/DC Converter	8-SOIC	1.50	1.30	1.0
ST755CD	497-2124-5-ND	Adj. Inverting Negative Output Current-Mode PWM Regulator	8-SOIC	2.40	2.00	1.6
ST763ABDTR	497-2128-1-ND	3.3V, Step-Down Current-Mode PWM DC/DC Converter	8-SOIC	2.37	1.98	1.6
ST763ABDTR	497-2128-2-ND	3.3V, Step-Down Current-Mode PWM DC/DC Converter	8-SOIC		2567.50/2,500	
ST1480ABDR	497-2046-1-ND	3.3V, RS-485/RS-422 Transceiver	8-SOIC	3.24	2.82	2.1
ST1480ABDR	497-2046-2-ND	3.3V, RS-485/RS-422 Transceiver	8-SOIC		3840.00/2,500	
ST1480ABN	497-2047-5-ND	3.3V, RS-485/RS-422 Transceiver	8-Dip	3.24	2.82	2.1
ST1480ACDR	497-3726-1-ND	3.3V, RS-485/RS-422 Transceiver	8-SOIC	2.97	2.59	1.9
ST1480ACDR	497-3726-2-ND	3.3V, RS-485/RS-422 Transceiver	8-SOIC		3520.00/2,500	
ST2042BD	497-4306-5-ND	Current Limited Power Distribution Switch **NEW!**	8-SOIC	1.80	1.56	1.2
ST2042BDR	497-4306-1-ND	Current Limited Power Distribution Switch **NEW!**	8-SOIC	1.54	1.34	1.0
ST2042BDR	497-4306-2-ND	Current Limited Power Distribution Switch **NEW!**	8-SOIC		1362.50/2,500	
ST2044BD	497-4308-5-ND	Current Limited Power Distribution Switch **NEW!**	16-SOIC	1.80	1.56	1.2
ST2044BDR	497-4308-1-ND	Current Limited Power Distribution Switch **NEW!**	16-SOIC	1.54	1.34	1.0
ST2044BDR	497-4308-2-ND	Current Limited Power Distribution Switch **NEW!**	16-SOIC		1362.50/2,500	
ST2052BDR	497-4309-1-ND	Current Limited Power Distribution Switch **NEW!**	8-SOIC	1.54	1.34	1.0
ST2052BDR	497-4309-2-ND	Current Limited Power Distribution Switch **NEW!**	8-SOIC		1362.50/2,500	
ST2054BD	497-4310-5-ND	Current Limited Power Distribution Switch **NEW!**	16-SOIC	1.80	1.56	1.2
ST2054BDR	497-4311-1-ND	Current Limited Power Distribution Switch **NEW!**	16-SOIC	1.54	1.34	1.0
ST2054BDR	497-4311-2-ND	Current Limited Power Distribution Switch **NEW!**	16-SOIC		1362.50/2,500	
ST2378ETTR	497-3730-1-ND	8-Bit Dual Supply 1.71V-5.5V Level Translator, ESD Protection	20-TSSOP	2.88	2.40	2.0
ST2378ETTR	497-3730-2-ND	8-Bit Dual Supply 1.71V-5.5V Level Translator, ESD Protection	20-TSSOP		3120.00/2,500	
ST3222EBDR	497-2070-1-ND	3V to 5.5V, Low Power, RS-232 Driver/Receiver	18-SOIC	2.70	2.25	1.8
ST3222EBDR	497-2070-2-ND	3V to 5.5V, Low Power, RS-232 Driver/Receiver	18-SOIC		1215.00/1,000	
ST3232CD	497-3020-5-ND	3V to 5.5V, Low Power, RS-232 Driver/Receiver	16-SOIC	2.55	2.13	1.7
ST3232CDR	497-3731-1-ND	3V to 5.5V, Low Power, RS-232 Driver/Receiver	16-SOIC	2.07	1.73	1.4
ST3232CDR	497-3731-2-ND	3V to 5.5V, Low Power, RS-232 Driver/Receiver	16-SOIC		2242.50/2,500	
ST3232EBD	497-2071-5-ND	3V to 5.5V, Low Power, RS-232 Driver/Receiver	16-SOIC	2.37	1.98	1.6
ST3232EBPR	497-4312-1-ND	3V to 5.5V, Low Power, RS-232 Driver/Receiver **NEW!**	16-SSOP	2.10	1.75	1.4
ST3232EBPR	497-4312-2-ND	3V to 5.5V, Low Power, RS-232 Driver/Receiver **NEW!**	16-SSOP		1275.75/1,350	
ST3232EBWR	497-2072-1-ND	3V to 5.5V, Low Power, RS-232 Driver/Receiver	16-SOIC	3.51	3.06	2.2
ST3232EBWR	497-2072-2-ND	3V to 5.5V, Low Power, RS-232 Driver/Receiver	16-SOIC		1729.00/1,000	
ST3232ECWR	497-2073-1-ND	3V to 5.5V, Low Power, RS-232 Driver/Receiver	16-SOIC	3.24	2.82	2.1
ST3232ECWR	497-2073-2-ND	3V to 5.5V, Low Power, RS-232 Driver/Receiver	16-SOIC		1596.00/1,000	
ST3237EBDR	497-2074-1-ND	3V to 5.5V, 250KBPS, RS-232 Transceiver	28-SOIC	4.32	3.76	2.9

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STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
3237EBDR	497-2074-2-ND	3V to 5.5V, 250KBPS, RS-232 Transceiver	28-SOIC		2128.00/1,000	
3241EBDR	497-2075-1-ND	3V to 5.5V, 400KBPS, RS-232 Transceiver	28-SOIC	3.24	2.82	2.10
3241EBDR	497-2075-2-ND	3V to 5.5V, 400KBPS, RS-232 Transceiver	28-SOIC		1596.00/1,000	
3243CPR	497-3732-1-ND	3V to 5.5V, 400KBPS, RS-232 Transceiver	28-SSOP	2.70	2.35	1.75
3243CPR	497-3732-2-ND	3V to 5.5V, 400KBPS, RS-232 Transceiver	28-SSOP		1795.50/1,350	
3243EBDR	497-2076-1-ND	3V to 5.5V, 400KBPS, RS-232 Transceiver	28-SOIC	2.19	1.83	1.54
3243EBDR	497-2076-2-ND	3V to 5.5V, 400KBPS, RS-232 Transceiver	28-SOIC		986.00/1,000	
3243EBJR	497-2077-1-ND	3V to 5.5V, 400KBPS, RS-232 Transceiver	28-Flip-Chip	2.97	2.59	1.93
3243EBJR	497-2077-2-ND	3V to 5.5V, 400KBPS, RS-232 Transceiver	28-Flip-Chip		3520.00/2,500	
3243EBTR	497-2078-1-ND	3V to 5.5V, 400KBPS, RS-232 Transceiver	28-TSSOP	2.16	1.80	1.52
3243EBTR	497-2078-2-ND	3V to 5.5V, 400KBPS, RS-232 Transceiver	28-TSSOP		2340.00/2,500	
3384EBDR	497-2079-1-ND	3V to 5.5V, Low Power, Up to 250KBPS, RS-232 Transceiver	18-SOIC	2.70	2.25	1.89
3384EBDR	497-2079-2-ND	3V to 5.5V, Low Power, Up to 250KBPS, RS-232 Transceiver	18-SOIC		1215.00/1,000	
3485EBDR	497-2080-1-ND	3.3V, Up to 12MBPS, RS-485/RS-422, Transceiver	8-SOIC	3.11	2.71	2.02
3485EBDR	497-2080-2-ND	3.3V, Up to 12MBPS, RS-485/RS-422, Transceiver	8-SOIC		3680.00/2,500	
3485EBN	497-2081-5-ND	3.3V, Up to 12MBPS, RS-485/RS-422, Transceiver	8-Dip	3.11	2.71	2.02
7538P013TR	497-4316-1-ND	Power Line FSK Transceiver ***NEW!***	44-TQFP	10.93	9.98	7.89
7538P013TR	497-4316-2-ND	Power Line FSK Transceiver ***NEW!***	44-TQFP		6056.00/1,000	
3004CDR	497-4318-1-ND	SmartCard Interface ***NEW!***	28-SOIC	3.24	2.82	2.10
3004CDR	497-4318-2-ND	SmartCard Interface ***NEW!***	28-SOIC		1596.00/1,000	
75185CDR	497-2121-1-ND	Multiple RS-232 Driver/Receiver	20-SOIC	.77	.62	.43
75185CDR	497-2121-2-ND	Multiple RS-232 Driver/Receiver	20-SOIC		264.00/1,000	
75185CPR	497-2122-1-ND	Multiple RS-232 Driver/Receiver	20-SSOP	1.73	1.50	1.15
75185CPR	497-2122-2-ND	Multiple RS-232 Driver/Receiver	20-SSOP		900.45/1,350	
75285CTR	497-2123-1-ND	Multiple RS-232 Driver/Receiver	38-TSSOP	2.10	1.75	1.47
75285CTR	497-2123-2-ND	Multiple RS-232 Driver/Receiver	38-TSSOP		2275.00/2,500	
A013$013TR	497-3939-1-ND	MPEG 2.5 Layer III Audio Decoder ***NEW!***	28-SOIC	17.14	15.86	12.00
A013$013TR	497-3939-2-ND	MPEG 2.5 Layer III Audio Decoder ***NEW!***	28-SOIC		10713.00/1,000	
A015$013TR	497-3940-1-ND	MPEG 2.5 Layer III Audio Decoder with ADPCM Capability ***NEW!***	28-SOIC	19.30	17.86	13.51
A015$013TR	497-3940-2-ND	MPEG 2.5 Layer III Audio Decoder with ADPCM Capability ***NEW!***	28-SOIC		12063.00/1,000	
A015T$	497-2141-ND	MPEG 2.5 Layer III Audio Decoder	44-TQFP	19.30	17.86	13.51
A020D	497-3941-5-ND	96KHz Digital Audio Interface Transmitter ***NEW!***	24-SOIC	5.00	4.35	3.24
A120D	497-3942-5-ND	Digital Audio Interface Receiver ***NEW!***	28-SOIC	5.00	4.35	3.24
A120D13TR	497-3943-1-ND	Digital Audio Interface Receiver ***NEW!***	28-SOIC	5.00	4.35	3.24
A120D13TR	497-3943-2-ND	Digital Audio Interface Receiver ***NEW!***	28-SOIC		2461.00/1,000	
A304A	497-3944-ND	Digital Audio Processor with Multichannel DDX™ ***NEW!***	44-TQFP	13.30	12.31	9.31
A500	497-3947-5-ND	30V, 3.5A Quad Power Half Bridge ***NEW!***	36-Power SOIC	8.63	7.88	6.23
A502A	497-3950-5-ND	40V, 4A Double Power Half Bridge ***NEW!***	36-Power SOIC	10.00	9.25	7.00
A505	497-2142-ND	40V, 3.5A Quad Power Half Bridge	36-PSOIC	9.43	8.61	6.81
A30613TR	497-3945-1-ND	Multichannel Digital Audio Processor with DDX™ ***NEW!***	64-TQFP	9.20	8.40	6.64
A30613TR	497-3945-2-ND	Multichannel Digital Audio Processor with DDX™ ***NEW!***	64-TQFP		5100.00/1,000	
A30813TR	497-3946-1-ND	Multichannel Digital Audio Processor with DDX™ ***NEW!***	64-TQFP	10.58	9.66	7.64
A30813TR	497-3946-2-ND	Multichannel Digital Audio Processor with DDX™ ***NEW!***	64-TQFP		5865.00/1,000	
A501013TR	497-3949-1-ND	40V, 3.5A Double Power Half Bridge ***NEW!***	36-Power SOIC	8.63	7.88	6.23
A501013TR	497-3949-2-ND	40V, 3.5A Double Power Half Bridge ***NEW!***	36-Power SOIC		2925.00/600	
ABP01	497-3951-5-ND	BASH® Digital Processor ***NEW!***	20-Dip	7.13	6.51	5.15
ABP01D	497-3952-5-ND	BASH® Digital Processor ***NEW!***	20-SOIC	7.13	6.51	5.15
C03DE150	497-4326-5-ND	Hybrid Emitter Switched Bipolar Transistor ***NEW!***	TO-247-4L	7.01	6.41	5.06
E10/100A	497-3663-ND	PCI 10/100 Ethernet Controller	128-PQFP	10.60	9.81	7.42
E100P	497-2143-ND	3.3V, 10/100 Fast Ethernet Transcvr	64-TQFP	8.05	7.35	5.81
G719STR	497-3738-1-ND	Low Voltage 4 Ohm SPDT Switch	SOT-23-6	1.01	.88	.68
G719STR	497-3738-2-ND	Low Voltage 4 Ohm SPDT Switch	SOT-23-6		1077.00/3,000	
G3157CTR	497-2144-1-ND	LV, SPDT, Low On Resistance	SOT-323-6	1.01	.88	.68
G3157CTR	497-2144-2-ND	LV, SPDT, Low On Resistance	SOT-323-6		1077.00/3,000	
G3680QTR	497-4347-1-ND	Low Volt. 0.5/0.8 Ohm Dual SPDT Switch ***NEW!***	16-QFN	1.31	1.14	.88
G3680QTR	497-4347-2-ND	Low Volt. 0.5/0.8 Ohm Dual SPDT Switch ***NEW!***	16-QFN		1398.00/3,000	
G3684QTR	497-3021-1-ND	Low Voltage, Dual SPDT Switch	16-QFN	1.77	1.48	1.24
G3684QTR	497-3021-2-ND	Low Voltage, Dual SPDT Switch	16-QFN		2301.00/3,000	
G3690QTR	497-4348-1-ND	Low Voltage 5 Ohm Quad SPDT Switch ***NEW!***	16-QFN	1.31	1.14	.88
G3690QTR	497-4348-2-ND	Low Voltage 5 Ohm Quad SPDT Switch ***NEW!***	16-QFN		1398.00/3,000	
G3699QTR	497-3022-1-ND	Low Voltage, Quad SPDT Switch	16-QFN	2.97	2.59	1.93
G3699QTR	497-3022-2-ND	Low Voltage, Quad SPDT Switch	16-QFN		4224.00/3,000	
CC05-BD4	497-4328-5-ND	Home Appliance Control Circuit ***NEW!***	20-Dip	2.55	2.13	1.79

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
STLC3055	497-2145-ND	WLL and ISDN-TA Subscriber Line Interface Circuit	44-TQFP	10.97	10.02	7.92
STLC3055QTR	497-3664-1-ND	WLL and ISDN-TA Subscriber Line Interface Circuit	44-TQFP	10.97	10.02	7.92
STLC3055QTR	497-3664-2-ND	WLL and ISDN-TA Subscriber Line Interface Circuit	44-TQFP		6082.00/1,000	
STLC5046	497-3665-ND	Prog. 4-Ch. Codec/Filter	64-TQFP	8.05	7.35	5.81
STLVD111BFR	497-2146-1-ND	Programmable Low Voltage 1:10 Diff. LVDS Clock Driver	32-TQFP	22.31	19.13	16.96
STLVD111BFR	497-2146-2-ND	Programmable Low Voltage 1:10 Diff. LVDS Clock Driver	32-TQFP		37790.40/2,400	
STLVDS050BDR	497-2147-1-ND	HS, Differential Line Driver/Receiver	16-SOIC	5.40	4.70	3.50
STLVDS050BDR	497-2147-2-ND	HS, Differential Line Driver/Receiver	16-SOIC		6400.00/2,500	
STLVDS32BDR	497-2148-1-ND	HS, Differential Line Receiver	16-SOIC	2.55	2.13	1.79
STLVDS385BTR	497-2150-1-ND	+3.3V, Prog. LVDS TX 24-Bit FPD Link-85MHz	56-TSSOP	7.36	6.72	5.32
STLVDS385BTR	497-2150-2-ND	+3.3V, Prog. LVDS TX 24-Bit FPD Link-85MHz	56-TSSOP		8160.00/2,000	
STLVDS3486BDR	497-2149-1-ND	HS, Differential Line Receiver	16-SOIC	3.38	2.94	2.19
STLVDS3486BDR	497-2149-2-ND	HS, Differential Line Receiver	16-SOIC		4000.00/2,500	
STM86312	497-4363-ND	VFD Controller/Driver ***NEW!***	44-PQFP	2.70	2.35	1.75
STP08C596MTR	497-4367-1-ND	8-Bit Constant Current LED Sink Driver ***NEW!***	16-SOIC	1.68	1.40	1.18
STP08C596MTR	497-4367-2-ND	8-Bit Constant Current LED Sink Driver ***NEW!***	16-SOIC		1820.00/2,500	
STP08C596TTR	497-3870-1-ND	8-Bit Constant Current LED Sink Driver	16-TSSOP	1.68	1.40	1.18
STP08C596TTR	497-3870-2-ND	8-Bit Constant Current LED Sink Driver	16-TSSOP		1820.00/2,500	
STP08CL596B1	497-3871-ND	Low Voltage 8-Bit Constant Current LED Sink Driver	16-Dip	1.68	1.40	1.18
STP08CL596MTR	497-3872-1-ND	Low Voltage 8-Bit Constant Current LED Sink Driver	16-SOIC	1.68	1.40	1.18
STP08CL596MTR	497-3872-2-ND	Low Voltage 8-Bit Constant Current LED Sink Driver	16-SOIC		1820.00/2,500	
STP08CL596TTR	497-3873-1-ND	Low Voltage 8-Bit Constant Current LED Sink Driver	16-TSSOP	1.68	1.40	1.18
STP08CL596TTR	497-3873-2-ND	Low Voltage 8-Bit Constant Current LED Sink Driver	16-TSSOP		1820.00/2,500	
STP16C596B1R	497-3874-ND	16-Bit Constant Current LED Sink Driver	24-Dip	2.52	2.10	1.77
STP16C596M	497-3875-ND	16-Bit Constant Current LED Sink Driver	24-SOIC	2.52	2.10	1.77
STP16C596TTR	497-3876-1-ND	16-Bit Constant Current LED Sink Driver	24-TSSOP	2.52	2.10	1.77
STP16C596TTR	497-3876-2-ND	16-Bit Constant Current LED Sink Driver	24-TSSOP		2730.00/2,500	
STP16C596XTTR	497-4371-1-ND	16-Bit Constant Current LED Sink Driver ***NEW!***	24-TSSOP	2.52	2.10	1.77
STP16C596XTTR	497-4371-2-ND	16-Bit Constant Current LED Sink Driver ***NEW!***	24-TSSOP		2730.00/2,500	
STP16CL596B1R	497-3877-ND	Low Voltage 16-Bit Constant Current LED Sink Driver	24-Dip	2.52	2.10	1.77
STP16CL596M	497-3878-ND	Low Voltage 16-Bit Constant Current LED Sink Driver	24-SOIC	2.52	2.10	1.77
STP16CL596TTR	497-3879-1-ND	Low Voltage 16-Bit Constant Current LED Sink Driver	24-TSSOP	2.52	2.10	1.77
STP16CL596TTR	497-3879-2-ND	Low Voltage 16-Bit Constant Current LED Sink Driver	24-TSSOP		2730.00/2,500	
STPIC6A259MTR	497-2152-1-ND	Power Logic 8-Bit Addressable Latch	24-SOIC	1.80	1.56	1.20
STPIC6A259MTR	497-2152-2-ND	Power Logic 8-Bit Addressable Latch	24-SOIC		696.00/1,000	
STPIC6C595M	497-2153-5-ND	Power Logic 8-Bit Shift Register	16-SOIC	2.10	1.75	1.47
STPIC6C595MTR	497-3023-1-ND	Power Logic 8-Bit Shift Register	16-SOIC	2.10	1.75	1.47
STPIC6C595MTR	497-3023-2-ND	Power Logic 8-Bit Shift Register	16-SOIC		1262.50/2,500	
STPIC6C595TTR	497-3024-1-ND	Power Logic 8-Bit Shift Register	16-TSSOP	2.10	1.75	1.47
STPIC6C595TTR	497-3024-2-ND	Power Logic 8-Bit Shift Register	16-TSSOP		1262.50/2,500	
STSR2PCD-TR	497-2154-1-ND	Forward Sync. Rectifier Smart Driver	8-SOIC	2.82	2.35	1.98
STSR2PCD-TR	497-2154-2-ND	Forward Sync. Rectifier Smart Driver	8-SOIC		3055.00/2,500	
STSR3CD	497-4400-5-ND	Sync. Rectifier Smart Driver for Flyback ***NEW!***	8-SOIC	2.82	2.35	1.98
STSR3CD-TR	497-4401-1-ND	Sync. Rectifier Smart Driver for Flyback ***NEW!***	8-SOIC	2.82	2.35	1.98
STSR3CD-TR	497-4401-2-ND	Sync. Rectifier Smart Driver for Flyback ***NEW!***	8-SOIC		3055.00/2,500	
STSR30D-TR	497-2155-1-ND	Sync. Rectifier Smart Driver for Flyback	8-SOIC	3.73	3.25	2.42
STSR30D-TR	497-2155-2-ND	Sync. Rectifier Smart Driver for Flyback	8-SOIC		4415.00/2,500	
STW5093CYLT	497-3375-1-ND	2.7V, 14-Bit Linear Codec with High Perf. Audio Front-End	30-TSSOP	4.86	4.23	3.15
STW5093CYLT	497-3375-2-ND	2.7V, 14-Bit Linear Codec with High Perf. Audio Front-End	30-TSSOP		5760.00/2,500	
TBA820M	497-3025-5-ND	1.2W Audio Amp	8-Dip	1.35	1.17	.90
TD220ID	497-2156-5-ND	Gate Driver	8-SOIC	1.69	1.47	1.13
TD221ID	497-2157-5-ND	Gate Driver	8-SOIC	1.69	1.47	1.13
TD310IDT	497-4052-1-ND	Triple IGBT/MOS Driver ***NEW!***	16-SOIC	2.34	1.95	1.64
TD310IDT	497-4052-2-ND	Triple IGBT/MOS Driver ***NEW!***	16-SOIC		2535.00/2,500	
TD350IDT	497-4053-1-ND	Advanced IGBT/MOSFET Driver ***NEW!***	14-SOIC	2.61	2.18	1.83
TD350IDT	497-4053-2-ND	Advanced IGBT/MOSFET Driver ***NEW!***	14-SOIC		2827.50/2,500	
TD351IDT	497-4439-1-ND	Adv. IGBT/MOSFET Driver ***NEW!***	8-SOIC	1.80	1.50	1.26
TD351IDT	497-4439-2-ND	Adv. IGBT/MOSFET Driver ***NEW!***	8-SOIC		1950.00/2,500	
TD351IN	497-4440-5-ND	Adv. IGBT/MOSFET Driver ***NEW!***	8-Dip	1.80	1.50	1.26
TDA0161DP	497-2158-5-ND	Proximity Detector	8-Mini Dip	2.16	1.80	1.52
TDA0161FP	497-2159-5-ND	Proximity Detector	8-SOIC	2.46	2.05	1.73
TDA1905	497-2160-5-ND	5W, Audio Amplifier	16-Power Dip	2.10	1.75	1.47
TDA2003H	497-2161-5-ND	10W, Car Radio Audio Amp	Pentawatt	2.10	1.75	1.47
TDA2003V	497-2162-5-ND	10W, Car Radio Audio Amp	Pentawatt	2.10	1.75	1.47
TDA2005M	497-2163-5-ND	20W, Bridge Amplifier	11-Multiwatt	2.84	2.47	1.84
TDA2007A	497-3953-5-ND	Dual Stereo Amp ***NEW!***	9-SIP	2.73	2.28	1.92
TDA2009A	497-2164-5-ND	10 + 10W, Stereo Amp	11-Multiwatt	3.65	3.18	2.37
TDA2030AH	497-3667-ND	14W, Hi-Fi Audio Amp	Pentawatt	3.11	2.71	2.02
TDA2030AV	497-2165-5-ND	18W, Hi-Fi Amp/35W Driver	Pentawatt	2.97	2.59	1.93

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STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
TDA2030H	497-3026-5-ND	14W, Hi-Fi Audio Amp	5-Pentawatt	2.97	2.59	1.93
TDA2030V	497-3954-5-ND	14W, Hi-Fi Audio Amp **NEW!**	Pentawatt	2.86	2.50	1.86
TDA2040V	497-3027-5-ND	20W, Hi-Fi Audio Amp	5-Pentawatt	3.65	3.18	2.37
TDA2050V	497-3028-5-ND	32W, Hi-Fi Audio Amp	5-Pentawatt	3.78	3.29	2.45
TDA2052V	497-3955-5-ND	60W Hi-Fi Audio Power Amp with Mute/Standby **NEW!**	V-Heptawatt	7.82	7.14	5.65
TDA2822	497-3956-5-ND	Dual Low Voltage Power Amp **NEW!**	16-Power Dip	1.56	1.30	1.10
TDA2822D	497-2166-5-ND	Dual Low Voltage Power Amp	8-SOIC	1.58	1.37	1.05
TDA2822D013TR	497-3376-1-ND	Dual Low Voltage Power Amp	8-SOIC	1.69	1.47	1.13
TDA2822D013TR	497-3376-2-ND	Dual Low Voltage Power Amp	8-SOIC		1497.50/2,500	
TDA7233	497-3957-5-ND	1W, Audio Amp with Mute **NEW!**	8-Dip	1.65	1.38	1.16
TDA7233D013TR	497-3668-1-ND	1W, Audio Amp with Mute	8-SOIC	1.92	1.60	1.35
TDA7233D013TR	497-3668-2-ND	1W, Audio Amp with Mute	8-SOIC		2080.00/2,500	
TDA7240AH	497-2167-5-ND	20W, Bridge Amp	H-Heptawatt	3.11	2.71	2.02
TDA7240AV	497-2168-5-ND	20W, Bridge Amp	V-Heptawatt	2.84	2.47	1.84
TDA7256	497-2169-5-ND	30W, Bridge Car Radio Amp	11-Multiwatt	5.67	4.94	3.68
TDA7263	497-3958-5-ND	AB Dual Audio Power Amp **NEW!**	11-Clipwatt	3.78	3.29	2.45
TDA7264	497-3959-5-ND	AB Dual Audio Power Amp **NEW!**	8-Multiwatt	5.00	4.35	3.24
TDA7265	497-3960-5-ND	AB Dual Audio Power Amp **NEW!**	11-Multiwatt	6.48	5.64	4.20
TDA7266	497-3669-ND	14W, Dual Bridge Amp	15-Multiwatt	6.90	6.30	4.98
TDA7266D	497-4024-5-ND	14W, Dual Bridge Amp **NEW!**	20-Power SOIC	4.00	3.48	2.59
TDA7266S	497-3670-ND	10W, Dual Bridge Amp	15-Multiwatt	6.79	6.20	4.90
TDA7267	497-3671-ND	2W, Mono Amp	8-MiniDip	2.40	2.00	1.68
TDA7267A	497-3962-5-ND	3W Mono Amp **NEW!**	16-Power Dip	2.85	2.38	2.00
TDA7268	497-3963-5-ND	2x2W Stereo Audio Amp **NEW!**	16-Power Dip	4.05	3.53	2.63
TDA7269A	497-3964-5-ND	AB Dual Audio Power Amp **NEW!**	11-Multiwatt	5.54	4.82	3.59
TDA7293V	497-2170-5-ND	120V, 100W DMOS Audio Amp	15V-Multiwatt	6.65	6.07	4.80
TDA7294V	497-2171-5-ND	100V, 100W DMOS Audio Amp	15V-Multiwatt	10.12	9.24	7.31
TDA7295	497-3965-5-ND	80V, 80W DMOS Audio Amp **NEW!**	15-Multiwatt	8.97	8.19	6.48
TDA7296	497-3966-5-ND	70V, 60W DMOS Audio Amp **NEW!**	15-Multiwatt	8.63	7.88	6.23
TDA7297	497-3967-5-ND	Dual Bridge Amp **NEW!**	15-Multiwatt	6.90	6.30	4.98
TDA7297D	497-3968-5-ND	Dual Bridge Amp **NEW!**	20-Power SOIC	7.52	6.87	5.43
TDA7309D013TR	497-3969-1-ND	Digital Controlled Stereo Audio Processor **NEW!**	20-SOIC	6.10	5.57	4.40
TDA7309D013TR	497-3969-2-ND	Digital Controlled Stereo Audio Processor **NEW!**	20-SOIC		3379.00/1,000	
TDA7319	497-3970-5-ND	3 Band Digital Controlled Audio Processor **NEW!**	20-Dip	8.05	7.35	5.81
TDA7338D013TR	497-3971-1-ND	Stereo Decoder **NEW!**	20-SOIC	5.75	5.25	4.15
TDA7338D013TR	497-3971-2-ND	Stereo Decoder **NEW!**	20-SOIC		3188.00/1,000	
TDA7350A	497-3972-5-ND	22W Bridge Stereo Amp **NEW!**	11-Multiwatt	5.40	4.70	3.50
TDA7360	497-3973-5-ND	22W Bridge/Stereo Audio Amp **NEW!**	11V-Multiwatt	5.87	5.36	4.24
TDA7375AV	497-3974-5-ND	Dual/Quad Power Amp **NEW!**	15V-Multiwatt	7.13	6.51	5.15
TDA7375V	497-2172-5-ND	2x35W Dual/Quad Power Amp	15V-Multiwatt	7.13	6.51	5.15
TDA7384A	497-2173-5-ND	4x35W Quad Bridge Car Radio Amp	25-Flexiwatt	12.30	11.38	8.61
TDA7385	497-2174-5-ND	4x30W Quad Bridge Car Radio Amp	25-Flexiwatt	11.00	10.18	7.70
TDA7386	497-2175-5-ND	4x40W Quad Bridge Car Radio Amp	25-Flexiwatt	15.40	14.25	10.78
TDA7391	497-2176-5-ND	35W, Bridge Car Radio Amp	11-Multiwatt	6.21	5.67	4.49
TDA7391PD	497-3975-5-ND	35W, Bridge Car Radio Amp **NEW!**	20-Power SOIC	9.66	8.82	6.98
TDA7393	497-3976-5-ND	Dual Bridge Car Radio Amp **NEW!**	15-Multiwatt	6.33	5.78	4.57
TDA7396	497-2177-5-ND	45W, Bridge Car Radio Amp	11-Multiwatt	6.62	5.76	4.29
TDA7400DTR	497-3977-1-ND	Adv. Car Signal Processor **NEW!**	28-SOIC	10.07	9.20	7.28
TDA7400DTR	497-3977-2-ND	Adv. Car Signal Processor **NEW!**	28-SOIC		5585.00/1,000	
TDA7407	497-3979-ND	Adv. Car Signal Processor **NEW!**	44-TQFP	9.32	8.51	6.73
TDA7411TR	497-3981-1-ND	Adv. Car Signal Processor **NEW!**	44-TQFP	10.80	9.99	7.56
TDA7411TR	497-3981-2-ND	Adv. Car Signal Processor **NEW!**	44-TQFP		6750.00/1,000	
TDA7433D	497-2178-5-ND	Basic Function Audio Processor	20-SOIC	3.38	2.94	2.19
TDA7438D	497-3982-5-ND	Three Bands Digitally Controlled Audio Processor **NEW!**	28-SOIC	6.90	6.30	4.98
TDA7439DS13TR	497-3983-1-ND	Three Bands Digitally Controlled Audio Processor **NEW!**	30-SDip	8.97	8.19	6.48
TDA7439DS13TR	497-3983-2-ND	Three Bands Digitally Controlled Audio Processor **NEW!**	30-SDip		4973.00/1,000	
TDA7449	497-3672-ND	Tone Control, Digitally Controlled Audio Processor	20-Dip	3.38	2.94	2.19
TDA7454	497-2179-5-ND	4x35W High Eff. Quad Bridge Car Radio Amp	25-Flexiwatt	15.50	14.34	10.85
TDA7462D013TR	497-3673-1-ND	Dual Audio Processor with Compander	28-SOIC	7.48	6.83	5.40
TDA7462D013TR	497-3673-2-ND	Dual Audio Processor with Compander	28-SOIC		4144.00/1,000	
TDA7482	497-3984-5-ND	25W Mono Class-D Amp **NEW!**	15-Multiwatt	8.28	7.56	5.98
TDA7490	497-3985-5-ND	Dual Stereo Class-D Amp **NEW!**	25-Flexiwatt	7.48	6.83	5.40
TDA7490L	497-3986-5-ND	Dual Stereo Class-D Amp **NEW!**	25-Flexiwatt	6.81	6.22	4.92
TDA7494S	497-2180-5-ND	10W, Amp	15-Multiwatt	2.07	1.73	1.45
TDA7511	497-3988-ND	AM/FM Tuner for Car Radio and Hi Fi Applications **NEW!**	64-TQFP	11.80	10.92	8.26
TDA7560	497-2181-5-ND	4x45W Quad Bridge Car Radio Amp	25-Flexiwatt	21.44	18.38	16.30
TDA7561	497-2182-5-ND	Multifunction Quad Power Amp	25-Flexiwatt	10.80	9.99	7.56
TDA7563	497-2183-5-ND	Multifunction Quad Power Amp	27-Flexiwatt	13.30	12.31	9.31
TDA7575PDTR	497-3990-1-ND	Multifunction Dual Bridge Power Amp **NEW!**	36-Power SOIC	11.30	10.46	7.91
TDA7575PDTR	497-3990-2-ND	Multifunction Dual Bridge Power Amp **NEW!**	36-Power SOIC		4305.60/600	
TDA7401013TR	497-3978-1-ND	Digitally Controlled Audio Processor **NEW!**	28-SOIC	5.40	4.70	3.50
TDA7401013TR	497-3978-2-ND	Digitally Controlled Audio Processor **NEW!**	28-SOIC		2660.00/1,000	
TDA7535013TR	497-3989-1-ND	Delta/Sigma Cascade 20-Bit Stereo DAC **NEW!**	14-SOIC	5.40	4.70	3.50
TDA7535013TR	497-3989-2-ND	Delta/Sigma Cascade 20-Bit Stereo DAC **NEW!**	14-SOIC		6400.00/2,500	
TDE1707BFPT	497-3674-ND	Intelligent Power Switch	8-SOIC	5.48	4.78	3.56

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10
TDE1798DP	497-2184-5-ND	0.5A, Intelligent Power Switch	8-Mini Dip	6.39	5.84
TDE1897RDP	497-2185-5-ND	0.5A, High-Side Driver Industrial Intelligent Power Switch	8-Mini Dip	5.59	4.87
TDE1897RFP	497-2186-5-ND	0.5A, High-Side Driver Industrial Intelligent Power Switch	20-SOIC	5.81	5.06
TEA2025B	497-3991-5-ND	Stereo Audio Amp **NEW!**	16-Dip	1.77	1.48
TEA2025D013TR	497-3675-1-ND	Stereo Audio Amp	20-SOIC	2.04	1.70
TEA2025D013TR	497-3675-2-ND	Stereo Audio Amp	20-SOIC		918.00/1,0
TEA3717DP	497-2187-5-ND	Stepper Motor Driver	16-Power Dip	2.55	2.13
TEA3718DP	497-2188-5-ND	Stepper Motor Driver	16-Power Dip	2.70	2.25
TEA3718SDP	497-2189-5-ND	Stepper Motor Driver	16-Power Dip	4.73	4.12
TEA3718SFPTR	497-2190-1-ND	Stepper Motor Driver	20-SOIC	3.15	2.63
TEA3718SFPTR	497-2190-2-ND	Stepper Motor Driver	20-SOIC		1418.00/1,0
TL061ACDT	497-2191-1-ND	Low Power, J-Fet Single Op Amp	8-SOIC	1.31	1.14
TL061ACDT	497-2191-2-ND	Low Power, J-Fet Single Op Amp	8-SOIC		1165.00/2,5
TL061CDT	497-2192-1-ND	Low Power, J-Fet Single Op Amp	8-SOIC	.68	.54
TL061CDT	497-2192-2-ND	Low Power, J-Fet Single Op Amp	8-SOIC		535.00/2,5
TL061IDT	497-4054-1-ND	Low Power, J-Fet Single Op Amp **NEW!**	8-SOIC	.72	.58
TL061IDT	497-4054-2-ND	Low Power, J-Fet Single Op Amp **NEW!**	8-SOIC		570.00/2,5
TL062ACDT	497-2193-1-ND	Low Power, J-Fet Dual Op Amp	8-SOIC	.99	.80
TL062ACDT	497-2193-2-ND	Low Power, J-Fet Dual Op Amp	8-SOIC		785.00/2,5
TL062CDT	497-2194-1-ND	Low Power, J-Fet Dual Op Amp	8-SOIC	1.04	.83
TL062CDT	497-2194-2-ND	Low Power, J-Fet Dual Op Amp	8-SOIC		487.50/2,5
TL062CN	497-2195-5-ND	Low Power, J-Fet Dual Op Amp	8-Dip	.70	.56
TL062ID	497-3029-5-ND	Low Power, J-Fet Dual Op Amp	8-SOIC	.70	.57
TL064CDT	497-2196-1-ND	Low Power, J-Fet Quad Op Amp	14-SOIC	.77	.62
TL064CDT	497-2196-2-ND	Low Power, J-Fet Quad Op Amp	14-SOIC		605.00/2,5
TL064CN	497-2197-5-ND	Low Power, J-Fet Quad Op Amp	14-Dip	.77	.62
TL064IDT	497-3030-1-ND	Low Power, J-Fet Quad Op Amp	14-SOIC	1.35	1.17
TL064IDT	497-3030-2-ND	Low Power, J-Fet Quad Op Amp	14-SOIC		1197.50/2,5
TL064IN	497-2198-5-ND	Low Power, J-Fet Quad Op Amp	14-Dip	1.00	.80
TL071CDT	497-4055-1-ND	Low Noise, J-Fet Single Op Amp **NEW!**	8-SOIC	.65	.52
TL071CDT	497-4055-2-ND	Low Noise, J-Fet Single Op Amp **NEW!**	8-SOIC		487.50/2,5
TL071CN	497-3031-5-ND	Low Noise, J-Fet Single Op Amp	8-Dip	.90	.72
TL071IDT	497-2199-1-ND	Low Noise, J-Fet Single Op Amp	8-SOIC	1.09	.88
TL071IDT	497-2199-2-ND	Low Noise, J-Fet Single Op Amp	8-SOIC		862.50/2,5
TL072CDT	497-2200-1-ND	Low Noise, J-Fet Dual Op Amp	8-SOIC	1.08	.87
TL072CDT	497-2200-2-ND	Low Noise, J-Fet Dual Op Amp	8-SOIC		487.50/2,5
TL072CN	497-2201-5-ND	Low Noise, J-Fet Dual Op Amp	8-Dip	.65	.52
TL072IDT	497-2202-1-ND	Low Noise, J-Fet Dual Op Amp	8-SOIC	1.01	.88
TL072IDT	497-2202-2-ND	Low Noise, J-Fet Dual Op Amp	8-SOIC		525.00/2,5
TL074ACDT	497-2203-1-ND	Low Noise, J-Fet Quad Op Amp	14-SOIC	1.20	1.04
TL074ACDT	497-2203-2-ND	Low Noise, J-Fet Quad Op Amp	14-SOIC		1065.00/2,5
TL074CDT	497-2204-1-ND	Low Noise, J-Fet Quad Op Amp	14-SOIC	.77	.62
TL074CDT	497-2204-2-ND	Low Noise, J-Fet Quad Op Amp	14-SOIC		605.00/2,5
TL074CN	497-2205-5-ND	Low Noise, J-Fet Quad Op Amp	14-Dip	.77	.62
TL074IDT	497-4056-1-ND	Low Noise, J-Fet Quad Op Amp **NEW!**	14-SOIC	.90	.72
TL074IDT	497-4056-2-ND	Low Noise, J-Fet Quad Op Amp **NEW!**	14-SOIC		712.50/2,5
TL074IN	497-2206-5-ND	Low Noise, J-Fet Quad Op Amp	14-Dip	.99	.80
TL081ACDT	497-2207-1-ND	J-Fet Single Op Amp	8-SOIC	1.13	.82
TL081ACDT	497-2207-2-ND	J-Fet Single Op Amp	8-SOIC		890.00/2,5
TL081CDT	497-2208-1-ND	J-Fet Single Op Amp	8-SOIC	.90	.72
TL081CDT	497-2208-2-ND	J-Fet Single Op Amp	8-SOIC		712.50/2,5
TL081CN	497-2209-5-ND	J-Fet Single Op Amp	8-Dip	.70	.56
TL081IDT	497-2210-1-ND	J-Fet Single Op Amp	8-SOIC	.77	.62
TL081IDT	497-2210-2-ND	J-Fet Single Op Amp	8-SOIC		605.00/2,5
TL082ACDT	497-2211-1-ND	J-Fet Dual Op Amp	8-SOIC	.86	.69
TL082ACDT	497-2211-2-ND	J-Fet Dual Op Amp	8-SOIC		677.50/2,5
TL082CDT	497-2212-1-ND	J-Fet Dual Op Amp	8-SOIC	.99	.80
TL082CDT	497-2212-2-ND	J-Fet Dual Op Amp	8-SOIC		487.50/2,5
TL082CN	497-2213-5-ND	J-Fet Dual Op Amp	8-Dip	.65	.52
TL082CPT	497-4057-1-ND	J-Fet Dual Op Amp **NEW!**	8-TSSOP	.81	.65
TL082CPT	497-4057-2-ND	J-Fet Dual Op Amp **NEW!**	8-TSSOP		1028.00/4,0
TL082IN	497-3032-5-ND	J-Fet Dual Op Amp	8-Dip	.86	.70
TL082IDT	497-2214-1-ND	J-Fet Dual Op Amp	8-SOIC	.95	.62
TL082IDT	497-2214-2-ND	J-Fet Dual Op Amp	8-SOIC		712.50/2,5
TL084ACDT	497-2215-1-ND	J-Fet Quad Op Amp	14-SOIC	1.01	.88
TL084ACDT	497-2215-2-ND	J-Fet Quad Op Amp	14-SOIC		897.50/2,5
TL084ACN	497-2216-5-ND	J-Fet Quad Op Amp	14-Dip	1.01	.88
TL084CD	497-3033-5-ND	J-Fet Quad Op Amp	14-SOIC	.81	.65
TL084CDT	497-2217-1-ND	J-Fet Quad Op Amp	14-SOIC	.77	.62
TL084CDT	497-2217-2-ND	J-Fet Quad Op Amp	14-SOIC		605.00/2,5
TL084CN	497-2218-5-ND	J-Fet Quad Op Amp	14-Dip	.77	.62
TL084CPT	497-2219-1-ND	J-Fet Quad Op Amp	14-TSSOP	.99	.80
TL084CPT	497-2219-2-ND	J-Fet Quad Op Amp	14-TSSOP		785.00/2,5
TL084IDT	497-2220-1-ND	J-Fet Quad Op Amp	14-SOIC	1.05	.69
TL084IDT	497-2220-2-ND	J-Fet Quad Op Amp	14-SOIC		787.50/2,5
TL084IN	497-2221-5-ND	J-Fet Quad Op Amp	14-Dip	.99	.80
TL431ACDT	497-3034-1-ND	Programmable Voltage Reference	8-SOIC	.68	.54
TL431ACDT	497-3034-2-ND	Programmable Voltage Reference	8-SOIC		535.00/2,5
TL431ACZ	497-3035-5-ND	Programmable Voltage Reference	TO-92	.70	.56
TL431AIDT	497-2225-1-ND	Programmable Voltage Reference	8-SOIC	.48	.38
TL431AIDT	497-2225-2-ND	Programmable Voltage Reference	8-SOIC		357.50/2,5
TL431AIZT	497-2226-1-ND	Programmable Voltage Reference	TO-92	.48	.38
TL431AIZT	497-2226-2-ND	Programmable Voltage Reference	TO-92		304.00/2,0
TL431CDT	497-3036-1-ND	Programmable Voltage Reference	8-SOIC	.70	.56
TL431CDT	497-3036-2-ND	Programmable Voltage Reference	8-SOIC		525.00/2,5
TL431IDT	497-2227-1-ND	Programmable Voltage Reference	8-SOIC	.55	.34
TL431IDT	497-2227-2-ND	Programmable Voltage Reference	8-SOIC		362.50/2,5
TL431IZT	497-2228-1-ND	Programmable Voltage Reference	TO-92	.60	.48
TL431IZT	497-2228-2-ND	Programmable Voltage Reference	TO-92		384.00/2,0
TL1431ACDT	497-2222-1-ND	Programmable Voltage Reference	8-SOIC	.86	.69
TL1431ACDT	497-2222-2-ND	Programmable Voltage Reference	8-SOIC		677.50/2,5
TL1431ACZT	497-2223-1-ND	Programmable Voltage Reference	TO-92	.86	.69
TL1431ACZT	497-2223-2-ND	Programmable Voltage Reference	TO-92		542.00/2,0
TL1431AIDT	497-2224-1-ND	Programmable Voltage Reference	8-SOIC	.90	.72

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TMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
.1431AIDT	497-2224-2-ND	Programmable Volt. Reference	8-SOIC			712.50/2,500
.1431IDT	497-4058-1-ND	Programmable Volt. Reference **NEW!**	8-SOIC	.86	.69	.52
.1431IDT	497-4058-2-ND	Programmable Volt. Reference **NEW!**	8-SOIC			677.50/2,500
.7702AID1/A	497-2229-5-ND	Supply Voltage Supervisor	8-SOIC	1.13	.98	.75
.7705ACD1013TRA	497-2230-1-ND	5V, Supply Voltage Supervisor	8-SOIC	1.13	.98	.75
.7705ACD1013TRA	497-2230-2-ND	5V, Supply Voltage Supervisor	8-SOIC			997.50/2,500
.7705ACP/A	497-3676-ND	5V, Supply Voltage Supervisor	8-MiniDip	1.13	.98	.75
.7705AID1013TRA	497-3677-1-ND	5V, Supply Voltage Supervisor	8-SOIC	1.13	.98	.75
.7705AID1013TRA	497-3677-2-ND	5V, Supply Voltage Supervisor	8-SOIC			997.50/2,500
3V339IDT	497-2278-1-ND	3V, Micropower Quad CMOS Voltage Comparator	14-SOIC	.98	.85	.65
3V339IDT	497-2278-2-ND	3V, Micropower Quad CMOS Voltage Comparator	14-SOIC			865.00/2,500
27L2AID	497-2250-5-ND	Low Power, CMOS Dual Op Amp	8-SOIC	1.89	1.58	1.33
27L2IDT	497-2251-1-ND	Low Power, CMOS Dual Op Amp	8-SOIC	1.20	1.04	.80
27L2IDT	497-2251-2-ND	Low Power, CMOS Dual Op Amp	8-SOIC			1065.00/2,500
27L4AID	497-2252-5-ND	Low Power, CMOS Quad Op Amp	14-SOIC	1.95	1.63	1.37
27L4AIN	497-2253-5-ND	Low Power, CMOS Quad Op Amp	14-Dip	1.95	1.63	1.37
27L4CN	497-2254-5-ND	Low Power, CMOS Quad Op Amp	14-Dip	1.01	.88	.68
27L4IDT	497-2255-1-ND	Low Power, CMOS Quad Op Amp	14-SOIC	1.31	1.14	.88
27L4IDT	497-2255-2-ND	Low Power, CMOS Quad Op Amp	14-SOIC			1165.00/2,500
27L4IN	497-2256-5-ND	Low Power, CMOS Dual Op Amp	14-Dip	1.43	1.24	.95
27M2AIDT	497-2257-1-ND	Low Power, CMOS Dual Op Amp	8-SOIC	1.35	1.17	.90
27M2AIDT	497-2257-2-ND	Low Power, CMOS Dual Op Amp	8-SOIC			1197.50/2,500
27M2AIN	497-2258-5-ND	Low Power, CMOS Dual Op Amp	8-Dip	1.69	1.47	1.13
27M2BIDT	497-4445-1-ND	Low Power, CMOS Dual Op Amp **NEW!**	8-SOIC	2.55	2.13	1.79
27M2BIDT	497-4445-2-ND	Low Power, CMOS Dual Op Amp **NEW!**	8-SOIC			2762.50/2,500
27M2IDT	497-2259-1-ND	Low Power, CMOS Dual Op Amp	8-SOIC	1.31	1.14	.88
27M2IDT	497-2259-2-ND	Low Power, CMOS Dual Op Amp	8-SOIC			1165.00/2,500
27M2IN	497-2260-5-ND	Low Power, CMOS Dual Op Amp	8-Dip	1.35	1.17	.90
27M4AID	497-2261-5-ND	Low Power, CMOS Quad Op Amp	14-SOIC	1.56	1.30	1.10
27M4IDT	497-2262-1-ND	Low Power, CMOS Quad Op Amp	14-SOIC	1.50	1.25	1.05
27M4IDT	497-2262-2-ND	Low Power, CMOS Quad Op Amp	14-SOIC			1625.00/2,500
27M4IN	497-2263-5-ND	Low Power, CMOS Quad Op Amp	14-Dip	1.73	1.50	1.15
271ACDT	497-2242-1-ND	CMOS Prog. LP Single Op Amp	8-SOIC	1.24	1.08	.83
271ACDT	497-2242-2-ND	CMOS Prog. LP Single Op Amp	8-SOIC			1097.50/2,500
271ACN	497-2243-5-ND	CMOS Prog. LP Single Op Amp	8-Dip	1.24	1.08	.83
271IDT	497-2244-1-ND	CMOS Prog. LP Single Op Amp	8-SOIC	.94	.82	.63
271IDT	497-2244-2-ND	CMOS Prog. LP Single Op Amp	8-SOIC			832.50/2,500
272AID	497-2245-5-ND	CMOS Dual Op Amp	8-SOIC	1.35	1.17	.90
272AIN	497-2246-5-ND	CMOS Dual Op Amp	8-Dip	1.50	1.30	1.00
272CD	497-3037-5-ND	CMOS Dual Op Amp	8-SOIC	1.35	1.17	.90
272IDT	497-2247-1-ND	CMOS Dual Op Amp	8-SOIC	1.73	1.50	1.15
272IDT	497-2247-2-ND	CMOS Dual Op Amp	8-SOIC			1530.00/2,500
274AID	497-2248-5-ND	CMOS Quad Op Amp	14-SOIC	2.24	1.87	1.58
274CDT	497-4060-1-ND	CMOS Quad Op Amp **NEW!**	14-SOIC	1.05	.91	.70
274CDT	497-4060-2-ND	CMOS Quad Op Amp **NEW!**	14-SOIC			930.00/2,500
274IDT	497-2249-1-ND	CMOS Quad Op Amp	14-SOIC	1.73	1.50	1.15
274IDT	497-2249-2-ND	CMOS Quad Op Amp	14-SOIC			1530.00/2,500
321ILT	497-4061-1-ND	Low Power Single Op Amp **NEW!**	SOT-23-5	.70	.56	.42
321ILT	497-4061-2-ND	Low Power Single Op Amp **NEW!**	SOT-23-5			630.00/3,000
339CPT	497-4062-1-ND	Micropower Quad CMOS Voltage Comparator **NEW!**	14-TSSOP	.72	.58	.44
339CPT	497-4062-2-ND	Micropower Quad CMOS Voltage Comparator **NEW!**	14-TSSOP			570.00/2,500
339IDT	497-2264-1-ND	Micropower Quad CMOS Voltage Comparator	14-SOIC	.98	.85	.65
339IDT	497-2264-2-ND	Micropower Quad CMOS Voltage Comparator	14-SOIC			865.00/2,500
339IN	497-2265-5-ND	Micropower Quad CMOS Voltage Comparator	14-Dip	1.09	.95	.73
339IPT	497-2266-1-ND	Micropower Quad CMOS Voltage Comparator	14-TSSOP	1.35	1.17	.90
339IPT	497-2266-2-ND	Micropower Quad CMOS Voltage Comparator	14-TSSOP			1197.50/2,500
372IDT	497-2271-1-ND	LP, DL CMOS Voltage Comparator	8-SOIC	1.31	1.14	.88
372IDT	497-2271-2-ND	LP, DL CMOS Voltage Comparator	8-SOIC			1165.00/2,500
372IN	497-2272-5-ND	LP, DL CMOS Voltage Comparator	8-Dip	1.21	1.05	.81
374IDT	497-2273-1-ND	LP, Quad CMOS Voltage Comparator	14-SOIC	.98	.85	.65
374IDT	497-2273-2-ND	LP, Quad CMOS Voltage Comparator	14-SOIC			865.00/2,500
374IN	497-2274-5-ND	LP, Quad CMOS Volt. Comparator	14-Dip	1.91	1.66	1.28
391ILT	497-2275-1-ND	LP, Single Voltage Comparator	SOT-23-5L	.86	.69	.52
391ILT	497-2275-2-ND	LP, Single Voltage Comparator	SOT-23-5L			813.00/3,000
393IDT	497-2276-1-ND	Micropower Dual CMOS Voltage Comparator	8-SOIC	.99	.80	.60
393IDT	497-2276-2-ND	Micropower Dual CMOS Voltage Comparator	8-SOIC			785.00/2,500
393IN	497-2277-5-ND	Micropower Dual CMOS Voltage Comparator	8-Dip	1.39	1.21	.93
419IDT	497-4065-1-ND	360mW Mono Amp **NEW!**	8-SOIC	1.46	1.27	.98
419IDT	497-4065-2-ND	360mW Mono Amp **NEW!**	8-SOIC			1297.50/2,500
419IST	497-4448-1-ND	360mW Mono Amp **NEW!**	8-Mini SOIC	1.46	1.27	.98
419IST	497-4448-2-ND	360mW Mono Amp **NEW!**	8-Mini SOIC			2076.00/4,000
421IDT	497-4066-1-ND	360mW Mono Amp **NEW!**	8-SOIC	1.46	1.27	.98
421IDT	497-4066-2-ND	360mW Mono Amp **NEW!**	8-SOIC			1297.50/2,500
421IST	497-4449-1-ND	360mW Mono Amp **NEW!**	8-Mini SOIC	1.46	1.27	.98
421IST	497-4449-2-ND	360mW Mono Amp **NEW!**	8-Mini SOIC			2076.00/4,000
431AILT	497-2279-1-ND	Low Voltage, Adj. Shunt Reference	SOT-23-5	1.13	.98	.75
431AILT	497-2279-2-ND	Low Voltage, Adj. Shunt Reference	SOT-23-5			1197.00/3,000
432AILT	497-2280-1-ND	1.24V, Adj. Shunt Voltage Reference	SOT-23	1.05	.91	.70
432AILT	497-2280-2-ND	1.24V, Adj. Shunt Voltage Reference	SOT-23			1116.00/3,000
461CD	497-3039-5-ND	Output R/R Op Amp	8-SOIC	.72	.58	.44
461CDT	497-2281-1-ND	Output R/R Op Amp	8-SOIC	.72	.58	.44
461CDT	497-2281-2-ND	Output R/R Op Amp	8-SOIC			570.00/2,500
461CLT	497-2282-1-ND	Output R/R Op Amp	SOT-23-5	.72	.58	.44
461CLT	497-2282-2-ND	Output R/R Op Amp	SOT-23-5			684.00/3,000
462CDT	497-2283-1-ND	Output R/R Op Amp	8-SOIC	.95	.76	.57
462CDT	497-2283-2-ND	Output R/R Op Amp	8-SOIC			747.50/2,500
462CN	497-2284-5-ND	Output R/R Op Amp	8-Dip	.95	.76	.57
462CPT	497-4067-1-ND	Output R/R Op Amp **NEW!**	8-TSSOP	1.31	1.14	.88
462CPT	497-4067-2-ND	Output R/R Op Amp **NEW!**	8-TSSOP			1864.00/4,000
464CD	497-3040-5-ND	Output R/R Op Amp	14-SOIC	1.05	.91	.70

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
TS464CDT	497-2285-1-ND	Output R/R Op Amp	14-SOIC	1.05	.91	.70
TS464CDT	497-2285-2-ND	Output R/R Op Amp	14-SOIC			930.00/2,500
TS464CN	497-2286-5-ND	Output R/R Op Amp	14-Dip	1.05	.91	.70
TS482IDT	497-2287-1-ND	100mW, Stereo Headphone Amp	8-SOIC	1.08	.87	.65
TS482IDT	497-2287-2-ND	100mW, Stereo Headphone Amp	8-SOIC			855.00/2,500
TS482IQT	497-2288-1-ND	100mW, Stereo Headphone Amp	8-DFN	1.05	.91	.70
TS482IQT	497-2288-2-ND	100mW, Stereo Headphone Amp	8-DFN			1116.00/3,000
TS486-1IST	497-4450-1-ND	100mW, Stereo Headphone Amp **NEW!**	8-Mini SOIC	1.43	1.24	.95
TS486-1IST	497-4450-2-ND	100mW, Stereo Headphone Amp **NEW!**	8-Mini SOIC			2020.00/4,000
TS486ID	497-3041-5-ND	100mW, Stereo Headphone Amp	8-SOIC	1.43	1.24	.95
TS486IDT	497-2289-1-ND	100mW, Stereo Headphone Amp	8-SOIC	1.43	1.24	.95
TS486IDT	497-2289-2-ND	100mW, Stereo Headphone Amp	8-SOIC			1262.50/2,500
TS487ID	497-2291-5-ND	100mW, Stereo Headphone Amp	8-SOIC	1.69	1.47	1.13
TS512AIDT	497-2295-1-ND	Dual Op Amp	8-SOIC	1.50	1.30	1.00
TS512AIDT	497-2295-2-ND	Dual Op Amp	8-SOIC			1330.00/2,500
TS512IDT	497-2296-1-ND	Dual Op Amp	8-SOIC	1.16	1.01	.78
TS512IDT	497-2296-2-ND	Dual Op Amp	8-SOIC			1030.00/2,500
TS514AIDT	497-4453-1-ND	Precision Quad Op Amp **NEW!**	14-SOIC	1.77	1.48	1.24
TS514AIDT	497-4453-2-ND	Precision Quad Op Amp **NEW!**	14-SOIC			1917.50/2,500
TS522ID	497-3042-5-ND	Low Noise, Dual Op Amp	8-SOIC	1.28	1.11	.85
TS522IDT	497-2297-1-ND	Low Noise, Dual Op Amp	8-SOIC	1.28	1.11	.85
TS522IDT	497-2297-2-ND	Low Noise, Dual Op Amp	8-SOIC			1130.00/2,500
TS555CDT	497-3043-1-ND	Low Power, Single CMOS Timer	8-SOIC	.90	.72	.54
TS555CDT	497-3043-2-ND	Low Power, Single CMOS Timer	8-SOIC			712.50/2,500
TS555CN	497-3044-5-ND	Low Power, Single CMOS Timer	8-Dip	.76	.61	.46
TS555ID	497-3045-5-ND	Low Power, Single CMOS Timer	8-SOIC	.70	.57	.43
TS555IDT	497-2298-1-ND	Low Power, Single CMOS Timer	8-SOIC	.90	.72	.54
TS555IDT	497-2298-2-ND	Low Power, Single CMOS Timer	8-SOIC			487.50/2,500
TS555IN	497-2299-5-ND	Low Power, Single CMOS Timer	8-Dip	.72	.58	.44
TS555IPT	497-4069-1-ND	Low Power, Single CMOS Timer **NEW!**	8-TSSOP	.90	.72	.54
TS555IPT	497-4069-2-ND	Low Power, Single CMOS Timer **NEW!**	8-TSSOP			1140.00/4,000
TS556IDT	497-2300-1-ND	Low Power, Dual CMOS Timer	14-SOIC	1.24	1.08	.83
TS556IDT	497-2300-2-ND	Low Power, Dual CMOS Timer	14-SOIC			1097.50/2,500
TS556IN	497-2301-5-ND	Low Power, Dual CMOS Timer	14-Dip	1.08	.87	.65
TS613IDT	497-2302-1-ND	Dual Wide Band Op Amp	8-SOIC	5.13	4.47	3.33
TS613IDT	497-2302-2-ND	Dual Wide Band Op Amp	8-SOIC			6080.00/2,500
TS616IDW	497-4454-5-ND	Dual Wide Band Op Amp **NEW!**	8-TSSOP	5.10	4.45	3.31
TS616IDWT	497-4455-1-ND	Dual Wide Band Op Amp **NEW!**	8-TSSOP	5.10	4.45	3.31
TS616IDWT	497-4455-2-ND	Dual Wide Band Op Amp **NEW!**	8-TSSOP			6047.50/2,500
TS822ILT	497-2303-1-ND	2.5V, Micropower Shunt Volt. Ref.	SOT-23	1.04	.83	.63
TS822ILT	497-2303-2-ND	2.5V, Micropower Shunt Volt. Ref.	SOT-23			984.00/3,000
TS822IZT	497-2304-1-ND	2.5V, Micropower Shunt Volt. Ref.	TO-92	1.04	.83	.63
TS822IZT	497-2304-2-ND	2.5V, Micropower Shunt Volt. Ref.	TO-92			714.00/2,000
TS824ILT-1.2	497-2305-1-ND	Micropower Shunt Volt. Reference	SOT-23	1.56	1.30	1.10
TS824ILT-1.2	497-2305-2-ND	Micropower Shunt Volt. Reference	SOT-23			2028.00/3,000
TS831-3IZT	497-2306-1-ND	Micropower Voltage Supervisor	TO-92	.86	.69	.52
TS831-3IZT	497-2306-2-ND	Micropower Voltage Supervisor	TO-92			590.00/2,000
TS831-5IDT	497-4070-1-ND	Micropower Volt. Supervisor Reset Active Low **NEW!**	8-SOIC	.95	.76	.57
TS831-5IDT	497-4070-2-ND	Micropower Volt. Supervisor Reset Active Low **NEW!**	8-SOIC			747.50/2,500
TS831-5IZT	497-2307-1-ND	Micropower Voltage Supervisor	TO-92	.95	.69	.53
TS831-5IZT	497-2307-2-ND	Micropower Voltage Supervisor	TO-92			652.00/2,000
TS834-5IDT	497-4071-1-ND	Micropower Volt. Supervisor Reset Active Low or High Integrated Timer **NEW!**	8-SOIC	.99	.80	.60
TS834-5IDT	497-4071-2-ND	Micropower Volt. Supervisor Reset Active Low or High Integrated Timer **NEW!**	8-SOIC			785.00/2,500
TS861AILT	497-2308-1-ND	R/R, Micropower BiCMOS Comp.	SOT-23-5	1.31	1.14	.88
TS861AILT	497-2308-2-ND	R/R, Micropower BiCMOS Comp.	SOT-23-5			1398.00/3,000
TS861AIN	497-2309-5-ND	R/R, Micropower BiCMOS Comp.	8-Dip	1.31	1.14	.88
TS861IDT	497-4072-1-ND	R/R, Micropower BiCMOS Comparator **NEW!**	8-SOIC	1.16	1.01	.78
TS861IDT	497-4072-2-ND	R/R, Micropower BiCMOS Comparator **NEW!**	8-SOIC			1030.00/2,500
TS864AIDT	497-4073-1-ND	R/R, Micropower BiCMOS Comparator **NEW!**	14-SOIC	2.16	1.80	1.52
TS864AIDT	497-4073-2-ND	R/R, Micropower BiCMOS Comparator **NEW!**	14-SOIC			2340.00/2,500
TS912AIDT	497-2310-1-ND	R/R, CMOS Dual Op Amp	8-SOIC	1.73	1.50	1.15
TS912AIDT	497-2310-2-ND	R/R, CMOS Dual Op Amp	8-SOIC			1530.00/2,500
TS914AIDT	497-2311-1-ND	R/R, CMOS Quad Op Amp	14-SOIC	2.33	2.02	1.55
TS914AIDT	497-2311-2-ND	R/R, CMOS Quad Op Amp	14-SOIC			2015.00/2,500
TS914ID	497-2312-5-ND	R/R, CMOS Quad Op Amp	14-SOIC	1.93	1.61	1.36
TS921IDT	497-4074-1-ND	R/R, High Output Current Single Op Amp **NEW!**	8-SOIC	1.54	1.34	1.03
TS921IDT	497-4074-2-ND	R/R, High Output Current Single Op Amp **NEW!**	8-SOIC			1362.50/2,500
TS921IN	497-4075-5-ND	R/R, High Output Current Single Op Amp **NEW!**	8-Dip	1.54	1.34	1.03
TS922AID	497-2313-5-ND	R/R, High Output Current Dual Op Amp	8-SOIC	2.21	1.92	1.48
TS922ID	497-3048-5-ND	R/R, High Output Current Dual Op Amp	8-SOIC	1.77	1.48	1.24
TS922IN	497-3049-5-ND	R/R, High Output Current Dual Op Amp	8-Dip	1.77	1.48	1.24
TS924AID	497-2314-5-ND	R/R, High Output Current Quad Op Amp	14-SOIC	2.79	2.33	1.96
TS925AIPT	497-4076-1-ND	R/R, High Output Current Quad Op Amp **NEW!**	16-TSSOP	2.97	2.48	2.08
TS925AIPT	497-4076-2-ND	R/R, High Output Current Quad Op Amp **NEW!**	16-TSSOP			3217.50/2,500
TS925ID	497-3050-5-ND	R/R, High Output Current Quad Op Amp	16-SOIC	2.40	2.00	1.68
TS931ID	497-3051-5-ND	Output R/R Micropower Op Amp	8-SOIC	.95	.76	.57
TS931ILT	497-4077-1-ND	Output R/R Micropower Op Amp **NEW!**	SOT-23-5L	.95	.76	.57

(Continued)

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STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
TS931ILT	497-4077-2-ND	Output R/R Micropower Op Amp **NEW!**	SOT-23-5L		897.00/3,000	
TS932ID	497-3052-5-ND	Dual Output R/R Micropower Op Amp	8-SOIC	1.31	1.14	.88
TS934ID	497-3053-5-ND	Quad Output R/R Micropower Op Amp	14-SOIC	1.95	1.63	1.37
TS941ID	497-3054-5-ND	Output R/R Micropower Op Amp	8-SOIC	1.61	1.40	1.08
TS941ILT	497-4078-1-ND	Output R/R Micropower Op Amp **NEW!**	SOT-23-5L	1.61	1.40	1.08
TS941ILT	497-4078-2-ND	Output R/R Micropower Op Amp **NEW!**	SOT-23-5L		1716.00/3,000	
TS942AID	497-4456-5-ND	Output R/R Micropower Op Amp **NEW!**	8-SOIC	1.77	1.48	1.24
TS942AIDT	497-4457-1-ND	Output R/R Micropower Op Amp **NEW!**	8-SOIC	1.71	1.43	1.20
TS942AIDT	497-4457-2-ND	Output R/R Micropower Op Amp **NEW!**	8-SOIC		1852.50/2,500	
TS951ID	497-3055-5-ND	I/O, R/R, Low Power Op Amp	8-SOIC	1.35	1.17	.90
TS951ILT	497-4079-1-ND	I/O, R/R Low Power Op Amp **NEW!**	SOT-23-5L	1.09	.95	.73
TS951ILT	497-4079-2-ND	I/O, R/R Low Power Op Amp **NEW!**	SOT-23-5L		1158.00/3,000	
TS952ID	497-3056-5-ND	I/O, R/R, Low Power Op Amp	8-SOIC	1.16	1.01	.78
TS952IDT	497-2315-1-ND	I/O, R/R, Low Power Op Amp	8-SOIC	1.16	1.01	.78
TS952IDT	497-2315-2-ND	I/O, R/R, Low Power Op Amp	8-SOIC		1030.00/2,500	
TS954ID	497-2316-5-ND	I/O, R/R, Low Power Op Amp	14-SOIC	1.46	1.27	.98
TS971ID	497-3057-5-ND	Output R/R Low Noise Op Amp	8-SOIC	.90	.72	.54
TS972ID	497-3058-5-ND	Output R/R Low Noise Op Amp	8-SOIC	.98	.85	.65
TS972IDT	497-2317-1-ND	Output R/R Low Noise Op Amp	8-SOIC	.98	.85	.65
TS972IDT	497-2317-2-ND	Output R/R Low Noise Op Amp	8-SOIC		865.00/2,500	
TS974ID	497-3059-5-ND	Output R/R Low Noise Op Amp	14-SOIC	.94	.82	.63
TS974IDT	497-2318-1-ND	Output R/R Low Noise Op Amp	14-SOIC	.94	.82	.63
TS974IDT	497-2318-2-ND	Output R/R Low Noise Op Amp	14-SOIC		832.50/2,500	
TS974IPT	497-2319-1-ND	Output R/R Low Noise Op Amp	14-TSSOP	.98	.85	.65
TS974IPT	497-2319-2-ND	Output R/R Low Noise Op Amp	14-TSSOP		865.00/2,500	
TS1851ID	497-2231-5-ND	1.8V, I/O, R/R, LP Op Amp	8-SOIC	1.65	1.38	1.16
TS1852AIST	497-4443-1-ND	1.8V, I/O, R/R, LP Op Amp **NEW!**	8-Mini SOIC	2.28	1.90	1.60
TS1852AIST	497-4443-2-ND	1.8V, I/O, R/R, LP Op Amp **NEW!**	8-Mini SOIC		3952.00/4,000	
TS1852ID	497-2232-5-ND	1.8V, I/O, R/R, LP Op Amp	8-SOIC	1.92	1.60	1.35
TS1852IN	497-2233-5-ND	1.8V, I/O, R/R, LP Op Amp	8-Dip	1.92	1.60	1.35
TS1854ID	497-2234-5-ND	1.8V, I/O, R/R, LP Op Amp	14-SOIC	2.70	2.25	1.89
TS1854IN	497-2235-5-ND	1.8V, I/O, R/R, LP Op Amp	14-Dip	2.70	2.25	1.89
TS1871ID	497-2236-5-ND	1.8V, I/O, R/R, LP Op Amp	8-SOIC	2.22	1.85	1.56
TS1871ILT	497-2237-1-ND	1.8V, I/O, R/R, LP Op Amp	SOT-23-5	2.22	1.85	1.56
TS1871ILT	497-2237-2-ND	1.8V, I/O, R/R, LP Op Amp	SOT-23-5		2886.00/3,000	
TS1872AIST	497-4444-1-ND	1.8V, I/O, R/R, LP Op Amp **NEW!**	8-Mini SOIC	2.40	2.00	1.68
TS1872AIST	497-4444-2-ND	1.8V, I/O, R/R, LP Op Amp **NEW!**	8-Mini SOIC		4160.00/4,000	
TS1872ID	497-2238-5-ND	1.8V, I/O, R/R, LP Op Amp	8-SOIC	2.22	1.85	1.56
TS1872IN	497-2239-5-ND	1.8V, I/O, R/R, LP Op Amp	8-Dip	2.37	1.98	1.66
TS1874ID	497-2240-5-ND	1.8V, I/O, R/R, LP Op Amp	14-SOIC	2.94	2.45	2.06
TS1874IN	497-2241-5-ND	1.8V, I/O, R/R, LP Op Amp	14-Dip	2.94	2.45	2.06
TS2431BILT	497-4059-1-ND	Prog. Shunt Voltage Reference **NEW!**	SOT-23	1.20	1.04	.80
TS2431BILT	497-4059-2-ND	Prog. Shunt Voltage Reference **NEW!**	SOT-23		1278.00/3,000	
TS3431BILT	497-4446-1-ND	1.24V Prog. Shunt Volt. Ref. **NEW!**	SOT-23	.60	.48	.36
TS3431BILT	497-4446-2-ND	1.24V Prog. Shunt Volt. Ref. **NEW!**	SOT-23		540.00/3,000	
TS3431BIZT	497-4447-ND	1.24V Prog. Shunt Volt. Ref. **NEW!**	TO-92	.60	.48	.36
TS3702ID	497-3038-5-ND	Micropower Dual CMOS Voltage Comparator	8-SOIC	1.39	1.21	.93
TS3702IDT	497-2267-1-ND	Micropower Dual CMOS Voltage Comparator	8-SOIC	1.05	.91	.76
TS3702IDT	497-2267-2-ND	Micropower Dual CMOS Voltage Comparator	8-SOIC		930.00/2,500	
TS3702IN	497-2268-5-ND	Micropower Dual CMOS Voltage Comparator	8-Dip	1.05	.91	.70
TS3704CDT	497-4063-1-ND	Micropower Quad CMOS Voltage Comparator **NEW!**	14-SOIC	.90	.72	.54
TS3704CDT	497-4063-2-ND	Micropower Quad CMOS Voltage Comparator **NEW!**	14-SOIC		712.50/2,500	
TS3704IDT	497-2269-1-ND	Micropower Quad CMOS Voltage Comparator	14-SOIC	.98	.85	.65
TS3704IDT	497-2269-2-ND	Micropower Quad CMOS Voltage Comparator	14-SOIC		865.00/2,500	
TS3704IN	497-2270-5-ND	Micropower Quad CMOS Voltage Comparator	14-Dip	1.13	.98	.75
TS3704IPT	497-4064-1-ND	Micropower Quad CMOS Voltage Comparator **NEW!**	14-TSSOP	1.09	.95	.73
TS3704IPT	497-4064-2-ND	Micropower Quad CMOS Voltage Comparator **NEW!**	14-TSSOP		965.00/2,500	
TS4871ID	497-2290-5-ND	1W, R/R Output Audio Power Amp	8-SOIC	1.84	1.60	1.23
TS4871IST	497-4068-1-ND	1W, R/R Output Audio Power Amp **NEW!**	8-TSSOP	1.84	1.60	1.23
TS4871IST	497-4068-2-ND	1W, R/R Output Audio Power Amp **NEW!**	8-TSSOP		2608.00/4,000	
TS4890ID	497-2292-5-ND	1W, R/R Output Audio Power Amp	8-SOIC	1.95	1.63	1.37
TS4900ID	497-2293-5-ND	300mW, 3.3V Supply Audio Power Amp	8-SOIC	1.05	.91	.70
TS4902ID	497-2294-5-ND	300mW, 3.3V Supply Audio Power Amp	8-SOIC	1.05	.91	.70
TS4990IST	497-4451-1-ND	1.2W Audio Power Amp **NEW!**	8-Mini SOIC	1.04	.83	.63
TS4990IST	497-4451-2-ND	1.2W Audio Power Amp **NEW!**	8-Mini SOIC		1312.00/4,000	
TS4994IST	497-4452-1-ND	1.2W Diff. Input Audio Power Amp **NEW!**	8-Mini SOIC	2.46	2.05	1.73
TS4994IST	497-4452-2-ND	1.2W Diff. Input Audio Power Amp **NEW!**	8-Mini SOIC		4264.00/4,000	
TS7211AILT	497-3046-1-ND	BiCMOS R/R Micropower Comparator	SOT-23-5	1.35	1.17	.90
TS7211AILT	497-3046-2-ND	BiCMOS R/R Micropower Comparator	SOT-23-5		1437.00/3,000	
TS7221AILT	497-3047-1-ND	BiCMOS R/R Micropower Comparator	SOT-23-5	1.35	1.17	.90
TS7221AILT	497-3047-2-ND	BiCMOS R/R Micropower Comparator	SOT-23-5		1437.00/3,000	
TSA1203IF	497-4125-ND	Dual-Ch., 12-Bit, 40MSPS ADC **NEW!**	48-TQFP	33.08	28.35	25.14

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	10
TSA1401IF	497-4458-ND	14-Bit, 20MSPS, 85mW ADC **NEW!**	48-TQFP	50.75	43.50	38.5
TSH10ID	497-3060-5-ND	140MHz Bandwidth, LN, Op Amp	8-SOIC	1.69	1.47	1.1
TSH11ID	497-3065-5-ND	120MHz Bandwidth MOS Input Op Amp	8-SOIC	1.84	1.60	1.2
TSH22IDT	497-2320-1-ND	Dual Bipolar Op Amp	8-SOIC	1.65	1.38	1.1
TSH22IDT	497-2320-2-ND	Dual Bipolar Op Amp	8-SOIC		1097.50/2,500	
TSH24IDT	497-2321-1-ND	Quad Bipolar Op Amp	14-SOIC	1.35	1.17	.9
TSH24IDT	497-2321-2-ND	Quad Bipolar Op Amp	14-SOIC		1197.50/2,500	
TSH31ID	497-3068-5-ND	280MHz Bandwidth MOS Input Op Amp	8-SOIC	2.01	1.68	1.4
TSH70CD	497-3070-5-ND	Wideband, Low Power Op Amp	8-SOIC	1.50	1.25	1.0
TSH72CD	497-2324-5-ND	Wideband, Low Power Dual Op Amp	8-SOIC	1.74	1.45	1.2
TSH72CPT	497-4080-1-ND	Wideband, Low Power Dual Op Amp **NEW!**	8-TSSOP	1.74	1.45	1.2
TSH72CPT	497-4080-2-ND	Wideband, Low Power Dual Op Amp **NEW!**	8-TSSOP		3016.00/4,000	
TSH74CD	497-2325-5-ND	Wideband, Low Power Op Amp	14-SOIC	2.40	2.00	1.6
TSH80ID	497-2326-5-ND	Wideband, R/R Op Amp	8-SOIC	1.50	1.30	1.0
TSH81ID	497-2327-5-ND	Wideband, R/R Op Amp	8-SOIC	1.50	1.30	1.0
TSH82ID	497-2328-5-ND	Wideband, R/R Op Amp	8-SOIC	1.62	1.35	1.1
TSH93ID	497-3071-5-ND	HS, LP Triple Op Amp	14-SOIC	2.75	2.40	1.9
TSH94ID	497-3072-5-ND	HS, LP Quad Op Amp	16-SOIC	3.43	2.99	2.3
TSH95ID	497-2329-5-ND	High Speed, LP Quad Op Amp	16-SOIC	2.92	2.54	1.9
TSH110ILT	497-4459-1-ND	Wideband, LN Op Amp **NEW!**	SOT-23-5	1.62	1.35	1.1
TSH110ILT	497-4459-2-ND	Wideband, LN Op Amp **NEW!**	SOT-23-5		2106.00/3,000	
TSH111ID	497-3061-5-ND	Current Feedback Op Amp	8-SOIC	1.62	1.35	1.1
TSH111IPT	497-4460-1-ND	Current Feedback Op Amp **NEW!**	8-TSSOP	1.62	1.35	1.1
TSH111IPT	497-4460-2-ND	Current Feedback Op Amp **NEW!**	8-TSSOP		2808.00/4,000	
TSH112ID	497-3062-5-ND	Dual, Current Feedback Op Amp	8-SOIC	1.89	1.58	1.3
TSH112IPT	497-4461-1-ND	Dual, Current Feedback Op Amp	8-TSSOP	1.89	1.58	1.3
TSH112IPT	497-4461-2-ND	Dual, Current Feedback Op Amp	8-TSSOP		3276.00/4,000	
TSH113ID	497-3063-5-ND	Triple, Current Feedback Op Amp	14-SOIC	3.11	2.71	2.4
TSH114ID	497-3064-5-ND	Quad, Current Feedback Op Amp	14-SOIC	3.19	2.78	2.5
TSH150ID	497-3066-5-ND	Wide Bandwidth/Bipolar In Op Amp	8-SOIC	5.08	4.42	3.8
TSH151ID	497-3067-5-ND	Wide Bandwidth/MOS Input Op Amp	8-SOIC	5.37	4.68	3.9
TSH310IDT	497-4462-1-ND	400µA High Speed Op Amp **NEW!**	8-SOIC	1.74	1.45	1.2
TSH310IDT	497-4462-2-ND	400µA High Speed Op Amp **NEW!**	8-SOIC		1885.00/2,500	
TSH310ILT	497-4463-1-ND	400µA High Speed Op Amp **NEW!**	SOT-23-5	1.74	1.45	1.2
TSH310ILT	497-4463-2-ND	400µA High Speed Op Amp **NEW!**	SOT-23-5		2262.00/3,000	
TSH321ID	497-3069-5-ND	Wide Bandwidth/MOS Input Op Amp	8-SOIC	5.40	4.70	3.9
TSH330IDT	497-4464-1-ND	1.1GHz Low Noise Op Amp **NEW!**	8-SOIC	2.70	2.35	1.9
TSH330IDT	497-4464-2-ND	1.1GHz Low Noise Op Amp **NEW!**	8-SOIC		3200.00/2,500	
TSH350IDT	497-4465-1-ND	550MHz Low Noise Current Feedback Amp **NEW!**	8-SOIC	1.74	1.45	1.2
TSH350IDT	497-4465-2-ND	550MHz Low Noise Current Feedback Amp **NEW!**	8-SOIC		1885.00/2,500	
TSH350ILT	497-4466-1-ND	550MHz Low Noise Current Feedback Amp **NEW!**	SOT-23-5	1.74	1.45	1.2
TSH350ILT	497-4466-2-ND	550MHz Low Noise Current Feedback Amp **NEW!**	SOT-23-5		2262.00/3,000	
TSH511CF	497-2322-ND	Hi-Fi Stereo/Mono Infrared Rcvr. Stereo Sub-Carrier Demodulator	44-TQFP	4.59	4.00	3.5
TSH512CF	497-2323-ND	Hi-Fi Stereo/Mono Infrared Transmitter Stereo Sub-Carrier Gen.	44-TQFP	4.59	4.00	3.5
TSM007IDT	497-4468-1-ND	Primary PWM Controller **NEW!**	8-SOIC	3.19	2.78	2.5
TSM007IDT	497-4468-2-ND	Primary PWM Controller **NEW!**	8-SOIC		3775.00/2,500	
TSM100IDT	497-2330-1-ND	Single Op Amp and Single Comp.	8-SOIC	.94	.82	.6
TSM100IDT	497-2330-2-ND	Single Op Amp and Single Comp.	8-SOIC		832.50/2,500	
TSM101AIDT	497-2331-1-ND	Voltage/Current Controller	8-SOIC	1.16	1.01	.8
TSM101AIDT	497-2331-2-ND	Voltage/Current Controller	8-SOIC		1030.00/2,500	
TSM102AIDT	497-4081-1-ND	Voltage/Current Controller **NEW!**	16-SOIC	1.31	1.14	.9
TSM102AIDT	497-4081-2-ND	Voltage/Current Controller **NEW!**	16-SOIC		1165.00/2,500	
TSM102ID	497-2332-5-ND	Voltage/Current Controller	16-SOIC	1.28	1.11	.8
TSM103AID	497-3104-ND	Dual Op Amp/Volt. Ref.	8-SOIC	1.16	1.01	.8
TSM108ID	497-3073-5-ND	Automotive Switch Mode Voltage and Current Controller	14-SOIC	1.35	1.17	.9
TSM108IDT	497-2333-1-ND	Automotive Switch Mode Voltage and Current Controller	14-SOIC	1.35	1.17	.9
TSM108IDT	497-2333-2-ND	Automotive Switch Mode Voltage and Current Controller	14-SOIC		1197.50/2,500	
TSM109AIDT	497-4082-1-ND	Dual Comparator/Voltage Ref. **NEW!**	8-SOIC	1.58	1.37	1.1
TSM109AIDT	497-4082-2-ND	Dual Comparator/Voltage Ref. **NEW!**	8-SOIC		1397.50/2,500	
TSM109ID	497-3074-5-ND	Dual Comparator/Voltage Ref.	8-SOIC	1.50	1.30	1.0
TSM111CN	497-2334-5-ND	Triple Voltage and Current Supervisor	20-Dip	1.65	1.38	1.1
TSM1011AIDT	497-4470-1-ND	Constant Voltage/Constant Current Controller **NEW!**	8-SOIC	1.35	1.17	.9
TSM1011AIDT	497-4470-2-ND	Constant Voltage/Constant Current Controller **NEW!**	8-SOIC		1197.50/2,500	
TSM1011AIST	497-4471-1-ND	Constant Voltage/Constant Current Controller **NEW!**	8-Mini SOIC	1.35	1.17	.9
TSM1011AIST	497-4471-2-ND	Constant Voltage/Constant Current Controller **NEW!**	8-Mini SOIC		1916.00/4,000	
TSM1012AIDT	497-4472-1-ND	Low Consumption Voltage/Current Controller **NEW!**	8-SOIC	1.95	1.63	1.3
TSM1012AIDT	497-4472-2-ND	Low Consumption Voltage/Current Controller **NEW!**	8-SOIC		2112.50/2,500	
TSM1012AIST	497-4473-1-ND	Low Consumption Voltage/Current Controller **NEW!**	8-Mini SOIC	1.95	1.63	1.3
TSM1012AIST	497-4473-2-ND	Low Consumption Voltage/Current Controller **NEW!**	8-Mini SOIC		3380.00/4,000	
TSM1013AIDT	497-4474-1-ND	Constant Voltage/Constant Current Controller **NEW!**	8-SOIC	1.95	1.63	1.3
TSM1013AIDT	497-4474-2-ND	Constant Voltage/Constant Current Controller **NEW!**	8-SOIC		2112.50/2,500	
TSM1013AIST	497-4475-1-ND	Constant Voltage/Constant Current Controller **NEW!**	8-Mini SOIC	1.95	1.63	1.3

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STMicroelectronics — INTEGRATED CIRCUITS (Continued)

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
M1013AIST	497-4475-2-ND	Constant Voltage/Constant Current Controller **NEW!**	8-Mini SOIC		3380.00/4,000	
M1014AIDT	497-4476-1-ND	Low Consumption Voltage/Current Controller **NEW!**	8-SOIC	1.95	1.63	1.37
M1014AIDT	497-4476-2-ND	Low Consumption Voltage/Current Controller **NEW!**	8-SOIC		2112.50/2,500	
M1014AIST	497-4477-1-ND	Low Consumption Voltage/Current Controller **NEW!**	8-Mini SOIC	1.95	1.63	1.37
M1014AIST	497-4477-2-ND	Low Consumption Voltage/Current Controller **NEW!**	8-Mini SOIC		3380.00/4,000	
M1051CD	497-4478-5-ND	Constant Voltage/Constant Current Controller **NEW!**	8-SOIC	1.01	.88	.68
M1121ID	497-2335-5-ND	3.3V, 5V, 12V Housekeeping IC	14-SOIC	1.69	1.47	1.13
X5070FN012TR	497-2336-1-ND	Prog. CODEC/Filter Combo 2nd Generation	28-PLCC	6.44	5.88	4.65
X5070FN012TR	497-2336-2-ND	Prog. CODEC/Filter Combo 2nd Generation	28-PLCC		1820.00/500	
741CDT	497-3075-1-ND	Single Op Amp	8-SOIC	.68	.54	.41
741CDT	497-3075-2-ND	Single Op Amp	8-SOIC		535.00/2,500	
741IDT	497-2337-1-ND	Single Op Amp	8-SOIC	.81	.65	.49
741IDT	497-2337-2-ND	Single Op Amp	8-SOIC		642.50/2,500	
748CN	497-4083-5-ND	Precision Single Op Amp **NEW!**	8-Dip	.99	.80	.60
748ID	497-4084-5-ND	Precision Single Op Amp **NEW!**	8-SOIC	1.09	.95	.73
2843AN	497-3076-5-ND	Current Mode PWM Controller	8-Dip	1.13	.98	.75
2843BN	497-3678-ND	Current Mode PWM Controller	8-Mini Dip	1.20	1.04	.80
2844AN	497-3077-5-ND	Current Mode PWM Controller	8-Dip	1.13	.98	.75
2845BD1013TR	497-3679-1-ND	Current Mode PWM Controller	8-SOIC	1.20	1.04	.80
2845BD1013TR	497-3679-2-ND	Current Mode PWM Controller	8-SOIC		1065.00/2,500	
2845BN	497-3680-ND	Current Mode PWM Controller	8-Mini Dip	1.20	1.04	.80
3842AN	497-3078-5-ND	Current Mode PWM Controller	8-Dip	1.09	.95	.73
3842BN	497-3079-5-ND	Current Mode PWM Controller	8-Dip	1.16	1.01	.78
3843AD1	497-3080-5-ND	Current Mode PWM Controller	8-SOIC	1.09	.95	.73
3843AD1013TR	497-2338-1-ND	Current Mode PWM Controller	8-SOIC	1.09	.95	.73
3843AD1013TR	497-2338-2-ND	Current Mode PWM Controller	8-SOIC		965.00/2,500	
3843AN	497-3081-5-ND	Current Mode PWM Controller	8-Dip	1.09	.95	.73
3843BD1013TR	497-3681-1-ND	Current Mode PWM Controller	8-SOIC	1.16	1.01	.78
3843BD1013TR	497-3681-2-ND	Current Mode PWM Controller	8-SOIC		1030.00/2,500	
3844AD1	497-3082-5-ND	Current Mode PWM Controller	8-SOIC	1.09	.95	.73
3844AN	497-2339-5-ND	Current Mode PWM Controller	8-Mini Dip	1.09	.95	.73
3844BD1013TR	497-3682-1-ND	Current Mode PWM Controller	8-SOIC	1.16	1.01	.78
3844BD1013TR	497-3682-2-ND	Current Mode PWM Controller	8-SOIC		1030.00/2,500	
3845BD1013TR	497-3683-1-ND	Current Mode PWM Controller	8-SOIC	1.16	1.01	.78
3845BD1013TR	497-3683-2-ND	Current Mode PWM Controller	8-SOIC		1030.00/2,500	
2001A	497-2340-5-ND	Seven Darlington Array	16-Dip	.95	.76	.57
2001D1013TR	497-2341-1-ND	Seven Darlington Array	16-SOIC	.95	.76	.57
2001D1013TR	497-2341-2-ND	Seven Darlington Array	16-SOIC		747.50/2,500	
2002A	497-2342-5-ND	Seven Darlington Array	16-Dip	.95	.76	.57
2002D1013TR	497-2343-1-ND	Seven Darlington Array	16-SOIC	.95	.76	.57
2002D1013TR	497-2343-2-ND	Seven Darlington Array	16-SOIC		747.50/2,500	
2003A	497-2344-5-ND	Seven Darlington Array	16-Dip	.95	.76	.57
2003D1013TR	497-2345-1-ND	Seven Darlington Array	16-SOIC	.95	.76	.57
2003D1013TR	497-2345-2-ND	Seven Darlington Array	16-SOIC		747.50/2,500	
2004A	497-2346-5-ND	Seven Darlington Array	16-Dip	.95	.76	.57
2004D1013TR	497-2347-1-ND	Seven Darlington Array	16-SOIC	.95	.76	.57
2004D1013TR	497-2347-2-ND	Seven Darlington Array	16-SOIC		747.50/2,500	
2064B	497-2348-5-ND	50V, 1.5A Quad Darlington Switch	16-Power Dip	2.85	2.38	2.00
2065B	497-2349-5-ND	80V, 1.5A Quad Darlington Switch	16-Power Dip	2.85	2.38	2.00
2067B	497-2350-5-ND	80V, 1.5A Quad Darlington Switch	16-Power Dip	2.85	2.38	2.00
2068B	497-2351-5-ND	50V, 1.5A Quad Darlington Switch	16-Power Dip	2.85	2.38	2.00
2069B	497-2352-5-ND	80V, 1.5A Quad Darlington Switch	16-Power Dip	2.85	2.38	2.00
2074B	497-2353-5-ND	50V, 1.5A Quad Darlington Switch	16-Power Dip	2.85	2.38	2.00
2075B	497-3084-5-ND	80V, 1.5A Quad Darlington Switch	16-Power Dip	2.85	2.38	2.00
2801A	497-2354-5-ND	Eight Darlington Array	18-Dip	1.05	.91	.70
2802A	497-2355-5-ND	Eight Darlington Array	18-Dip	1.05	.91	.70
2803A	497-2356-5-ND	Eight Darlington Array	18-Dip	1.05	.91	.70
2804A	497-2357-5-ND	Eight Darlington Array	18-Dip	1.05	.91	.70
2003A	497-2358-5-ND	Seven Darlington Array	16-Dip	1.01	.88	.68
2003D1	497-3085-5-ND	Seven Darlington Array	16-SOIC	1.01	.88	.68
2003D1013TR	497-2359-1-ND	Seven Darlington Array	16-SOIC	1.01	.88	.68
2003D1013TR	497-2359-2-ND	Seven Darlington Array	16-SOIC		897.50/2,500	
2004A	497-2360-5-ND	Seven Darlington Array	16-Dip	1.01	.88	.68
2004D1013TR	497-2361-1-ND	Seven Darlington Array	16-SOIC	1.01	.88	.68
2004D1013TR	497-2361-2-ND	Seven Darlington Array	16-SOIC		897.50/2,500	
2803A	497-2362-5-ND	Eight Darlington Array	18-Dip	1.50	1.30	1.00
3DF01W5	497-3086-5-ND	EMI Filter and Line Termination	SOT-323-5L	.79	.64	.48
3UF01W6	497-3087-1-ND	EMI Filter and Line Termination	SOT-323-6L	1.35	1.17	.90
3UF01W6	497-3087-2-ND	EMI Filter and Line Termination	SOT-323-6L		1436.40/3,000	
3SP30TR-E	497-3565-1-ND	Fully Integrated H-Bridge Motor Driver	30-SOIC	8.40	7.67	6.06
3SP30TR-E	497-3565-2-ND	Fully Integrated H-Bridge Motor Driver	30-SOIC		4654.00/1,000	

STMicroelectronics — RESET SUPERVISORS

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
M690AM6F	497-3824-1-ND	5V Supervisor with Battery Switchover	8-SOIC	2.10	1.75	1.47
M690AM6F	497-3824-2-ND	5V Supervisor with Battery Switchover	8-SOIC		2275.00/2,500	
M690RM6F	497-3825-1-ND	3V Supervisor with Battery Switchover	8-SOIC	2.10	1.75	1.47
M690RM6F	497-3825-2-ND	3V Supervisor with Battery Switchover	8-SOIC		2275.00/2,500	
M690SM6F	497-3826-1-ND	3V Supervisor with Battery Switchover	8-SOIC	2.10	1.75	1.47
M690SM6F	497-3826-2-ND	3V Supervisor with Battery Switchover	8-SOIC		2275.00/2,500	
M690TM6F	497-3827-1-ND	3V Supervisor with Battery Switchover	8-SOIC	2.10	1.75	1.47
M690TM6F	497-3827-2-ND	3V Supervisor with Battery Switchover	8-SOIC		2275.00/2,500	
M692AM6F	497-3828-1-ND	5V Supervisor with Battery Switchover	8-SOIC	2.07	1.73	1.45
M692AM6F	497-3828-2-ND	5V Supervisor with Battery Switchover	8-SOIC		2242.50/2,500	
M703M6F	497-3829-1-ND	5V Supervisor with Battery Switchover	8-SOIC	2.04	1.70	1.43
M703M6F	497-3829-2-ND	5V Supervisor with Battery Switchover	8-SOIC		2210.00/2,500	
M704M6F	497-3830-1-ND	5V Supervisor with Battery Switchover	8-SOIC	2.04	1.70	1.43
M704M6F	497-3830-2-ND	5V Supervisor with Battery Switchover	8-SOIC		2210.00/2,500	
M704RM6F	497-3831-1-ND	3V Supervisor with Battery Switchover	8-SOIC	2.04	1.70	1.43
M704RM6F	497-3831-2-ND	3V Supervisor with Battery Switchover	8-SOIC		2210.00/2,500	
M704SM6F	497-3832-1-ND	3V Supervisor with Battery Switchover	8-SOIC	2.04	1.70	1.43
M704SM6F	497-3832-2-ND	3V Supervisor with Battery Switchover	8-SOIC		2210.00/2,500	
M704TM6F	497-3833-1-ND	3V Supervisor with Battery Switchover	8-SOIC	2.04	1.70	1.43
M704TM6F	497-3833-2-ND	3V Supervisor with Battery Switchover	8-SOIC		2210.00/2,500	
M705M6F	497-3834-1-ND	5V Supervisor with Watchdog	8-SOIC	1.74	1.52	1.17
M705M6F	497-3834-2-ND	5V Supervisor with Watchdog	8-SOIC		1545.00/2,500	
M706M6F	497-3835-1-ND	5V Supervisor with Watchdog	8-SOIC	1.74	1.52	1.17
M706M6F	497-3835-2-ND	5V Supervisor with Watchdog	8-SOIC		1545.00/2,500	
M706PM6F	497-3836-1-ND	3V Supervisor with Watchdog	8-SOIC	1.74	1.52	1.17
M706PM6F	497-3836-2-ND	3V Supervisor with Watchdog	8-SOIC		1545.00/2,500	
M706RM6F	497-3837-1-ND	3V Supervisor with Watchdog	8-SOIC	1.74	1.52	1.17
M706RM6F	497-3837-2-ND	3V Supervisor with Watchdog	8-SOIC		1545.00/2,500	
M706SM6F	497-3838-1-ND	3V Supervisor with Watchdog	8-SOIC	1.74	1.52	1.17
M706SM6F	497-3838-2-ND	3V Supervisor with Watchdog	8-SOIC		1545.00/2,500	
M706TM6F	497-3839-1-ND	3V Supervisor with Watchdog	8-SOIC	1.74	1.52	1.17
M706TM6F	497-3839-2-ND	3V Supervisor with Watchdog	8-SOIC		1545.00/2,500	
M707M6F	497-3840-1-ND	5V Supervisor	8-SOIC	1.74	1.52	1.17
M707M6F	497-3840-2-ND	5V Supervisor	8-SOIC		1545.00/2,500	
M708M6F	497-3841-1-ND	5V Supervisor	8-SOIC	1.74	1.52	1.17
M708M6F	497-3841-2-ND	5V Supervisor	8-SOIC		1545.00/2,500	
M708RM6F	497-3842-1-ND	3V Supervisor	8-SOIC	1.74	1.52	1.17
M708RM6F	497-3842-2-ND	3V Supervisor	8-SOIC		1545.00/2,500	
M708SM6F	497-3843-1-ND	3V Supervisor	8-SOIC	1.74	1.52	1.17
M708SM6F	497-3843-2-ND	3V Supervisor	8-SOIC		1545.00/2,500	
M708TM6F	497-3844-1-ND	3V Supervisor	8-SOIC	1.74	1.52	1.17
M708TM6F	497-3844-2-ND	3V Supervisor	8-SOIC		1545.00/2,500	
M795RM6F	497-3845-1-ND	3V Supervisor with Battery Switchover	8-SOIC	2.97	2.48	2.08
M795RM6F	497-3845-2-ND	3V Supervisor with Battery Switchover	8-SOIC		3217.50/2,500	
M795SM6F	497-3846-1-ND	3V Supervisor with Battery Switchover	8-SOIC	2.97	2.48	2.08
M795SM6F	497-3846-2-ND	3V Supervisor with Battery Switchover	8-SOIC		3217.50/2,500	
M795TM6F	497-3847-1-ND	3V Supervisor with Battery Switchover	8-SOIC	2.97	2.48	2.08
M795TM6F	497-3847-2-ND	3V Supervisor with Battery Switchover	8-SOIC		3217.50/2,500	
M802LM6F	497-3848-1-ND	5V Supervisor with Battery Switchover	8-SOIC	3.16	2.75	2.05
M802LM6F	497-3848-2-ND	5V Supervisor with Battery Switchover	8-SOIC		3745.00/2,500	
M802MM6F	497-3849-1-ND	5V Supervisor with Battery Switchover	8-SOIC	3.16	2.75	2.05
M802MM6F	497-3849-2-ND	5V Supervisor with Battery Switchover	8-SOIC		3745.00/2,500	
M802RM6F	497-3850-1-ND	3V Supervisor with Battery Switchover	8-SOIC	3.16	2.75	2.05
M802RM6F	497-3850-2-ND	3V Supervisor with Battery Switchover	8-SOIC		3745.00/2,500	
M802SM6F	497-3851-1-ND	3V Supervisor with Battery Switchover	8-SOIC	3.16	2.75	2.05
M802SM6F	497-3851-2-ND	3V Supervisor with Battery Switchover	8-SOIC		3745.00/2,500	
M802TM6F	497-3852-1-ND	3V Supervisor with Battery Switchover	8-SOIC	3.16	2.75	2.05
M802TM6F	497-3852-2-ND	3V Supervisor with Battery Switchover	8-SOIC		3745.00/2,500	
M804RM6F	497-3853-1-ND	3V Supervisor with Battery Switchover	8-SOIC	3.16	2.75	2.05
M804RM6F	497-3853-2-ND	3V Supervisor with Battery Switchover	8-SOIC		3802.50/2,500	
M804SM6F	497-3854-1-ND	3V Supervisor with Battery Switchover	8-SOIC	3.16	2.75	2.05
M804SM6F	497-3854-2-ND	3V Supervisor with Battery Switchover	8-SOIC		3745.00/2,500	
M804TM6F	497-3855-1-ND	3V Supervisor with Battery Switchover	8-SOIC	3.16	2.75	2.05
M804TM6F	497-3855-2-ND	3V Supervisor with Battery Switchover	8-SOIC		3745.00/2,500	
M805LM6F	497-3856-1-ND	5V Supervisor with Battery Switchover	8-SOIC	2.43	2.03	1.71
M805LM6F	497-3856-2-ND	5V Supervisor with Battery Switchover	8-SOIC		2632.50/2,500	
M805RM6F	497-3857-1-ND	3V Supervisor with Battery Switchover	8-SOIC	2.43	2.03	1.71
M805RM6F	497-3857-2-ND	3V Supervisor with Battery Switchover	8-SOIC		2632.50/2,500	
M805SM6F	497-3858-1-ND	3V Supervisor with Battery Switchover	8-SOIC	2.43	2.03	1.71
M805SM6F	497-3858-2-ND	3V Supervisor with Battery Switchover	8-SOIC		2632.50/2,500	
M805TM6F	497-3859-1-ND	3V Supervisor with Battery Switchover	8-SOIC	2.43	2.03	1.71
M805TM6F	497-3859-2-ND	3V Supervisor with Battery Switchover	8-SOIC		2632.50/2,500	
M806RM6F	497-3860-1-ND	3V Supervisor with Battery Switchover	8-SOIC	2.84	2.47	1.84
M806RM6F	497-3860-2-ND	3V Supervisor with Battery Switchover	8-SOIC		3412.50/2,500	
M806SM6F	497-3861-1-ND	3V Supervisor with Battery Switchover	8-SOIC	2.84	2.47	1.84
M806SM6F	497-3861-2-ND	3V Supervisor with Battery Switchover	8-SOIC		3412.50/2,500	
M806TM6F	497-3862-1-ND	3V Supervisor with Battery Switchover	8-SOIC	3.15	2.63	2.21
M806TM6F	497-3862-2-ND	3V Supervisor with Battery Switchover	8-SOIC		3360.00/2,500	
STM813LM6F	497-3863-1-ND	5V Supervisor with Watchdog	8-SOIC	1.74	1.52	1.17
STM813LM6F	497-3863-2-ND	5V Supervisor with Watchdog	8-SOIC		1545.00/2,500	
STM817LM6F	497-3864-1-ND	5V Supervisor with Battery Switchover	8-SOIC	2.43	2.03	1.71
STM817LM6F	497-3864-2-ND	5V Supervisor with Battery Switchover	8-SOIC		2632.50/2,500	
STM817MM6F	497-3865-1-ND	5V Supervisor with Battery Switchover	8-SOIC	2.43	2.03	1.71
STM817MM6F	497-3865-2-ND	5V Supervisor with Battery Switchover	8-SOIC		2632.50/2,500	
STM818LM6F	497-3866-1-ND	5V Supervisor with Battery Switchover	8-SOIC	2.82	2.35	1.98
STM818LM6F	497-3866-2-ND	5V Supervisor with Battery Switchover	8-SOIC		3055.00/2,500	
STM818MM6F	497-3867-1-ND	5V Supervisor with Battery Switchover	8-SOIC	2.82	2.35	1.98
STM818MM6F	497-3867-2-ND	5V Supervisor with Battery Switchover	8-SOIC		3055.00/2,500	
STM819LM6F	497-3868-1-ND	5V Supervisor with Battery Switchover	8-SOIC	2.10	1.75	1.47
STM819LM6F	497-3868-2-ND	5V Supervisor with Battery Switchover	8-SOIC		2275.00/2,500	
STM819MM6F	497-3869-1-ND	5V Supervisor with Battery Switchover	8-SOIC	2.10	1.75	1.47
STM819MM6F	497-3869-2-ND	5V Supervisor with Battery Switchover	8-SOIC		2275.002,500	

STMicroelectronics — LOW DROPOUT REGULATORS

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
KF25BDT-TR	497-4202-1-ND	2.5V, LDO Voltage Regulator **NEW!**	D-PAK	1.16	1.01	.78
KF25BDT-TR	497-4202-2-ND	2.5V, LDO Voltage Regulator **NEW!**	D-PAK		1030.00/2,500	
KF33BDT-TRI	497-1148-1-ND	3.3V, LDO Voltage Regulator	D-PAK	1.73	1.50	1.15
KF33BDT-TRI	497-1148-2-ND	3.3V, LDO Voltage Regulator	D-PAK		1530.00/2,500	
KF50BDT-TRI	497-1149-1-ND	5V, LDO Voltage Regulator	D-PAK	1.50	1.30	1.00
KF50BDT-TRI	497-1149-2-ND	5V, LDO Voltage Regulator	D-PAK		1330.00/2,500	
KF80BD-TRI	497-1150-1-ND	8V, LDO Voltage Regulator	8-SOIC	1.50	1.30	1.00
KF80BD-TRI	497-1150-2-ND	8V, LDO Voltage Regulator	8-SOIC		1330.00/2,500	
KF80BDT-TRI	497-1151-1-ND	8V, LDO Voltage Regulator	D-PAK	1.50	1.30	1.00
KF80BDT-TRI	497-1151-2-ND	8V, LDO Voltage Regulator	D-PAK		1330.00/2,500	
L4892CV	497-3910-ND	9.2V, LDO Voltage Regulator **NEW!**	TO-220	1.92	1.60	1.35
L4925	497-3911-ND	5V, LDO Voltage Reg. **NEW!**	Pentawatt	2.82	2.35	1.98
L4925PD	497-3912-5-ND	5V, LDO Voltage Reg. **NEW!**	20-Power SOIC	3.35	2.92	2.17
L4925PD013TRI	497-1152-1-ND	5V, LDO Voltage Regulator	20-Power SOIC	3.35	2.92	2.17
L4925PD013TRI	497-1152-2-ND	5V, LDO Voltage Regulator	20-Power SOIC		1041.60/600	
L4931ABD15-TR	497-4203-1-ND	1.5V, LDO Voltage Regulator **NEW!**	8-SOIC	1.26	1.11	.85
L4931ABD15-TR	497-4203-2-ND	1.5V, LDO Voltage Regulator **NEW!**	8-SOIC		1130.00/2,500	
L4931ABD25-TRI	497-1154-1-ND	2.5V, LDO Voltage Regulator	8-SOIC	1.50	1.30	1.00
L4931ABD25-TRI	497-1154-2-ND	2.5V, LDO Voltage Regulator	8-SOIC		1330.00/2,500	
L4931ABD33-TRI	497-1155-1-ND	3.3V, LDO Voltage Regulator	8-SOIC	1.50	1.30	1.00

(Continued)

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

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STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
L4931ABD33-TRI	497-1155-2-ND	3.3V, LDO Voltage Regulator	8-SOIC		1330.00/2,500	
L4931ABD50-TRI	497-1156-1-ND	5V, LDO Voltage Regulator	8-SOIC	1.50	1.30	1.00
L4931ABD50-TRI	497-1156-2-ND	5V, LDO Voltage Regulator	8-SOIC		1330.00/2,500	
L4931ABD120TRI	497-1153-1-ND	12V, LDO Voltage Regulator	8-SOIC	1.50	1.30	1.00
L4931ABD120TRI	497-1153-2-ND	12V, LDO Voltage Regulator	8-SOIC		1330.00/2,500	
L4931ABDT25TRI	497-1158-1-ND	2.5V, LDO Voltage Regulator	D-PAK	1.61	1.40	1.08
L4931ABDT25TRI	497-1158-2-ND	2.5V, LDO Voltage Regulator	D-PAK		1430.00/2,500	
L4931ABDT33-TRI	497-1159-1-ND	3.3V, LDO Voltage Regulator	D-PAK	1.61	1.40	1.08
L4931ABDT33-TRI	497-1159-2-ND	3.3V, LDO Voltage Regulator	D-PAK		1430.00/2,500	
L4931ABDT50-TRI	497-1160-1-ND	5V, LDO Voltage Regulator	D-PAK	1.61	1.40	1.08
L4931ABDT50-TRI	497-1160-2-ND	5V, LDO Voltage Regulator	D-PAK		1430.00/2,500	
L4931ABDT80-TRI	497-1161-1-ND	8V, LDO Voltage Regulator	D-PAK	1.61	1.40	1.08
L4931ABDT80-TRI	497-1161-2-ND	8V, LDO Voltage Regulator	D-PAK		1430.00/2,500	
L4931ABDT120R	497-1157-1-ND	12V, LDO Voltage Regulator	D-PAK	1.61	1.40	1.08
L4931ABDT120R	497-1157-2-ND	12V, LDO Voltage Regulator	D-PAK		1430.00/2,500	
L4931ABPT25TRI	497-1163-1-ND	2.5V, LDO Voltage Regulator	P-PAK	1.84	1.60	1.23
L4931ABPT25TRI	497-1163-2-ND	2.5V, LDO Voltage Regulator	P-PAK		1630.00/2,500	
L4931ABPT33-TRI	497-1164-1-ND	3.3V, LDO Voltage Regulator	P-PAK	1.84	1.60	1.23
L4931ABPT33-TRI	497-1164-2-ND	3.3V, LDO Voltage Regulator	P-PAK		1630.00/2,500	
L4931ABPT50TRI	497-1165-1-ND	5V, LDO Voltage Regulator	P-PAK	1.84	1.60	1.23
L4931ABPT50TRI	497-1165-2-ND	5V, LDO Voltage Regulator	P-PAK		1630.00/2,500	
L4931ABPT120R	497-1162-1-ND	12V, LDO Voltage Regulator	P-PAK	1.61	1.40	1.08
L4931ABPT120R	497-1162-2-ND	12V, LDO Voltage Regulator	P-PAK		1430.00/2,500	
L4931ABV25	497-1398-5-ND	2.5V, LDO Voltage Regulator	TO-220	1.24	1.08	.83
L4931ABV33	497-1399-5-ND	3.3V, LDO Voltage Regulator	TO-220	1.31	1.14	.88
L4931ABV50	497-1400-5-ND	5V, LDO Voltage Regulator	TO-220	1.31	1.14	.88
L4931ABZ25	497-1001-ND	2.5V, LDO Voltage Regulator	TO-92	1.46	1.27	.98
L4931ABZ120	497-1000-ND	12V, LDO Voltage Regulator	TO-92	1.46	1.27	.98
L4931CDT50-TR	497-4204-1-ND	5V, LDO Voltage Regulator ***NEW!***	D-PAK	1.31	1.14	.88
L4931CDT50-TR	497-4204-2-ND	5V, LDO Voltage Regulator ***NEW!***	D-PAK		1165.00/2,500	
L4931CV33	497-1401-5-ND	3.3V, LDO Voltage Regulator	TO-220	1.20	1.04	.80
L4931CV50	497-1402-5-ND	5V, LDO Voltage Regulator	TO-220	1.20	1.04	.80
L4931CZ33	497-1003-ND	3.3V, LDO Voltage Regulator	TO-92	1.24	1.08	.83
L4931CZ50	497-1004-ND	5V, LDO Voltage Regulator	TO-92	1.24	1.08	.83
L4931CZ120	497-1002-ND	12V, LDO Voltage Regulator	TO-92	1.39	1.21	.93
L4940D2M5-TR	497-4205-1-ND	5V, LDO 1.5A Regulator ***NEW!***	D2-PAK	1.80	1.50	1.26
L4940D2M5-TR	497-4205-2-ND	5V, LDO 1.5A Regulator ***NEW!***	D2-PAK		810.00/1,000	
L4940D2T5-TRI	497-1166-1-ND	5V, LDO 1.5A Regulator	D2-PAK	2.07	1.73	1.45
L4940D2T5-TRI	497-1166-2-ND	5V, LDO 1.5A Regulator	D2-PAK		932.00/1,000	
L4940D2T85-TRI	497-1167-1-ND	8.5V, LDO 1.5A Regulator	D2-PAK	2.10	1.75	1.47
L4940D2T85-TRI	497-1167-2-ND	8.5V, LDO 1.5A Regulator	D2-PAK		945.00/1,000	
L4940V5	497-1404-5-ND	5V, LDO 1.5A Regulator	TO-220	2.16	1.80	1.52
L4940V12	497-1403-5-ND	12V, LDO 1.5A Regulator	TO-220	2.16	1.80	1.52
L4941BDT-TRI	497-1168-1-ND	1A LDO Regulator	D-PAK	2.10	1.75	1.47
L4941BDT-TRI	497-1168-2-ND	1A LDO Regulator	D-PAK		2275.00/2,500	
L4945	497-3629-ND	5V Very Low Drop Volt. Regulator	TO-220	5.98	5.46	4.32
L4947	497-3918-5-ND	5V, 0.5A LDO Reg. w/Reset ***NEW!***	Pentawatt	3.46	3.01	2.24
L4947H	497-3830-ND	5V, 0.5A LDO Reg. w/Reset	Pentawatt	3.46	3.01	2.24
L4947PD	497-1405-5-ND	5V, 0.5A LDO Reg. w/Reset	20-Power SOIC	3.24	2.82	2.10
L4949E	497-3631-ND	Multifunction Very Low Drop Voltage Regulator	8-MiniDip	1.89	1.58	1.33
L4949ED013TR	497-3632-1-ND	Multifunction Very Low Drop Voltage Regulator	8-SOIC	1.89	1.58	1.33
L4949ED013TR	497-3632-2-ND	Multifunction Very Low Drop Voltage Regulator	8-SOIC		2047.50/2,500	
L4949EDMITTR	497-3919-1-ND	Multifunction Very Low Drop Voltage Regulator ***NEW!***	8-SOIC	1.50	1.25	1.05
L4949EDMITTR	497-3919-2-ND	Multifunction Very Low Drop Voltage Regulator ***NEW!***	8-SOIC		1625.00/2,500	
L4949EP013TR	497-3633-1-ND	Multifunction Very Low Drop Voltage Regulator	20-SOIC	1.89	1.58	1.33
L4949EP013TR	497-3633-2-ND	Multifunction Very Low Drop Voltage Regulator	20-SOIC		851.00/1,000	
L4981AD013TR	497-3635-1-ND	Power Factor Corrector	20-SOIC	5.40	4.70	3.50
L4981AD013TR	497-3635-2-ND	Power Factor Corrector	20-SOIC		2660.00/1,000	
L5970D013TR	497-3636-1-ND	Up to 1A Step Down Switching Reg.	8-SOIC	2.62	2.35	1.98
L5970D013TR	497-3636-2-ND	Up to 1A Step Down Switching Reg.	8-SOIC		3055.00/2,500	
L5972D013TR	497-3637-1-ND	2A Switch Step Down Switching Reg.	8-SOIC	2.94	2.45	2.06
L5972D013TR	497-3637-2-ND	2A Switch Step Down Switching Reg.	8-SOIC		3185.00/2,500	
L5973D013TR	497-3638-1-ND	2.5A Switch Step Down Switching Regulator	8-HSOP	3.05	2.66	1.98
L5973D013TR	497-3638-2-ND	2.5A Switch Step Down Switching Regulator	8-HSOP		3615.00/2,500	
L6207N	497-3645-ND	DMOS Dual Full Bridge Driver	24-Power Dip	10.90	10.09	7.63
L6385	497-3649-ND	High Volt. High/Low Side Driver	8-MiniDip	4.05	3.53	2.63
L6902D	497-3103-ND	Switching Regulator with Adj. Current Limit	8-SOIC	3.78	3.29	2.45
LD1084D2M-R	497-3409-1-ND	Adj., 5A LDO Positive Volt. Reg.	D2-PAK/A	2.73	2.28	1.92
LD1084D2M-R	497-3409-2-ND	Adj., 5A LDO Positive Volt. Reg.	D2-PAK/A		1229.00/1,000	
LD1084D2M33	497-4235-5-ND	3.3V, 5A LDO Positive Volt. Reg. ***NEW!***	D2-PAK/A	1.73	1.50	1.15
LD1084D2M33R	497-3410-1-ND	3.3V, 5A LDO Positive Volt. Reg.	D2-PAK/A	2.64	2.20	1.85
LD1084D2M33R	497-3410-2-ND	3.3V, 5A LDO Positive Volt. Reg.	D2-PAK/A		1188.00/1,000	
LD1084D2M50R	497-4236-1-ND	5V, 5A LDO Positive Volt. Reg. ***NEW!***	D2-PAK/A	1.73	1.50	1.15
LD1084D2M50R	497-4236-2-ND	5V, 5A LDO Positive Volt. Reg. ***NEW!***	D2-PAK/A		667.001,000	
LD1084D2T-R	497-3411-1-ND	Adj., 5A LDO Positive Volt. Reg.	D2-PAK	2.64	2.20	1.85
LD1084D2T-R	497-3411-2-ND	Adj., 5A LDO Positive Volt. Reg.	D2-PAK		1188.00/1,000	
LD1084V	497-3413-5-ND	Adj., 5A LDO Positive Volt. Reg.	TO-220	2.64	2.20	1.85
LD1084V18	497-3414-5-ND	1.8V, 5A LDO Positive Volt. Reg.	TO-220	2.64	2.20	1.85
LD1084V25	497-3415-5-ND	2.5V, 5A LDO Positive Volt. Reg.	TO-220	2.64	2.20	1.85
LD1084V33	497-3416-5-ND	3.3V, 5A LDO Positive Volt. Reg.	TO-220	2.64	2.20	1.85
LD1084V50	497-3417-5-ND	5V, 5A LDO Positive Volt. Reg.	TO-220	2.64	2.20	1.85
LD1085CDT-R	497-3418-1-ND	Adj., 3A LDO Positive Volt. Reg.	D-PAK	1.95	1.63	1.37
LD1085CDT-R	497-3418-2-ND	Adj., 3A LDO Positive Volt. Reg.	D-PAK		2112.50/2,500	
LD1085D2M-R	497-3419-1-ND	Adj., 3A LDO Positive Volt. Reg.	D2-PAK/A	1.95	1.63	1.37
LD1085D2M-R	497-3419-2-ND	Adj., 3A LDO Positive Volt. Reg.	D2-PAK/A		878.00/1,000	
LD1085D2M12R	497-3420-1-ND	12V, 3A LDO Positive Volt. Reg.	D2-PAK/A	1.95	1.63	1.37
LD1085D2M12R	497-3420-2-ND	12V, 3A LDO Positive Volt. Reg.	D2-PAK/A		878.00/1,000	
LD1085D2M18R	497-3421-1-ND	1.8V, 3A LDO Positive Volt. Reg.	D2-PAK/A	1.95	1.63	1.37
LD1085D2M18R	497-3421-2-ND	1.8V, 3A LDO Positive Volt. Reg.	D2-PAK/A		878.00/1,000	
LD1085D2M25R	497-3422-1-ND	2.5V, 3A LDO Positive Volt. Reg.	D2-PAK/A	1.95	1.63	1.37

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10
LD1085D2M25R	497-3422-2-ND	2.5V, 3A LDO Positive Volt. Reg.	D2-PAK/A		878.00/1,0
LD1085D2M33R	497-3423-1-ND	3.3V, 3A LDO Positive Volt. Reg.	D2-PAK/A	1.95	1.63
LD1085D2M33R	497-3423-2-ND	3.3V, 3A LDO Positive Volt. Reg.	D2-PAK/A		878.00/1,0
LD1085D2T-R	497-3424-1-ND	Adj., 3A LDO Positive Volt. Reg.	D2-PAK	1.95	1.63
LD1085D2T-R	497-3424-2-ND	Adj., 3A LDO Positive Volt. Reg.	D2-PAK		878.00/1,0
LD1085D2T15R	497-3426-1-ND	1.5V, 3A LDO Positive Volt. Reg.	D2-PAK	1.95	1.63
LD1085D2T15R	497-3426-2-ND	1.5V, 3A LDO Positive Volt. Reg.	D2-PAK		878.00/1,0
LD1085D2T18R	497-3427-1-ND	1.8V, 3A LDO Positive Volt. Reg.	D2-PAK	1.95	1.63
LD1085D2T18R	497-3427-2-ND	1.8V, 3A LDO Positive Volt. Reg.	D2-PAK		878.00/1,0
LD1085D2T25R	497-1221-1-ND	2.5V, 3A LDO Positive Volt. Reg.	D2-PAK	1.73	1.50
LD1085D2T25R	497-1221-2-ND	2.5V, 3A LDO Positive Volt. Reg.	D2-PAK		667.00/1,0
LD1085D2T33R	497-1222-1-ND	3.3V, 3A LDO Positive Volt. Reg.	D2-PAK	1.50	1.25
LD1085D2T33R	497-1222-2-ND	3.3V, 3A LDO Positive Volt. Reg.	D2-PAK		675.00/1,0
LD1085DT-R	497-3428-1-ND	Adj., 3A LDO Positive Volt. Reg.	D-PAK	1.95	1.63
LD1085DT-R	497-3428-2-ND	Adj., 3A LDO Positive Volt. Reg.	D-PAK		2112.50/2,5
LD1085DT15R	497-3429-1-ND	1.5V, 3A LDO Positive Volt. Reg.	D-PAK	1.95	1.63
LD1085DT15R	497-3429-2-ND	1.5V, 3A LDO Positive Volt. Reg.	D-PAK		2112.50/2,5
LD1085DT18R	497-3430-1-ND	1.8V, 3A LDO Positive Volt. Reg.	D-PAK	1.77	1.48
LD1085DT18R	497-3430-2-ND	1.8V, 3A LDO Positive Volt. Reg.	D-PAK		1917.50/2,5
LD1085DT25R	497-3431-1-ND	2.5V, 3A LDO Positive Volt. Reg.	D-PAK	1.77	1.48
LD1085DT25R	497-3431-2-ND	2.5V, 3A LDO Positive Volt. Reg.	D-PAK		1917.50/2,5
LD1085V	497-1482-5-ND	Adj., 3A LDO Positive Volt. Reg.	TO-220	1.50	1.25
LD1085V12	497-3432-5-ND	12V, 3A LDO Positive Volt. Reg.	TO-220	1.95	1.63
LD1085V18	497-3433-5-ND	1.8V, 3A LDO Positive Volt. Reg.	TO-220	1.95	1.63
LD1085V25	497-3434-5-ND	2.5V, 3A LDO Positive Volt. Reg.	TO-220	1.95	1.63
LD1085V33	497-3435-5-ND	3.3V, 3A LDO Positive Volt. Reg.	TO-220	1.95	1.63
LD1085V50	497-3436-5-ND	5V, 3A LDO Positive Volt. Reg.	TO-220	1.95	1.63
LD1086D2MTR	497-3439-1-ND	Adj., 1.5A LDO Positive Volt. Reg.	D2-PAK/A	1.80	1.56
LD1086D2MTR	497-3439-2-ND	Adj., 1.5A LDO Positive Volt. Reg.	D2-PAK/A		696.00/1,0
LD1086D2M18TR	497-3437-1-ND	1.8V, 1.5A LDO Positive Volt. Reg.	D2-PAK/A	1.80	1.56
LD1086D2M18TR	497-3437-2-ND	1.8V, 1.5A LDO Positive Volt. Reg.	D2-PAK/A		696.00/1,0
LD1086D2M33TRI	497-1223-1-ND	3.3V, 1.5A LDO Positive Volt. Reg.	D2-PAK/A	1.80	1.56
LD1086D2M33TRI	497-1223-2-ND	3.3V, 1.5A LDO Positive Volt. Reg.	D2-PAK/A		696.00/1,0
LD1086D2T12TR	497-3440-1-ND	12V, 1.5A LDO Positive Volt. Reg.	D2-PAK	1.95	1.63
LD1086D2T12TR	497-3440-2-ND	12V, 1.5A LDO Positive Volt. Reg.	D2-PAK		878.00/1,0
LD1086D2T15R	497-3441-1-ND	1.5V, 1.5A LDO Positive Volt. Reg.	D2-PAK	1.80	1.56
LD1086D2T15R	497-3441-2-ND	1.5V, 1.5A LDO Positive Volt. Reg.	D2-PAK		696.00/1,0
LD1086D2T18TR	497-3442-1-ND	1.8V, 1.5A LDO Positive Volt. Reg.	D2-PAK	1.80	1.56
LD1086D2T18TR	497-3442-2-ND	1.8V, 1.5A LDO Positive Volt. Reg.	D2-PAK		696.00/1,0
LD1086D2T25TR	497-3443-1-ND	2.5V, 1.5A LDO Positive Volt. Reg.	D2-PAK	1.80	1.56
LD1086D2T25TR	497-3443-2-ND	2.5V, 1.5A LDO Positive Volt. Reg.	D2-PAK		696.00/1,0
LD1086D2T33TRI	497-1224-1-ND	3.3V, 1.5A LDO Positive Volt. Reg.	D2-PAK	1.46	1.27
LD1086D2T33TRI	497-1224-2-ND	3.3V, 1.5A LDO Positive Volt. Reg.	D2-PAK		566.00/1,0
LD1086D2TTR	497-3566-1-ND	Adj., 1.5A LDO Positive Volt. Reg.	D2-PAK	1.80	1.56
LD1086D2TTR	497-3566-2-ND	Adj., 1.5A LDO Positive Volt. Reg.	D2-PAK		696.00/1,0
LD1086D2T50TRI	497-1225-1-ND	5V, 1.5A LDO Positive Volt. Reg.	D2-PAK	1.47	1.28
LD1086D2T50TRI	497-1225-2-ND	5V, 1.5A LDO Positive Volt. Reg.	D2-PAK		567.00/1,0
LD1086DT18TR	497-3444-1-ND	1.8V, 1.5A LDO Positive Volt. Reg.	D-PAK	1.80	1.56
LD1086DT18TR	497-3444-2-ND	1.8V, 1.5A LDO Positive Volt. Reg.	D-PAK		1595.00/2,5
LD1086DT25TR	497-3445-1-ND	2.5V, 1.5A LDO Positive Volt. Reg.	D-PAK	1.58	1.37
LD1086DT25TR	497-3445-2-ND	2.5V, 1.5A LDO Positive Volt. Reg.	D-PAK		1397.50/2,5
LD1086DT33TR	497-3446-1-ND	3.3V, 1.5A LDO Positive Volt. Reg.	D-PAK	1.80	1.56
LD1086DT33TR	497-3446-2-ND	3.3V, 1.5A LDO Positive Volt. Reg.	D-PAK		1595.00/2,5
LD1086DT50TR	497-4239-1-ND	5V, 1.5A LDO Positive Volt. Reg. ***NEW!***	D-PAK	1.80	1.56
LD1086DT50TR	497-4239-2-ND	5V, 1.5A LDO Positive Volt. Reg. ***NEW!***	D-PAK		1595.00/2,5
LD1086V	497-3447-5-ND	Adj., 1.5A LDO Positive Volt. Reg.	TO-220	1.80	1.56
LD1086V12	497-3448-5-ND	12V, 1.5A LDO Positive Volt. Reg.	TO-220	1.80	1.56
LD1086V18	497-3449-5-ND	1.8V, 1.5A LDO Positive Volt. Reg.	TO-220	1.80	1.56
LD1086V33	497-3450-5-ND	3.3V, 1.5A LDO Positive Volt. Reg.	TO-220	1.80	1.56
LD1086V50	497-3451-5-ND	5V, 1.5A LDO Positive Volt. Reg.	TO-220	1.80	1.56
LD1117ADT-TR	497-3452-1-ND	Adj., 1A LDO Positive Volt. Reg.	D-PAK	1.50	1.30
LD1117ADT-TR	497-3452-2-ND	Adj., 1A LDO Positive Volt. Reg.	D-PAK		1330.00/2,5
LD1117ADT18TR	497-3453-1-ND	1.8V, 1A LDO Positive Volt. Reg.	D-PAK	1.50	1.30
LD1117ADT18TR	497-3453-2-ND	1.8V, 1A LDO Positive Volt. Reg.	D-PAK		1330.00/2,5
LD1117ADT25TR	497-3454-1-ND	2.5V, 1A LDO Positive Volt. Reg.	D-PAK	1.50	1.30
LD1117ADT25TR	497-3454-2-ND	2.5V, 1A LDO Positive Volt. Reg.	D-PAK		1330.00/2,5
LD1117ADT33TR	497-3455-1-ND	3.3V, 1A LDO Positive Volt. Reg.	D-PAK	1.56	1.30
LD1117ADT33TR	497-3455-2-ND	3.3V, 1A LDO Positive Volt. Reg.	D-PAK		1690.00/2,5
LD1117AS18TRI	497-1226-1-ND	1.8V, LDO Positive Volt. Reg.	SOT-223	1.04	.90
LD1117AS18TRI	497-1226-2-ND	1.8V, LDO Positive Volt. Reg.	SOT-223		917.50/2,5
LD1117AS25TRI	497-1227-1-ND	2.5V, LDO Positive Volt. Reg.	SOT-223	1.04	.90
LD1117AS25TRI	497-1227-2-ND	2.5V, LDO Positive Volt. Reg.	SOT-223		917.50/2,5
LD1117AS33TRI	497-1228-1-ND	3.3V, LDO Positive Volt. Reg.	SOT-223	1.65	1.38
LD1117AS33TRI	497-1228-2-ND	3.3V, LDO Positive Volt. Reg.	SOT-223		1787.50/2,5
LD1117ASTR	497-1229-1-ND	1.25V to 15V LDO Positive Volt. Reg.	SOT-223	1.04	.90
LD1117ASTR	497-1229-2-ND	1.25V to 15V LDO Positive Volt. Reg.	SOT-223		917.50/2,5
LD1117AV	497-3456-5-ND	Adj., 1A LDO Positive Volt. Reg.	TO-220	1.05	.91
LD1117AV18	497-1483-5-ND	1.8V, LDO Positive Volt. Reg.	TO-220	1.04	.90
LD1117AV25	497-1484-5-ND	2.5V, LDO Positive Volt. Reg.	TO-220	1.04	.90
LD1117AV33	497-1485-5-ND	3.3V, LDO Positive Volt. Reg.	TO-220	1.04	.90
LD1117D18	497-1486-5-ND	1.8V, LDO Positive Volt. Reg.	8-SOIC	.77	.56
LD1117D25	497-1487-5-ND	2.5V, LDO Positive Volt. Reg.	8-SOIC	.77	.56
LD1117D33	497-1488-5-ND	3.3V, LDO Positive Volt. Reg.	8-SOIC	.77	.56
LD1117D33CTR	497-1230-1-ND	3.3V, LDO Positive Volt. Reg.	8-SOIC	.77	.56
LD1117D33CTR	497-1230-2-ND	3.3V, LDO Positive Volt. Reg.	8-SOIC		605.00/2,5
LD1117D50	497-1489-5-ND	5V, LDO Positive Volt. Reg.	8-SOIC	.77	.56
LD1117DT12TRI	497-1231-1-ND	1.2V, LDO Positive Volt. Reg.	D-PAK	1.16	1.01
LD1117DT12TRI	497-1231-2-ND	1.2V, LDO Positive Volt. Reg.	D-PAK		1030.00/2,5
LD1117DT18TRI	497-1232-1-ND	1.8V, LDO Positive Volt. Reg.	D-PAK	.77	.56
LD1117DT18TRI	497-1232-2-ND	1.8V, LDO Positive Volt. Reg.	D-PAK		605.00/2,5
LD1117DT25CTR	497-1233-1-ND	2.5V, LDO Positive Volt. Reg.	D-PAK	.77	.56
LD1117DT25CTR	497-1233-2-ND	2.5V, LDO Positive Volt. Reg.	D-PAK		605.00/2,5
LD1117DT28TRI	497-1234-1-ND	2.85V, LDO Positive Volt. Reg.	D-PAK	.77	.56
LD1117DT28TRI	497-1234-2-ND	2.85V, LDO Positive Volt. Reg.	D-PAK		605.00/2,5
LD1117DT30	497-1490-5-ND	3V, LDO Positive Volt. Reg.	D-PAK	.77	.56
LD1117DT33	497-2961-5-ND	3.3V, LDO Positive Volt. Reg.	D-PAK	1.56	1.30
LD1117DT33CTR	497-1235-1-ND	3.3V, LDO Positive Volt. Reg.	D-PAK	.77	.56
LD1117DT33CTR	497-1235-2-ND	3.3V, LDO Positive Volt. Reg.	D-PAK		605.00/2,5
LD1117DT33TRI	497-1236-1-ND	3.3V, LDO Positive Volt. Reg.	D-PAK	.77	.56
LD1117DT33TRI	497-1236-2-ND	3.3V, LDO Positive Volt. Reg.	D-PAK		605.00/2,5
LD1117DT50CTR	497-1237-1-ND	5V, LDO Positive Volt. Reg.	D-PAK	.77	.56
LD1117DT50CTR	497-1237-2-ND	5V, LDO Positive Volt. Reg.	D-PAK		605.00/2,5
LD1117DT50TRI	497-1238-1-ND	5V, LDO Positive Volt. Reg.	D-PAK	.77	.56

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STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
1117DT50TRI	497-1238-2-ND	5V, LDO Positive Volt. Reg.	D-PAK			605.00/2,500
1117DTTR	497-1239-1-ND	1.25V to 15V, LDO Positive Volt. Reg.	D-PAK	.77	.56	.43
1117DTTR	497-1239-2-ND	1.25V to 15V, LDO Positive Volt. Reg.	D-PAK			605.00/2,500
1117S12TR	497-4240-1-ND	1.2V, LDO Positive Volt. Reg. **NEW!**	SOT-223	1.24	1.08	.83
1117S12TR	497-4240-2-ND	1.2V, LDO Positive Volt. Reg. **NEW!**	SOT-223			1097.50/2,500
1117S25CTR	497-1240-1-ND	2.5V, LDO Positive Volt. Reg.	SOT-223	.77	.56	.43
1117S25CTR	497-1240-2-ND	2.5V, LDO Positive Volt. Reg.	SOT-223			605.00/2,500
1117S33CTR	497-1241-1-ND	3.3V, LDO Positive Volt. Reg.	SOT-223	.77	.56	.43
1117S33CTR	497-1241-2-ND	3.3V, LDO Positive Volt. Reg.	SOT-223			605.00/2,500
1117S33TRI	497-1242-1-ND	3.3V, LDO Positive Volt. Reg.	SOT-223	.77	.56	.43
1117S33TRI	497-1242-2-ND	3.3V, LDO Positive Volt. Reg.	SOT-223			605.00/2,500
1117S50CTR	497-1243-1-ND	5V, LDO Positive Volt. Reg.	SOT-223	.77	.56	.43
1117S50CTR	497-1243-2-ND	5V, LDO Positive Volt. Reg.	SOT-223			605.00/2,500
1117SC-R	497-4241-1-ND	Adj., LDO Positive Volt. Reg. **NEW!**	SOT-223	.99	.80	.60
1117SC-R	497-4241-2-ND	Adj., LDO Positive Volt. Reg. **NEW!**	SOT-223			785.00/2,500
1117STR	497-1244-1-ND	1.25V to 15V, LDO Pos. Volt. Reg.	SOT-223	.77	.56	.43
1117STR	497-1244-2-ND	1.25V to 15V, LDO Pos. Volt. Reg.	SOT-223			605.00/2,500
1117V18	497-3457-5-ND	1.8V, LDO Positive Volt. Reg.	TO-220	1.65	1.43	1.10
1117V25	497-3458-5-ND	2.5V, LDO Positive Volt. Reg.	TO-220	1.65	1.43	1.10
1117V25C	497-3459-5-ND	2.5V, LDO Positive Volt. Reg.	TO-220	1.50	1.30	1.00
1117V33	497-1491-5-ND	3.3V, LDO Positive Volt. Reg.	TO-220	.77	.56	.43
1117V33C	497-1492-5-ND	3.3V, LDO Positive Volt. Reg.	TO-220	.77	.56	.43
1585CD2M-R	497-3460-1-ND	Adj., 5A LDO Positive Volt. Reg.	D2-PAK/A	1.95	1.63	1.37
1585CD2M-R	497-3460-2-ND	Adj., 5A LDO Positive Volt. Reg.	D2-PAK/A			878.00/1,000
1585CD2M18R	497-3462-1-ND	1.8V, 5A LDO Positive Volt. Reg.	D2-PAK/A	1.95	1.63	1.37
1585CD2M18R	497-3462-2-ND	1.8V, 5A LDO Positive Volt. Reg.	D2-PAK/A			878.00/1,000
1585CD2M33R	497-3464-1-ND	3.3V, 5A LDO Positive Volt. Reg.	D2-PAK/A	1.95	1.63	1.37
1585CD2M33R	497-3464-2-ND	3.3V, 5A LDO Positive Volt. Reg.	D2-PAK/A			878.00/1,000
1585CD2T18R	497-3465-1-ND	1.8V, 5A LDO Positive Volt. Reg.	D2-PAK	1.95	1.63	1.37
1585CD2T18R	497-3465-2-ND	1.8V, 5A LDO Positive Volt. Reg.	D2-PAK			878.00/1,000
1585CV	497-3466-5-ND	Adj., 5A LDO Positive Volt. Reg.	TO-220	1.80	1.50	1.26
1585CV33	497-3467-5-ND	3.3V, 5A LDO Pos. Volt. Reg.	TO-220	1.80	1.50	1.26
2979M33TR	497-1512-1-ND	3.3V, LDO Voltage Regulator	SOT-23-5L	1.08	.87	.65
2979M33TR	497-1512-2-ND	3.3V, LDO Voltage Regulator	SOT-23-5L			1026.00/3,000
2979M50TR	497-1513-1-ND	5V, LDO Voltage Regulator	SOT-23-5L	1.08	.87	.65
2979M50TR	497-1513-2-ND	5V, LDO Voltage Regulator	SOT-23-5L			1026.00/3,000
2980ABM25TR	497-1515-1-ND	2.5V, LDO Voltage Regulator	SOT-23-5L	1.50	1.25	1.05
2980ABM25TR	497-1515-2-ND	2.5V, LDO Voltage Regulator	SOT-23-5L			1950.00/3,000
2980ABM30TR	497-1516-1-ND	3V, LDO Voltage Regulator	SOT-23-5L	1.43	1.24	.95
2980ABM30TR	497-1516-2-ND	3V, LDO Voltage Regulator	SOT-23-5L			1515.00/3,000
2980ABM33TR	497-1517-1-ND	3.3V, LDO Voltage Regulator	SOT-23-5L	1.43	1.24	.95
2980ABM33TR	497-1517-2-ND	3.3V, LDO Voltage Regulator	SOT-23-5L			1515.00/3,000
2980ABM50TR	497-1518-1-ND	5V, LDO Voltage Regulator	SOT-23-5L	1.56	1.30	1.10
2980ABM50TR	497-1518-2-ND	5V, LDO Voltage Regulator	SOT-23-5L			2028.00/3,000
2981ABM18TR	497-1519-1-ND	1.8V, LDO Voltage Regulator	SOT-23-5L	1.58	1.37	1.05
2981ABM18TR	497-1519-2-ND	1.8V, LDO Voltage Regulator	SOT-23-5L			1677.00/3,000
2981ABM25TR	497-1520-1-ND	2.5V, LDO Voltage Regulator	SOT-23-5L	1.50	1.25	1.05
2981ABM25TR	497-1520-2-ND	2.5V, LDO Voltage Regulator	SOT-23-5L			1950.00/3,000
2981ABM33TR	497-1521-1-ND	3.3V, LDO Voltage Regulator	SOT-23-5L	1.58	1.37	1.05
2981ABM33TR	497-1521-2-ND	3.3V, LDO Voltage Regulator	SOT-23-5L			1677.00/3,000
2981ABM50TR	497-1522-1-ND	5V, LDO Voltage Regulator	SOT-23-5L	1.68	1.40	1.18
2981ABM50TR	497-1522-2-ND	5V, LDO Voltage Regulator	SOT-23-5L			2184.00/3,000
2981ABU33TR	497-1524-1-ND	3.3V, LDO Voltage Regulator	SOT-89	1.50	1.25	1.05
2981ABU33TR	497-1524-2-ND	3.3V, LDO Voltage Regulator	SOT-89			1625.00/2,500
2981ABU50TR	497-1525-1-ND	5V, LDO Voltage Regulator	SOT-89	1.50	1.25	1.05
2981ABU50TR	497-1525-2-ND	5V, LDO Voltage Regulator	SOT-89			1625.00/2,500
2982AM18R	497-4253-1-ND	1.8V, LDO Voltage Reg. **NEW!**	SOT-23-5L	.98	.85	.65
2982AM18R	497-4253-2-ND	1.8V, LDO Voltage Reg. **NEW!**	SOT-23-5L			1038.00/3,000
3985J18R	497-1526-1-ND	1.8V, LDO BiCMOS Volt. Regulator	Flip-Chip	1.46	1.27	.98
3985J18R	497-1526-2-ND	1.8V, LDO BiCMOS Volt. Regulator	Flip-Chip			2076.00/4,000
3985J33R	497-1527-1-ND	3.3V, LDO BiCMOS Volt. Regulator	Flip-Chip	1.46	1.27	.98
3985J33R	497-1527-2-ND	3.3V, LDO BiCMOS Volt. Regulator	Flip-Chip			2076.00/4,000
3985M25R	497-4254-1-ND	2.5V, LDO BiCMOS Volt. Regulator **NEW!**	SOT-23-5L	.95	.76	.57
3985M25R	497-4254-2-ND	2.5V, LDO BiCMOS Volt. Regulator **NEW!**	SOT-23-5L			897.00/3,000
29080DT25R	497-4242-1-ND	2.5V, 800mA LDO Regulator **NEW!**	D-PAK	1.43	1.24	.95
29080DT25R	497-4242-2-ND	2.5V, 800mA LDO Regulator **NEW!**	D-PAK			1262.50/2,500
29080DT33R	497-4243-1-ND	3.3V, 800mA LDO Regulator **NEW!**	D-PAK	1.43	1.24	.95
29080DT33R	497-4243-2-ND	3.3V, 800mA LDO Regulator **NEW!**	D-PAK			1262.50/2,500
29080DT90R	497-4244-1-ND	9V, 800mA LDO Regulator **NEW!**	D-PAK	1.84	1.60	1.23
29080DT90R	497-4244-2-ND	9V, 800mA LDO Regulator **NEW!**	D-PAK			1630.00/2,500
29080PT15R	497-4245-1-ND	1.5V, 800mA LDO Regulator **NEW!**	P-PAK	1.84	1.60	1.23
29080PT15R	497-4245-2-ND	1.5V, 800mA LDO Regulator **NEW!**	P-PAK			1630.00/2,500
29080PT33R	497-4246-1-ND	3.3V, 800mA LDO Regulator **NEW!**	P-PAK	1.43	1.24	.95
29080PT33R	497-4246-2-ND	3.3V, 800mA LDO Regulator **NEW!**	P-PAK			1262.50/2,500
29080PTR	497-4247-1-ND	Adj., 800mA LDO Regulator **NEW!**	P-PAK	1.69	1.47	1.13
29080PTR	497-4247-2-ND	Adj., 800mA LDO Regulator **NEW!**	P-PAK			1497.50/2,500
29150DT15R	497-1493-1-ND	1.5V, 1.5A LDO Volt. Regulator	D-PAK	2.10	1.75	1.47
29150DT15R	497-1493-2-ND	1.5V, 1.5A LDO Volt. Regulator	D-PAK			2275.00/2,500
29150DT18R	497-1494-1-ND	1.8V, 1.5A LDO Volt. Regulator	D-PAK	2.10	1.75	1.47
29150DT18R	497-1494-2-ND	1.8V, 1.5A LDO Volt. Regulator	D-PAK			2275.00/2,500
29150DT25R	497-1495-1-ND	2.5V, 1.5A LDO Volt. Regulator	D-PAK	2.10	1.75	1.47
29150DT25R	497-1495-2-ND	2.5V, 1.5A LDO Volt. Regulator	D-PAK			2275.00/2,500
29150DT33R	497-1496-1-ND	3.3V, 1.5A LDO Volt. Regulator	D-PAK	2.10	1.75	1.47
29150DT33R	497-1496-2-ND	3.3V, 1.5A LDO Volt. Regulator	D-PAK			2275.00/2,500
29150DT50R	497-3468-1-ND	5V, 1.5A LDO Volt. Regulator	D-PAK	1.65	1.38	1.16
29150DT50R	497-3468-2-ND	5V, 1.5A LDO Volt. Regulator	D-PAK			1787.50/2,500
29150PT25R	497-1497-1-ND	2.5V, 1.5A LDO Volt. Regulator	P-PAK	2.31	1.93	1.62
29150PT25R	497-1497-2-ND	2.5V, 1.5A LDO Volt. Regulator	P-PAK			2502.50/2,500
29150PT33R	497-3469-1-ND	3.3V, 1.5A LDO Volt. Regulator	P-PAK	1.24	1.08	.83
29150PT33R	497-3469-2-ND	3.3V, 1.5A LDO Volt. Regulator	P-PAK			1097.50/2,500
29150PT50R	497-4249-1-ND	5V, 1.5A LDO Volt. Regulator **NEW!**	P-PAK	1.69	1.47	1.13
29150PT50R	497-4249-2-ND	5V, 1.5A LDO Volt. Regulator **NEW!**	P-PAK			1497.50/2,500
29150PTR	497-4250-1-ND	Adj., 1.5A LDO Volt. Regulator **NEW!**	P-PAK	1.73	1.50	1.15
29150PTR	497-4250-2-ND	Adj., 1.5A LDO Volt. Regulator **NEW!**	P-PAK			1530.00/2,500
29150V25	497-3470-5-ND	2.5V, 1.5A LDO Volt. Regulator	TO-220	1.65	1.38	1.16
29150V80	497-1498-5-ND	8V, 1.5A LDO Volt. Regulator	TO-220	1.80	1.50	1.26
29300D2M15R	497-1499-1-ND	1.5V, 3A LDO Volt. Regulator	D2-PAK/A	2.79	2.33	1.96
29300D2M15R	497-1499-2-ND	1.5V, 3A LDO Volt. Regulator	D2-PAK/A			1256.00/1,000
29300D2M18R	497-1500-1-ND	1.8V, 3A LDO Volt. Regulator	D2-PAK/A	2.79	2.33	1.96
29300D2M18R	497-1500-2-ND	1.8V, 3A LDO Volt. Regulator	D2-PAK/A			1256.00/1,000
29300D2M25R	497-1501-1-ND	2.5V, 3A LDO Volt. Regulator	D2-PAK/A	2.55	2.13	1.79
29300D2M25R	497-1501-2-ND	2.5V, 3A LDO Volt. Regulator	D2-PAK/A			1148.00/1,000
29300D2M33R	497-1502-1-ND	3.3V, 3A LDO Volt. Regulator	D2-PAK/A	2.79	2.33	1.96
29300D2M33R	497-1502-2-ND	3.3V, 3A LDO Volt. Regulator	D2-PAK/A			1256.00/1,000

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
LD29300D2M50R	497-3471-1-ND	5V, 3A LDO Volt. Regulator	D2-PAK/A	2.79	2.33	1.96
LD29300D2M50R	497-3471-2-ND	5V, 3A LDO Volt. Regulator	D2-PAK/A			1256.00/1,000
LD29300D2T15R	497-1503-1-ND	1.5V, 3A LDO Volt. Regulator	D2-PAK	2.79	2.33	1.96
LD29300D2T15R	497-1503-2-ND	1.5V, 3A LDO Volt. Regulator	D2-PAK			1256.00/1,000
LD29300D2T18R	497-1504-2-ND	1.8V, 3A LDO Volt. Regulator	D2-PAK			1256.00/1,000
LD29300D2T18R	497-1504-1-ND	1.8V, 3A LDO Volt. Regulator	D2-PAK	2.79	2.33	1.96
LD29300D2T25R	497-1505-1-ND	2.5V, 3A LDO Volt. Regulator	D2-PAK	2.55	2.13	1.79
LD29300D2T25R	497-1505-2-ND	2.5V, 3A LDO Volt. Regulator	D2-PAK			1148.00/1,000
LD29300D2T33R	497-1506-1-ND	3.3V, 3A LDO Volt. Regulator	D2-PAK	2.79	2.33	1.96
LD29300D2T33R	497-1506-2-ND	3.3V, 3A LDO Volt. Regulator	D2-PAK			1256.00/1,000
LD29300D2T80	497-4251-5-ND	8V, 3A LDO Volt. Regulator **NEW!**	D2-PAK	1.80	1.56	1.20
LD29300P2M50R	497-3476-1-ND	5V, 3A LDO Volt. Regulator	P2-PAK/A	2.28	1.90	1.60
LD29300P2M50R	497-3476-2-ND	5V, 3A LDO Volt. Regulator	P2-PAK/A			1026.00/1,000
LD29300V15	497-1507-5-ND	1.5V, 3A LDO Voltage Regulator	TO-220	2.55	2.13	1.79
LD29300V18	497-1508-5-ND	1.8V, 3A LDO Voltage Regulator	TO-220	2.55	2.13	1.79
LD29300V25	497-1509-5-ND	2.5V, 3A LDO Voltage Regulator	TO-220	2.55	2.13	1.79
LD29300V33	497-1510-5-ND	3.3V, 3A LDO Voltage Regulator	TO-220	2.55	2.13	1.79
LD29300V50	497-4252-5-ND	5V, 3A LDO Voltage Regulator **NEW!**	TO-220	2.55	2.13	1.79
LD29300V80	497-1511-5-ND	8V, 3A LDO Voltage Regulator	TO-220	2.55	2.13	1.79
LD2980CM18TR	497-3477-1-ND	1.8V, 50mA LDO Volt. Regulator	SOT-23-5L	1.46	1.27	.98
LD2980CM18TR	497-3477-2-ND	1.8V, 50mA LDO Volt. Regulator	SOT-23-5L			1557.00/3,000
LD2980CM25TR	497-3478-1-ND	2.5V, 50mA LDO Volt. Regulator	SOT-23-5L	1.31	1.14	.88
LD2980CM25TR	497-3478-2-ND	2.5V, 50mA LDO Volt. Regulator	SOT-23-5L			1398.00/3,000
LD2980CM33TR	497-3479-1-ND	3.3V, 50mA LDO Volt. Regulator	SOT-23-5L	1.28	1.11	.85
LD2980CM33TR	497-3479-2-ND	3.3V, 50mA LDO Volt. Regulator	SOT-23-5L			1356.00/3,000
LD2980CU18TR	497-3480-1-ND	1.8V, 50mA LDO Volt. Regulator	SOT-89	1.73	1.50	1.15
LD2980CU18TR	497-3480-2-ND	1.8V, 50mA LDO Volt. Regulator	SOT-89			1530.00/2,500
LD2980CU50TR	497-3481-1-ND	5V, 50mA LDO Volt. Regulator	SOT-89	1.73	1.50	1.15
LD2980CU50TR	497-3481-2-ND	5V, 50mA LDO Volt. Regulator	SOT-89			1530.00/2,500
LD2981CM18TR	497-3482-1-ND	1.8V, 100mA LDO Volt. Regulator	SOT-23-5L	1.43	1.24	.95
LD2981CM18TR	497-3482-2-ND	1.8V, 100mA LDO Volt. Regulator	SOT-23-5L			1515.00/3,000
LD2981CU33TR	497-3483-1-ND	3.3V, 100mA LDO Volt. Regulator	SOT-89	1.31	1.14	.88
LD2981CU33TR	497-3483-2-ND	3.3V, 100mA LDO Volt. Regulator	SOT-89			1165.00/2,500
LD2981CU50TR	497-3484-1-ND	5V, 100mA LDO Volt. Regulator	SOT-89	1.31	1.14	.88
LD2981CU50TR	497-3484-2-ND	5V, 100mA LDO Volt. Regulator	SOT-89			1165.00/2,500
LD2982AM15R	497-3485-1-ND	1.5V, 50mA LDO Volt. Regulator	SOT-23-5L	1.61	1.40	1.08
LD2982AM15R	497-3485-2-ND	1.5V, 50mA LDO Volt. Regulator	SOT-23-5L			1716.00/3,000
LD2982AM25R	497-3486-1-ND	2.5V, 50mA LDO Volt. Regulator	SOT-23-5L	1.61	1.40	1.08
LD2982AM25R	497-3486-2-ND	2.5V, 50mA LDO Volt. Regulator	SOT-23-5L			1716.00/3,000
LD2982AM33R	497-3487-1-ND	3.3V, 50mA LDO Volt. Regulator	SOT-23-5L	1.05	.91	.70
LD2982AM33R	497-3487-2-ND	3.3V, 50mA LDO Volt. Regulator	SOT-23-5L			1116.00/3,000
LD2982AM50R	497-3488-1-ND	5V, 50mA LDO Volt. Regulator	SOT-23-5L	1.58	1.37	1.05
LD2982AM50R	497-3488-2-ND	5V, 50mA LDO Volt. Regulator	SOT-23-5L			1677.00/3,000
LD2982BM33R	497-3489-1-ND	3.3V, 50mA LDO Volt. Regulator	SOT-23-5L	1.61	1.40	1.08
LD2982BM33R	497-3489-2-ND	3.3V, 50mA LDO Volt. Regulator	SOT-23-5L			1716.00/3,000
LD2982BM50R	497-3490-1-ND	5V, 50mA LDO Volt. Regulator	SOT-23-5L	1.58	1.37	1.05
LD2982BM50R	497-3490-2-ND	5V, 50mA LDO Volt. Regulator	SOT-23-5L			1677.00/3,000
LD2985AM15R	497-3491-1-ND	1.5V, 150mA LDO Volt. Regulator	SOT-23-5L	1.69	1.47	1.13
LD2985AM15R	497-3491-2-ND	1.5V, 150mA LDO Volt. Regulator	SOT-23-5L			1797.00/3,000
LD2985AM18R	497-3492-1-ND	1.8V, 150mA LDO Volt. Regulator	SOT-23-5L	1.69	1.47	1.13
LD2985AM18R	497-3492-2-ND	1.8V, 150mA LDO Volt. Regulator	SOT-23-5L			1797.00/3,000
LD2985AM25R	497-3493-1-ND	2.5V, 150mA LDO Volt. Regulator	SOT-23-5L	1.69	1.47	1.13
LD2985AM25R	497-3493-2-ND	2.5V, 150mA LDO Volt. Regulator	SOT-23-5L			1797.00/3,000
LD2985AM33R	497-3494-1-ND	3.3V, 150mA LDO Volt. Regulator	SOT-23-5L	1.69	1.47	1.13
LD2985AM33R	497-3494-2-ND	3.3V, 150mA LDO Volt. Regulator	SOT-23-5L			1797.00/3,000
LD2985AM50R	497-3495-1-ND	5V, 150mA LDO Volt. Regulator	SOT-23-5L	1.69	1.47	1.13
LD2985AM50R	497-3495-2-ND	5V, 150mA LDO Volt. Regulator	SOT-23-5L			1797.00/3,000
LD2985BM15R	497-3496-1-ND	1.5V, 150mA LDO Volt. Regulator	SOT-23-5L	1.69	1.47	1.13
LD2985BM15R	497-3496-2-ND	1.5V, 150mA LDO Volt. Regulator	SOT-23-5L			1797.00/3,000
LD2985BM18R	497-3497-1-ND	1.8V, 150mA LDO Volt. Regulator	SOT-23-5L	1.69	1.47	1.13
LD2985BM18R	497-3497-2-ND	1.8V, 150mA LDO Volt. Regulator	SOT-23-5L			1797.00/3,000
LD2985BM25R	497-3498-1-ND	2.5V, 150mA LDO Volt. Regulator	SOT-23-5L	1.69	1.47	1.13
LD2985BM25R	497-3498-2-ND	2.5V, 150mA LDO Volt. Regulator	SOT-23-5L			1797.00/3,000
LD2985BM33R	497-3499-1-ND	3.3V, 150mA LDO Volt. Regulator	SOT-23-5L	1.69	1.47	1.13
LD2985BM33R	497-3499-2-ND	3.3V, 150mA LDO Volt. Regulator	SOT-23-5L			1797.00/3,000
LD2985BM50R	497-3500-1-ND	5V, 150mA LDO Volt. Regulator	SOT-23-5L	1.69	1.47	1.13
LD2985BM50R	497-3500-2-ND	5V, 150mA LDO Volt. Regulator	SOT-23-5L			1797.00/3,000
LD3985G18R	497-3501-1-ND	1.8V, 150mA LDO Volt. Regulator	TSOT-23-5L	1.46	1.27	.98
LD3985G18R	497-3501-2-ND	1.8V, 150mA LDO Volt. Regulator	TSOT-23-5L			1557.00/3,000
LD3985G25R	497-3502-1-ND	2.5V, 150mA LDO Volt. Regulator	TSOT-23-5L	1.46	1.27	.98
LD3985G25R	497-3502-2-ND	2.5V, 150mA LDO Volt. Regulator	TSOT-23-5L			1557.00/3,000
LD3985M18R	497-3503-1-ND	1.8V, 150mA LDO Volt. Regulator	SOT-23-5L	1.46	1.27	.98
LD3985M18R	497-3503-2-ND	1.8V, 150mA LDO Volt. Regulator	SOT-23-5L			1557.00/3,000
LD3985M33R	497-3504-1-ND	3.3V, 150mA LDO Volt. Regulator	SOT-23-5L	1.46	1.27	.98
LD3985M33R	497-3504-2-ND	3.3V, 150mA LDO Volt. Regulator	SOT-23-5L			1557.00/3,000
LDR1833K7-R	497-4255-1-ND	1.8V/3.3V LDO Volt. Regulator **NEW!**	7-SPAK	1.61	1.40	1.08
LDR1833K7-R	497-4255-2-ND	1.8V/3.3V LDO Volt. Regulator **NEW!**	7-SPAK			1248.00/2,000
LDR2533BPT-R	497-3505-1-ND	2.5V/3.3V LDO Dual Volt. Regulator	P-PAK	1.62	1.35	1.14
LDR2533BPT-R	497-3505-2-ND	2.5V/3.3V LDO Dual Volt. Regulator	P-PAK			1755.00/2,500
LDR2533K7-R	497-4256-1-ND	2.5V/3.3V LDO Volt. Regulator **NEW!**	7-SPAK	1.61	1.40	1.08
LDR2533K7-R	497-4256-2-ND	2.5V/3.3V LDO Volt. Regulator **NEW!**	7-SPAK			1248.00/2,000
LDS3985M33R	497-4257-1-ND	3.3V, 300mA LDO Volt. Regulator **NEW!**	SOT-23-5L	.90	.72	.54
LDS3985M33R	497-4257-2-ND	3.3V, 300mA LDO Volt. Regulator **NEW!**	SOT-23-5L			855.00/3,000
LE30CZ	497-1528-ND	3V, LDO Voltage Regulator	TO-92	1.05	.91	.70
LE33CZ-TR	497-4258-1-ND	3.3V, LDO Voltage Regulator **NEW!**	TO-92	.86	.69	.52
LE33CZ-TR	497-4258-2-ND	3.3V, LDO Voltage Regulator **NEW!**	TO-92			590.00/2,000
LE40CZ	497-1529-ND	4V, LDO Voltage Regulator	TO-92	1.05	.91	.70
LE45ABD-TR	497-1530-1-ND	4.5V, LDO Voltage Regulator	8-SOIC	1.31	1.14	.88
LE45ABD-TR	497-1530-2-ND	4.5V, LDO Voltage Regulator	8-SOIC			1165.00/2,500
LE50ABZ-AP	497-1531-1-ND	5V, LDO Voltage Regulator	TO-92	1.35	1.17	.90
LE50ABZ-AP	497-1531-3-ND	5V, LDO Voltage Regulator	TO-92			1044.00/2,000
LF33CDT	497-2962-5-ND	3.3V, LDO Voltage Regulator	D-PAK	1.65	1.43	1.10
LF33CDT-TR	497-1532-1-ND	3.3V, LDO Voltage Regulator	D-PAK	1.80	1.56	1.20
LF33CDT-TR	497-1532-2-ND	3.3V, LDO Voltage Regulator	D-PAK			1595.00/2,500
LF50ABDT	497-1533-5-ND	5V, LDO Voltage Regulator	D-PAK	1.50	1.25	1.05
LF50CDT-TR	497-1534-1-ND	5V, LDO Voltage Regulator	D-PAK	1.80	1.56	1.20
LF50CDT-TR	497-1534-2-ND	5V, LDO Voltage Regulator	D-PAK			1595.00/2,500
LF60ABDT-TR	497-1535-1-ND	6V, LDO Voltage Regulator	D-PAK	1.83	1.53	1.29
LF60ABDT-TR	497-1535-2-ND	6V, LDO Voltage Regulator	D-PAK			1982.50/2,500
LF80ABDT	497-1536-5-ND	8V, LDO Voltage Regulator	D-PAK	1.50	1.25	1.05
LF80CDT-TR	497-1537-1-ND	8V, LDO Voltage Regulator	D-PAK	1.80	1.56	1.20
LF80CDT-TR	497-1537-2-ND	8V, LDO Voltage Regulator	D-PAK			1595.00/2,500
LF85CDT	497-1538-5-ND	8.5V, LDO Voltage Regulator	D-PAK	1.65	1.43	1.10

(Continued)

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STMicroelectronics — LOW DROPOUT REGULATORS (Continued)

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
LF90ABDT-TR	497-1539-1-ND	9V, LDO Voltage Regulator	D-PAK	1.62	1.35	1.14
LF90ABDT-TR	497-1539-2-ND	9V, LDO Voltage Regulator	D-PAK		1755.00/2,500	
LK112SM50TR	497-4259-1-ND	5V, LDO Voltage Reg. **NEW!**	SOT-23-5L	.86	.69	.52
LK112SM50TR	497-4259-2-ND	5V, LDO Voltage Reg. **NEW!**	SOT-23-5L		813.00/3,000	
LK115D33-TR	497-1540-1-ND	3.3V, LDO Voltage Regulator	8-SOIC	1.01	.88	.68
LK115D33-TR	497-1540-2-ND	3.3V, LDO Voltage Regulator	8-SOIC		897.50/2,500	
LM2931AD50R	497-1563-1-ND	5V, LDO Voltage Regulator	8-SOIC	.94	.82	.63
LM2931AD50R	497-1563-2-ND	5V, LDO Voltage Regulator	8-SOIC		832.50/2,500	
LM2931ADT50R	497-1564-1-ND	5V, LDO Voltage Regulator	D-PAK	.94	.82	.63
LM2931ADT50R	497-1564-2-ND	5V, LDO Voltage Regulator	D-PAK		832.50/2,500	
LM2931AV50	497-1565-5-ND	5V, LDO Voltage Regulator	TO-220	1.13	.90	.68
LM2931AZ50R	497-4262-1-ND	5V, LDO Voltage Regulator **NEW!**	TO-92	.77	.62	.46
LM2931AZ50R	497-4262-2-ND	5V, LDO Voltage Regulator **NEW!**	TO-92		528.00/2,000	
LM2931D	497-4263-5-ND	2.5V/26V, LDO Voltage Reg. **NEW!**	8-SOIC	1.05	.91	.70

STMicroelectronics — VOLTAGE RESET

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
STM809MWX6F	497-3326-1-ND	4.38V Reset Circuit	SOT-23	.52	.42	.31
STM809MWX6F	497-3326-2-ND	4.38V Reset Circuit	SOT-23		465.00/3,000	
STM809RWX6F	497-3327-1-ND	2.63V Reset Circuit	SOT-23	.52	.42	.31
STM809RWX6F	497-3327-2-ND	2.63V Reset Circuit	SOT-23		465.00/3,000	
STM809SWX6F	497-3338-1-ND	2.93V Reset Circuit	SOT-23	.52	.42	.31
STM809SWX6F	497-3338-2-ND	2.93V Reset Circuit	SOT-23		465.00/3,000	
STM809TWX6F	497-3339-1-ND	3.08V Reset Circuit	SOT-23	.52	.42	.31
STM809TWX6F	497-3339-2-ND	3.08V Reset Circuit	SOT-23		465.00/3,000	
STM810LWX6F	497-3340-1-ND	4.63V Reset Circuit	SOT-23	.52	.42	.31
STM810LWX6F	497-3340-2-ND	4.63V Reset Circuit	SOT-23		465.00/3,000	
STM810MWX6F	497-3341-1-ND	4.38V Reset Circuit	SOT-23	.52	.42	.31
STM810MWX6F	497-3341-2-ND	4.38V Reset Circuit	SOT-23		465.00/3,000	
STM810RWX6F	497-3342-1-ND	2.63V Reset Circuit	SOT-23	.52	.42	.31
STM810RWX6F	497-3342-2-ND	2.63V Reset Circuit	SOT-23		465.00/3,000	
STM810SWX6F	497-3343-1-ND	2.93V Reset Circuit	SOT-23	.52	.42	.31
STM810SWX6F	497-3343-2-ND	2.93V Reset Circuit	SOT-23		465.00/3,000	
STM810TWX6F	497-3344-1-ND	3.08V Reset Circuit	SOT-23	.52	.42	.31
STM810TWX6F	497-3344-2-ND	3.08V Reset Circuit	SOT-23		465.00/3,000	
STM811LW16F	497-3345-1-ND	4.63V Reset Circuit	SOT-143-4	.78	.63	.47
STM811LW16F	497-3345-2-ND	4.63V Reset Circuit	SOT-143-4		744.00/3,000	
STM811MW16F	497-3346-1-ND	4.38V Reset Circuit	SOT-143-4	.78	.63	.47
STM811MW16F	497-3346-2-ND	4.38V Reset Circuit	SOT-143-4		744.00/3,000	
STM811RW16F	497-3347-1-ND	2.63V Reset Circuit	SOT-143-4	.78	.63	.47
STM811RW16F	497-3347-2-ND	2.63V Reset Circuit	SOT-143-4		744.00/3,000	
STM811SW16F	497-3348-1-ND	2.93V Reset Circuit	SOT-143-4	.78	.63	.47
STM811SW16F	497-3348-2-ND	2.93V Reset Circuit	SOT-143-4		744.00/3,000	
STM811TW16F	497-3349-1-ND	3.08V Reset Circuit	SOT-143-4	.78	.63	.47
STM811TW16F	497-3349-2-ND	3.08V Reset Circuit	SOT-143-4		744.00/3,000	
STM812LW16F	497-3350-1-ND	4.63V Reset Circuit	SOT-143-4	.78	.63	.47
STM812LW16F	497-3350-2-ND	4.63V Reset Circuit	SOT-143-4		744.00/3,000	
STM812MW16F	497-3351-1-ND	4.38V Reset Circuit	SOT-143-4	.78	.63	.47
STM812MW16F	497-3351-2-ND	4.38V Reset Circuit	SOT-143-4		744.00/3,000	
STM812RW16F	497-3352-1-ND	2.63V Reset Circuit	SOT-143-4	.78	.63	.47
STM812RW16F	497-3352-2-ND	2.63V Reset Circuit	SOT-143-4		744.00/3,000	
STM812SW16F	497-3353-1-ND	2.93V Reset Circuit	SOT-143-4	.78	.63	.47
STM812SW16F	497-3353-2-ND	2.93V Reset Circuit	SOT-143-4		744.00/3,000	
STM812TW16F	497-3354-1-ND	3.08V Reset Circuit	SOT-143-4	.78	.63	.47
STM812TW16F	497-3354-2-ND	3.08V Reset Circuit	SOT-143-4		744.00/3,000	

STMicroelectronics — MEMORY

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
		EPROM				
M27C64A-10F1	497-1684-5-ND	64K-Bit (8Kb x 8), 100nS, UV EPROM	28-FDip	5.00	4.35	3.24
M27C64A-15F1	497-1685-5-ND	64K-Bit (8Kb x 8), 150nS, UV EPROM	28-FDip	5.00	4.35	3.24
M27C64A-20F1	497-1686-5-ND	64K-Bit (8Kb x 8), 200nS, UV EPROM	28-FDip	5.00	4.35	3.24
M27C256B-10B6	497-1641-5-ND	256K-Bit (32Kb x 8), 100nS, OTP EPROM	28-PDip	1.53	1.28	1.08
M27C256B-10F1	497-1642-5-ND	256K-Bit (32Kb x 8), 100nS, UV EPROM	28-FDip	3.11	2.71	2.02
M27C256B-12B1	497-1643-5-ND	256K-Bit (32Kb x 8), 120nS, OTP EPROM	28-PDip	1.53	1.28	1.08
M27C256B-12C1	497-1644-5-ND	256K-Bit (32Kb x 8), 120nS, OTP EPROM	32-PLCC	1.53	1.28	1.08
M27C256B-12C6	497-1645-5-ND	256K-Bit (32Kb x 8), 120nS, OTP EPROM	32-PLCC	1.53	1.28	1.08
M27C256B-12F1	497-1646-5-ND	256K-Bit (32Kb x 8), 120nS, UV EPROM	28-FDip	3.11	2.71	2.02
M27C256B-12F6	497-1647-5-ND	256K-Bit (32Kb x 8), 120nS, UV EPROM	28-FDip	3.11	2.71	2.02
M27C256B-15B1	497-1648-5-ND	256K-Bit (32Kb x 8), 150nS, OTP EPROM	28-PDip	1.53	1.28	1.08
M27C256B-15C1	497-1649-5-ND	256K-Bit (32Kb x 8), 150nS, OTP EPROM	32-PLCC	1.53	1.28	1.08
M27C256B-15F1	497-1650-5-ND	256K-Bit (32Kb x 8), 150nS, UV EPROM	28-FDip	3.11	2.71	2.02
M27C256B-70C1	497-1652-5-ND	256K-Bit (32Kb x 8), 70nS, OTP EPROM	32-PLCC	1.53	1.28	1.08
M27C256B-90B1	497-1653-5-ND	256K-Bit (32Kb x 8), 90nS, OTP EPROM	28-PDip	1.53	1.28	1.08
M27C256B-90C1	497-1654-5-ND	256K-Bit (32Kb x 8), 90nS, OTP EPROM	32-PLCC	1.53	1.28	1.08
M27C256B-90C6	497-1655-5-ND	256K-Bit (32Kb x 8), 90nS, OTP EPROM	32-PLCC	1.53	1.28	1.08
M27C256B-90F6	497-1656-5-ND	256K-Bit (32Kb x 8), 90nS, OTP EPROM	28-FDip	3.11	2.71	2.02
M27C512-10F1	497-1667-5-ND	512K-Bit (64Kb x 8), 100nS, UV EPROM	28-FDip	3.24	2.82	
M27C512-12B1	497-1668-5-ND	512K-Bit (64Kb x 8), 120nS, OTP EPROM	28-PDip	1.71	1.43	
M27C512-12C1	497-1669-5-ND	512K-Bit (64Kb x 8), 120nS, OTP EPROM	32-PLCC	1.71	1.43	
M27C512-12C6	497-1670-5-ND	512K-Bit (64Kb x 8), 120nS, OTP EPROM	32-PLCC	1.71	1.43	
M27C512-12F1	497-1671-5-ND	512K-Bit (64Kb x 8), 120nS, UV EPROM	28-FDip	3.24	2.82	
M27C512-15B1	497-1672-5-ND	512K-Bit (64Kb x 8), 150nS, OTP EPROM	28-PDip	1.71	1.43	
M27C512-15B6	497-1673-5-ND	512K-Bit (64Kb x 8), 150nS, OTP EPROM	28-PDip	1.71	1.43	
M27C512-15C1	497-1674-5-ND	512K-Bit (64Kb x 8), 150nS, OTP EPROM	32-PLCC	1.71	1.43	
M27C512-15F1	497-1675-5-ND	512K-Bit (64Kb x 8), 150nS, UV EPROM	28-FDip	3.24	2.82	
M27C512-15F6	497-1676-5-ND	512K-Bit (64Kb x 8), 150nS, UV EPROM	28-FDip	3.24	2.82	
M27C512-70C1	497-1677-5-ND	512K-Bit (64Kb x 8), 70nS, OTP EPROM	32-PLCC	1.71	1.43	
M27C512-70C6	497-1678-5-ND	512K-Bit (64Kb x 8), 70nS, OTP EPROM	32-PLCC	1.71	1.43	
M27C512-70XF1	497-1679-5-ND	512K-Bit (64Kb x 8), 70nS, UV EPROM	28-FDip	3.24	2.82	
M27C512-90B1	497-1681-5-ND	512K-Bit (64Kb x 8), 90nS, OTP EPROM	28-PDip	1.71	1.43	
M27C512-90B6	497-1682-5-ND	512K-Bit (64Kb x 8), 90nS, OTP EPROM	28-PDip	1.71	1.43	
M27C512-90C6	497-1683-5-ND	512K-Bit (64Kb x 8), 90nS, OTP EPROM	32-PLCC	1.71	1.43	
M27C801-100B1	497-1687-5-ND	8M-Bit (1Mb x 8), 100nS, OTP EPROM	32-PDip	5.75	5.25	
M27C801-100F1	497-1688-5-ND	8M-Bit (1Mb x 8), 100nS, UV EPROM	32-FDip	8.05	7.35	
M27C801-100N1	497-1689-5-ND	8M-Bit (1Mb x 8), 100nS, OTP EPROM	32-TSOP	5.75	5.25	
M27C801-120B1	497-1690-5-ND	8M-Bit (1Mb x 8), 120nS, OTP EPROM	32-PDip	5.75	5.25	
M27C1001-10B1	497-1625-5-ND	1M-Bit (125Kb x 8), 100nS, OTP EPROM	32-PDip	2.55	2.13	
M27C1001-10C1	497-1626-5-ND	1M-Bit (125Kb x 8), 100nS, OTP EPROM	32-PLCC	2.55	2.13	
M27C1001-10F1	497-1627-5-ND	1M-Bit (125Kb x 8), 100nS, UV EPROM	32-FDip	3.83	3.34	
M27C1001-12B1	497-1628-5-ND	1M-Bit (125Kb x 8), 120nS, OTP EPROM	32-PDip	2.55	2.13	
M27C1001-12C1	497-1629-5-ND	1M-Bit (125Kb x 8), 120nS, OTP EPROM	32-PLCC	2.55	2.13	
M27C1001-12C6	497-1630-5-ND	1M-Bit (125Kb x 8), 120nS, OTP EPROM	32-PLCC	2.55	2.13	
M27C1001-12F1	497-1631-5-ND	1M-Bit (128Kb x 8), 120nS, UV EPROM	32-FDip	3.83	3.34	
M27C1001-12F6	497-1632-5-ND	1M-Bit (128Kb x 8), 120nS, UV EPROM	32-FDip	3.83	3.34	
M27C1001-15B1	497-1633-5-ND	1M-Bit (128Kb x 8), 150nS, OTP EPROM	32-PDip	2.55	2.13	
M27C1001-15C1	497-1634-5-ND	1M-Bit (128Kb x 8), 150nS, OTP EPROM	32-PLCC	2.55	2.13	
M27C1001-15F1	497-1635-5-ND	1M-Bit (128Kb x 8), 150nS, UV EPROM	32-FDip	3.83	3.34	
M27C1001-70C1	497-1636-5-ND	1M-Bit (128Kb x 8), 70nS, OTP EPROM	32-PLCC	2.55	2.13	
M27C1001-70F1	497-1637-5-ND	1M-Bit (128Kb x 8), 70nS, UV EPROM	32-FDip	3.83	3.34	
M27C2001-10B1	497-1638-5-ND	2M-Bit (256Kb x 8), 100nS, OTP EPROM	32-PDip	2.85	2.38	
M27C2001-10F1	497-1639-5-ND	2M-Bit (256Kb x 8), 100nS, UV EPROM	32-FDip	5.27	4.59	
M27C2001-55C1	497-1640-5-ND	2M-Bit (256Kb x 8), 55nS, OTP EPROM	32-PLCC	2.85	2.38	
M27C4001-10B1	497-1657-5-ND	4M-Bit (512Kb x 8), 100nS, OTP EPROM	32-PDip	4.19	3.65	
M27C4001-10F1	497-1658-5-ND	4M-Bit (512Kb x 8), 100nS, UV EPROM	32-FDip	6.10	5.57	
M27C4001-12B1	497-1659-5-ND	4M-Bit (512Kb x 8), 120nS, OTP EPROM	32-PDip	4.19	3.65	
M27C4001-12C1	497-1660-5-ND	4M-Bit (512Kb x 8), 120nS, OTP EPROM	32-PLCC	4.19	3.65	
M27C4001-12F1	497-1661-5-ND	4M-Bit (512Kb x 8), 120nS, UV EPROM	32-FDip	6.10	5.57	
M27C4001-15C1	497-1662-5-ND	4M-Bit (512Kb x 8), 150nS, OTP EPROM	32-PLCC	4.19	3.65	
M27C4001-15F1	497-1663-5-ND	4M-Bit (512Kb x 8), 150nS, UV EPROM	32-FDip	6.10	5.57	
M27C4001-80XF1	497-1664-5-ND	4M-Bit (512Kb x 8), 80nS, UV EPROM	32-FDip	6.10	5.57	
M27C4002-10B1	497-1665-5-ND	4M-Bit (256Kb x 16), 100nS, OTP EPROM	40-PDip	4.59	4.00	
M27C4002-12C1	497-1666-5-ND	4M-Bit (256Kb x 16), 120nS, OTP EPROM	44-PLCC	4.59	4.00	
M27W101-80K6	497-1691-5-ND	1M-Bit (128Kb x 8), Low Voltage, 80nS, OTP EPROM	32-PLCC	2.55	2.13	
M27W201-80K6	497-1692-5-ND	2M-Bit (256Kb x 8), Low Voltage, 80nS, OTP EPROM	32-PLCC	2.85	2.38	
M27W401-80K6	497-1693-5-ND	4M-Bit (512Kb x 8), Low Voltage, 80nS, OTP EPROM	32-PLCC	4.19	3.65	
		EEPROM				
M24128-BWMN6	497-1599-5-ND	5.5V, 128K-Bit Serial EEPROM	8-SOIC	1.68	1.46	
M24256-BWMN6T	497-1601-1-ND	5.5V, 256K-Bit Serial EEPROM	8-SOIC	1.95	1.63	
M24256-BWMN6T	497-1601-2-ND	5.5V, 256K-Bit Serial EEPROM	8-SOIC		1820.00/2,5	
M24C01-WMN6T	497-1602-1-ND	2.5V, 1K-Bit Serial EEPROM	8-SOIC	.57	.46	
M24C01-WMN6T	497-1602-2-ND	2.5V, 1K-Bit Serial EEPROM	8-SOIC		423.75/2,5	
M24C02-MN6T	497-1604-1-ND	5.5V, 2K-Bit Serial EEPROM	8-SOIC	1.39	1.21	
M24C02-MN6T	497-1604-2-ND	5.5V, 2K-Bit Serial EEPROM	8-SOIC		1230.00/2,5	
M24C02-RDW6T	497-1605-1-ND	5.5V, 2K-Bit Serial EEPROM	8-TSSOP	.70	.56	
M24C02-RDW6T	497-1605-2-ND	5.5V, 2K-Bit Serial EEPROM	8-TSSOP		840.00/4,0	
M24C02-WBN6	497-1606-5-ND	2.5V, 2K-Bit Serial EEPROM	8-PDip	.59	.48	
M24C02-WDW6T	497-1607-1-ND	2.5V, 2K-Bit Serial EEPROM	8-TSSOP	.59	.48	
M24C02-WDW6T	497-1607-2-ND	2.5V, 2K-Bit Serial EEPROM	8-TSSOP		708.00/4,0	
M24C02-WMN6T	497-1608-1-ND	2.5V, 2K-Bit Serial EEPROM	8-SOIC	.44	.39	
M24C04-BN6	497-1609-5-ND	5.5V, 4K-Bit Serial EEPROM	8-PDip	1.43	1.24	
M24C04-MN6T	497-1610-1-ND	5.5V, 4K-Bit Serial EEPROM	8-SOIC	1.50	1.30	

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STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
M24C04-MN6T	497-1610-2-ND	5.5V, 4K-Bit Serial EEPROM	8-SOIC		1330.00/2,500	
M24C04-WDW6T	497-1611-1-ND	2.5V, 4K-Bit Serial EEPROM	8-TSSOP	.65	.52	.39
M24C04-WDW6T	497-1611-2-ND	2.5V, 4K-Bit Serial EEPROM	8-TSSOP		774.00/4,000	
M24C04-WMN6T	497-1612-1-ND	2.5V, 4K-Bit Serial EEPROM	8-SOIC	.65	.52	.39
M24C04-WMN6T	497-1612-2-ND	2.5V, 4K-Bit Serial EEPROM	8-SOIC		483.75/2,500	
M24C08-BN6	497-1613-5-ND	5.5V, 8K-Bit Serial EEPROM	8-PDip	1.56	1.30	1.10
M24C08-WMN6	497-1614-5-ND	2.5V, 8K-Bit Serial EEPROM	8-SOIC	.72	.58	.43
M24C16-BN6	497-1615-5-ND	5.5V, 16K-Bit Serial EEPROM	8-PDip	2.13	1.78	1.50
M24C16-WMN6T	497-1616-1-ND	2.5V, 16K-Bit Serial EEPROM	8-SOIC	.71	.57	.43
M24C16-WMN6T	497-1616-2-ND	2.5V, 16K-Bit Serial EEPROM	8-SOIC		559.31/2,500	
M24C32-WMN6T	497-1618-1-ND	2.5V, 32K-Bit Serial EEPROM	8-SOIC	.93	.75	.56
M24C32-WMN6T	497-1618-2-ND	2.5V, 32K-Bit Serial EEPROM	8-SOIC		737.44/2,500	
M24C64-WMN6T	497-1620-1-ND	2.5V, 64K-Bit Serial EEPROM	8-SOIC	.97	.84	.65
M24C64-WMN6T	497-1620-2-ND	2.5V, 64K-Bit Serial EEPROM	8-SOIC		857.85/2,500	
M34C02-LDW6T	497-1722-1-ND	5.5V, 2K-Bit Serial EEPROM	8-TSSOP	.68	.54	.41
M34C02-LDW6T	497-1722-2-ND	5.5V, 2K-Bit Serial EEPROM	8-TSSOP		856.00/4,000	
M34C02-WDW6T	497-1723-1-ND	5.5V, 2K-Bit Serial EEPROM	8-TSSOP	1.13	.98	.75
M34C02-WDW6T	497-1723-2-ND	5.5V, 2K-Bit Serial EEPROM	8-TSSOP		1596.00/4,000	
M34D64-WMN6T	497-1724-1-ND	5.5V, 64K-Bit Serial EEPROM	8-SOIC	1.17	1.02	.78
M34D64-WMN6T	497-1724-2-ND	5.5V, 64K-Bit Serial EEPROM	8-SOIC		1037.40/2,500	
M93C46-BN6	497-1926-5-ND	5.5V, 1K-Bit Microwire Serial Access EEPROM	8-PDip	.58	.47	.35
M93C46-MN6T	497-1927-1-ND	5.5V, 1K-Bit Microwire Serial Access EEPROM	8-SOIC	.58	.47	.35
M93C46-MN6T	497-1927-2-ND	5.5V, 1K-Bit Microwire Serial Access EEPROM	8-SOIC		435.00/2,500	
M93C46-WMN6	497-1928-5-ND	5.5V, 1K-Bit Microwire Serial Access EEPROM	8-SOIC	.58	.47	.35
M93C46-WMN6T	497-1929-1-ND	5.5V, 1K-Bit Microwire Serial Access EEPROM	8-SOIC	.58	.47	.35
M93C46-WMN6T	497-1929-2-ND	5.5V, 1K-Bit Microwire Serial Access EEPROM	8-SOIC		435.00/2,500	
M93C56-MN6T	497-1930-1-ND	5.5V, 2K-Bit Microwire Serial Access EEPROM	8-SOIC	.66	.53	.40
M93C56-MN6T	497-1930-2-ND	5.5V, 2K-Bit Microwire Serial Access EEPROM	8-SOIC		495.00/2,500	
M93C56-WMN6T	497-1931-1-ND	5.5V, 2K-Bit Microwire Serial Access EEPROM	8-SOIC	.66	.53	.40
M93C56-WMN6T	497-1931-2-ND	5.5V, 2K-Bit Microwire Serial Access EEPROM	8-SOIC		495.00/2,500	
M93C66-MN6	497-1932-5-ND	5.5V, 4K-Bit Microwire Serial Access EEPROM	8-SOIC	.70	.56	.42
M93C66-MN6T	497-1933-1-ND	5.5V, 4K-Bit Microwire Serial Access EEPROM	8-SOIC	.70	.56	.42
M93C66-MN6T	497-1933-2-ND	5.5V, 4K-Bit Microwire Serial Access EEPROM	8-SOIC		552.19/2,500	
M93C66-WMN6	497-1934-5-ND	5.5V, 4K-Bit Microwire Serial Access EEPROM	8-SOIC	.70	.56	.42
M93C66-WMN6T	497-1935-1-ND	5.5V, 4K-Bit Microwire Serial Access EEPROM	8-SOIC	.70	.56	.42
M93C66-WMN6T	497-1935-2-ND	5.5V, 4K-Bit Microwire Serial Access EEPROM	8-SOIC		552.19/2,500	
M93C86-MN6T	497-1936-1-ND	5.5V, 16K-Bit Microwire Serial Access EEPROM	8-SOIC	1.03	.83	.62
M93C86-MN6T	497-1936-2-ND	5.5V, 16K-Bit Microwire Serial Access EEPROM	8-SOIC		812.25/2,500	
M93C86-WMN6	497-1937-5-ND	5.5V, 16K-Bit Microwire Serial Access EEPROM	8-SOIC	1.03	.83	.62
M93S46-MN6T	497-1938-1-ND	5.5V, 1K-Bit Microwire Serial Access EEPROM	8-SOIC	.78	.63	.47
M93S46-MN6T	497-1938-2-ND	5.5V, 1K-Bit Microwire Serial Access EEPROM	8-SOIC		617.50/2,500	
M93S46-WMN6	497-1939-5-ND	5.5V, 1K-Bit Microwire Serial Access EEPROM	8-SOIC	.78	.63	.47
M93S46-WMN6T	497-1940-1-ND	5.5V, 1K-Bit Microwire Serial Access EEPROM	8-SOIC	.78	.63	.47
M93S46-WMN6T	497-1940-2-ND	5.5V, 1K-Bit Microwire Serial Access EEPROM	8-SOIC		617.50/2,500	
M93S56-MN6	497-1941-5-ND	5.5V, 2K-Bit Microwire Serial Access EEPROM	8-SOIC	.89	.71	.54
M93S56-WMN6	497-1942-5-ND	5.5V, 2K-Bit Microwire Serial Access EEPROM	8-SOIC	.89	.71	.54
M93S56-WMN6T	497-1943-1-ND	5.5V, 2K-Bit Microwire Serial Access EEPROM	8-SOIC	.89	.71	.54
M93S56-WMN6T	497-1943-2-ND	5.5V, 2K-Bit Microwire Serial Access EEPROM	8-SOIC		701.81/2,500	
M95020-MN6	497-1944-5-ND	5.5V, 2K-bit Serial SPI Bus EEPROM	8-SOIC	.82	.66	.50
M95040-WMN6T	497-1945-1-ND	5.5V, 4K-bit Serial SPI Bus EEPROM	8-SOIC	.88	.71	.53
M95040-WMN6T	497-1945-2-ND	5.5V, 4K-bit Serial SPI Bus EEPROM	8-SOIC		694.69/2,500	
M95080-WMN6T	497-1946-1-ND	5.5V, 8K-bit Serial SPI Bus EEPROM	8-SOIC	1.05	.85	.64
M95080-WMN6T	497-1946-2-ND	5.5V, 8K-bit Serial SPI Bus EEPROM	8-SOIC		833.63/2,500	
M95640-WMN6T	497-1947-1-ND	5.5V, 64K-bit Serial SPI Bus EEPROM	8-SOIC	1.39	1.21	.93
M95640-WMN6T	497-1947-2-ND	5.5V, 64K-bit Serial SPI Bus EEPROM	8-SOIC		1230.25/2,500	
		Flash				
M25P05-AVMN6T	497-1621-1-ND	3.6V, 512K-Bit Serial Flash	8-SOIC	1.86	1.61	1.24
M25P05-AVMN6T	497-1621-2-ND	3.6V, 512K-Bit Serial Flash	8-SOIC		1645.88/2,500	
M25P10-AVMN6P	497-3591-ND	3.6V, 1M-Bit Serial Flash	8-SOIC	1.79	1.50	1.26
M25P10-AVMN6T	497-1622-1-ND	3.6V, 1M-Bit Serial Flash	8-SOIC	1.79	1.50	1.26
M25P10-AVMN6T	497-1622-2-ND	3.6V, 1M-Bit Serial Flash	8-SOIC		1943.50/2,500	
M25P10-AVMP6T	497-3592-1-ND	3.6V, 1M-Bit Serial Flash	8-VDFPN	2.48	2.07	1.74
M25P10-AVMP6T	497-3592-2-ND	3.6V, 1M-Bit Serial Flash	8-VDFPN		4305.60/4,000	
M25P16-VMF6P	497-3593-ND	3.6V, 16M-Bit Serial Flash	16-SOIC	4.56	3.97	2.96
M25P20-VMN6P	497-3594-1-ND	3.6V, 2M-Bit Serial Flash	8-SOIC	2.07	1.73	1.45
M25P20-VMN6P	497-3594-2-ND	3.6V, 2M-Bit Serial Flash	8-SOIC		1864.00/2,000	
M25P20-VMN6T	497-1623-1-ND	3.6V, 2M-Bit Serial Flash	8-SOIC	2.07	1.73	1.45
M25P20-VMN6T	497-1623-2-ND	3.6V, 2M-Bit Serial Flash	8-SOIC		2242.50/2,500	
M25P20-VMP6	497-3595-ND	3.6V, 2M-Bit Serial Flash	8-VDFPN	3.17	2.77	2.06
M25P32-VMF6G	497-3596-ND	3.6V, 32M-Bit Serial Flash	16-SOIC	6.40	5.85	4.63
M25P40-VMN6P	497-3598-ND	3.6V, 4M-Bit Serial Flash	8-SOIC	2.84	2.37	2.00
M25P40-VMN6T	497-1624-1-ND	3.6V, 4M-Bit Serial Flash	8-SOIC	3.24	2.82	2.10
M25P40-VMN6T	497-1624-2-ND	3.6V, 4M-Bit Serial Flash	8-SOIC		3840.00/2,500	
M25P80-VMP6T	497-3600-1-ND	3.6V, 8M-Bit Serial Flash	8-VDFPN	5.39	4.69	3.50
M25P80-VMP6T	497-3600-2-ND	3.6V, 8M-Bit Serial Flash	8-VDFPN		10008.00/4,000	
M25P80-VMW6	497-3601-ND	3.6V, 8M-Bit Serial Flash	8-SOIC	3.56	3.11	2.31

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
M28W320CB90N6	497-1694-ND	32M-Bit (2Mb x 16), Bottom Boot, 3V Flash Memory	48-TSOP	7.36	6.72	5.32
M28W320CT90N6	497-1695-ND	32M-Bit (2Mb x 16), Top Boot, 3V Flash Memory	48-TSOP	7.36	6.72	5.32
M28W320ECB70ZB6T	497-1696-1-ND	32M-Bit (2Mb x 16), Bottom Boot, 3V Flash Memory	47-TFBGA	14.00	12.95	9.80
M28W320ECB70ZB6T	497-1696-2-ND	32M-Bit (2Mb x 16), Bottom Boot, 3V Flash Memory	47-TFBGA		14175.00/2,500	
M28W320ECT70ZB6T	497-1697-1-ND	32M-Bit (2Mb x 16), Top Boot, 3V Flash Memory	47-TFBGA	14.00	12.95	9.80
M28W320ECT70ZB6T	497-1697-2-ND	32M-Bit (2Mb x 16), Top Boot, 3V Flash Memory	47-TFBGA		14175.00/2,500	
M29DW323DB70N6	497-1699-ND	32M-Bit (4Mb x 8 or 2Mb x 16), Bottom Boot, 3V Flash Memory	48-TSOP	9.09	8.30	6.56
M29F010B70K6T	497-1700-1-ND	1M-Bit (128Kb x 8), 70nS, Single Flash Memory	32-PLCC	2.70	2.35	1.75
M29F010B70K6T	497-1700-2-ND	1M-Bit (128Kb x 8), 70nS, Single Flash Memory	32-PLCC		1050.00/750	
M29F016D70N6	497-1701-ND	16M-Bit (2Mb x 8), 70nS, 5V Flash Memory	40-TSOP	5.75	5.25	4.15
M29F032D70N6T	497-1702-1-ND	32M-bit (4Mb x 8), 70nS, 5V Flash Memory	40-TSOP	16.00	14.80	11.20
M29F032D70N6T	497-1702-2-ND	32M-Bit (4Mb x 8), 70nS, 5V Flash Memory	40-TSOP		8607.00/1,500	
M29F040B70K6T	497-1704-1-ND	4M-Bit (512Kb x 8), 70nS, Single Flash Memory	32-PLCC	3.38	2.94	2.19
M29F040B70K6T	497-1704-2-ND	4M-Bit (512Kb x 8), 70nS, Single Flash Memory	32-PLCC		1312.50/750	
M29F040B90N6	497-1706-ND	4M-Bit (512Kb x 8), 90nS, Single Flash Memory	32-TSOP	3.38	2.94	2.19
M29F200BB70N6T	497-1707-1-ND	2M-Bit (256Kb x 8 or 128Kb x 16), 70nS, Single Flash Memory	48-TSOP	7.36	6.72	5.32
M29F200BB70N6T	497-1707-2-ND	2M-Bit (256Kb x 8 or 128Kb x 16), 70nS, Single Flash Memory	48-TSOP		2295.00/1,500	
M29F400BB70N6T	497-1708-1-ND	4M-Bit (512Kb x 8 or 256Kb x 16), 70nS, Single Flash Memory	48-TSOP	9.20	8.40	6.64
M29F400BB70N6T	497-1708-2-ND	4M-Bit (512Kb x 8 or 256Kb x 16), 70nS, Single Flash Memory	48-TSOP		2494.50/1,500	
M29F400BT70N6	497-1709-ND	4M-Bit (512Kb x 8 or 256Kb x 16), 70nS, Single Flash Memory	48-TSOP	9.20	8.40	6.64
M29F800DB70N6	497-1710-ND	8M-Bit (1Mb x 8 or 512Kb x 16), 70nS, 5V Flash Memory	48-TSOP	5.00	4.35	3.24
M29W040B90K6	497-1711-5-ND	4M-Bit (512Kb x 8), 90nS, Low Voltage, Single Flash Memory	32-PLCC	3.92	3.41	2.54
M29W160EB70N6E	497-3602-ND	16M-Bit (2Mb x 8 or 1Mb x 16), Bottom Boot, 3V Flash Memory	48-TSOP	5.40	4.70	3.50
M29W160EB70ZA6	497-3603-ND	16M-Bit (2Mb x 8 or 1Mb x 16), Bottom Boot, 3V Flash Memory	48-TFBGA	5.40	4.70	3.50
M29W160EB90N6	497-1712-ND	16M-Bit (2Mb x 8 or 1Mb x 16), Bottom Boot, 3V Flash Memory	48-TSOP	5.40	4.70	3.50
M29W160ET90ZA6T	497-1713-1-ND	16M-Bit (2Mb x 8 or 1Mb x 16), Top Boot, 3V Flash Memory	48-TFBGA	10.00	9.25	7.00
M29W160ET90ZA6T	497-1713-2-ND	16M-Bit (2Mb x 8 or 1Mb x 16), Top Boot, 3V Flash Memory	48-TFBGA		6400.00/2,500	
M29W320DB70N6	497-1714-ND	32M-Bit (4Mb x 8 or 2Mb x 16), Bottom Boot, 3V Flash Memory	48-TSOP	7.36	6.72	5.32
M29W320DB70N6E	497-3604-ND	32M-Bit (4Mb x 8 or 2Mb x 16), Bottom Boot, 3V Flash Memory	48-TSOP	7.36	6.72	5.32
M29W320DB70ZA6	497-3605-ND	32M-Bit (4Mb x 8 or 2Mb x 16), Bottom Boot, 3V Flash Memory	63-TFBGA	7.36	6.72	5.32
M29W320EB70N6E	497-3606-ND	32M-Bit (4Mb x 8 or 2Mb x 16), Bottom Boot, 3V Flash Memory	48-TSOP	7.36	6.72	5.32
M29W320EB70ZE6E	497-3607-ND	32M-Bit (4Mb x 8 or 2Mb x 16), Bottom Boot, 3V Flash Memory	63-TFBGA	7.36	6.72	5.32
M29W320ET70N6E	497-3608-ND	32M-Bit (4Mb x 8 or 2Mb x 16), Top Boot, 3V Flash Memory	48-TSOP	7.36	6.72	5.32
M29W320ET70ZE6E	497-3609-ND	32M-Bit (4Mb x 8 or 2Mb x 16), Top Boot, 3V Flash Memory	63-TFBGA	7.36	6.72	5.32
M29W400BB90N6	497-1715-ND	4M-Bit (512Kb x 8 or 256Kb x 16), Bottom Boot Low Volt. Single Flash Memory	48-TSOP	3.38	2.94	2.19
M29W400BT70N6	497-1716-ND	4M-Bit (512Kb x 8 or 256Kb x 16), Top Boot Low Volt. Single Flash Memory	48-TSOP	3.38	2.94	2.19
M29W800DB70N6T	497-3703-1-ND	8M-Bit (1Mb x 8 or 512Kb x 16), Bottom Boot, 3V Flash Memory	48-TSOP	4.19	3.65	2.72
M29W800DB70N6T	497-3703-2-ND	8M-Bit (1Mb x 8 or 512Kb x 16), Bottom Boot, 3V Flash Memory	48-TSOP		3093.00/1,500	
M29W800DB70ZE6	497-3610-ND	8M-Bit (1Mb x 8 or 512Kb x 16), Bottom Boot, 3V Flash Memory	48-TFBGA	4.32	3.76	2.80
M30LW128D110N6	497-1719-ND	128M-Bit (Two 64Mb, x8/x16), 110nS, 3V Multiple Memory	56-TSOP	28.00	24.00	21.28
M30LW128D110ZA6	497-1720-ND	128Mbit (Two 64Mb, x8/x16), 110nS, 3V Multiple Memory	64-TBGA	28.00	24.00	21.28
M58LW032D110N6	497-1725-ND	32M-Bit (4Mb x 8 or 2Mb x 16), 110nS, 3V Flash Memory	56-TSOP	8.74	7.98	6.31
M58LW032D110ZA6	497-1726-ND	32M-Bit (4Mb x 8 or 2Mb x 16), 110nS, 3V Flash Memory	64-TBGA	8.74	7.98	6.31
M58LW064D110N6	497-1727-ND	64M-Bit (8Mb x 8 or 4Mb x 16), 110nS, 3V Flash Memory	56-TSOP	15.00	13.88	10.50
M58LW064D110ZA6	497-1728-ND	64M-Bit (8Mb x 8 or 4Mb x 16), 110nS, 3V Flash Memory	64-TBGA	15.00	13.88	10.50
NAND01GW3A0AN6E	497-3611-ND	1G-Bit, 2.7V-3.6V, NAND Flash Memory	48-TSOP	26.25	22.50	19.95
NAND01GW3A2AN6E	497-3612-ND	1G-Bit, 2.7V-3.6V, NAND Flash Memory	48-TSOP	26.25	22.50	19.95
NAND256W3A0AN6E	497-3613-ND	256M-Bit, 2.7V-3.6V, NAND Flash Memory	48-TSOP	10.00	9.25	7.00
NAND256W4A0AN6E	497-3614-ND	256M-Bit, 2.7V-3.6V, NAND Flash Memory	48-TSOP	12.00	11.10	8.40
NAND512R3A3AZA6E	497-3616-ND	512M-Bit, 1.7V-1.95V, NAND Flash Memory	55-VFBGA	16.00	14.80	11.20
NAND512W3A0AN6E	497-3617-ND	512M-Bit, 2.7V-3.6V, NAND Flash Memory	48-TSOP	16.00	14.80	11.20

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STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
NAND512W3A0AV6E	497-3618-ND	512M-Bit, 2.7V-3.6V, NAND Flash Memory	48-WSOP	18.00	16.65	12.60
PSD813F1A-12JI	497-1973-5-ND	5V, 1M-Bit Flash ISP Peripheral for 8-Bit MCU's	52-PLDCC	13.58	12.57	9.51
PSD813F1A-12UI	497-1974-ND	5V, 1M-Bit Flash ISP Peripheral for 8-Bit MCU's	80-TQFP	14.62	13.53	10.24
PSD813F1A-90J	497-1975-5-ND	5V, 1M-Bit Flash ISP Peripheral for 8-Bit MCU's	52-PLDCC	12.46	11.53	8.73
PSD813F1A-90JI	497-1976-5-ND	5V, 1M-Bit Flash ISP Peripheral for 8-Bit MCU's	52-PLDCC	13.58	12.57	9.51
PSD813F1A-90M	497-1977-ND	5V, 1M-Bit Flash ISP Peripheral for 8-Bit MCU's	52-PQFP	12.46	11.53	8.73
PSD813F1A-90MI	497-1978-ND	5V, 1M-Bit Flash ISP Peripheral for 8-Bit MCU's	52-PQFP	13.58	12.57	9.51
PSD813F1A-90U	497-1979-ND	5V, 1M-Bit Flash ISP Peripheral for 8-Bit MCU's	80-TQFP	13.50	12.49	9.45
PSD813F1A-90UI	497-1980-ND	5V, 1M-Bit Flash ISP Peripheral for 8-Bit MCU's	80-TQFP	14.62	13.53	10.24
PSD813F1VA-15J	497-1981-5-ND	3V, 1M-Bit Flash ISP Peripheral for 8-Bit MCU's	52-PLCC	13.20	12.21	9.24
PSD813F1VA-15M	497-1982-ND	3V, 1M-Bit Flash ISP Peripheral for 8-Bit MCU's	52-PQFP	13.20	12.21	9.24
PSD813F1VA-15U	497-1983-ND	3V, 1M-Bit Flash ISP Peripheral for 8-Bit MCU's	80-TQFP	14.24	13.18	9.97
PSD813F1VA-20JI	497-1984-5-ND	3V, 1M-Bit Flash ISP Peripheral for 8-Bit MCU's	52-PLCC	14.38	13.31	10.07
PSD813F1VA-20UI	497-1985-ND	3V, 1M-Bit Flash ISP Peripheral for 8-Bit MCU's	80-TQFP	15.44	14.29	10.81
PSD813F2A-70J	497-1986-5-ND	5V, 1M-Bit Flash ISP Peripheral for 8-Bit MCU's	52-PLCC	11.98	11.09	8.39
PSD813F2A-70M	497-1987-ND	5V, 1M-Bit Flash ISP Peripheral for 8-Bit MCU's	52-PQFP	11.98	11.09	8.39
PSD813F2A-90J	497-1988-5-ND	5V, 1M-Bit Flash ISP Peripheral for 8-Bit MCU's	52-PLCC	11.40	10.55	7.98
PSD813F2A-90JI	497-1989-5-ND	5V, 1M-Bit Flash ISP Peripheral for 8-Bit MCU's	52-PLCC	12.44	11.51	8.71
PSD813F2A-90M	497-1990-ND	5V, 1M-Bit Flash ISP Peripheral for 8-Bit MCU's	52-PQFP	11.40	10.55	7.98
PSD813F2A-90MI	497-1991-ND	5V, 1M-Bit Flash ISP Peripheral for 8-Bit MCU's	52-PQFP	12.44	11.51	8.71
PSD813F2A-90U	497-1992-ND	5V, 1M-Bit Flash ISP Peripheral for 8-Bit MCU's	80-TQFP	12.46	11.53	8.73
PSD813F2A-90UI	497-1993-ND	5V, 1M-Bit Flash ISP Peripheral for 8-Bit MCU's	80-TQFP	13.48	12.47	9.44
PSD813F2VA-15J	497-1994-5-ND	3V, 1M-Bit Flash ISP Peripheral for 8-Bit MCU's	52-PLCC	12.08	11.18	8.46
PSD813F2VA-15M	497-1995-ND	3V, 1M-Bit Flash ISP Peripheral for 8-Bit MCU's	52-PQFP	12.08	11.18	8.46
PSD813F2VA-15U	497-1996-ND	3V, 1M-Bit Flash ISP Peripheral for 8-Bit MCU's	80-TQFP	13.14	12.16	9.20
PSD813F2VA-20JI	497-1997-5-ND	3V, 1M-Bit Flash ISP Peripheral for 8-Bit MCU's	52-PLCC	13.18	12.20	9.23
PSD813F2VA-20MI	497-1998-ND	3V, 1M-Bit Flash ISP Peripheral for 8-Bit MCU's	52-PQFP	13.18	12.20	9.23
PSD813F2VA-20UI	497-1999-ND	3V, 1M-Bit Flash ISP Peripheral for 8-Bit MCU's	80-TQFP	14.22	13.16	9.96
PSD833F2-90J	497-2000-5-ND	5.5V, 1M-Bit Flash ISP Peripheral for 8-Bit MCU's	52-PLCC	12.76	11.81	8.94
PSD833F2-90JI	497-2001-5-ND	5.5V, 1M-Bit Flash ISP Peripheral for 8-Bit MCU's	52-PLCC	13.90	12.86	9.73
PSD833F2-90M	497-2002-ND	5.5V, 1M-Bit Flash ISP Peripheral for 8-Bit MCU's	52-PQFP	12.76	11.81	8.94
PSD833F2-90MI	497-2003-ND	5.5V, 1M-Bit Flash ISP Peripheral for 8-Bit MCU's	52-PQFP	13.90	12.86	9.73
PSD834F2-70J	497-2004-5-ND	5.5V, 2M-Bit Flash ISP Peripheral for 8-Bit MCU's	52-PLCC	15.76	14.58	11.04
PSD834F2-70M	497-2005-ND	5.5V, 2M-Bit Flash ISP Peripheral for 8-Bit MCU's	52-PQFP	15.76	14.58	11.04
PSD834F2-90J	497-2006-5-ND	5.5V, 2M-Bit Flash ISP Peripheral for 8-Bit MCU's	52-PLCC	15.02	13.90	10.52
PSD834F2-90JI	497-2007-5-ND	5.5V, 2M-Bit Flash ISP Peripheral for 8-Bit MCU's	52-PLCC	16.36	15.14	11.46
PSD834F2-90M	497-2008-ND	5.5V, 2M-Bit Flash ISP Peripheral for 8-Bit MCU's	52-PQFP	15.02	13.90	10.52
PSD834F2-90MI	497-2009-ND	5.5V, 2M-Bit Flash ISP Peripheral for 8-Bit MCU's	52-PQFP	16.36	15.14	11.46
PSD834F2V-15J	497-2010-5-ND	3.6V, 2M-Bit Flash ISP Peripheral for 8-Bit MCU's	52-PLCC	15.92	14.73	11.15
PSD834F2V-15M	497-2011-ND	3.6V, 2M-Bit Flash ISP Peripheral for 8-Bit MCU's	52-PQFP	15.92	14.73	11.15
PSD834F2V-20JI	497-2012-5-ND	3.6V, 2M-Bit Flash ISP Peripheral for 8-Bit MCU's	52-PLCC	17.34	16.04	12.14
PSD834F2V-20MI	497-2013-ND	3.6V, 2M-Bit Flash ISP Peripheral for 8-Bit MCU's	52-PQFP	17.34	16.04	12.14
PSD835G2-70U	497-2014-ND	5V, 4M-Bit Config. Memory System on a Chip for 8-Bit MCU's	80-TQFP	19.16	17.73	13.42
PSD835G2-90U	497-2015-ND	5V, 4M-Bit Config. Memory System on a Chip for 8-Bit MCU's	80-TQFP	18.24	16.88	12.77
PSD835G2-90UI	497-2016-ND	5V, 4M-Bit Config. Memory System on a Chip for 8-Bit MCU's	80-TQFP	19.88	18.39	13.92
PSD835G2V-12UI	497-2017-ND	3V, 4M-Bit Config. Memory System on a Chip for 8-Bit MCU's	80-TQFP	19.01	16.29	14.45
PSD835G2V-90U	497-2018-ND	3V, 4M-Bit Config. Memory System on a Chip for 8-Bit MCU's	80-TQFP	17.76	15.23	13.50
PSD853F2-70J	497-2019-5-ND	5.5V, 1M-Bit Flash ISP Peripheral for 8-Bit MCU's	52-PLCC	18.02	16.67	12.62
PSD853F2-70M	497-2020-ND	5.5V, 1M-Bit Flash ISP Peripheral for 8-Bit MCU's	52-PQFP	17.12	15.84	11.99
PSD853F2-90J	497-2021-5-ND	5.5V, 1M-Bit Flash ISP Peripheral for 8-Bit MCU's	52-PLCC	17.16	15.88	12.02
PSD853F2-90JI	497-2022-5-ND	5.5V, 1M-Bit Flash ISP Peripheral for 8-Bit MCU's	52-PLCC	18.70	17.30	13.09
PSD853F2-90M	497-2023-ND	5.5V, 1M-Bit Flash ISP Peripheral for 8-Bit MCU's	52-PQFP	17.16	15.88	12.02
PSD853F2-90MI	497-2024-ND	5.5V, 1M-Bit Flash ISP Peripheral for 8-Bit MCU's	52-PQFP	18.70	17.30	13.09
PSD854F2-70J	497-2025-5-ND	5.5V, 2M-Bit Flash ISP Peripheral for 8-Bit MCU's	52-PLCC	18.74	17.34	13.12
PSD854F2-70M	497-2026-ND	5.5V, 2M-Bit Flash ISP Peripheral for 8-Bit MCU's	52-PQFP	18.74	17.34	13.12
PSD854F2-90J	497-2027-5-ND	5.5V, 2M-Bit Flash ISP Peripheral for 8-Bit MCU's	52-PLCC	17.86	16.53	12.51
PSD854F2-90JI	497-2028-5-ND	5.5V, 2M-Bit Flash ISP Peripheral for 8-Bit MCU's	52-PLCC	19.46	18.01	13.63
PSD854F2-90M	497-2029-ND	5.5V, 2M-Bit Flash ISP Peripheral for 8-Bit MCU's	52-PQFP	17.86	16.53	12.51
PSD854F2-90MI	497-2030-ND	5.5V, 2M-Bit Flash ISP Peripheral for 8-Bit MCU's	52-PQFP	19.46	18.01	13.63
PSD854F2V-12JI	497-2031-5-ND	3.6V, 2M-Bit Flash ISP Peripheral for 8-Bit MCU's	52-PLCC	18.04	15.47	13.75
PSD854F2V-12MI	497-2032-ND	3.6V, 2M-Bit Flash ISP Peripheral for 8-Bit MCU's	52-PQFP	18.04	15.47	13.72
PSD854F2V-90J	497-2033-5-ND	3.6V, 2M-Bit Flash ISP Peripheral for 8-Bit MCU's	52-PLCC	18.92	17.51	13.25
PSD854F2V-90M	497-2034-ND	3.6V, 2M-Bit Flash ISP Peripheral for 8-Bit MCU's	52-PQFP	18.92	17.51	13.25
PSD4235G2-70U	497-1967-ND	5.5V, 4M-Bit Flash ISP Peripheral for 16-Bit MCU's	80-TQFP	18.03	15.45	13.70
PSD4235G2-90U	497-1968-ND	5.5V, 4M-Bit Flash ISP Peripheral for 16-Bit MCU's	80-TQFP	19.62	18.15	13.74
PSD4235G2-90UI	497-1969-ND	5.5V, 4M-Bit Flash ISP Peripheral for 16-Bit MCU's	80-TQFP	18.73	16.05	14.24
PSD4235G2V-12UI	497-1970-ND	3.6V, 4M-Bit Flash ISP Peripheral for 16-Bit MCU's	80-TQFP	19.85	17.01	15.09
PSD4235G2V-90U	497-1971-ND	3.6V, 4M-Bit Flash ISP Peripheral for 16-Bit MCU's	80-TQFP	18.20	15.60	13.84
PSD4256G6V-10UI	497-1972-ND	3.6V, 8M-Bit Flash ISP Peripheral for 16-Bit MCU's	80-TQFP	24.64	21.12	18.73
		SRAM				
M4T28-BR12SH1	497-3686-5-ND	Timekeeper SNAPHAT for use with 28 and 44-Pin SOIC	—	5.24	4.56	3.40
M4T32-BR12SH1	497-3687-5-ND	Timekeeper SNAPHAT for use with 28 and 44-Pin SOIC	—	6.37	5.82	4.60
M4T32-BR12SH6	497-3688-5-ND	Timekeeper SNAPHAT for use with 28 and 44-Pin SOIC	—	7.36	6.72	5.32
M4Z28-BR00SH1	497-3689-5-ND	ZEROPOWER® SNAPHAT Battery for 28-Pin SOIC	—	4.59	4.00	2.98
M4Z32-BR00SH1	497-3690-5-ND	ZEROPOWER® SNAPHAT Battery for 28-Pin SOIC	—	7.13	6.51	5.18
M41T11M6E	497-2813-5-ND	2V-5.5V, 512-Bit Timekeeper SRAM	8-SOIC	2.70	2.35	1.75
M41T11MH6	497-2814-5-ND	2V-5.5V, 512-Bit Timekeeper SRAM	28-SOIC	5.10	4.45	3.31
M41T56M6E	497-2818-5-ND	5V, 512-Bit Serial Timekeeper SRAM	8-SOIC	2.70	2.35	1.75
M41T56MH6	497-2819-5-ND	5V, 512-Bit Serial Timekeeper SRAM	28-SOIC	5.40	4.70	3.50
M41T94MH6	497-2823-5-ND	2.7V-5.5V, 512-Bit Serial RTC SRAM	28-SOIC	5.98	5.46	4.32
M41T94MQ6E	497-3684-1-ND	2.7V-5.5V, 512-Bit Serial RTC SRAM	16-SOIC	4.19	3.65	2.72
M41T94MQ6E	497-3684-2-ND	2.7V-5.5V, 512-Bit Serial RTC SRAM	16-SOIC		2062.00/1,000	
M48T02-70PC1	497-2827-5-ND	5V, 16K-Bit Timekeeper SRAM	24-Dip	15.86	14.67	11.11
M48T02-150PC1	497-2825-5-ND	5V, 16K-Bit Timekeeper SRAM	24-Dip	16.00	14.80	11.20
M48T02-200PC1	497-2826-5-ND	5V, 16K-Bit Timekeeper SRAM	24-Dip	16.00	14.80	11.20
M48T08-100PC1	497-2828-5-ND	5V, 64K-Bit Timekeeper SRAM	28-Dip	17.50	15.00	13.30
M48T08-150PC1	497-2829-5-ND	5V, 64K-Bit Timekeeper SRAM	28-Dip	17.50	15.00	13.30
M48T08Y-10MH1	497-2830-5-ND	5V, 64K-Bit Timekeeper SRAM	28-SOIC	15.30	14.16	10.71
M48T12-70PC1	497-2833-5-ND	5V, 16K-Bit Timekeeper SRAM	24-Dip	16.00	14.80	11.20
M48T12-150PC1	497-2831-5-ND	5V, 16K-Bit Timekeeper SRAM	24-Dip	16.00	14.80	11.20
M48T12-200PC1	497-2832-5-ND	5V, 16K-Bit Timekeeper SRAM	24-Dip	16.00	14.80	11.20
M48T18-100PC1	497-2837-5-ND	5V, 64K-Bit Timekeeper SRAM	28-Dip	17.50	15.00	13.30
M48T18-150PC1	497-2838-5-ND	5V, 64K-Bit Timekeeper SRAM	28-Dip	17.50	15.00	13.30
M48T35-70PC1	497-2845-5-ND	5V, 256K-Bit Timekeeper SRAM	28-Dip	17.50	15.00	13.30
M48T35AV-10MH1	497-2846-5-ND	3.3V, 256K-Bit Timekeeper SRAM	28-SOIC	14.90	13.79	10.43
M48T35AV-10MH6	497-2847-5-ND	3.3V, 256K-Bit Timekeeper SRAM	28-SOIC	17.88	16.54	12.52
M48T35AV-10PC1	497-2848-5-ND	3.3V, 256K-Bit Timekeeper SRAM	28-Dip	17.30	16.01	12.11
M48T35Y-70MH1	497-2849-5-ND	5V, 256K-Bit Timekeeper SRAM	28-SOIC	16.00	14.80	11.20
M48T35Y-70MH6	497-2850-5-ND	5V, 256K-Bit Timekeeper SRAM	28-SOIC	17.88	16.54	12.52
M48T35Y-70PC1	497-2851-5-ND	5V, 256K-Bit Timekeeper SRAM	28-Dip	17.50	15.00	13.30
M48T37V-10MH1	497-2852-5-ND	3.3V, 256K-Bit Timekeeper SRAM	44-SOIC	15.90	14.71	11.13
M48T37V-10MH6	497-2853-5-ND	3.3V, 256K-Bit Timekeeper SRAM	44-SOIC	18.90	17.49	13.23
M48T37Y-70MH1	497-2854-5-ND	5V, 256K-Bit Timekeeper SRAM	44-SOIC	15.90	14.71	11.13
M48T37Y-70MH6	497-2855-5-ND	5V, 256K-Bit Timekeeper SRAM	44-SOIC	18.90	17.49	13.23
M48T58-70PC1	497-2857-5-ND	5V, 64K-Bit Timekeeper SRAM	28-Dip	18.00	16.65	12.60
M48T58Y-70MH1	497-2858-5-ND	5V, 64K-Bit Timekeeper SRAM	28-SOIC	10.20	9.44	7.14
M48T58Y-70PC1	497-2859-5-ND	5V, 64K-Bit Timekeeper SRAM	28-Dip	18.00	16.65	12.60
M48T59Y-70MH1	497-2860-5-ND	5V, 64K-Bit Timekeeper SRAM	28-SOIC	11.90	11.01	8.33
M48T59Y-70MH6	497-2861-5-ND	5V, 64K-Bit Timekeeper SRAM	28-SOIC	14.28	13.21	10.00
M48T59Y-70PC1	497-2862-5-ND	5V, 64K-Bit Timekeeper SRAM	28-Dip	17.50	15.00	13.30
M48T128Y-70PM1	497-2834-5-ND	5V, 1M-Bit Timekeeper SRAM	32-Dip	31.50	27.00	23.94
M48T129V-85PM1	497-2835-5-ND	3.3V, 1M-Bit Timekeeper SRAM	32-Dip	35.00	30.00	26.60
M48T129Y-70PM1	497-2836-5-ND	5V, 1M-Bit Timekeeper SRAM	32-Dip	31.50	27.00	23.94
M48T512Y-70PM1	497-2856-5-ND	5V, 4M-Bit Timekeeper SRAM	32-Dip	70.00	60.00	53.20
M48Z02-70PC1	497-2868-5-ND	5V, 16K-Bit Zeropower SRAM	24-Dip	10.35	9.45	7.47
M48Z02-150PC1	497-2865-5-ND	5V, 16K-Bit Zeropower SRAM	24-Dip	10.35	9.45	7.47
M48Z02-200PC1	497-2867-5-ND	5V, 16K-Bit Zeropower SRAM	24-Dip	10.35	9.45	7.47
M48Z08-100PC1	497-2869-5-ND	5V, 64K-Bit Zeropower SRAM	28-Dip	14.08	13.03	9.86
M48Z12-70PC1	497-2872-5-ND	5V, 16K-Bit Zeropower SRAM	24-Dip	10.00	9.25	7.00
M48Z12-150PC1	497-2870-5-ND	5V, 16K-Bit Zeropower SRAM	24-Dip	11.06	10.11	7.99
M48Z12-200PC1	497-2871-5-ND	5V, 16K-Bit Zeropower SRAM	24-Dip	10.49	9.58	7.57
M48Z18-100PC1	497-2877-5-ND	5V, 64K-Bit Zeropower SRAM	28-Dip	14.08	13.03	9.86
M48Z32V-35MT1	497-2878-5-ND	3.3V, 256K-Bit Zeropower SRAM	44-SOIC	10.35	9.45	7.47
M48Z35-70PC1	497-2879-5-ND	5V, 256K-Bit Zeropower SRAM	28-Dip	17.38	16.08	12.17
M48Z35AV-10MH1	497-2880-5-ND	3.3V, 256K-Bit Zeropower SRAM	28-SOIC	11.90	11.01	8.33
M48Z35AV-10PC1	497-2882-5-ND	3.3V, 256K-Bit Zeropower SRAM	28-Dip	12.80	11.84	8.96
M48Z35Y-70MH1	497-2883-5-ND	5V, 256K-Bit Zeropower SRAM	28-SOIC	12.10	11.20	8.47
M48Z35Y-70MH6	497-2884-5-ND	5V, 256K-Bit Zeropower SRAM	28-SOIC	14.28	13.21	10.00
M48Z35Y-70PC1	497-2885-5-ND	5V, 256K-Bit Zeropower SRAM	28-Dip	17.38	16.08	12.17
M48Z58-70PC1	497-2888-5-ND	5V, 64K-Bit Zeropower SRAM	28-Dip	11.56	10.70	8.10
M48Z58Y-70PC1	497-3685-5-ND	5.5V, 64K-Bit Zeropower SRAM	28-Dip	11.56	10.70	8.10

(Continued)

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STMicroelectronics — MEMORY (Continued)

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
M48Z128-70PM1	497-2873-5-ND	5V, 1M-Bit Zeropower SRAM	32-Dip	22.75	19.50	17.29
M48Z128Y-70PM1	497-2874-5-ND	5V, 1M-Bit Zeropower SRAM	32-Dip	22.75	19.50	17.29
M48Z128Y-85PM1	497-2875-5-ND	5V, 1M-Bit Zeropower SRAM	32-Dip	26.25	22.50	19.95
M48Z129Y-85PM1	497-2876-5-ND	3.3V, 1M-Bit Zeropower SRAM	32-Dip	25.03	21.45	19.02
M48Z512A-70PM1	497-2886-5-ND	5V, 4M-Bit Zeropower SRAM	32-Dip	61.25	52.50	46.55
M48Z512AY-70PM1	497-2887-5-ND	5V, 4M-Bit Zeropower SRAM	32-Dip	61.25	52.50	46.55
M68AF511AL55NC6T	497-1734-1-ND	4M-Bit (512Kx8), 5V Async. SRAM	32-TSOP	10.21	9.33	7.38
M68AF511AL55NC6T	497-1734-2-ND	4M-Bit (512Kx8), 5V Async. SRAM	32-TSOP		5661.00/1,000	
M68AW031AM70N6T	497-1737-1-ND	256K-Bit (32Kx8), 3V Async. SRAM	28-TSOP	2.01	1.68	1.41
M68AW031AM70N6T	497-1737-2-ND	256K-Bit (32Kx8), 3V Async. SRAM	28-TSOP		904.50/1,000	
M68AW064FL70ZB6	497-1738-ND	1M-Bit (64Kx16), 3V Async. SRAM	48-TFBGA	4.05	3.53	2.63
M68AW128ML70ZB6	497-1739-ND	2M-Bit (128Kx16), 3V Async. SRAM	48-TFBGA	3.24	2.82	2.10
M68AW256ML70ND6T	497-1740-1-ND	4M-Bit (256Kx16), 3V Async. SRAM	44-TSOP	4.56	3.98	2.96
M68AW256ML70ND6T	497-1740-2-ND	4M-Bit (256Kx16), 3V Async. SRAM	44-TSOP		2247.70/1,000	
M68AW256ML70ZB6	497-1741-ND	4M-Bit (256Kx16), 3V Async. SRAM	48-TFBGA	4.56	3.98	2.96
M68AW512ML70ND6	497-1744-ND	8M-Bit (512Kx16), 3V Async. SRAM	44-TSOP	8.60	7.86	6.21

STMicroelectronics — NVRAM

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
M40SZ100WMQ6E	497-2798-5-ND	3V, NVRAM Supervisor for LPSRAM	16-SOIC	5.29	4.83	3.82
M40Z111MH6	497-2799-5-ND	5V, NVRAM Supervisor for LPSRAM	28-SOIC	9.20	8.40	6.64
M40Z300WMH6	497-2800-5-ND	3V, NVRAM Supervisor for LPSRAM	28-SOIC	10.00	9.25	7.00
M40Z300WMQ6E	497-2801-5-ND	3V, NVRAM Supervisor for LPSRAM	16-SOIC	6.63	6.06	4.79
M41ST84WMQ6E	497-2802-5-ND	3V, NVRAM 512-Bit Serial RTC	16-SOIC	4.19	3.65	2.72
M41ST84YMQ6E	497-2803-5-ND	5V, NVRAM 512-Bit Serial RTC	16-SOIC	4.19	3.65	2.72
M41ST85WMH6	497-2804-5-ND	3V, NVRAM 512-Bit Serial RTC	28-SOIC	7.82	7.14	5.65
M41ST85WMX6	497-2805-5-ND	3V, NVRAM 512-Bit Serial RTC	28-SOIC	6.44	5.88	4.65
M41ST85YMH6	497-2806-5-ND	5V, NVRAM 512-Bit Serial RTC	28-SOIC	8.74	7.98	6.31
M41ST85YMX6	497-2807-5-ND	5V, NVRAM 512-Bit Serial RTC	28-SOIC	6.44	5.88	4.65
M41ST87YMX6	497-2808-5-ND	5V, NVRAM 1280-Bit Serial RTC	28-SOIC	7.82	7.14	5.65
M41ST95WMX6	497-2809-5-ND	3V, NVRAM 512-Bit Serial RTC	28-SOIC	6.90	6.30	4.98
M41T00M606E	497-2810-5-ND	Serial Access Timekeeper	8-SOIC	2.70	2.25	1.89
M41T0DS6E	497-2811-5-ND	2V-5.5V, Serial RTC	8-TSSOP	1.95	1.63	1.37
M41T0M6E	497-2812-5-ND	2V-5.5V, Serial RTC	8-SOIC	1.80	1.50	1.26
M41T60Q6F	497-3906-1-ND	1.3V-3.6V, Serial RTC ***NEW!***	16-QFN	1.77	1.48	1.24
M41T60Q6F	497-3906-2-ND	1.3V-3.6V, Serial RTC ***NEW!***	16-QFN		2301.00/3,000	
M41T62Q6F	497-3907-1-ND	1.3V-3.6V, Serial RTC w/Alarm ***NEW!***	16-QFN	2.04	1.70	1.43
M41T62Q6F	497-3907-2-ND	1.3V-3.6V, Serial RTC w/Alarm ***NEW!***	16-QFN		2652.00/3,000	
M41T65Q6F	497-3908-1-ND	1.3V-3.6V, Serial RTC w/Alarm ***NEW!***	16-QFN	2.04	1.70	1.43
M41T65Q6F	497-3908-2-ND	1.3V-3.6V, Serial RTC w/Alarm ***NEW!***	16-QFN		2652.00/3,000	
M41T80M6E	497-2820-5-ND	2V-5.5V, Serial RTC	8-SOIC	2.25	1.88	1.58
M41T81M6E	497-2821-5-ND	2V-5.5V, Serial RTC	8-SOIC	2.40	2.00	1.68
M41T81MX6	497-2822-5-ND	2V-5.5V, Serial RTC	28-SOIC	4.59	4.00	2.98
M41T256YMH7	497-2815-5-ND	5V, 256K-Bit Serial RTC	44-SOIC	11.04	10.08	7.97
M41T256YMT7	497-2816-5-ND	5V, 256K-Bit Serial RTC	44-SOIC	10.35	9.45	7.47
M41T315V-85MH6	497-2817-5-ND	3.3V, 85nS Phantom RTC Supervisor	28-SOIC	11.00	10.18	7.70
M48T86MH1	497-2863-5-ND	5V, PC RTC	28-SOIC	5.40	4.70	3.50
M48T86PC1	497-2864-5-ND	5V, PC RTC	24-Dip	6.33	5.78	4.57

STMicroelectronics — POWER MANAGEMENT

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
TU931T	497-2797-5-ND	400V, 10A NPN Darlington Driver	TO-220	2.81	2.34	1.97
TDT3-4BT6-TR	497-2455-1-ND	Quad Digital Termination	20-TSSOP	3.21	2.80	2.09
TDT3-4BT6-TR	497-2455-2-ND	Quad Digital Termination	20-TSSOP		3807.50/2,500	
TMLVT3V3	497-2496-1-ND	Low Voltage TRANSIL™	SMB	.72	.58	.44
TMLVT3V3	497-2496-2-ND	Low Voltage TRANSIL™	SMB		570.00/2,500	
TSB025MSP13TR	497-3563-1-ND	High Volt. Ignition Coil Driver	10-SOIC	5.94	5.17	3.85
TSB025MSP13TR	497-3563-2-ND	High Volt. Ignition Coil Driver	10-SOIC		1848.00/600	
TSB921ZVFI	497-2716-5-ND	High Volt. Ignition Coil Driver	Isowatt-220	6.08	5.29	3.94
TSIPER12ADIP	497-3377-5-ND	LP Off Line SMPS Primary Switcher	8-Dip	2.22	1.85	1.56
TSIPER12AS	497-3102-ND	LP Off Line SMPS Primary Switcher	8-SOIC	2.01	1.68	1.41
TSIPER22ADIP	497-3286-5-ND	LP Off Line SMPS Primary Switcher	8-Dip	2.73	2.28	1.92
TSIPER22AS	497-3287-5-ND	LP Off Line SMPS Primary Switcher	8-SOIC	2.40	2.00	1.68
TSIPER50A	497-2713-5-ND	700V, 1.5A, Driver	Pentawatt HV	3.51	3.06	2.28
TSIPER50A(022Y)	497-2677-5-ND	700V, 1.5A, Driver	Pentawatt HV	3.65	3.18	2.37
TSIPER50SP	497-2715-5-ND	620V, 1.5A, Driver	PowerSO-10	3.24	2.82	2.10
TSIPER53DIP	497-3288-5-ND	Off Line Primary Switch	8-Dip	2.97	2.59	2.59
TSIPER53SP	497-3289-5-ND	Off Line Primary Switch	PowerSO-10	3.78	3.29	3.29
TSIPER100	497-2714-5-ND	620V, 3A, Driver	Pentawatt HV	4.32	3.76	2.80
TSIPER100(022Y)	497-3285-5-ND	620V, 3A, Driver	Pentawatt HV	4.46	3.88	2.89
TSIPER100A	497-2712-5-ND	700V, 3A, Driver	Pentawatt HV	4.46	3.88	2.89
TSIPER100A(022Y)	497-2656-5-ND	700V, 3A, Driver	Pentawatt HV	4.46	3.88	2.89
TSIPER100SP13TR	497-3284-1-ND	620V, 3A, Driver	PowerSO-10	4.59	4.00	2.98
TSIPER100SP13TR	497-3284-2-ND	620V, 3A, Driver	PowerSO-10		1428.00/600	
TSN05N	497-3088-5-ND	HS, Smart Power SSR	5-Pentawatt	3.27	2.85	2.12
TSN21(012Y)	497-3290-5-ND	7A, ISO HS Smart Power SSR	Pentawatt	4.86	4.23	3.15
TSN330SP	497-2705-5-ND	0.7A, Quad HS Smart Pwr. SSR	PowerSO-10	6.62	6.05	4.79
TSN340SP	497-2706-5-ND	0.7A, Quad HS Smart Pwr. SSR	PowerSO-10	6.62	6.05	4.79
TSN450P13TR	497-4493-1-ND	3-Ch. High Side SSR ***NEW!***	20-Power SOIC	6.44	5.88	4.65
TSN450P13TR	497-4493-2-ND	3-Ch. High Side SSR ***NEW!***	20-Power SOIC		2184.00/600	
TSN610SP	497-2660-5-ND	45A, Single Ch. HS SSR	PowerSO-10	6.10	5.57	4.40
TSN610SP13TR	497-3291-1-ND	45A, Single Ch. HS SSR	PowerSO-10	6.10	5.57	4.40
TSN610SP13TR	497-3291-2-ND	45A, Single Ch. HS SSR	PowerSO-10		2067.00/600	
TSN750	497-2707-5-ND	6A, High Side Driver	Pentawatt	2.94	2.45	2.06
TSN750-B5	497-2701-5-ND	6A, High Side Driver	P2-PAK	2.70	2.35	1.75
TSN750PT	497-3292-5-ND	6A, High Side Driver	P-PAK	2.88	2.40	2.02
TSN750S	497-3293-5-ND	6A, High Side Driver	8-SOIC	2.70	2.35	1.75
TSN800PT	497-3294-5-ND	0.7A, High Side Driver	P-PAK	2.81	2.45	1.82
TSN800S13TR	497-3295-1-ND	0.7A, High Side Driver	8-SOIC	2.75	2.40	1.79
TSN800S13TR	497-3295-2-ND	0.7A, High Side Driver	8-SOIC		3265.00/2,500	
TSN808-E	497-4494-5-ND	Octal Channel High Side Driver ***NEW!***	36-Power SOIC	8.74	7.98	6.31
TSN808CM	497-4495-5-ND	Octal Channel High Side Driver ***NEW!***	36-Power SOIC	5.98	5.46	4.32
TSN808TR-E	497-4496-1-ND	Octal Channel High Side Driver ***NEW!***	36-Power SOIC	8.74	7.98	6.31
TSN808TR-E	497-4496-2-ND	Octal Channel High Side Driver ***NEW!***	36-Power SOIC		2964.00/600	

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
VN820	497-3296-5-ND	9A, High Side Driver	Pentawatt	3.08	2.68	2.00
VN820-B513TR	497-3297-1-ND	9A, High Side Driver	P2-PAK	3.13	2.73	2.03
VN820-B513TR	497-3297-2-ND	9A, High Side Driver	P2-PAK		1543.00/1,000	
VN820SP13TR	497-3298-1-ND	9A, High Side Driver	PowerSO-10	3.48	3.04	2.26
VN820SP13TR	497-3298-2-ND	9A, High Side Driver	PowerSO-10		1083.60/600	
VN920	497-2679-5-ND	30A, Single Ch. HS SSR	Pentawatt	5.00	4.35	3.24
VN920-B5	497-2678-5-ND	30A, Single Ch. HS SSR	P2-PAK	5.08	4.42	3.29
VN920SP13TR	497-2506-1-ND	30A, Single Ch. HS SSR	PowerSO-10	5.21	4.54	3.38
VN920SP13TR	497-2506-2-ND	30A, Single Ch. HS SSR	PowerSO-10		1621.20/600	
VNB20N07	497-2794-5-ND	70V, 20A, Fully Auto Protected Power Mosfet	D2-PAK	3.43	2.99	2.23
VNB20N0713TR	497-2794-1-ND	70V, 20A, Fully Auto Protected Power Mosfet	D2-PAK	3.43	2.99	2.23
VNB20N0713TR	497-2794-2-ND	70V, 20A, Fully Auto Protected Power Mosfet	D2-PAK		1689.00/1,000	
VNB35NV04	497-2671-5-ND	40V, 30A, Fully Protected Pwr Mosfet	D2-PAK	6.21	5.41	4.03
VND05B(012Y)	497-3300-5-ND	2-Ch., HS Smart Power SSR	Heptawatt	3.56	3.11	2.31
VND05BSP	497-3089-5-ND	ISO HS Smart Power SSR	PowerSO-10	3.73	3.25	2.42
VND05BSP13TR	497-3299-1-ND	ISO HS Smart Power SSR	PowerSO-10	3.56	3.11	2.31
VND05BSP13TR	497-3299-2-ND	ISO HS Smart Power SSR	PowerSO-10		1108.80/600	
VND3NV0413TR	497-3301-1-ND	40V, 3.5A, Fully Auto Protected Power Mosfet	D-PAK	1.84	1.60	1.23
VND3NV0413TR	497-3301-2-ND	40V, 3.5A, Fully Auto Protected Power Mosfet	D-PAK		1630.00/2,500	
VND5N07	497-2481-5-ND	70V, 5A, Fully Auto Protected Power Mosfet	D-PAK	1.80	1.50	1.26
VND7N0413TR	497-3304-1-ND	42V, 7A, Fully Auto Protected Power Mosfet	D-PAK	1.59	1.33	1.12
VND7N0413TR	497-3304-2-ND	42V, 7A, Fully Auto Protected Power Mosfet	D-PAK		1722.50/2,500	
VND7NV04	497-2669-5-ND	40V, 6A, Fully Auto Protected Power Mosfet	D-PAK	1.59	1.33	1.12
VND10N06	497-2767-5-ND	60V, 10A, Fully Auto Protected Power Mosfet	D-PAK	1.74	1.45	1.22
VND14NV04	497-2674-5-ND	40V, 12A, Fully Auto Protected Power Mosfet	D-PAK	2.25	1.88	1.58
VND600	497-4497-5-ND	2-Ch. High Side SSR ***NEW!***	16-SOIC	5.94	5.17	3.85
VND60013TR	497-4498-1-ND	2-Ch. High Side SSR ***NEW!***	16-SOIC	5.94	5.17	3.85
VND60013TR	497-4498-2-ND	2-Ch. High Side SSR ***NEW!***	16-SOIC		2926.00/1,000	
VND600SP	497-2711-5-ND	36V, 25A, Double Ch. HS SSR	PowerSO-10	5.87	5.36	4.24
VND600SP13TR	497-3303-1-ND	36V, 25A, Double Ch. HS SSR	PowerSO-10	5.87	5.36	4.24
VND600SP13TR	497-3303-2-ND	36V, 25A, Double Ch. HS SSR	PowerSO-10		1989.00/600	
VND810SP	497-3305-5-ND	36V, 3.5A, Double Ch. HS Driver	PowerSO-10	5.81	5.06	3.77
VND830ASP13TR	497-4499-1-ND	2-Ch. High Side SSR ***NEW!***	PowerSO-10	3.56	3.11	2.31
VND830ASP13TR	497-4499-2-ND	2-Ch. High Side SSR ***NEW!***	PowerSO-10		1108.80/600	
VND830SP	497-2709-5-ND	36V, 6A, Double Ch. HS Driver	PowerSO-10	3.78	3.29	2.45
VND830SP13TR	497-3306-1-ND	36V, 6A, Double Ch. HS Driver	PowerSO-10	3.78	3.29	2.45
VND830SP13TR	497-3306-2-ND	36V, 6A, Double Ch. HS Driver	PowerSO-10		1176.00/600	
VND920	497-2708-5-ND	36V, 35A, Double Ch. High Side SSR	28-SOIC	5.75	5.25	4.15
VND92013TR	497-3307-1-ND	36V, 35A, Double Ch. High Side SSR	28-SOIC	5.75	5.25	4.15
VND92013TR	497-3307-2-ND	36V, 35A, Double Ch. High Side SSR	28-SOIC		3188.00/1,000	
VND5N0713TR	497-2481-1-ND	70V, 5A, Fully Auto Protected Power Mosfet	D-PAK	1.80	1.50	1.26
VND5N0713TR	497-2481-2-ND	70V, 5A, Fully Auto Protected Power Mosfet	D-PAK		1950.00/2,500	
VNH2SP30	497-4500-5-ND	H-Bridge Motor Driver ***NEW!***	—	9.55	8.72	6.89
VNH2SP30TR-E	497-4501-1-ND	H-Bridge Motor Driver ***NEW!***	—	9.55	8.72	6.89
VNH2SP30TR-E	497-4501-2-ND	H-Bridge Motor Driver ***NEW!***	—		5291.00/1,000	
VNK5N07FM	497-3308-5-ND	70V, 5A, Fully Auto Protected Power Mosfet	SOT-82-FM	1.80	1.50	1.26
VNN1NV0413TR	497-2517-1-ND	40V, 1.7A, Fully Auto Protected Power Mosfet	SOT-223	1.05	.91	.70
VNN1NV0413TR	497-2517-2-ND	40V, 1.7A, Fully Auto Protected Power Mosfet	SOT-223		406.00/1,000	
VNN3NV0413TR	497-3309-1-ND	40V, 3.5A, Fully Auto Protected Power Mosfet	SOT-223	1.50	1.30	1.00
VNN3NV0413TR	497-3309-2-ND	40V, 3.5A, Fully Auto Protected Power Mosfet	SOT-223		580.00/1,000	
VNN7NV0413TR	497-2519-1-ND	40V, 6A, Fully Auto Protected Power Mosfet	SOT-223	1.53	1.28	1.08
VNN7NV0413TR	497-2519-2-ND	40V, 6A, Fully Auto Protected Power Mosfet	SOT-223		689.00/1,000	
VNP5N07	497-2791-5-ND	70V, 5A, Fully Auto Protected Power Mosfet	TO-220	1.80	1.50	1.26
VNP5N07FI	497-3313-5-ND	70V, 5A, Fully Auto Protected Power Mosfet	Isowatt-220	1.89	1.58	1.33
VNP10N06	497-3310-5-ND	60V, 10A, Fully Auto Protected Power Mosfet	TO-220	1.62	1.35	1.14
VNP10N07	497-2795-5-ND	70V, 10A, Fully Auto Protected Power Mosfet	TO-220	2.37	1.98	1.66
VNP10N07FI	497-2796-5-ND	70V, 10A, Fully Auto Protected Power Mosfet	Isowatt-220	2.46	2.05	1.73
VNP14N04	497-2661-5-ND	42V, 14A, Fully Auto Protected Power Mosfet	TO-220	2.37	1.98	1.66
VNP20N07	497-2793-5-ND	70V, 20A, Fully Auto Protected Power Mosfet	TO-220	3.29	2.87	2.14
VNP28N04	497-2667-5-ND	42V, 28A, Fully Auto Protected Power Mosfet	TO-220	3.46	3.01	2.24
VNP35N07	497-2792-5-ND	70V, 35A, Fully Auto Protected Power Mosfet	TO-220	5.00	4.35	3.24
VNP35NV04	497-3311-5-ND	40V, 30A, Fully Auto Protected Power Mosfet	TO-220	6.13	5.34	3.98
VNP49N04	497-2649-5-ND	42V, 49A, Fully Auto Protected Power Mosfet	Isowatt-220	4.59	4.00	2.98
VNP49N04FI	497-3312-5-ND	42V, 49A, Fully Auto Protected Power Mosfet	Isowatt-220	5.18	4.52	3.36
VNQ600	497-3314-5-ND	36V, 25A, Quad Ch. HS SSR	28-SOIC	7.59	6.93	5.48
VNQ660SP	497-2700-5-ND	36V, 6A, Quad Ch. HS SSR	PowerSO-10	6.56	5.99	4.74
VNQ660SP13TR	497-3315-1-ND	36V, 6A, Quad Ch. HS SSR	PowerSO-10	6.56	5.99	4.74
VNQ660SP13TR	497-3315-2-ND	36V, 6A, Quad Ch. HS SSR	PowerSO-10		2223.00/600	
VNQ810	497-2703-5-ND	36V, 3.5A, Quad Ch. High Side Driver	28-SOIC	6.62	5.76	4.29
VNQ81013TR	497-3316-1-ND	36V, 3.5A, Quad Ch. High Side Driver	28-SOIC	6.62	5.76	4.29
VNQ81013TR	497-3316-2-ND	36V, 3.5A, Quad Ch. High Side Driver	28-SOIC		3259.00/1,000	
VNQ830	497-2702-5-ND	36V, 6A, Quad Ch. High Side Driver	28-SOIC	6.65	6.07	4.80
VNQ860	497-2704-5-ND	36V, .25A, Quad Ch. High Side Driver	20-SOIC	5.56	4.85	3.61
VNQ860SP	497-4502-5-ND	36V, .25A, Quad Ch. High Side Driver ***NEW!***	PowerSO-10	6.10	5.32	3.96

(Continued)

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

STMicroelectronics — POWER MANAGEMENT (Continued)

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
VNS1NV04	497-2672-5-ND	40V, 1.7A, Fully Auto Protected Power Mosfet, Dual N-Ch	8-SOIC	1.13	.98	.75
VNS1NV04D	497-2673-5-ND	40V, 1.7A, Fully Auto Protected Power Mosfet, Dual N-Ch	8-SOIC	1.56	1.30	1.10
VNS3NV04D	497-3318-5-ND	40V, 3.5A, Fully Auto Protected Power Mosfet, Dual N-Ch	8-SOIC	1.71	1.43	1.20
VNS3NV04D13TR	497-3318-1-ND	40V, 3.5A, Fully Auto Protected Power Mosfet, Dual N-Ch	8-SOIC	1.71	1.43	1.20
VNS3NV04D13TR	497-3318-2-ND	40V, 3.5A, Fully Auto Protected Power Mosfet, Dual N-Ch	8-SOIC		1852.50/2,500	
VNS14NV04	497-3317-5-ND	40V, 12A, Fully Auto Protected Power Mosfet	8-SOIC	2.28	1.90	1.60
VNS14NV0413TR	497-3317-1-ND	40V, 12A, Fully Auto Protected Power Mosfet ***NEW!***	8-SOIC	2.28	1.90	1.60
VNS14NV0413TR	497-3317-2-ND	40V, 12A, Fully Auto Protected Power Mosfet ***NEW!***	8-SOIC		2470.00/2,500	
VNV35N07	497-3319-5-ND	70V, 35A, Fully Auto Protected Power Mosfet	PowerSO-10	5.37	4.68	3.49
VNW50N04	497-3320-5-ND	42V, 50A, Fully Auto Protected Power Mosfet	TO-247	8.79	8.03	6.35

FAIRCHILD SEMICONDUCTOR — 7400 SERIES TTL

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
DM74125N-ND	Tri-State Quad Buffer	14-Dip	3.05	2.40	1.94

FAIRCHILD SEMICONDUCTOR — 74LS00 SERIES TTL

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
DM74LS151N-ND	8-Channel Multiplexer	16-Dip	.72	.54	.41
DM74LS157N-ND	Quad 2-Input Multiplexer	16-Dip	.72	.54	.41
DM74LS374WM-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.77	.58	.44
DM74LS377N-ND	8-Bit D-Type Flip-Flop	20-Dip	.97	.73	.55

FAIRCHILD SEMICONDUCTOR — 74S00 SERIES SCHOTTKY TTL

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
DM74S51N-ND	Dual 2-Input AND-OR-INV Gate	14-Dip	.82	.62	.46
DM74S64N-ND	AND-OR-INV Gate	14-Dip	1.17	.96	.81
DM74S253N-ND	Tri-State Dual 4-Input Multiplexer (74S153N)	16-Dip	1.31	1.08	.91
DM74S941N-ND	Tri-State Octal Buffer	20-Dip	3.64	2.94	2.38

FAIRCHILD SEMICONDUCTOR — 74ALS SERIES

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
DM74ALS04BM-ND	Hex Inverter	14-SOIC	.54	.44	.33
DM74ALS04BN-ND	Hex Inverter	14-Dip	.53	.40	.30
DM74ALS08N-ND	Quad 2-Input AND Gate	14-Dip	.54	.44	.33
DM74ALS10AM-ND	Triple 3-Input NAND Gate	14-SOIC	.50	.40	.30
DM74ALS20AN-ND	Dual 4-Input NAND Gate	14-Dip	.62	.47	.36
DM74ALS30AN-ND	8-Input NAND Gate	14-Dip	.67	.51	.38
DM74ALS32N-ND	Quad 2-Input OR Gate	14-Dip	.53	.40	.30
DM74ALS74AN-ND	DL D-Type Pos.-Edge-Triggered F/F w/Preset and Clear	14-Dip	.67	.51	.38
DM74ALS138M-ND	Expandable 3/8 Decoder	16-SOIC	.67	.51	.38
DM74ALS174N-ND	Hex D-Type Flip-Flop	16-Dip	.86	.65	.49
DM74ALS244AN-ND	Tri-State Octal Line Driver	20-Dip	.76	.63	.51
DM74ALS244AWM-ND	Tri-State Octal Line Driver	20-SOIC	.86	.65	.49
DM74ALS245AWM-ND	Tri-State Octal Bus Transceiver	20-SOIC	.86	.65	.49
DM74ALS257M-ND	Tri-State Quad 2/1 Multiplexer	16-SOIC	.67	.51	.38
DM74ALS258N-ND	Tri-State Quad 2/1 Multiplexer	16-Dip	.82	.62	.46
DM74ALS373N-ND	Octal D-Type Latch	20-Dip	.76	.63	.51
DM74ALS540AN-ND	Octal Inverting Buffer and Line Driver	20-Dip	.97	.81	.65
DM74ALS541N-ND	Octal Buffer/Line Driver with Tri-State Output	20-Dip	.97	.81	.65
DM74ALS541WM-ND	Octal Buffer/Line Driver with Tri-State Output	20-SOIC	.86	.72	.58
DM74ALS574AN-ND	Octal D-Type Flip-Flop	20-Dip	.97	.81	.65
DM74ALS574AWM-ND	Octal D-Type Flip-Flop	20-SOIC	.86	.72	.58
DM74ALS646WM-ND	Tri-State Octal Bus Transceiver	24-SOIC	1.95	1.56	1.17
DM74ALS5245N-ND	Octal Bus Transceiver with Schmitt Trigger	20-Dip	1.37	1.14	.92

FAIRCHILD SEMICONDUCTOR — 74AS SERIES

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
DM74AS02N-ND	Quad 2-Input NOR Gate	14-Dip	.92	.76	.64
DM74AS10N-ND	Triple 3-Input NAND Gate	14-Dip	.79	.60	.45
DM74AS20N-ND	Dual 4-Input NAND Gate	14-Dip	.92	.76	.64
DM74AS30N-ND	8-Input NAND Gate	14-Dip	.73	.55	.41
DM74AS74N-ND	Dual D-Type Pos.-Edge-Triggered F/F w/Preset and Clear	14-Dip	.94	.71	.53
DM74AS158N-ND	Quad 2-Input Multiplexer, Inverting	16-Dip	1.38	1.15	.92
DM74AS258M-ND	Tri-State Quad 2/1 Multiplexer	16-SOIC	1.44	1.20	.96
DM74AS258N-ND	Tri-State Quad 2/1 Multiplexer	16-Dip	1.44	1.20	.96
DM74AS286M-ND	9-Bit Parity Generator/Checker	14-SOIC	1.35	1.08	.81
DM74AS286N-ND	9-Bit Parity Generator/Checker	14-Dip	1.40	1.17	.94
DM74AS648NT-ND	Octal Bus Transceiver	24-Dip .3"	5.40	4.32	3.36
DM74AS1000AM-ND	Quad 2-Input NAND Driver	14-SOIC	1.44	1.20	.96
DM74AS1032AN-ND	Quad 2-Input or Driver	14-Dip	1.35	1.13	.90
DM74AS1034AM-ND	Hex Non-Inverting Driver	14-SOIC	1.44	1.20	.96

FAIRCHILD SEMICONDUCTOR — 74LCX SERIES

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	10
74LCX08MTC-ND	Quad 2-Input AND Gate	14-TSSOP	.40	.33	.2
74LCX74MTC-ND	Dual D-Type Edge-Triggered Flip-Flop	14-TSSOP	.47	.38	.2
74LCX244MTC-ND	Tri-State Buffer/Line Driver	20-TSSOP	.48	.39	.2
74LCX245MTC-ND	Bi-Directional Octal Transceiver	20-TSSOP	.48	.39	.2
74LCX541WM-ND	Octal Buffer/Line Driver	20-SOIC	.62	.47	.3
74LCX573MTC-ND	Octal D-Type Latch	20-TSSOP	.62	.47	.3
74LCX16244MEA-ND	16-Bit Buffer/Line Driver	48-SSOP	1.08	.90	.7
74LCX16244MTD-ND	16-Bit Buffer/Line Driver	48-TSSOP	.81	.68	.5
74LCX16245MEA-ND	16-Bit Bidirectional Transceiver	48-SSOP	1.08	.90	.7
74LCX16245MTD-ND	16-Bit Bidirectional Transceiver	48-TSSOP	.81	.68	.5
74LCX16373MEA-ND	16-Bit Transparent Latch with Tri-State Outputs	48-SSOP	1.08	.90	.7
74LCX16373MTD-ND	Tri-State, 16-Bit, Transparent D-Type Latch	48-TSSOP	.81	.68	.5

FAIRCHILD SEMICONDUCTOR — 74LVQ SERIES

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	10
74LVQ00SC-ND	Low Voltage Quad 2-Input NAND Gate	14-SOIC	.79	.66	.5
74LVQ08SC-ND	Low Voltage Quad 2-Input AND Gate	14-SOIC	.79	.66	.5
74LVQ14SC-ND	Low Voltage Hex Schmitt Trigger	14-SOIC	.79	.66	.5
74LVQ74SC-ND	Low Voltage Dual D-Type Positive-Edge-Trigger Flip Flop with Preset and Clear	14-SOIC	.97	.81	.6
74LVQ138SC-ND	Low Voltage Expandable 3/8 Decoder	16-SOIC	1.35	1.13	.9
74LVQ151SC-ND	Low Voltage 8-Input Multiplexer	16-SOIC	1.35	1.13	.9
74LVQ240QSC-ND	Tri-State Octal Inverter Bus/Line Driver	20-SSOP	2.54	2.01	1.6
74LVQ573SC-ND	Low Voltage Tri-State Octal D-Type Latch	20-SOIC	1.63	1.30	.9

FAIRCHILD SEMICONDUCTOR — 74LVX SERIES

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	10
74LVX125M-ND	Quad Buffer with Tri-State Outputs	14-SOIC	.48	.39	.2
74LVX240M-ND	Tri-State Octal Line Bus/Line Driver	20-SOIC	.72	.54	.4
74LVX244M-ND	3V CMOS Octal Tri-State Buffer	20-SOIC	.53	.40	.3
74LVX245M-ND	Low Voltage Octal Bidirectional Transceiver	20-SOIC	.53	.40	.3
74LVX74M-ND	Dual D-Type Positive-Edge-Triggered Flip-Flop	14-SOIC	.45	.36	.2
74LVXC3245MTC-ND	Tri-State 8-Bit Dual Transceiver	24-TSSOP	1.08	.90	.7

FAIRCHILD SEMICONDUCTOR — 74C00 SERIES CMOS

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	10
MM74C00N-ND	Quad 2-Input NAND Gate	14-Dip	1.62	1.30	.9
MM74C04N-ND	Hex Inverter (4069)	14-Dip	1.62	1.30	.9
MM74C14M-ND	Hex Schmitt Trigger Inverter	14-SOIC	.90	.75	.6
MM74C14N-ND	Hex Schmitt Trigger Inverter (40106B)	14-Dip	.90	.75	.6
MM74C74M-ND	Dual D-Type Flip Flop	14-SOIC	2.28	1.83	1.3
MM74C74N-ND	Dual D-Type Flip Flop	14-Dip	2.28	1.83	1.3
MM74C221N-ND	Dual Monostable with Schmitt Trigger	16-Dip	4.84	3.87	3.0
MM74C244N-ND	Tri-State Octal Buffer	20-Dip	4.78	3.83	2.9
MM74C906M-ND	Hex Open Drain Buffer	14-SOIC	2.32	1.86	1.4
MM74C906N-ND	Open Drain Buffer (Active Pull Down)	14-Dip	2.45	1.96	1.4
MM74C914N-ND	Hex Schmitt Trigger with Extended Input Voltage	14-Dip	3.33	2.67	2.0
MM74C922N-ND	16-Key Encoder	18-Dip	7.44	5.96	5.0
MM74C923N-ND	20-Key Encoder	20-Dip	7.44	5.96	5.0
MM74C923WM-ND	3V to 15V, 20-Key Encoder	20-SOIC	7.44	5.96	5.0
MM74C926N-ND	4-Digit Counter with 7-Segment Output Driver	18-Dip	10.60	9.54	8.4
MM74C928N-ND	4-Digit Counter with 7-Segment Output Driver	18-Dip	9.02	7.22	6.0
MM88C30N-ND	CMOS Dual Line Driver	14-Dip	5.27	4.22	3.5

FAIRCHILD SEMICONDUCTOR — 74HC00 SERIES CMOS

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MM74HC00M-ND	Quad 2-Input NAND Gate	14-SOIC	.38	.31	.2
MM74HC00N-ND	Quad 2-Input NAND Gate	14-Dip	.48	.39	.2
MM74HC02M-ND	Quad 2-Input NOR Gate	14-SOIC	.38	.31	.2
MM74HC02N-ND	Quad 2-Input NOR Gate	14-Dip	.48	.39	.2
MM74HC04M-ND	Hex Inverter	14-SOIC	.38	.31	.2
MM74HC04N-ND	Hex Inverter	14-Dip	.48	.39	.2
MM74HC08M-ND	Quad 2-Input AND Gate	14-SOIC	.38	.31	.2
MM74HC08N-ND	Quad 2-Input AND Gate	14-Dip	.48	.39	.2
MM74HC14M-ND	Hex Schmitt Trigger Inverter	14-SOIC	.39	.32	.2
MM74HC14N-ND	Hex Schmitt Trigger Inverter	14-Dip	.51	.41	.3
MM74HC32M-ND	Quad 2-Input OR Gate	14-SOIC	.38	.31	.2
MM74HC32N-ND	Quad 2-Input OR Gate	14-Dip	.48	.39	.2
MM74HC74AM-ND	Dual D-Type Flip Flop with Preset and Clear	14-SOIC	.39	.32	.2
MM74HC74AN-ND	Dual D-Type Flip Flop with Preset and Clear	14-Dip	.51	.41	.3
MM74HC86N-ND	Quad 2-Input Exclusive OR Gate	14-Dip	.51	.41	.3
MM74HC123AM-ND	Dual Monostable Multivibrator	16-SOIC	.42	.34	.2
MM74HC123AN-ND	Dual Monostable Multivibrator	16-Dip	.48	.36	.2
MM74HC125M-ND	Tri-State Quad Buffer	14-SOIC	.47	.38	.2
MM74HC125N-ND	Tri-State Quad Buffer	14-Dip	.57	.46	.3
MM74HC126M-ND	Tri-State Quad Buffer	14-SOIC	.47	.38	.2
MM74HC126N-ND	Tri-State Quad Buffer	14-Dip	.57	.46	.3
MM74HC132M-ND	Quad 2-Input NAND Schmitt Trigger	14-SOIC	.47	.38	.2
MM74HC132N-ND	Quad 2-Input NAND Schmitt Trigger	14-Dip	.57	.46	.3
MM74HC138M-ND	3-to-8 Line Decoder	16-SOIC	.48	.39	.2
MM74HC138N-ND	3-to-8 Line Decoder	16-Dip	.48	.36	.2
MM74HC151N-ND	8-Channel Multiplexer	16-Dip	.60	.45	.3
MM74HC154N-ND	4-to-16 Line Decoder (.3" Lead Spacing)	24-Dip	1.01	.84	.6
MM74HC154WM-ND	4-to-16 Line Decoder	24-SOIC	.72	.54	.4
MM74HC157N-ND	Quad 2-Input Multiplexer	16-Dip	.60	.45	.3
MM74HC164N-ND	8-Bit Serial-In Parallel-Out Shift Register	14-Dip	.62	.47	.3
MM74HC165M-ND	8-Bit Parallel-In Serial-Out Shift Register	16-SOIC	.48	.36	.2
MM74HC165N-ND	8-Bit Parallel-In Serial-Out Shift Register	16-Dip	.62	.47	.3
MM74HC174N-ND	Hex D-Type Flip-Flop with Clear	16-Dip	.62	.47	.3
MM74HC175N-ND	Quad D-Type Flip-Flop with Clear	16-Dip	.62	.47	.3
MM74HC240N-ND	Tri-State Octal Inverter Bus/Line Driver	20-Dip	.55	.42	.3

(Continued)

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FAIRCHILD SEMICONDUCTOR — 74HC00 SERIES CMOS (Continued)

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
74HC244N-ND	Tri-State Octal Line Driver	20-Dip	.55	.42	.32
74HC244WM-ND	Tri-State Octal Line Driver	20-SOIC	.47	.38	.29
74HC245AN-ND	Tri-State Octal Bus Transceiver	20-Dip	.55	.42	.32
74HC245AWM-ND	Tri-State Octal Bus Transceiver	20-SOIC	.47	.38	.29
74HC251N-ND	8-Channel Tri-State Multiplexer	16-Dip	.60	.45	.34
74HC259M-ND	8-Bit Addressable Latch/3-to-8 Line Decoder	16-SOIC	.48	.39	.29
74HC259N-ND	8-Bit Addressable Latch/3-to-8 Line Decoder	16-Dip	.55	.42	.32
74HC273N-ND	Octal D-Type Flip-Flop	20-Dip	.55	.42	.32
74HC273WM-ND	Octal D-Type Flip-Flop	20-SOIC	.47	.38	.29
74HC373N-ND	Tri-State Octal D-Type Latch	20-Dip	.55	.42	.32
74HC373WM-ND	Tri-State Octal D-Type Latch	20-SOIC	.47	.38	.29
74HC374N-ND	Tri-State Octal D-Type Flip-Flop	20-Dip	.55	.42	.32
74HC374WM-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.47	.38	.29
74HC393M-ND	Dual 4-Bit Binary Counter	14-SOIC	.47	.38	.29
74HC393N-ND	Dual 4-Bit Binary Counter	14-Dip	.55	.42	.32
74HC540N-ND	Octal Inverting Buffer and Line Driver	20-Dip	.60	.45	.34
74HC541N-ND	Tri-State Octal Buffer	20-Dip	.60	.45	.34
74HC541WM-ND	Tri-State Octal Buffer	20-SOIC	.54	.44	.33
74HC573N-ND	Tri-State Octal D-Type Latch	20-Dip	.60	.45	.34
74HC573WM-ND	Tri-State Octal D-Type Latch	20-SOIC	.54	.44	.33
74HC574N-ND	Tri-State Octal D-Type Flip-Flop	20-Dip	.60	.45	.34
74HC574WM-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.54	.44	.33
74HC595M-ND	8-Bit Shift Register with Output Latches	16-SOIC	.51	.41	.31
74HC595N-ND	8-Bit Shift Register with Output Latches	16-Dip	.53	.40	.30
74HC688N-ND	8-Bit Magnitude Comparator (Equality Detector)	20-Dip	.72	.54	.41
74HC4040M-ND	12 Stage Binary Counter	16-SOIC	.48	.36	.27
74HC4040N-ND	12 Stage Binary Counter	16-Dip	.60	.45	.34
74HC4046M-ND	CMOS Phase-Lock-Loop	16-SOIC	.48	.36	.27
74HC4046N-ND	CMOS Phase-Lock-Loop	16-Dip	.60	.45	.34
74HC4049N-ND	Hex Inverting Logic Level Down Converter	16-Dip	.62	.47	.36
74HC4051M-ND	8-Channel Analog Multiplexer	16-SOIC	.58	.44	.33
74HC4051N-ND	8-Channel Analog Multiplexer	16-Dip	.77	.58	.44
74HC4051WM-ND	8-Channel Analog Multiplexer	16-SOIC	.77	.58	.44
74HC4052N-ND	Dual 4-Channel Analog Multiplexer	16-Dip	.77	.58	.44
74HC4053M-ND	Triple 2-Channel Analog Multiplexer	16-SOIC	.58	.44	.33
74HC4053N-ND	Triple 2-Channel Analog Multiplexer	16-Dip	.77	.58	.44
74HC4053WM-ND	Triple 2-Channel Analog Multiplexer	16-SOIC	.77	.58	.44
74HC4060N-ND	14 Stage Binary Counter	16-Dip	.77	.58	.44
74HC4066N-ND	Quad Analog Switch	14-Dip	.77	.58	.44
74HC4316N-ND	Quad Analog Switch	16-Dip	.60	.45	.34
74HC4316WM-ND	Quad Analog Switch	16-SOIC	.82	.62	.46
74HC4514N-ND	4-to-16 Line Decoder with Latch (.3" Lead Spacing)	24-Dip	1.19	.99	.80
74HC4538M-ND	Dual Retriggerable Monostable Multivibrator	16-SOIC	.62	.47	.36
74HC4538N-ND	Dual Retriggerable Monostable Multivibrator	16-Dip	.72	.54	.41

FAIRCHILD SEMICONDUCTOR — 74HCT00 SERIES CMOS

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
74HCT04N-ND	Hex Inverter	14-Dip	.48	.39	.29
74HCT244N-ND	Tri-State Octal Buffer	20-Dip	.55	.42	.32
74HCT244WM-ND	Tri-State Octal Buffer	20-SOIC	.47	.38	.29
74HCT245N-ND	Tri-State Octal Bus Transceiver	20-Dip	.55	.42	.32
74HCT245WM-ND	Tri-State Octal Bus Transceiver	20-SOIC	.47	.38	.29
74HCT373N-ND	Tri-State Octal D-Type Latch	20-Dip	.55	.42	.32
74HCT374N-ND	Tri-State Octal D-Type Flip-Flop	20-Dip	.55	.42	.32
74HCT541N-ND	Tri-State Octal Buffer	20-Dip	.60	.45	.34

FAIRCHILD SEMICONDUCTOR — 74VHC SERIES CMOS

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
74VHC00M-ND	Quad 2-Input NAND Gate	14-SOIC	.38	.31	.21
74VHC04M-ND	Hex Inverter	14-SOIC	.38	.31	.21
74VHC08M-ND	Quad 2-Input AND Gate	14-SOIC	.38	.31	.21
74VHC14M-ND	Hex Schmitt Trigger Inverter	14-SOIC	.43	.35	.24
74VHC32M-ND	Quad 2-Input OR Gate	14-SOIC	.38	.31	.21
74VHC74M-ND	Dual D-Type Flip Flop	14-SOIC	.43	.35	.24
74VHC86M-ND	Quad 2-Input Exclusive OR Gate	14-SOIC	.43	.35	.24
74VHC123AM-ND	Dual Monostable Multivibrator	16-SOIC	.47	.38	.26
74VHC139M-ND	Dual 2-to-4 Decoder/Demultiplexer	16-SOIC	.53	.40	.30
74VHC157MTC-ND	Quad 2-Input Multiplexer	16-TSSOP	.54	.44	.33
74VHC244M-ND	Tri-State Octal Non-Inverting Buffer/Line Driver	20-SOIC	.45	.36	.27
74VHC373M-ND	Tri-State Octal D-Type Latch	20-SOIC	.45	.36	.27
74VHC374MTC-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	.45	.36	.27
74VHC393M-ND	Dual 4-Bit Binary Counter	14-SOIC	.86	.65	.49
74VHC393MTC-ND	Dual 4-Bit Binary Counter	14-SSOP	.86	.65	.49
74VHC541MTC-ND	Tri-State Octal Buffer/Line Driver	20-TSSOP	.54	.44	.33
74VHC573M-ND	Tri-State Octal D-Type Latch	20-SOIC	.54	.44	.33
74VHC574MTC-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	.54	.44	.33
74VHC595M-ND	8-Bit Shift Register with Output Latches	16-SOIC	.54	.44	.33

FAIRCHILD SEMICONDUCTOR — 74ABT SERIES

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
74ABT125CSC-ND	Tri-State Quad Buffer	14-SOIC	.48	.36	.27
74ABT241CMSA-ND	Tri-State Octal Line Driver	20-SSOP	.90	.75	.60
74ABT244CMSA-ND	Tri-State Octal Buffer/Line Driver	20-SSOP	.90	.75	.60
74ABT244CSC-ND	Tri-State Octal Line Driver	20-SOIC	.77	.58	.44
74ABT245CSC-ND	Tri-State Octal Bus Transceiver	20-SOIC	.77	.58	.44
74ABT273CMSA-ND	Octal D-Type Flip-Flop	20-SSOP	.90	.75	.60
74ABT541CSC-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.90	.75	.60
74ABT16244CSSC-ND	16-Bit, Tri-State Buffer/Line Driver	48-SSOP	1.15	.96	.77
74ABT16245CSSC-ND	16-Bit, Tri-State Bidirectional Transceiver	48-SSOP	1.15	.96	.77
74ABT16373CSSC-ND	16-Bit, D-Type Latch with Tri-State Outputs	48-SSOP	1.37	1.14	.92
74ABT16374CSSC-ND	16-Bit, D-Type Flip-Flop with Tri-State Outputs	48-SSOP	1.37	1.14	.92
74ABT2244CMSA-ND	Octal Buffer Line Driver with Series Resistor Included	20-SSOP	.90	.75	.60
74ABT2244CSC-ND	Octal Buffer Line Driver with Series Resistor Included	20-SOIC	.77	.58	.44

FAIRCHILD SEMICONDUCTOR — FACT™ ADVANCED CMOS TECHNOLOGY 74AC

These are high speed CMOS devices with CMOS input switching levels and buffered CMOS outputs.

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
74AC00PC-ND	Quad 2-Input NAND Gate	14-Dip	.54	.44	.33
74AC00SC-ND	Quad 2-Input NAND Gate	14-SOIC	.51	.41	.29
74AC02PC-ND	Quad 2-Input NOR Gate	14-Dip	.54	.44	.33
74AC02SC-ND	Quad 2-Input NOR Gate	14-SOIC	.51	.41	.29
74AC04PC-ND	Hex Inverter	14-Dip	.48	.36	.27
74AC04SC-ND	Hex Inverter	14-SOIC	.51	.41	.29
74AC08PC-ND	Quad 2-Input AND Gate	14-Dip	.54	.44	.33
74AC08SC-ND	Quad 2-Input AND Gate	14-SOIC	.51	.41	.29
74AC11SC-ND	Triple 3-Input AND Gate	14-SOIC	.51	.41	.29
74AC14PC-ND	Hex Schmitt Trigger Inverter	14-Dip	.48	.36	.27
74AC14SC-ND	Hex Schmitt Trigger Inverter	14-SOIC	.51	.41	.29
74AC20PC-ND	Dual 4-Input NAND Gate	14-Dip	.54	.44	.33
74AC32PC-ND	Quad 2-Input OR Gate	14-Dip	.54	.44	.33
74AC32SC-ND	Quad 2-Input OR Gate	14-SOIC	.51	.41	.29
74AC74PC-ND	Dual D-Type Flip-Flop with Set and Reset	14-Dip	.48	.36	.27
74AC74SC-ND	Dual D-Type Flip-Flop with Set and Reset	14-SOIC	.51	.41	.29
74AC86SC-ND	Quad 2-Input Exclusive OR Gate	14-SOIC	.51	.41	.29
74AC109SC-ND	Dual JK Positive-Edge-Triggered Flip-Flop	16-SOIC	.48	.39	.29
74AC125SC-ND	Tri-State Quad Buffer	14-SOIC	.48	.39	.29
74AC138PC-ND	1-of-8 Decoder/Demultiplexer	16-Dip	.53	.40	.30
74AC138SC-ND	1-of-8 Decoder/Demultiplexer	16-SOIC	.57	.46	.35
74AC139SC-ND	Dual 1-of-4 Decoder/Demultiplexer	16-SOIC	.57	.46	.35
74AC151PC-ND	8-Input Fact Multiplexer	16-Dip	.53	.40	.30
74AC151SC-ND	8-Input Fact Multiplexer	16-SOIC	.54	.44	.33
74AC161PC-ND	Synchronous Presettable 4-Bit Binary Counter	16-Dip	.62	.47	.36
74AC161SC-ND	Synchronous Presettable 4-Bit Binary Counter	16-SOIC	.48	.36	.27
74AC174SC-ND	Hex D-Type Flip-Flop	16-SOIC	.48	.36	.27
74AC175SC-ND	Quad D-Type Flip-Flop	16-SOIC	.48	.36	.27
74AC244SC-ND	Octal Buffer/Line Driver	20-SOIC	.57	.46	.35
74AC245SC-ND	Octal Bidirectional Transceiver	20-SOIC	.57	.46	.35
74AC257SC-ND	Quad 2-Input Multiplexer	16-SOIC	.54	.44	.33
74AC541SC-ND	Octal Buffer/Line Driver	20-SOIC	.58	.44	.33
74AC273SC-ND	Octal D-Type Flip-Flop with Reset	20-SOIC	.57	.46	.35
74AC299SC-ND	Octal Shift/Storage	20-SOIC	.72	.54	.41
74AC373SC-ND	Octal D-Type Latch	20-SOIC	.57	.46	.35
74AC521SC-ND	8-Bit Comparator	20-SOIC	.58	.44	.33
74AC540SC-ND	Octal Buffer/Line Driver with Tri-State Output	20-SOIC	.58	.44	.33
74AC541PC-ND	Octal Buffer/Line Driver with Tri-State Output	20-Dip	.86	.65	.49

FAIRCHILD SEMICONDUCTOR — 74LVT SERIES

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
74LVT245MTC-ND	Tri-State Octal Bi-Directional Transceiver	20-TSSOP	.55	.42	.32

FAIRCHILD SEMICONDUCTOR — 74LVTH SERIES

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
74LVTH244MTC-ND	Low Voltage Tri-State Octal Buffer/Line Driver	20-TSSOP	.55	.42	.32
74LVTH16244MTD-ND	16-Bit, Tri-State, Low Voltage Buffer/Line Driver	48-TSSOP	.79	.66	.53
74LVTH16245MEA-ND	16-Bit, Tri-State, Low Voltage Transceiver	48-SSOP	1.15	.96	.77
74LVTH16245MTD-ND	16-Bit, Tri-State, Low Voltage Transceiver	48-TSSOP	.79	.66	.53

FAIRCHILD SEMICONDUCTOR — 74ACQ SERIES

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
74ACQ544SC-ND	Tri-State Octal Inverting Registered Transceiver	20-SOIC	5.49	4.44	3.59
74ACQ646SC-ND	Tri-State Octal Transceiver Register	24-SOIC	6.32	5.06	4.27

FAIRCHILD SEMICONDUCTOR — 74ACT SERIES

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
74ACT00SC-ND	Quad 2-Input NAND Gate	14-SOIC	.51	.41	.29
74ACT02SC-ND	Quad 2-Input NOR Gate	14-SOIC	.47	.38	.26
74ACT04PC-ND	Hex Inverter	14-Dip	.48	.36	.27
74ACT04SC-ND	Hex Inverter	14-SOIC	.51	.41	.29
74ACT08SC-ND	Quad 2-Input AND Gate	14-SOIC	.51	.41	.29
74ACT32SC-ND	Quad 2-Input OR Gate	14-SOIC	.51	.41	.29
74ACT74PC-ND	Dual D-Type Positive-Edge-Trigger Flip-Flop	14-Dip	.48	.36	.27
74ACT74SC-ND	Dual D-Type Positive-Edge-Trigger Flip-Flop	14-SOIC	.51	.41	.29
74ACT109SC-ND	Dual JK Flip-Flop	16-SOIC	.48	.39	.29
74ACT125SC-ND	Tri-State Quad Buffer	14-SOIC	.48	.39	.29
74ACT138SC-ND	1-of-8 Decoder/Demultiplexer	16-SOIC	.54	.44	.33
74ACT151PC-ND	8-Input Multiplexer	16-Dip	.53	.40	.30
74ACT157PC-ND	Quad 2-Input Multiplexer	16-Dip	.53	.40	.30
74ACT157SC-ND	Quad 2-Input Multiplexer	16-SOIC	.54	.44	.33
74ACT161SC-ND	Synchronous Presettable Binary Counter	16-SOIC	.48	.36	.27
74ACT163PC-ND	4-Bit Binary Counter Synchronous Receiver	16-Dip	.62	.47	.36
74ACT174SC-ND	Hex D-Type Flip-Flop with Master Reset	16-SOIC	.48	.36	.27
74ACT175SC-ND	Quad D-Type Flip-Flop	16-SOIC	.48	.36	.27
74ACT244PC-ND	Octal Buffer/Line Driver	20-Dip	.62	.47	.36
74ACT244SC-ND	Octal Buffer/Line Driver	20-SOIC	.57	.46	.35
74ACT245SC-ND	Octal Bidirectional Transceiver	20-SOIC	.57	.46	.35
74ACT251PC-ND	8-Bit Multiplexer	16-Dip	.58	.44	.33
74ACT251SC-ND	8-Bit Multiplexer	16-SOIC	.54	.44	.33
74ACT373SC-ND	Octal Transparent Latch	20-SOIC	.57	.46	.35
74ACT374SC-ND	Octal D-Type Flip-Flop	20-SOIC	.57	.46	.35
74ACT520SC-ND	Comparator with Resistor	20-SOIC	.58	.44	.33
74ACT573PC-ND	Tri-State Octal D-Type Latch	20-Dip	.86	.65	.49
74ACT574SC-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.58	.44	.33
74ACT899QC-ND	9-Bit Bidirectional Latch	28-PLCC	7.56	6.07	5.12
74ACT1284MSA-ND	IEEE 1284 Transceiver	20-SSOP	1.44	1.20	.96
74ACT2708PC-ND	64x9 First-In First-Out Memory	28-Dip	14.90	13.42	11.90

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NM95HS HIGH SECURITY SERIES

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
NM95HS01EM-ND	Rolling Code Generator High Temp (RC OSC)	14-SOIC	3.12	2.52	2.04
NM95HS01EM8-ND	Rolling Code Generator High Temp (RC OSC)	8-SOIC	4.29	3.47	2.81
NM95HS01N-ND	Rolling Code Generator (RC OSC)	8-Dip	3.90	3.15	2.55
NM95HS01N14-ND	Rolling Code Generator (RC OSC)	14-Dip	3.90	3.15	2.55
NM95HS02EN-ND	Rolling Code Generator High Temp (XTAL OSC)	8-Dip	4.29	3.47	2.81
NM95HS02N-ND	Rolling Code Generator (XTAL OSC)	8-Dip	3.90	3.15	2.55
NM95HS02N14-ND	Rolling Code Generator (XTAL OSC)	14-Dip	3.90	3.15	2.55

74ACTQ SERIES

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
74ACTQ00SC-ND	Quad 2-Input NAND Gate, Quiet Series	14-SOIC	1.01	.84	.68
74ACTQ10PC-ND	Triple 3-Input NAND Gate, Quiet Series	14-Dip	1.20	.62	.47
74ACTQ14SC-ND	Hex Schmitt Trigger Inverting, Quiet Series	14-SOIC	1.01	.84	.68
74ACTQ245SC-ND	Octal Bidirectional Transceiver, Quiet Series	20-SOIC	1.89	1.52	1.14
74ACTQ273SC-ND	Octal D-Type Flip-Flop	20-SOIC	1.89	1.52	1.14
74ACTQ16244SSC-ND	16-Bit Buffer/Line Driver	48-SSOP	4.05	3.24	2.52
74ACTQ16374SSC-ND	16-Bit D-Type Flip-Flop	48-SSOP	4.05	3.24	2.52

74F – FAST™ ADVANCED SCHOTTKY TTL LOGIC

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
74F00PC-ND	Quad 2-Input NAND Gate	14-Dip	.42	.34	.26
74F00SC-ND	Quad 2-Input NAND Gate	14-SOIC	.51	.41	.29
74F04PC-ND	Hex Inverter	14-Dip	.48	.36	.27
74F04SC-ND	Hex Inverter	14-SOIC	.51	.41	.29
74F08PC-ND	Quad 2-Input AND Gate	14-Dip	.48	.36	.27
74F08SC-ND	Quad 2-Input AND Gate	14-SOIC	.51	.41	.29
74F14SC-ND	Hex Inverter Schmitt Trigger	14-SOIC	.51	.41	.31
74F32SC-ND	Quad 2 Input OR Gate	14-SOIC	.42	.34	.26
74F38SC-ND	Quad 2-Input NAND Buffer	14-SOIC	.45	.36	.27
74F74PC-ND	Dual D-Type Positive-Edge-Triggered Flip-Flop	14-Dip	.53	.40	.30
74F74SC-ND	Dual D-Type Positive-Edge-Triggered Flip-Flop	14-SOIC	.45	.36	.27
74F86SC-ND	Quad 2-Input Exclusive OR Gate	14-SOIC	.52	.40	.30
74F109PC-ND	Dual JK Positive-Edge-Triggered Flip-Flop	16-Dip	.77	.58	.44
74F112PC-ND	Dual JK Negative-Edge-Triggered Flip-Flop	16-Dip	.81	.61	.46
74F125PC-ND	Tri-State Quad Buffer	14-Dip	.65	.49	.37
74F125SC-ND	Tri-State Quad Buffer	14-SOIC	.57	.46	.35
74F138PC-ND	1-of-8 Decoder/Demultiplexer	16-Dip	.62	.47	.36
74F157ASC-ND	Quad 2-Input Multiplexer	16-SOIC	.48	.36	.27
74F161APC-ND	Synchronous Presettable 4-Bit Binary Counter	16-Dip	.77	.58	.44
74F175SC-ND	Quad D-Type Flip Flop	16-SOIC	.62	.47	.36
74F189SC-ND	64-Bit Random Access Memory	16-SOIC	4.00	3.24	2.62
74F244PC-ND	Tri-State Octal Line Driver	20-Dip	.72	.54	.41
74F244SC-ND	Tri-State Octal Line Driver	20-SOIC	.62	.47	.36
74F245PC-ND	Tri-State Octal Bus Transceiver	20-Dip	.72	.54	.41
74F245SC-ND	Tri-State Octal Bus Transceiver	20-SOIC	.62	.47	.36
74F258APC-ND	Tri-State Quad 2/1 Multiplexer	16-Dip	.57	.43	.33
74F269SPC-ND	8-Bit Up/Down Counter	24-Dip	1.98	1.59	1.19
74F273PC-ND	Octal D-Type Flip-Flop	20-Dip	.72	.54	.41
74F373PC-ND	Octal Transparent Latch	20-Dip	.83	.69	.55
74F373SC-ND	Octal Transparent Latch	20-SOIC	.76	.58	.43
74F374SC-ND	Octal D-Type Flip-Flop	20-SOIC	.62	.47	.36
74F381PC-ND	4-Bit Arithmetic Logic Unit	16-Dip	1.18	.95	.71
74F541SC-ND	Octal Buffer/Line Driver	20-SOIC	.96	.72	.54
74F543PC-ND	Octal Registered Transceiver	24-Dip	1.44	1.20	.96
74F552QC-ND	Octal Bidirectional Transceiver	28-PLCC	9.45	7.57	6.31
74F573SC-ND	Octal D-Type Latch	20-SOIC	.83	.69	.56
74F574SC-ND	Octal D-Type Flip-Flop	20-SOIC	.96	.72	.54
74F579PC-ND	8-Bit Bidirectional Counter	20-Dip	2.34	1.88	1.41
74F620PC-ND	Inverting Octal Transceiver	20-Dip	.83	.66	.50
74F646BSPC-ND	Octal Bus Transceiver	24-Dip	2.15	1.72	1.29
74F675APC-ND	16-Bit Serial-In, Serial/Parallel-Out Shift Register	24-Dip	9.66	8.70	7.72
74F676PC-ND	16-Bit Serial/Parallel-In, Serial-Out Shift Register	24-Dip	5.35	4.29	3.62
74F823SC-ND	9-Bit D-Type Flip-Flop	24-SOIC	1.95	1.56	1.17

4000 SERIES CMOS

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
CD4001BCM-ND	Quad 2-Input NOR Gate	14-SOIC	.44	.36	.25
CD4001BCN-ND	Quad 2-Input NOR Gate	14-Dip	.48	.36	.27
CD4011BCM-ND	Quad 2-Input NAND Gate	14-SOIC	.51	.41	.29
CD4011BCN-ND	Quad 2-Input NAND Gate	14-Dip	.48	.36	.27
CD4013BCM-ND	Dual D-Type Flip-Flop	14-SOIC	.44	.36	.27
CD4013BCN-ND	Dual D-Type Flip-Flop	14-Dip	.48	.36	.27
CD4016BCM-ND	Quad Bilateral Switch	14-SOIC	.44	.36	.25
CD4016BCN-ND	Quad Bilateral Switch	14-Dip	.48	.36	.27
CD4019BCN-ND	Quad AND/OR Select Gate	16-Dip	.53	.40	.30
CD4047BCN-ND	Monostable Multivibrator	14-Dip	.58	.44	.33
CD4049UBCM-ND	Hex Inverting Buffer	16-SOIC	.47	.38	.29
CD4050BCN-ND	Hex Buffer	16-Dip	.58	.44	.33
CD4051BCM-ND	8-Channel Analog Mux/Demux	16-SOIC	.57	.46	.35
CD4051BCN-ND	8-Channel Analog Mux/Demux	16-Dip	.58	.44	.33
CD4052BCM-ND	4-Channel Analog Mux/Demux	16-SOIC	.57	.46	.35
CD4052BCN-ND	4-Channel Analog Mux/Demux	16-Dip	.58	.44	.33
CD4053BCM-ND	Triple 2-Channel Analog Mux/Demux	16-SOIC	.57	.46	.35
CD4053BCN-ND	Triple 2-Channel Analog Mux/Demux	16-Dip	.58	.44	.33
CD4060BCM-ND	14-Bit Binary Counter/Oscillator	16-SOIC	.57	.46	.35
CD4060BCN-ND	14-Bit Binary Counter/Oscillator	16-Dip	.58	.44	.33
CD4066BCM-ND	Quad Bilateral Switch	14-SOIC	.49	.39	.30
CD4066BCN-ND	Quad Bilateral Switch	14-Dip	.51	.41	.31
CD4069UBCM-ND	Inverter Circuits	14-SOIC	.51	.41	.29
CD4093BCM-ND	Quad 2-Input NAND Schmitt Trigger	14-SOIC	.42	.34	.26
CD4093BCN-ND	Quad 2-Input NAND Schmitt Trigger	14-Dip	.51	.41	.31
CD4094BCN-ND	8-Bit Shift Register with Latch	16-Dip	3.31	2.65	2.0
CD4538BCN-ND	Dual Monostable Multivibrator	16-Dip	.48	.36	.2
CD4541BCN-ND	Programmable Timer	14-Dip	.48	.36	.2
CD4724BCN-ND	8-Bit Addressable Latch	16-Dip	.72	.54	.4
CD40106BCN-ND	Hex Schmitt Trigger	14-Dip	.48	.36	.2
CD40174BCN-ND	Hex D-Type Flip-Flop	16-Dip	3.31	2.65	2.0

LINEAR IC

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	10
FAN1086M-ND	Adjustable, 1.5A LDO Linear Regulator	TO-263	.94	.78	
FAN1086M5-ND	5V, 1.5A Fixed LDO Linear Regulator	TO-263	.94	.78	
FAN1086M33-ND	3.3V, 1.5A Fixed LDO Linear Regulator	TO-263	.94	.78	
FAN1086M285-ND	2.85V, 1.5A Fixed LDO Linear Regulator	TO-263	.94	.78	
FAN2500SXCT-ND	Adjustable, 100mA, CMOS LDO Regulator	SOT-23-5	.72	.54	
FAN2500SXTR-ND	Adjustable, 100mA, CMOS LDO Regulator	SOT-23-5		702.00/3,00	
FAN2500S25XCT-ND	2.5V, 100mA, CMOS LDO Regulator	SOT-23-5	.72	.54	
FAN2500S25XTR-ND	2.5V, 100mA, CMOS LDO Regulator	SOT-23-5		702.00/3,00	
FAN2500S28XCT-ND	2.8V, 100mA, CMOS LDO Regulator	SOT-23-5	.72	.54	
FAN2500S28XTR-ND	2.8V, 100mA, CMOS LDO Regulator	SOT-23-5		702.00/3,00	
FAN2500S30XCT-ND	3.0V, 100mA, CMOS LDO Regulator	SOT-23-5	.72	.54	
FAN2500S30XTR-ND	3.0V, 100mA, CMOS LDO Regulator	SOT-23-5		702.00/3,00	
FAN2500S33XCT-ND	3.3V, 100mA, CMOS LDO Regulator	SOT-23-5	.72	.54	
FAN2500S33XTR-ND	3.3V, 100mA, CMOS LDO Regulator	SOT-23-5		702.00/3,00	
LF353NFS-ND	4MHz Dual JFet Op Amp	8-Dip	.53	.40	
LM78L05ACZFS-ND	0-125°C, 3-Terminal 0.1A Positive Voltage Regulator	TO-92	.47	.38	
LM78M05CTFS-ND	0-125°C, 3-Terminal 0.5A Positive Voltage Regulator	TO-220	.48	.36	
LM311MFS-ND	0-70°C Single Comparator	8-SOP	.60	.48	
LM311NFS-ND	0-70°C Single Comparator	8-Dip	.60	.48	
LM317TFS-ND	1.5A, 3-Terminal Positive Adjustable Regulator	TO-220	.62	.47	
LM337TFS-ND	1.5A, 3-Terminal Negative Adjustable Regulator	TO-220	.67	.51	
LM339ANFS-ND	0-70°C Quad Comparator	14-Dip	.55	.44	
LM339MFS-ND	0-70°C Quad Comparator	14-SOP	.55	.44	
LM339NFS-ND	0-70°C Quad Comparator	14-Dip	.55	.44	
LM350TFS-ND	3A, 3-Terminal Positive Adjustable Voltage	TO-220	1.26	1.05	
LM358AMFS-ND	0-70°C Dual Op Amp	8-SOIC	.55	.44	
LM358ANFS-ND	0-70°C Dual Op Amp	8-Dip	.55	.44	
LM358MFS-ND	0-70°C Dual Op Amp	8-SOIC	.55	.44	
LM358NFS-ND	0-70°C Dual Op Amp	8-Dip	.55	.44	
LM393AN-ND	0-70°C Dual Differential Comparator	8-Dip	.55	.44	
LM393MFS-ND	0-70°C Dual Differential Comparator	8-SOP	.55	.44	
LM393NFS-ND	0-70°C Dual Differential Comparator	8-Dip	.55	.44	
LM555CNFS-ND	0-70°C Single Timer	8-Dip	.50	.40	
LM1458NFS-ND	Dual Op Amp	8-Dip	.55	.44	
LM2901NFS-ND	Quad Comparator	14-Dip	.48	.36	
LM2903MFS-ND	Dual Differential Comparator	8-SOP	.48	.36	
LM2903NFS-ND	Dual Differential Comparator	8-Dip	.48	.36	
LM2904MFS-ND	Dual Op Amp	8-SOP	.48	.36	
LM2904NFS-ND	Dual Op Amp	8-Dip	.48	.36	
LM7805CT-ND	0 to 125°C, 3-Terminal 1A Positive Voltage Regulator	TO-220	.48	.36	
LM7905CTFS-ND	-5V, 4% 3-Terminal 1A Negative Voltage Regulator	TO-220	.48	.36	
MC78L08ACPTR-ND	8V, 4% 3-Terminal 0.1A Positive Voltage Regulator	TO-92	.42	.34	
MC78M05CTFS-ND	5V, 4% 3-Terminal 0.5A Positive Voltage Regulator	TO-220	.48	.36	
MC7805CTFS-ND	5V, 4% 3-Terminal 1A Positive Voltage Regulator	TO-220	.48	.36	
MC7808CTFS-ND	8V, 4% 3-Terminal 1A Positive Voltage Regulator	TO-220	.48	.36	
MC7812CTFS-ND	12V, 4% 3-Terminal 1A Positive Voltage Regulator	TO-220	.48	.36	
MC7815CTFS-ND	15V, 4% 3-Terminal 1A Positive Voltage Regulator	TO-220	.48	.36	
MC7824CTFS-ND	24V, 4% 3-Terminal 1A Positive Voltage Regulator	TO-220	.48	.36	
MC7905CTFS-ND	-5V, 4% 3-Terminal 1A Negative Voltage Regulator	TO-220	.48	.36	
MC7912CTFS-ND	-12V, 4% 3-Terminal 1A Negative Voltage Regulator	TO-220	.48	.36	
MC7915CTFS-ND	-15V, 4% 3-Terminal 1A Negative Voltage Regulator	TO-220	.48	.36	
RC1117DXCT-ND	1A, Adjustable LDO Linear Regulator	TO-252	1.17	.98	
RC1117DXTR-ND	1A, Adjustable LDO Linear Regulator	TO-252		1267.50/2,50	
RC1117M-ND	1A, Adjustable LDO Linear Regulator	TO-263	.96	.80	
RC1117M5-ND	5V, 1A, Fixed LDO Linear Regulator	TO-263	.96	.80	
RC1117M33-ND	3.3V, 1A, Fixed LDO Linear Regulator	TO-263	.96	.80	
RC1117M285-ND	2.85V, 1A, Fixed LDO Linear Regulator	TO-263	.96	.80	
RC1117STCT-ND	1A, Adjustable LDO Linear Regulator	SOT-223	.90	.75	
RC1117STTR-ND	1A, Adjustable LDO Linear Regulator	SOT-223		975.00/2,50	
RC1117S33TCT-ND	3.3V, 1A, Fixed LDO Linear Regulator	SOT-223	.90	.75	
RC1117S33TTR-ND	3.3V, 1A, Fixed LDO Linear Regulator	SOT-223		975.00/2,50	
RC1117S285TCT-ND	2.85V, 1A, Fixed LDO Linear Regulator	SOT-223	.90	.75	
RC1117S285TTR-ND	2.85V, 1A, Fixed LDO Linear Regulator	SOT-223		975.00/2,50	
RC1584T-ND	7A, Adjustable LDO Linear Regulator	TO-220	1.47	1.23	
RC1585M-ND	5A, Adjustable LDO Linear Regulator	TO-263	1.47	1.23	
RC1585M15-ND	1.5V, 5A, Fixed LDO Linear Regulator	TO-263	1.47	1.23	
RC1585MTCT-ND	5A, Adjustable LDO Linear Regulator	TO-263	1.47	1.23	
RC1585MTTR-ND	5A, Adjustable LDO Linear Regulator	TO-263		548.80/800	
RC1585T-ND	5A, Adjustable LDO Linear Regulator	TO-220	1.38	1.15	
RC1585T15-ND	1.5V, 5A, Fixed LDO Linear Regulator	TO-220	1.38	1.15	
RC1587M-ND	3A, Adjustable LDO Linear Regulator	TO-263	1.38	1.15	
RC1587M15-ND	1.5V, 3A, Fixed LDO Linear Regulator	TO-263	1.38	1.15	
RC1587M33-ND	3.3V, 3A, Fixed LDO Linear Regulator	TO-263	1.38	1.15	
RC1587T-ND	3A, Adjustable LDO Linear Regulator	TO-220	1.32	1.10	
RC1587T15-ND	1.5V, 3A, Fixed LDO Linear Regulator	TO-220	1.32	1.10	
RC1587T33-ND	3.3V, 3A, Fixed LDO Linear Regulator	TO-220	1.32	1.10	
RC2951M-ND	0.1A Adjustable Micropower LDO Voltage Regulator	8-SOIC	.79	.66	

SPECIALIZED IC

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	10
100324QC-ND	Low Power Hex TTL-to-ECL Translator	28-PLCC	6.01	4.81	4.0
100325QC-ND	Low Power Hex ECL-to-TTL Translator	28-PLCC	6.01	4.81	4.0

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

intersil — SWITCHES, ARRAYS

ersil rt No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
.43143IR	ISL43143IR-ND	Low-Volt. Quad SPST High Perf. Analog Switch	16-QFN	2.02	1.50	1.11
.43144IR	ISL43144IR-ND	Low-Volt. Quad SPST High Perf. Analog Switch	16-QFN	2.02	1.50	1.11
.43210IH-T	ISL43210IH-CT-ND	Low-Volt. Single Supply, Dual SPST, SPDT Analog Switch	SOT-23-6	1.76	1.30	.94
.43210IH-T	ISL43210IH-TR-ND	Low-Volt. Single Supply, Dual SPST, SPDT Analog Switch	SOT-23-6		1797.00/3,000	
.43231IR	ISL43231IR-ND	Low-Volt. Single and Dual Supply, Triple SPDT Analog Switch	20-QFN	2.95	2.19	1.62
.43240IR	ISL43240IR-ND	Low-Volt. Single and Dual Supply, Quad SPDT, High Perf. Analog Switch	20-QFN	3.50	2.66	2.03
.43410IR	ISL43410IR-ND	Low-Volt. Single Supply, DPDT High Perf. Analog Switch	16-QFN	2.29	1.71	1.26
.43640IR	ISL43640IR-ND	Low-Volt., Single Supply, 4-to-1 Mux, High Perf. Analog Switch	16-QFN	2.29	1.71	1.26
.83699IV	ISL83699IV-ND	Low-Volt., Single Supply, Quad SPDT Analog Switch	16-TSSOP	2.98	2.27	1.73
.84514IH-T	ISL84514IH-CT-ND	Low-Volt. Single Supply, SPST Analog Switch	SOT-23-5	1.77	1.32	.97
.84514IH-T	ISL84514IH-TR-ND	Low-Volt. Single Supply, SPST Analog Switch	SOT-23-5		2139.00/3,000	
.84515IH-T	ISL84515IH-CT-ND	Low-Volt. Single Supply, SPST Analog Switch	SOT-23-5	1.77	1.32	.97
.84515IH-T	ISL84515IH-TR-ND	Low-Volt. Single Supply, SPST Analog Switch	SOT-23-5		2139.00/3,000	
.84516IH-T	ISL84516IH-CT-ND	Low-Volt. Dual Supply, SPST Analog Switch	SOT-23-5	1.77	1.32	.97
.84516IH-T	ISL84516IH-TR-ND	Low-Volt. Dual Supply, SPST Analog Switch	SOT-23-5		2139.00/3,000	
.84517IH-T	ISL84517IH-CT-ND	Low-Volt. Dual Supply, SPST Analog Switch	SOT-23-5	1.77	1.32	.97
.84517IH-T	ISL84517IH-TR-ND	Low-Volt. Dual Supply, SPST Analog Switch	SOT-23-5		2139.00/3,000	
.84544IH-T	ISL84544IH-CT-ND	Low-Volt. Single Supply, Dual SPST, SPDT Analog Switch	SOT-23-6	1.71	1.27	.94
.84544IH-T	ISL84544IH-TR-ND	Low-Volt. Single Supply, Dual SPST, SPDT Analog Switch	SOT-23-6		2064.00/3,000	
.84684IR	ISL84684IR-ND	Ultra Low ON-Resistance, Single Supply, Dual SPDT Analog Switch	10-DFN	2.48	1.84	1.36
.84714IH-T	ISL84714IH-CT-ND	Ultra Low ON-Resistance, Low-Volt., Single Supply, SPDT Analog Switch	SC70-6	1.61	1.19	.86
.84714IH-T	ISL84714IH-TR-ND	Ultra Low ON-Resistance, Low-Volt., Single Supply, SPDT Analog Switch	SC70-6		1644.00/3,000	
.84715IH-T	ISL84715IH-CT-ND	Ultra Low ON-Resistance, Low-Volt., Single Supply, SPST Analog Switch	SC70-5	1.61	1.19	.86
.84715IH-T	ISL84715IH-TR-ND	Ultra Low ON-Resistance, Low-Volt., Single Supply, SPST Analog Switch	SC70-5		1644.00/3,000	
.84716IH-T	ISL84716IH-CT-ND	Ultra Low ON-Resistance, Low-Volt., Single Supply, SPST Analog Switch	SC70-5	1.61	1.19	.86
.84716IH-T	ISL84716IH-TR-ND	Ultra Low ON-Resistance, Low-Volt., Single Supply, SPST Analog Switch	SC70-5		1644.00/3,000	

intersil — VIDEO COMMUNICATION

ersil rt No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
1881CN	EL1881CN-ND	Low Power Video Sync. Separator	8-Dip	2.64	1.96	1.45
1881CS	EL1881CS-ND	Low Power Video Sync. Separator	8-SOIC	2.64	1.96	1.45
1883IS	EL1883IS-ND	Video Sync. Separator	8-SOIC	3.01	2.24	1.65
4511CU	EL4511CU-ND	Super Sync. Separator	24-QSOP	8.27	6.55	5.25
4581CN	EL4581CN-ND	Sync. Separator, 50% Slice, S-H, Filter	8-Dip	6.13	4.66	3.56
4581CS	EL4581CS-ND	Sync. Separator, 50% Slice, S-H, Filter	8-SOIC	6.13	4.66	3.56
4583CN	EL4583CN-ND	Sync. Separator, 50% Slice, S-H, Filter	16-Dip	8.30	6.56	5.26
4583CS	EL4583CS-ND	Sync. Separator, 50% Slice, S-H, Filter	16-SOIC	8.82	6.98	5.59
4584CN	EL4584CN-ND	36MHz General Purpose PLL	16-Dip	10.40	8.22	6.59
4584CS	EL4584CS-ND	36MHz General Purpose PLL	16-SOIC	9.10	7.80	6.92
4585CN	EL4585CN-ND	36MHz General Purpose PLL	16-Dip	10.40	8.22	6.59
4585CS	EL4585CS-ND	36MHz General Purpose PLL	16-SOIC	9.10	7.80	6.92
4314BCB	HA4314BCB-ND	400MHz, 4x1 Video Crosspoint Switch	14-SOIC	4.63	3.52	2.69
4344BCB	HA4344BCB-ND	350MHz, 4x1 Video Crosspoint Switch	16-SOIC	5.78	4.39	3.35

intersil — VOLTAGE REFERENCE

ersil rt No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
0008CIS8-50	X60008CIS8-50-ND	Precision 5V, 5ppm FGA™ Volt. Ref.	8-SOIC	8.32	5.81	5.04
0008DIS8-50	X60008DIS8-50-ND	Precision 5V, 10ppm FGA™ Volt. Ref.	8-SOIC	5.76	4.02	3.49

National Semiconductor — DATA COMMUNICATIONS

i-Key rt No.	Description	Pkg.	Price Each★ 1	25	100
3BT10G38-ND	24MHz, RISC w/256K Flash, Bluetooth (LLC), USB1.1	100-LQFP	17.40	16.24	15.08
3BT10K38-ND	24MHz, RISC w/256K Flash, Bluetooth (LLC), USB1.1	48-CSP	16.80	15.68	14.56
3BT13K38-ND	24MHz, RISC w/256K Flash, Bluetooth (LLC), CAN	48-CSP	16.80	15.68	14.56
3UB17K38CT-ND	Reprogrammable Connectivity Processor with USB Interface ***NEW!***	48-CSP	16.80	15.68	14.56
3UB17K38TR-ND	Reprogrammable Connectivity Processor with USB Interface ***NEW!***	48-CSP		3556.00/250	

National Semiconductor — LINEAR SERIES

i-Key rt No.	Description	Pkg.	Price Each★ 1	25	100
S74CT2524M-ND	1-to-4 Minimum Skew (300ps) Clock Driver	8-SOIC	2.42	1.80	1.33
S74LCT2524M-ND	1-to-4 Minimum Skew (300ps) 3V Clock Driver	8-SOIC	2.79	2.07	1.53
S74LCT2524MXTR-ND	1-to-4 Minimum Skew (300ps) 3V Clock Driver	8-SOIC		2812.50/2,500	
C001AJE-ND	Serial Digital Cable Driver	8-SOIC	4.98	3.79	2.89
C005AJE-ND	ITU-T G.703 Cable Driver	8-SOIC	10.61	9.09	8.06

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
CLC006AJE-ND	Serial Digital Cable Driver with Adj. Outputs	8-SOIC	9.87	7.81	6.26
CLC007AJE-ND	Serial Digital Cable Driver	8-SOIC	8.78	6.94	5.56
CLC011BCQ-ND	Serial Digital Video Decoder	28-PLCC	12.34	10.58	9.38
CLC012AJE-ND	Adaptive Cable Equalizer for ITU-T G.703 Data Recovery	14-SOIC	15.60	14.56	13.52
CLC014AJE-ND	Adaptive Cable Equalizer for High-Speed Recovery	14-SOIC	17.29	14.82	13.15
CLC016ACQ-ND	Data Retiming PLL with Automatic Rate Selection	28-PLCC	24.75	23.10	21.45
CLC016AJQ-ND	Data Retiming PLL with Automatic Rate Selection	28-PLCC	27.60	25.76	23.92
CLC016MTC-ND	Data Retiming PLL with Automatic Rate Selection	28-TSSOP	24.75	23.10	21.45
CLC018AJVJQ-ND	8 x 8 Digital Cross Point Switch	68-PQFP	26.70	24.92	23.14
CLC021AVGZ-3.3-ND	SMPTE 259M Digital Video Serializer with EDH Generation/Insertion	44-PQFP	39.15	36.54	33.93
CLC030VEC-ND	SMPTE 292M/259M Digital Video Serializer with Video and Ancilliary Data FIFOs and Integrated Cable Driver	64-TQFP	49.95	46.62	43.29
CLC031AVEC-ND	SMPTE 292M/259M Digital Video Deserializer ***NEW!***	64-TQFP	49.95	46.62	43.29
CLC5903SM-ND	Dual Digital Tuner/AGC ***NEW!***	128-FBGA	27.15	25.34	23.53
CLC5903VLA-ND	Dual Digital Tuner/AGC ***NEW!***	128-PQFP	27.15	25.34	23.53
CLC730027-ND	Eval Board Designed to Aid Monolithic Amplifier Characterization for SOIC Packages	—	6.30	4.98	3.99
CLC730031-ND	Eval Board for Quad Op Amps in SOIC Packages	—	6.30	4.98	3.99
CLC730033-ND	Eval Board for 14-SOIC Packages	—	6.30	4.98	3.99
CLC730036-ND	Eval Board Designed to Aid in the Characterization of Dual Monolithic Amplifiers in SOIC Packages	—	6.30	4.98	3.99
CLC730066-ND	Evaluation Board for CLC5523	—	6.30	4.98	3.99
CLC730116-ND	Eval Board Designed to Aid in the Characterization of 6-Pin Monolithic Amps in SOT23-6 Packages	—	6.30	4.98	3.99
CLC730121-ND	Eval Board Designed to Aid in the Characterization of 8-Pin Dual Op Amps in PSOP Packages	—	6.30	4.98	3.99
CLC730123-ND	Eval Board Designed to Aid in the Characterization of 8-Pin Dual Op Amps in MSOP Packages	—	6.30	4.98	3.99
CLC730131-ND	Quad TSSOP Op Amp Evaluation Board	—	6.30	4.98	3.99
CLC730132-ND	Quad TSSOP High Speed Buffer Evaluation Board	—	6.30	4.80	3.99
CLC730136-ND	Single SOT-23 High Speed Buffer Evaluation Board	—	6.30	4.98	3.99
CLC730145-ND	Quad SOIC High Speed Buffer Evaluation Board	—	6.30	4.80	3.99
CLC730216-ND	Single SOT High Speed Op Amp Evaluation Board	—	6.30	4.98	3.99
CLC730227-ND	Single SOIC High Speed Op Amp Evaluation Board	—	6.30	4.98	3.99
CLC730231-ND	Quad SOIC High Speed Op Amp Evaluation Board ***NEW!***	—	6.30	4.80	3.99
CLC730245-ND	Single SOIC High Speed Buffer Evaluation Board	—	6.30	4.98	3.99
COP8AME9EMW8-ND	8-Bit Microcontroller with 8K Flash, Temperature Sensor 10-Bit A/D	28-SOIC	9.26	7.94	7.04
COP8CBE9IMT9-ND	8-Bit Microcontroller with 8K Flash, 10-Bit A/D	48-TSSOP	9.35	7.39	5.92
COP8CBR9HLQ8CT-ND	8-Bit Microcontroller with 32K Flash, 10-Bit A/D	44-LLP	9.99	8.57	7.60
COP8CBR9HLQ8TR-ND	8-Bit Microcontroller with 32K Flash, 10-Bit A/D	44-LLP		17344.13/2,500	
COP8CBR9HVA8-ND	8-Bit Microcontroller with 32K Flash, 10-Bit A/D	44-PLCC	10.40	8.91	7.91
COP8CBR9IMT8-ND	8-Bit Microcontroller with 32K Flash, 10-Bit A/D	48-TSSOP	9.57	8.21	7.28
COP8CBR9KMT8-ND	8-Bit Microcontroller with 32K Flash, 10-Bit A/D	56-TSSOP	10.40	8.22	6.59
COP8CBR9LVA8-ND	8-Bit Microcontroller with 32K Flash, 10-Bit A/D	68-PLCC	10.40	8.91	7.91
COP8CCE9IMT9-ND	8-Bit Microcontroller with 8K Flash, 10-Bit A/D	48-TSSOP	9.12	7.82	6.93
COP8CCR9IMT7-ND	8-Bit Microcontroller with 32K Flash, 10-Bit A/D	48-TSSOP	12.01	10.29	9.13
COP8CCR9KMT8-ND	8-Bit Microcontroller with 32K Flash, 10-Bit A/D	56-TSSOP	10.40	8.22	6.59
COP8CDE9IMT9-ND	8-Bit Microcontroller with 8K Flash, 10-Bit A/D	48-TSSOP	5.73	4.54	3.64
COP8CDR9KMT8-ND	8-Bit Microcontroller with 32K Flash, 10-Bit A/D	56-TSSOP	10.40	8.22	6.59
COP8CFE9HVA9-ND	8-Bit Microcontroller with 8K Flash, 10-Bit A/D	44-PLCC	5.29	4.19	3.36
COP8CFE9IMT9-ND	8-Bit Microcontroller with 8K Flash, 10-Bit A/D	48-TSSOP	5.46	4.34	3.48
COP8SAA7SLB8CT-ND	8-Bit OTP Microcontroller 1K POR	28-Laminate CSP	6.38	5.05	4.05
COP8SAA7SLB8TR-ND	8-Bit OTP Microcontroller 1K POR	28-Laminate CSP		9272.00/2,500	
COP8SAA7SLB9CT-ND	8-Bit OTP Microcontroller 1K POR	28-Laminate CSP	6.20	4.90	3.93
COP8SAA7SLB9TR-ND	8-Bit OTP Microcontroller 1K POR	28-Laminate CSP		8997.50/2,500	
COP8SAA716M7-ND	8-Bit OTP Microcontroller 1K POR	16-SOIC	5.00	3.80	2.90
COP8SAA716M9-ND	8-Bit OTP Microcontroller with 1K Memory	16-SOIC	4.75	3.61	2.76
COP8SAA720M7-ND	8-Bit OTP Microcontroller 1K POR	20-SOIC	5.23	3.98	3.04
COP8SAA720M8-ND	8-Bit OTP Microcontroller 1K POR	20-SOIC	5.23	3.98	3.04
COP8SAB7SLB8CT-ND	8-Bit OTP Microcontroller 2K POR	28-Laminate CSP	5.99	4.74	3.80
COP8SAB7SLB8TR-ND	8-Bit OTP Microcontroller 2K POR	28-Laminate CSP		8692.50/2,500	
COP8SAB7SLB9CT-ND	8-Bit OTP Microcontroller 2K POR	28-Laminate CSP	6.20	4.90	3.93
COP8SAB7SLB9TR-ND	8-Bit OTP Microcontroller 2K POR	28-Laminate CSP		8997.50/2,500	
COP8SAB720M8-ND	8-Bit OTP Microcontroller 2K POR	20-SOIC	6.20	4.90	3.93
COP8SAB720N8-ND	8-Bit OTP Microcontroller with 2K Memory	20-Dip	6.20	4.90	3.93
COP8SAB728M8-ND	8-Bit OTP Microcontroller 2K POR	28-SOIC	6.59	5.22	4.18
COP8SAB728N8-ND	8-Bit OTP Microcontroller 2K POR	28-Dip	6.28	4.97	3.98
COP8SAC7SLB8CT-ND	8-Bit OTP Microcontroller 4K POR	28-Laminate CSP	7.58	6.00	4.81
COP8SAC7SLB8TR-ND	8-Bit OTP Microcontroller 4K POR	28-Laminate CSP		11010.50/2,500	
COP8SAC7SLB9CT-ND	8-Bit OTP Microcontroller 4K POR	28-Laminate CSP	7.39	5.85	4.69
COP8SAC7SLB9TR-ND	8-Bit OTP Microcontroller 4K POR	28-Laminate CSP		10736.00/2,500	
COP8SAC720N9-ND	8-Bit OTP Microcontroller with 4K Memory	20-Dip	7.18	5.68	4.55
COP8SAC728N9-ND	8-Bit OTP Microcontroller with 4K Memory	28-Dip	7.18	5.68	4.55
COP8SAC740N8-ND	8-Bit OTP Microcontroller with 4K Memory	40-Dip	7.39	5.85	4.69
COP8SAC740N9-ND	8-Bit OTP Microcontroller with 4K Memory	40-Dip	7.18	5.68	4.55
COP8SBE9IMT9-ND	8-Bit Microcontroller with 8K Flash	48-TSSOP	8.80	7.55	6.69
COP8SBR9IMT8-ND	8-Bit Microcontroller with 32K Flash	48-TSSOP*	9.57	8.21	7.28
COP8SBR9KMT8-ND	8-Bit Microcontroller with 32K Flash	56-TSSOP	8.96	7.68	6.81
COP8SCE9IMT9-ND	8-Bit Microcontroller with 8K Flash	48-TSSOP	9.14	7.83	6.95
COP8SCR9IMT7-ND	8-Bit Microcontroller with 32K Flash	48-TSSOP	11.99	10.28	9.12
COP8SCR9IMT8-ND	8-Bit Microcontroller with 32K Flash	48-TSSOP	9.33	8.00	7.09
COP8SCR9KMT7-ND	8-Bit Microcontroller with 32K Flash	56-TSSOP	11.92	10.22	9.06
COP8SCR9KMT8-ND	8-Bit Microcontroller with 32K Flash	56-TSSOP	9.14	7.83	6.95
COP8SDE9IMT9-ND	8-Bit Microcontroller with 8K Flash	48-TSSOP	5.40	4.27	3.42
COP8SDR9IMT8-ND	8-Bit Microcontroller with 32K Flash	48-TSSOP	9.36	8.03	7.12
COP8SDR9KMT8-ND	8-Bit Microcontroller with 32K Flash	56-TSSOP	9.10	7.80	6.92
COP8SGE7HLQ8CT-ND	8-Bit OTP Microcontroller with 8K Flash	44-LLP	8.72	6.89	5.52
COP8SGE7HLQ8TR-ND	8-Bit OTP Microcontroller with 8K Flash	44-LLP		12657.50/2,500	
COP8SGE7VEJ8-ND	8-Bit OTP Microcontroller, 8K Memory, 2 Comparators USART	44-LQFP	10.27	8.12	6.51
COP8SGE728M8-ND	8-Bit OTP Microcontroller, 8K Memory, 2 Comparators USART	28-SOIC	8.32	6.58	5.27
COP8SGE728N8-ND	8-Bit OTP Microcontroller, 8K Memory, 2 Comparators USART	28-Dip	8.32	6.58	5.27
COP8SGE740N8-ND	8-Bit OTP Microcontroller, 8K Memory, 2 Comparators USART	40-Dip	8.32	6.58	5.27
COP8SGE744V8-ND	8-Bit OTP Microcontroller, 8K Memory, 2 Comparators USART	44-PLCC	8.44	6.68	5.35
COP8SGR7HLQ8CT-ND	8-Bit OTP Microcontroller with 32K Flash	44-LLP	9.77	8.37	7.43
COP8SGR7HLQ8TR-ND	8-Bit OTP Microcontroller with 32K Flash	44-LLP		16949.25/2,500	
COP8SGR728M8-ND	8-Bit OTP Microcontroller, 32K Memory, 2 Comparators USART	28-SOIC	9.11	7.21	5.78
COP8SGR728N8-ND	8-Bit OTP Microcontroller, 32K Memory, 2 Comparators USART	28-Dip	9.77	8.37	7.43

(Continued)

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B

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
COP8SGR740N8-ND	8-Bit OTP Microcontroller, 32K Memory, 2 Comparators USART	40-Dip	9.77	8.37	7.43
COP8SGR744V8-ND	8-Bit OTP Microcontroller, 32K Memory, 2 Comparators USART	44-PLCC	9.11	7.21	5.78
CR16MAS9VJE9-ND	16-Bit, CAN CompactRISC™ Flash Microcontroller	80-PQFP	18.00	16.80	15.60
CR16MCS9VJE9-ND	16-Bit, CAN CompactRISC™ Flash Microcontroller	80-PQFP	18.00	16.80	15.60
LF156H-ND	Mono JFET In Op Amp	TO-5	5.98	4.55	3.47
LF256H-ND	Wideband JFET Op Amp	TO-5	5.38	4.09	3.12
LF298M-ND	Monolithic Sample and Hold Circuit	14-SOIC	2.78	2.11	1.61
LF347BN-ND	Quad Bi-FET Op Amp	14-Dip	2.20	1.64	1.21
LF347M-ND	Quad Bi-FET Op Amp	14-SOIC	1.83	1.36	1.01
LF347MXTR-ND	Quad Bi-FET Op Amp	14-SOIC		1843.75/2,500	
LF347NNS-ND	Quad Bi-FET Op Amp	14-Dip	1.83	1.36	1.01
LF353M-ND	Wideband Dual JFET Op Amp	8-SOIC	1.05	.77	.56
LF353MXTR-ND	Wideband Dual JFET Op Amp	8-SOIC		892.50/2,500	
LF353NNS-ND	Wideband Dual JFET Input Op Amp	8-Dip	1.13	.83	.60
LF356H-ND	Monolithic JFET Input Op Amp	TO-5	3.50	2.66	2.03
LF356M-ND	Monolithic JFET Input Op Amp	8-SOIC	.95	.69	.50
LF356N-ND	Monolithic JFET Input Op Amp	8-Dip	.94	.69	.50
LF398AN-ND	Monolithic Sample and Hold Circuit	8-Dip	3.05	2.32	1.77
LF398H-ND	Monolithic Sample and Hold Circuit	TO-5	4.55	3.46	2.64
LF398M-ND	Monolithic Sample and Hold Circuit	14-SOIC	2.05	1.52	1.13
LF398N-ND	Monolithic Sample and Hold Circuit	8-Dip	2.08	1.55	1.14
LF411ACH-ND	Low Offset Low Drift JFET Input Op Amp	TO-5	8.57	6.78	5.43
LF411ACN-ND	Low Offset Low Drift JFET Input Op Amp	8-Dip	4.75	3.61	2.76
LF411CN-ND	Low Offset Low Drift JFET Input Op Amp	8-Dip	1.39	1.02	.74
LF412ACN-ND	Low Offset Low Drift JFET Dual Op Amp	8-Dip	4.95	3.77	2.88
LF412CN-ND	Low Offset Low Drift JFET Dual Op Amp	8-Dip	1.73	1.27	.92
LF412MH-ND	Low Offset Low Drift JFET Dual Op Amp	TO-5	9.07	7.18	5.75
LF442ACN-ND	Dual Low Power JFET Op Amp	8-Dip	5.60	4.26	3.25
LF442AMH-ND	Dual Low Power JFET Op Amp	TO-5	17.40	16.24	15.08
LF442CN-ND	Dual Low Power JFET Op Amp	8-Dip	1.61	1.19	.86
LF444ACN-ND	Quad Low Power JFET Op Amp	14-Dip	3.30	2.51	1.92
LF444CM-ND	Quad Low Power JFET Op Amp	14-SOIC	1.64	1.22	.91
LF444CN-ND	Quad Low Power JFET Op Amp	14-Dip	1.67	1.25	.92
LM10CH-ND	Op Amp and Voltage Reference	TO-5	6.15	4.87	3.90
LM10CLN-ND	Op Amp and Voltage Reference	8-Dip	2.70	2.06	1.57
LM10CN-ND	Op Amp and Voltage Reference	8-Dip	2.98	2.27	1.73
LM10CWM-ND	Op Amp and Voltage Reference	14-SOIC	2.80	2.13	1.63
LM12CLK-ND	80W Power Op Amp 4-Pin	TO-3	20.10	18.76	17.42
LM12H458CIV-ND	12-Bit + Sign DAS with Self-Calibration	44-PQFP	18.60	17.36	16.12
LM12H458CIVF-ND	12-Bit + Sign DAS with Self-Calibration	44-PQFP	18.60	17.36	16.12
LM12L458CIV-ND	12-Bit + Sign DAS with Self-Calibration	44-PQFP	18.60	17.36	16.12
LM19CIZ-ND	2.4V, 10µA Temperature Sensor, -55° to 130°C	TO-92	.77	.56	.41
LM20BIM7CT-ND	Micro SMD Temperature Sensor, ±2.5°C	SC-70-5	1.24	.91	.66
LM20BIM7TR-ND	Micro SMD Temperature Sensor, ±2.5°C	SC-70-5		429.00/1,000	
LM20CIM7CT-ND	Micro SMD Temperature Sensor, ±5°C	SC-70-5	1.09	.80	.58
LM20CIM7TR-ND	Micro SMD Temperature Sensor, ±5°C	SC-70-5		377.00/1,000	
LM20SIBPCT-ND	Micro SMD Temperature Sensor	4-microSMD	1.09	.80	.58
LM20SIBPTR-ND	Micro SMD Temperature Sensor	4-microSMD		108.75/250	
LM26CIM5-NPACT-ND	±3°C Accurate, Factory Preset Thermostat	SOT-23-5	1.43	1.05	.76
LM26CIM5-NPATR-ND	±3°C Accurate, Factory Preset Thermostat	SOT-23-5		494.00/1,000	
LM26CIM5-RPACT-ND	±3°C Accurate, Factory Preset Thermostat	SOT-23-5	1.43	1.05	.76
LM26CIM5-RPATR-ND	±3°C Accurate, Factory Preset Thermostat	SOT-23-5		494.00/1,000	
LM26CIM5-SHACT-ND	±3°C Accurate, Factory Preset Thermostat	SOT-23-5	1.43	1.05	.76
LM26CIM5-SHATR-ND	±3°C Accurate, Factory Preset Thermostat	SOT-23-5		494.00/1,000	
LM26CIM5-SPACT-ND	±3°C Accurate, Factory Preset Thermostat	SOT-23-5	1.43	1.05	.76
LM26CIM5-SPATR-ND	±3°C Accurate, Factory Preset Thermostat	SOT-23-5		494.00/1,000	
LM26CIM5-TPACT-ND	±3°C Accurate, Factory Preset Thermostat	SOT-23-5	1.43	1.05	.76
LM26CIM5-TPATR-ND	±3°C Accurate, Factory Preset Thermostat	SOT-23-5		494.00/1,000	
LM26CIM5-VHACT-ND	±3°C Accurate, Factory Preset Thermostat	SOT-23-5	1.43	1.05	.76
LM26CIM5-VHATR-ND	±3°C Accurate, Factory Preset Thermostat	SOT-23-5		494.00/1,000	
LM26CIM5-VPACT-ND	±3°C Accurate, Factory Preset Thermostat	SOT-23-5	1.43	1.05	.76
LM26CIM5-VPATR-ND	±3°C Accurate, Factory Preset Thermostat	SOT-23-5		494.00/1,000	
LM26CIM5-XHACT-ND	±3°C Accurate, Factory Preset Thermostat	SOT-23-5	1.43	1.05	.76
LM26CIM5-XHATR-ND	±3°C Accurate, Factory Preset Thermostat	SOT-23-5		494.00/1,000	
LM26CIM5-XPACT-ND	±3°C Accurate, Factory Preset Thermostat	SOT-23-5	1.43	1.05	.76
LM26CIM5-XPATR-ND	±3°C Accurate, Factory Preset Thermostat	SOT-23-5		494.00/1,000	
LM26CIM5-YHACT-ND	±3°C Accurate, Factory Preset Thermostat	SOT-23-5	1.43	1.05	.76
LM26CIM5-YHATR-ND	±3°C Accurate, Factory Preset Thermostat	SOT-23-5		494.00/1,000	
LM26CIM5-YPACT-ND	±3°C Accurate, Factory Preset Thermostat	SOT-23-5	1.43	1.05	.76
LM26CIM5-YPATR-ND	±3°C Accurate, Factory Preset Thermostat	SOT-23-5		494.00/1,000	
LM26CIM5-ZHACT-ND	±3°C Accurate, Factory Preset Thermostat	SOT-23-5	1.43	1.05	.76
LM26CIM5-ZHATR-ND	±3°C Accurate, Factory Preset Thermostat	SOT-23-5		494.00/1,000	
LM27CIM5-1HJCT-ND	±3°C Accurate, 120°C-150°C Factory Preset Thermostat	SOT-23-5	2.33	1.73	1.28
LM27CIM5-1HJTR-ND	±3°C Accurate, 120°C-150°C Factory Preset Thermostat	SOT-23-5		961.28/1,000	
LM27CIM5-2HJCT-ND	±3°C Accurate, 120°C-150°C Factory Preset Thermostat	SOT-23-5	2.33	1.73	1.28
LM27CIM5-2HJTR-ND	±3°C Accurate, 120°C-150°C Factory Preset Thermostat	SOT-23-5		961.28/1,000	
LM32CIMT-ND	Dual Thermal Diode Temperature Sensor ***NEW!***	14-TSSOP	3.10	2.36	1.80
LM34AH-ND	Precision F. Temperature Sensor, -50°F to 300°F	TO-46	13.86	11.88	10.54
LM34CAH-ND	Precision F. Temperature Sensor, -40°F to 230°F	TO-46	11.55	9.90	8.78
LM34CAZ-ND	Precision F. Temperature Sensor, -40°F to 230°F	TO-92	6.64	5.25	4.21
LM34CH-ND	Precision F. Temperature Sensor, -40°F to 230°F	TO-46	9.52	8.16	7.24
LM34CZ-ND	Precision F. Temperature Sensor, -40°F to 230°F	TO-92	6.03	4.58	3.50
LM34DM-ND	Precision F. Temperature Sensor, +32°F to 212°F	8-SOIC	1.89	1.41	1.04
LM35DT-ND	Precision Celsius Temperature Sensor	TO-220	2.82	2.10	1.55
LM34DZ-ND	Precision F. Temperature Sensor, +32°F to 212°F	TO-92	2.33	1.73	1.28
LM35AH-ND	Precision Celsius Temperature Sensor, -55°C to 150°C	TO-46	16.80	15.68	14.56
LM35CAH-ND	Precision Celsius Temperature Sensor, -40°C to 110°C	TO-46	11.55	9.90	8.78
LM35CAZ-ND	Precision Celsius Temperature Sensor, -40°C to 110°C	TO-92	5.40	4.27	3.42
LM35CH-ND	Precision Celsius Temperature Sensor, -40°C to 110°C	TO-46	9.03	7.74	6.87
LM35CZ-ND	Precision Celsius Temperature Sensor, -40°C to 110°C	TO-92	5.28	4.01	3.06
LM35DH-ND	Precision Celsius Temperature Sensor, 0°C to 100°C	TO-46	4.75	3.61	2.76
LM35DM-ND	Precision Celsius Temperature Sensor, 0°C to 100°C	8-SOIC	1.80	1.34	.99
LM35DMXTR-ND	Precision Celsius Temperature Sensor, 0°C to 100°C	8-SOIC		1812.50/2,500	
LM35DZ-ND	Precision Celsius Temperature Sensor, 0°C to 100°C	TO-92	1.58	1.18	.87
LM40CIMT-ND	Hardware Monitor with Dual Thermal Diodes and SensorPath™ Bus ***NEW!***	14-TSSOP	3.93	2.99	2.28
LM41CIMT-ND	Hardware Monitor with Thermal Diode Inputs and SensorPath™ Bus ***NEW!***	14-TSSOP	3.80	2.89	2.21
LM45BIM3CT-ND	Precision Celsius Temperature Sensor	SOT-23	1.58	1.18	.87
LM45BIM3TR-ND	Precision Celsius Temperature Sensor	SOT-23		652.80/1,000	
LM45CIM3CT-ND	Precision Celsius Temperature Sensor	SOT-23	1.01	.75	.54
LM45CIM3TR-ND	Precision Celsius Temperature Sensor	SOT-23		351.00/1,000	
LM50BIM3CT-ND	Single Supply Centigrade Temperature Sensor	SOT-23	1.61	1.20	.89

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LM50BIM3TR-ND	Single Supply Centigrade Temperature Sensor	SOT-23		665.60/1,000	
LM50CIM3CT-ND	Single Supply Centigrade Temperature Sensor	SOT-23	1.09	.80	.5
LM50CIM3TR-ND	Single Supply Centigrade Temperature Sensor	SOT-23		377.00/1,000	
LM56BIM-ND	Dual Output Low Power Thermostat	8-SOIC	2.17	1.61	1.1
LM56BIMMCT-ND	Dual Output Low Power Thermostat	8-MSOP	2.57	1.91	1.4
LM56BIMMTR-ND	Dual Output Low Power Thermostat	8-MSOP		1062.40/1,000	
LM56CIM-ND	Dual Output Low Power Thermostat	8-SOIC	1.64	1.22	.9
LM56CIMMCT-ND	Dual Output Low Power Thermostat	8-MSOP	1.95	1.45	1.0
LM56CIMMTR-ND	Dual Output Low Power Thermostat	8-MSOP		806.40/1,000	
LM60BIM3CT-ND	2.7V, Temperature Sensor, -40°C to 125°C	SOT-23	1.24	.91	.6
LM60BIM3TR-ND	2.7V, Temperature Sensor, -40°C to 125°C	SOT-23		429.00/1,000	
LM60BIZ-ND	2.7V, Temperature Sensor, -40°C to 125°C	TO-92-3	1.13	.83	.6
LM60CIM3CT-ND	2.7V, Temperature Sensor, -40°C to 125°C	SOT-23	1.04	.75	.5
LM60CIM3TR-ND	2.7V, Temperature Sensor, -40°C to 125°C	SOT-23		322.00/1,000	
LM60CIZ-ND	2.7V, Temperature Sensor, -40°C to 125°C	TO-92	.90	.65	.4
LM61BIM3CT-ND	2.7V, Temperature Sensor, -30°C to 100°C	SOT-23	1.24	.91	.6
LM61BIM3TR-ND	2.7V, Temperature Sensor, -30°C to 100°C	SOT-23		429.00/1,000	
LM61CIM3CT-ND	2.7V, Temperature Sensor, -30°C to 100°C	SOT-23	1.04	.75	.5
LM61CIM3TR-ND	2.7V, Temperature Sensor, -30°C to 100°C	SOT-23		322.00/1,000	
LM61CIZ-ND	2.7V, Temperature Sensor, -30°C to 100°C	TO-92	.90	.65	.4
LM62BIM3CT-ND	2.7V, Temperature Sensor, 0°C to 100°C	SOT-23	1.43	1.05	.7
LM62BIM3TR-ND	2.7V, Temperature Sensor, 0°C to 100°C	SOT-23		494.00/1,000	
LM62CIM3CT-ND	2.7V, Temperature Sensor, 0°C to 100°C	SOT-23	1.00	.74	.5
LM62CIM3TR-ND	2.7V, Temperature Sensor, 0°C to 100°C	SOT-23		345.80/1,000	
LM63CIMA-ND	Digital Temperature Sensor with Integrated Fan Control	8-SOIC	2.63	2.00	1.5
LM63DIMA-ND	Digital Temperature Sensor with Integrated Fan Control	8-SOIC	3.09	2.30	1.7
LM70CILD-3CT-ND	10-Bit Plus Sign Digital Temperature Sensor	8-LLP	2.00	1.49	1.1
LM70CILD-3TR-ND	10-Bit Plus Sign Digital Temperature Sensor	8-LLP		826.88/1,000	
LM70CILD-5CT-ND	10-Bit Plus Sign Digital Temperature Sensor	8-LLP	2.00	1.49	1.1
LM70CILD-5TR-ND	10-Bit Plus Sign Digital Temperature Sensor	8-LLP		826.88/1,000	
LM70CIMM-3CT-ND	10-Bit Plus Sign Digital Temperature Sensor	8-MSOP	1.86	1.38	1.0
LM70CIMM-3TR-ND	10-Bit Plus Sign Digital Temperature Sensor	8-MSOP		766.72/1,000	
LM70CIMM-5CT-ND	SPI/Microwire™ 10-Bit plus Digital Temp. Sensor	8-MSOP	1.86	1.38	1.0
LM70CIMM-5TR-ND	SPI/Microwire™ 10-Bit plus Digital Temp. Sensor	8-MSOP		766.72/1,000	
LM70CIMMX-3CT-ND	10-Bit plus Sign Digital Temperature Sensor	8-MSOP	1.86	1.38	1.0
LM70CIMMX-3TR-ND	10-Bit plus Sign Digital Temperature Sensor	8-MSOP		2620.63/3,500	
LM71CIMFCT-ND	SPI/Microwire™ 13-Bit plus Sign Temp. Sensor	SOT-23-5	2.06	1.53	1.1
LM71CIMFTR-ND	SPI/Microwire™ 13-Bit plus Sign Temp. Sensor	SOT-23-5		851.20/1,000	
LM71CISDCT-ND	SPI/Microwire™ 13-Bit plus Sign Temp. Sensor	6-LLP	2.06	1.53	1.1
LM71CISDTR-ND	SPI/Microwire™ 13-Bit plus Sign Temp. Sensor	6-LLP		851.20/1,000	
LM74CIBP-3CT-ND	3V, 12-Bit Digital Temperature Sensor	5-microSMD	2.50	1.86	1.3
LM74CIBP-3TR-ND	3V, 12-Bit Digital Temperature Sensor	5-microSMD		1034.24/1,000	
LM74CIBP-5CT-ND	5V, 12-Bit Digital Temperature Sensor	5-microSMD	2.50	1.86	1.3
LM74CIBP-5TR-ND	5V, 12-Bit Digital Temperature Sensor	5-microSMD		1034.24/1,000	
LM74CIM-3-ND	3V, 12-Bit Digital Temperature Sensor	8-SOIC	1.92	1.43	1.0
LM74CIM-5-ND	5V, 12-Bit Digital Temperature Sensor	8-SOIC	1.92	1.43	1.0
LM75CIM-3-ND	3V, Digital Temperature Sensor	8-SOIC	2.05	1.52	1.1
LM75CIM-5-ND	5V, Digital Temperature Sensor and Thermal Watchdog with Two-Wire Interface	8-SOIC	2.05	1.52	1.1
LM75CIMX-5TR-ND	5V, Digital Temperature Sensor and Thermal Watchdog with Two-Wire Interface	8-SOIC		2062.50/2,500	
LM75CIMM-3CT-ND	3.3V, Digital Temperature Sensor and Thermal Watchdog with Two-Wire Interface	8-MSOP	2.11	1.57	1.1
LM75CIMM-3TR-ND	3.3V, Digital Temperature Sensor and Thermal Watchdog with Two-Wire Interface	8-MSOP		870.40/1,000	
LM75CIMM-5CT-ND	5V, Digital Temperature Sensor and Thermal Watchdog with Two-Wire Interface	8-MSOP	2.11	1.57	1.1
LM75CIMM-5TR-ND	5V, Digital Temperature Sensor and Thermal Watchdog with Two-Wire Interface	8-MSOP		870.40/1,000	
LM76CHM-5-ND	5V, Digital Temperature Sensor and Thermal Window Comparator with Two-Wire Interface	8-SOIC	2.63	2.00	1.5
LM77CIM-3-ND	3V, Digital Temperature Sensor and Thermal Window Comparator with Two-Wire Interface	8-SOIC	2.05	1.52	1.1
LM77CIM-5-ND	5V, Digital Temperature Sensor and Thermal Window Comparator with Two-Wire Interface	8-SOIC	2.05	1.52	1.1
LM77CIMM-3CT-ND	3V, Digital Temperature Sensor and Thermal Window Comparator with Two-Wire Interface	8-MSOP	2.05	1.52	1.1
LM77CIMM-3TR-ND	3V, Digital Temperature Sensor and Thermal Window Comparator with Two-Wire Interface	8-MSOP		844.80/1,000	
LM77CIMM-5CT-ND	5V, Digital Temperature Sensor and Thermal Window Comparator with Two-Wire Interface	8-MSOP	2.05	1.52	1.1
LM77CIMM-5TR-ND	5V, Digital Temperature Sensor and Thermal Window Comparator with Two-Wire Interface	8-MSOP		844.80/1,000	
LM78L05ACM-ND	5V, 100mA Positive Regulator	8-SOIC	.63	.46	
LM78L05ACMX-ND	5V, 100mA Positive Regulator	8-SOIC		465.50/2,500	
LM78L05ACZNS-ND	5V, 100mA Positive Regulator	TO-92	.63	.46	
LM78L05IBPCT-ND	3-Terminal Positive Regulator	8-microSMD	.68	.49	
LM78L05IBPTR-ND	3-Terminal Positive Regulator	8-microSMD		63.75/250	
LM78L09ACZ-ND	9V, 100mA Positive Regulator	TO-92	.63	.46	
LM78L12ACM-ND	12V, 100mA Positive Regulator	8-SOIC	.63	.46	
LM78L12ACMXTR-ND	12V, 100mA Positive Regulator	8-SOIC		465.50/2,500	
LM78L12ACZ-ND	12V, 0.1 Amp Voltage Regulator	TO-92	.63	.46	
LM78L15ACM-ND	15V, 100mA Positive Regulator	8-SOIC	.63	.46	
LM78L15ACMXTR-ND	15V, 100mA Positive Regulator	8-SOIC		465.50/2,500	
LM78L15ACZ-ND	15V, 0.1 Amp Positive Regulator	TO-92	.63	.46	
LM78L62ACZ-ND	6.2V, 100mA Positive Regulator	TO-92	1.13	.83	
LM78M05CTNS-ND	5V, 500mA Positive Regulator	TO-220	1.46	1.08	
LM78M05CDT-ND	3-Terminal Positive Regulator	TO-252	1.24	.91	
LM78M12CH-ND	12V, 500mA Positive Regulator	TO-39	3.75	2.85	2.2
LM78M12CT-ND	12V, Positive Regulator	TO-220	1.46	1.08	
LM78M15CT-ND	15V, Positive Regulator	TO-220	1.46	1.08	
LM78M15CH-ND	15V, 500mA Positive Regulator	TO-39	3.75	2.85	2.2
LM78S40CN-ND	Universal Switching Regulator Subsystem	16-Dip	1.71	1.27	
LM78S40N-ND	Universal Switching Regulator Subsystem, Ind. Temp.	16-Dip	2.67	1.98	1.5
LM79L05ACM-ND	5V, 100mA Negative Regulator	8-SOIC	.90	.65	
LM79L05ACMXTR-ND	5V, 100mA Negative Regulator	8-SOIC		665.00/2,500	
LM79L12ACM-ND	12V, 100mA Negative Regulator	8-SOIC	.90	.65	
LM79L12ACMXTR-ND	12V, 100mA Negative Regulator	8-SOIC		665.00/2,500	
LM79M05CT-ND	5V, 500mA Negative Voltage Regulator	TO-220	1.54	1.13	

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Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
M79M12CT-ND	12V, 500mA Negative Voltage Regulator	TO-220	1.54	1.13	.82
M79M15CT-ND	15V, 500mA Negative Voltage Regulator	TO-220	1.54	1.13	.82
M80CIMT-3-ND	Serial Interface ACPI-Compatible Microprocessor System Hardware Monitor, 2.8V-5.75V	24-TSSOP	5.98	4.55	3.47
M80CIMT-5-ND	Serial Interface ACPI-Compatible Microprocessor System Hardware Monitor, 2.8V-5.75V	24-TSSOP	5.98	4.55	3.47
M81BIMT-3-ND	Serial Interface ACPI-Compatible Microprocessor System Hardware Monitor, 2.8V-3.8V	24-TSSOP	3.83	2.91	2.22
M81CIMT-3-ND	Serial Interface ACPI-Compatible Microprocessor System Hardware Monitor, 2.8V-3.8V	24-TSSOP	3.83	2.91	2.22
M82CIMQA-ND	Triple-Diode Input and Local Digital Temp. Sensor with Two-Wire Interface	16-SSOP	3.73	2.84	2.17
M83CIMQA-ND	Triple-Diode Input and Local Digital Temp. Sensor with Two-Wire Interface	16-SSOP	5.95	4.53	3.46
M84BIMQA-ND	Diode Input Temperature Sensor with 2-Wire Interface	16-SSOP	3.58	2.72	2.08
M86CIMMCT-ND	Remote Diode and Digital Temperature Sensor with Two-Wire Interface	8-MSOP	2.42	1.80	1.33
M86CIMMTR-ND	Remote Diode and Digital Temperature Sensor with Two-Wire Interface	8-MSOP		998.40/1,000	
M87CIMT-ND	Serial Interface System Hardware Monitor with Remote Diode Temperature Sensing	24-TSSOP	5.53	4.20	3.21
M88CIMM-ACT-ND	Factory Programmable Dual Remote-Diode Thermostat	8-MSOP	2.50	1.86	1.38
M88CIMM-ATR-ND	Factory Programmable Dual Remote-Diode Thermostat	8-MSOP		1034.24/1,000	
M90CIMMCT-ND	Remote Diode and Digital Temperature Sensor with Two-Wire Interface	8-MSOP	2.95	2.19	1.62
M90CIMMTR-ND	Remote Diode and Digital Temperature Sensor with Two-Wire Interface	8-MSOP		1216.00/1,000	
M92CIM-ND	Temp. Sensor and Thermal Window Comparator with Two-Wire Interface	8-SOIC	4.05	3.08	2.35
M93CIMT-ND	Hardware Monitor with Integrated Fan Control for Server Management **NEW!**	56-TSSOP	9.98	7.89	6.32
M99CIMMCT-ND	Accurate, High Temperature, Remote Diode Temperature Sensor with Two-Wire Interface	8-MSOP	2.63	2.00	1.53
M99CIMMTR-ND	Accurate, High Temperature, Remote Diode Temperature Sensor with Two-Wire Interface	8-MSOP		1323.00/1,000	
M108AH-ND	Precision Op Amp	TO-5	6.59	5.22	4.18
M111H-ND	Voltage Comparator	TO-5	3.83	2.91	2.22
M111J-8-ND	Voltage Comparator	8-CDip	5.67	4.49	3.60
M113H-ND	Reference Diode	TO-46	9.03	7.74	6.87
M117H-ND	500mA Positive Adjustable Voltage Regulator	TO-39	8.06	6.38	5.11
M117K STEEL-ND	Positive Adjustable Voltage Regulator	TO-3	8.93	7.06	5.66
M120H-5.0-ND	1.5A, 3-Terminal Negative Voltage Regulator	TO-39	9.24	7.92	7.03
M124AJ-ND	Low Power Quad Op Amp	14-CDip	6.09	4.82	3.86
M124J-ND	Low Power Quad Op Amp	14-CDip	3.50	2.66	2.03
M135AH-ND	Precision Temperature Sensor	TO-46	16.59	14.22	12.61
M135H-ND	Precision Temperature Sensor	TO-46	9.95	7.87	6.31
M136AH-2.5-ND	2.5V, Reference Diode	TO-46	10.12	8.67	7.69
M136H-2.5-ND	2.5V, Reference Diode	TO-46	9.53	7.54	6.04
M136H-5.0-ND	5V, Reference Diode	TO-46	9.53	7.54	6.04
M137H-ND	.5A, 3-Terminal Negative Voltage Regulator	TO-39	9.03	7.74	6.87
M139J-ND	Low Power Low Offset Quad Comp	14-CDip	3.50	2.66	2.03
M140K-5.0-ND	.5V, Ser. 3-Terminal Positive Regulator	TO-3	7.29	5.77	4.62
M140K-12-ND	12V, 1.5A Positive Voltage Regulator	TO-3	7.29	5.77	4.62
M140LAH-5.0-ND	5V, Ser., 3-Terminal Positive Regulator	TO-39	5.54	4.39	3.52
M140LAH-12-ND	12V, 100mA Positive Voltage Regulator	TO-39	5.54	4.39	3.52
M148J-ND	Quad 741 Op Amp	14-CDip	4.50	3.42	2.61
M150K STEEL-ND	3A, Positive Adjustable Voltage Regulator	TO-3	14.00	12.00	10.64
M158AH-ND	Low Power Dual Op Amp	TO-5	7.79	6.16	4.94
M158H-ND	Low Power Dual Op Amp	TO-5	5.05	3.84	2.93
M185BH-ND	Adjustable Micropower Voltage Reference	TO-46	11.18	9.59	8.50
M185H-2.5-ND	Micropower Voltage Reference Diode	TO-46	9.37	7.41	5.94
M193H-ND	Low Power Offset Voltage Dual Comparator	TO-5	5.38	4.09	3.12
M219J-ND	High Speed Dual Comparator	14-CDip	9.45	7.47	5.99
M224J-ND	Low Power Quad Op Amp	14-CDip	3.50	2.66	2.03
M231AN-ND	Precision Voltage-to-Frequency Converter	8-Dip	8.04	6.36	5.10
M231N-ND	Precision Voltage-to-Frequency Converter	8-Dip	5.48	4.34	3.48
M234Z-3-ND	Adjustable Current Source/Temperature Sensor	TO-92	2.90	2.21	1.69
M234Z-6-ND	Adjustable Current Source/Temperature Sensor	TO-92	1.67	1.25	.92
M235AH-ND	Precision Temperature Sensor	TO-46	10.50	9.00	7.98
M235H-ND	Precision Temperature Sensor	TO-46	7.79	6.16	4.94
M236AH-2.5-ND	2.5V, (1%) Voltage Reference	TO-46	7.10	5.62	4.50
M236AH-5.0-ND	5V, Reference Diode	TO-46	7.10	5.62	4.50
M236H-2.5-ND	2.5V, Reference Diode	TO-46	6.09	4.82	3.86
M239J-ND	High Performance Quad Comparator	14-CDip	2.42	1.80	1.33
M285BXZ-ND	Adjustable Micropower Voltage Reference	TO-92	2.60	1.98	1.51
M285BYM-ND	Adjustable Micropower Voltage Reference	8-SOIC	2.70	2.01	1.48
M285BYZ-ND	Micropower Adjustable Voltage Reference	TO-92	2.57	1.91	1.42
M285BYZ-1.2-ND	1.2V, Micropower Voltage Reference	TO-92	2.57	1.91	1.42
M285BYZ-2.5-ND	2.5V, Reference Diode	TO-92	2.57	1.91	1.42
M285M-ND	Micropower Adjustable Voltage Reference	8-SOIC	1.16	.86	.62
M285MXTR-ND	Micropower Adjustable Voltage Reference	8-SOIC		988.13/2,500	
M285M-1.2-ND	1.2V, Reference Diode	8-SOIC	1.16	.86	.62
M285M-2.5-ND	Micropower Voltage Reference Diode	8-SOIC	1.16	.86	.62
M285MX-2.5TR-ND	Micropower Voltage Reference Diode	8-SOIC		988.13/2,500	
M285Z-ND	Adjustable Micropower Voltage Reference	TO-92	1.13	.83	.60
M285Z-1.2NS-ND	Micropower Voltage Reference Diode	TO-92	1.13	.83	.60
M285Z-2.5-ND	2.5V, Reference Diode	TO-92	1.13	.83	.60
M301AH-ND	General Purpose Op Amp	TO-5	3.25	2.47	1.89
M301ANNS-ND	General Purpose Op Amp	8-Dip	1.01	.75	.54
M308AH-ND	General Purpose Op Amp	TO-5	4.00	3.04	2.32
M308H-ND	Super Gain Op Amp	TO-5	3.75	2.85	2.18
M309H-ND	5V Voltage Regulator	TO-39	4.75	3.61	2.76
M309K STEEL-ND	+5V, 1.5A Voltage Regulator	TO-3	6.20	4.72	3.60
M311H-ND	Voltage Comparator	TO-99	3.25	2.47	1.89
M311MNS-ND	Voltage Comparator	8-SOIC	.63	.46	.33
M311MXTR-ND	Voltage Comparator	8-SOIC		465.50/2,500	
M311NNS-ND	High Performance Voltage Comparator	8-Dip	.77	.56	.40
M313H-ND	Precision Reference, 2-Pin	TO-18	7.10	5.62	4.50
M317AEMPCT-ND	3-Terminal Adjustable Regulator	SOT-223	1.74	1.29	.96
M317AEMPTR-ND	3-Terminal Adjustable Regulator	SOT-223		716.80/1,000	
M317AEMPXTR-ND	3-Terminal Adjustable Regulator	SOT-223		1433.60/2,000	
M317AH-ND	500mA Positive Adjustable Voltage Regulator	TO-39	5.05	3.84	2.93
M317AT-ND	1.5A, Positive Adjustable Voltage Regulator	TO-220	1.46	1.08	.78

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LM317EMPCT-ND	1A, Positive Adjustable Voltage Regulator	SOT-223	1.28	.94	.68
LM317EMPTR-ND	1A, Positive Adjustable Voltage Regulator	SOT-223		442.00/1,000	
LM317H-ND	500mA, Positive Adjustable Voltage Regulator	TO-39	4.75	3.61	2.76
LM317HVH-ND	High Voltage 500mA, Adjustable Voltage Regulator	TO-39	8.15	6.45	5.17
LM317HVK STEEL-ND	High Voltage 1.5A, Adjustable Voltage Regulator	TO-3	7.79	6.16	4.94
LM317HVT-ND	High Voltage 1.5A, Adjustable Voltage Regulator	TO-220	2.60	1.94	1.43
LM317K STEEL-ND	1.5A, Positive Adjustable Voltage Regulator	TO-3	4.95	3.77	2.88
LM317LIBPCT-ND	3-Terminal Adjustable Regulator	8-microSMD	1.08	.78	.57
LM317LIBPTR-ND	3-Terminal Adjustable Regulator	8-microSMD		102.00/250	
LM317LM-ND	100mA, Positive Adjustable Voltage Regulator	8-SOIC	.72	.52	.38
LM317LMXTR-ND	100mA, Positive Adjustable Voltage Regulator	8-SOIC		532.00/2,500	
LM317LZNS-ND	100mA, Positive Adjustable Voltage Regulator	TO-92	.72	.52	.38
LM317MDT-ND	3-Terminal Adjustable Regulator	TO-252	1.39	1.02	.74
LM317S-ND	3-Terminal Adjustable Regulator	TO-263	1.61	1.20	.89
LM317SXTR-ND	3-Terminal Adjustable Regulator	TO-263		338.00/500	
LM317TNS-ND	1.5A, Positive Adjustable Voltage Regulator	TO-220	1.58	1.18	.87
LM318H-ND	High Slew Rate Op Amp	TO-5	3.73	2.84	2.17
LM318M-ND	High Slew Rate Op Amp	8-SOIC	1.39	1.02	.74
LM318N-ND	High Slew Rate Op Amp	8-Dip	1.39	1.02	.74
LM319AM-ND	High Speed Dual Comparator	14-SOIC	1.84	1.35	.98
LM319H-ND	High Speed Dual Comparator	TO-5	3.83	2.91	2.22
LM319M-ND	High Speed Dual Comparator	14-SOIC	1.09	.80	.58
LM319MXTR-ND	High Speed Dual Comparator	14-SOIC		924.38/2,500	
LM319NNS-ND	High Speed Dual Comparator	14-Dip	1.24	.91	.66
LM320H-5.0-ND	.5A, 3-Terminal Negative Voltage Regulator	TO-39	6.22	4.92	3.94
LM320K-15-ND	–15V, 1.5A Voltage Regulator	TO-3	6.97	5.52	4.42
LM320LZ-5.0-ND	5V, 0.1A Negative Voltage Regulator	TO-92	.90	.65	.47
LM320LZ-12-ND	12V, 0.1A Negative Voltage Regulator	TO-92	.90	.65	.47
LM320LZ-15-ND	15V, 0.1A Negative Voltage Regulator	TO-92	.90	.65	.47
LM320T-5.0-ND	5V, 1.5A 3-Terminal Negative Regulator	TO-220	1.77	1.32	.97
LM320T-12-ND	12V, 1.5A 3-Terminal Negative Voltage Regulator	TO-220	1.77	1.32	.97
LM320T-15-ND	15V, 1.5A 3-Terminal Negative Voltage Regulator	TO-220	1.77	1.32	.97
LM321MFCT-ND	Low Power Single Op Amp	SOT-23-5	.59	.43	.31
LM321MFTR-ND	Low Power Single Op Amp	SOT-23-5		182.00/1,000	
LM323AK STEEL-ND	5V, 3A Positive Voltage Regulator	TO-3	6.07	4.80	3.85
LM323K STEELNS-ND	5V, 3A Positive Voltage Regulator	TO-3	4.95	3.77	2.88
LM324AMNS-ND	Low Power Quad Op Amp	14-SOIC	.81	.59	.43
LM324AMXTR-ND	Low Power Quad Op Amp	14-SOIC		598.50/2,500	
LM324ANNS-ND	Low Power Quad Op Amp	14-Dip	.86	.62	.45
LM324MNS-ND	Low Power Quad Op Amp	14-SOIC	.77	.56	.40
LM324MT-ND	Low Power Quad Op Amp	14-TSSOP	1.13	.83	.60
LM324MX-ND	Low Power Quad Op Amp	14-SOIC		565.25/2,500	
LM324NNS-ND	Low Power Quad Op Amp	14-Dip	.86	.62	.45
LM329DZ-ND	6.9V Precision Zener 100ppm/°C	TO-92	1.39	1.02	.74
LM330T-5.0-ND	3-Terminal Positive Regulator	TO-220	1.69	1.24	.90
LM331AN-ND	Precision Voltage-to-Frequency Converter	8-Dip	7.20	5.70	4.57
LM331N-ND	Precision Voltage-to-Frequency Converter	8-Dip	2.80	2.13	1.63
LM333K STEEL-ND	3A Negative Adjustable Voltage Regulator	TO-3	9.96	8.54	7.57
LM334H-ND	3-Terminal Adjustable Current Source	TO-46	3.93	2.99	2.28
LM334M-ND	3-Terminal Adjustable Current Source	8-SOIC	1.16	.86	.62
LM334MXTR-ND	3-Terminal Adjustable Current Source	8-SOIC		988.13/2,500	
LM334SM-ND	3-Terminal Adjustable Current Source	8-SOIC	2.65	2.02	1.54
LM334ZNS-ND	3-Terminal Adjustable Current Source	TO-92	1.16	.86	.62
LM335AH-ND	Precision Temperature Sensor	TO-46	6.97	5.52	4.42
LM335AM-ND	Precision Temperature Sensor	8-SOIC	1.55	1.15	.85
LM335AZNS-ND	Precision Temperature Sensor	TO-92	1.55	1.15	.85
LM335H-ND	Precision Temperature Sensor	TO-46	4.25	3.23	2.47
LM335M-ND	Precision Temperature Sensor	8-SOIC	1.09	.80	.58
LM335ZNS-ND	Voltage Mode Temperature Sensor	TO-92	1.09	.80	.58
LM3368M-2.5-ND	2.5V, Reference Diode	8-SOIC	1.46	1.08	.78
LM3368M-5.0-ND	5V, Reference Diode	8-SOIC	1.46	1.08	.78
LM336BZ-2.5-ND	2.5V, Reference Diode	TO-92	1.46	1.08	.78
LM336BZ-5.0-ND	5V, Reference Diode	TO-92	1.46	1.08	.78
LM336M-2.5-ND	2.5V, Reference Diode	8-SOIC	1.04	.75	.55
LM336MX-2.5TR-ND	2.5V, Reference Diode	8-SOIC		764.75/2,500	
LM336M-5.0-ND	5.0V, Reference Diode	8-SOIC	1.04	.75	.55
LM336Z-2.5NS-ND	2.5V, Reference Diode	TO-92	1.04	.75	.55
LM336Z-5.0-ND	5.0V, Reference Diode	TO-92	1.04	.75	.55
LM337H-ND	500mA Negative Adjustable Voltage Regulator	TO-39	4.50	3.42	2.61
LM337HVH-ND	500mA Negative Adjustable Regulator (High Volt)	TO-39	10.23	8.09	6.48
LM337HVK STEEL-ND	1.5A Negative Adjustable Regulator (High Volt)	TO-3	11.18	9.59	8.50
LM337IMPCT-ND	1A Negative Adjustable Voltage Regulator	SOT-223	1.54	1.13	.82
LM337IMPTR-ND	1A Negative Adjustable Voltage Regulator	SOT-223		533.00/1,000	
LM337K STEEL-ND	1.5A Negative Adjustable Voltage Regulator	TO-3	5.98	4.55	3.47
LM337LM-ND	100mA Negative Adjustable Voltage Regulator	8-SOIC	.99	.72	.52
LM337LMXTR-ND	100mA Negative Adjustable Voltage Regulator	8-SOIC		731.50/2,500	
LM337LZ-ND	100mA Negative Adjustable Voltage Regulator	TO-92	.99	.72	.52
LM337TNS-ND	1.5A Negative Adjustable Voltage Regulator	TO-220	1.80	1.34	.99
LM338K STEEL-ND	5A Adjustable Positive Regulator	TO-3	6.20	4.72	3.60
LM338T-ND	5A Adjustable Positive Regulator	TO-220	2.20	1.64	1.21
LM339AMXTR-ND	Low Power Low Offset Voltage Quad Comparator	14-SOIC		598.50/2,500	
LM339ANNS-ND	Low Power Low Offset Voltage Quad Comparator	14-Dip	.95	.69	.50
LM339AM-ND	Low Power Low Offset Voltage Quad Comparator	14-SOIC	.81	.59	.43
LM339MNS-ND	Low Power Low Offset Voltage Quad Comparator	14-SOIC	.77	.56	.40
LM339MX-ND	Low Power Low Offset Voltage Quad Comparator	14-SOIC		565.25/2,500	
LM339NNS-ND	High Performance Quad Comparator	14-Dip	.86	.62	.45
LM340AT-5.0-ND	5V, 1.0A Positive Voltage Regulator	TO-220	1.50	1.10	.80
LM340K-5.0-ND	5V, 1.0A Positive Voltage Regulator	TO-3	6.30	4.98	3.99
LM340K-12-ND	12V, 1.0A Positive Voltage Regulator	TO-3	6.30	4.98	3.99
LM340K-15-ND	15V, 1.0A Positive Voltage Regulator	TO-3	6.30	4.98	3.99
LM340LAH-5.0-ND	5V, 100mA Positive Voltage Regulator	TO-39	4.00	3.04	2.32
LM340LAH-12-ND	12V, 100mA Positive Voltage Regulator	TO-39	4.00	3.04	2.32
LM340LAZ-5.0-ND	5V, 100mA Positive Voltage Regulator	TO-92	.94	.69	.50
LM340LAZ-12-ND	12V, 100mA Positive Voltage Regulator	TO-92	.94	.69	.50
LM340MP-5.0CT-ND	5V, 1A Voltage Regulator	SOT-223	1.05	.77	.56
LM340MP-5.0TR-ND	5V, 1A Voltage Regulator	SOT-223		364.00/1,000	
LM340S-5.0-ND	5V, Series 3-Terminal Positive Regulator	TO-263	1.76	1.30	.94
LM340SX-5.0TR-ND	5V, Series 3-Terminal Positive Regulator	TO-263		312.55/500	
LM340S-12-ND	12V, Series 3-Terminal Positive Regulator	TO-263	1.76	1.30	.94
LM340T-5.0-ND	5V, 1.0A Positive Voltage Regulator (7805)	TO-220	1.50	1.10	.80
LM340T-12-ND	12V, 1.0A Positive Voltage Regulator (7812)	TO-220	1.50	1.10	.80
LM340T-15-ND	15V, 1.0A Positive Voltage Regulator (7815)	TO-220	1.50	1.10	.80
LM341T-5.0-ND	5V, 500mA Voltage Regulator	TO-220	1.50	1.10	.80
LM341T-15-ND	15V, 500mA Voltage Regulator	TO-220	1.50	1.10	.80
LM348M-ND	Quad 741 Operational Amp	14-SOIC	.94	.69	.50

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Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LM348NNS-ND	Quad 741 Operational Amp	14-Dip	1.13	.83	.60
LM350AT-ND	3A, 3-Terminal Positive Adjustable Voltage Regulator	TO-220	2.85	2.17	1.66
LM350K STEELNS-ND	3A, 3-Terminal Positive Adjustable Voltage Regulator	TO-3	6.08	4.62	3.53
LM350TNS-ND	3A, 3-Terminal Positive Adjustable Voltage Regulator	TO-220	2.29	1.71	1.26
LM358AMNS-ND	Low Power Dual Op Amp	8-SOIC	.81	.59	.43
LM358AMXTR-ND	Low Power Dual Op Amp	8-SOIC		598.50/2,500	
LM358ANNS-ND	Low Power Dual Op Amp (Elect. Improv.)	8-Dip	.95	.69	.50
LM358BPCT-ND	Low Power Dual Op Amp	8-microSMD	.68	.49	.36
LM358BPTR-ND	Low Power Dual Op Amp	8-microSMD		63.75/250	
LM358MNS-ND	Low Power Dual Op Amp	8-SOIC	.77	.56	.40
LM358MX-ND	Low Power Dual Op Amp	8-SOIC		565.25/2,500	
LM358NNS-ND	Low Power Dual Op Amp	8-Dip	.86	.62	.45
LM359M-ND	Dual, High Speed Prog. Current Mode (Norton) Amp	14-SOIC	2.75	2.09	1.60
LM359N-ND	High Speed Norton Op Amp	14-Dip	2.90	2.21	1.69
LM360H-ND	High Speed Differential Comparator	TO-5	5.80	4.41	3.37
LM360M-ND	High Speed Differential Comparator	8-SOIC	4.25	3.23	2.47
LM360N-ND	High Speed Differential Comparator	8-Dip	4.25	3.23	2.47
LM361H-ND	High Speed Differential Comparator	H10C	4.75	3.61	2.76
LM361M-ND	High Speed Differential Comparator	14-SOIC	3.01	2.24	1.65
LM361N-ND	High Speed Differential Comparator	14-Dip	3.01	2.24	1.65
LM380N-ND	2.5 Watt Audio Power Amplifier	14-Dip	1.65	1.21	.88
LM380N-8-ND	2.5 Watt Audio Amplifier	8-Dip	1.54	1.13	.82
LM384N-ND	5 Watt Audio Amplifier	14-Dip	1.69	1.24	.90
LM385BM-ND	Adj. Micropower Voltage Reference	8-SOIC	1.05	.77	.56
LM385BM-1.2-ND	1.2V, Reference Diode 150ppm/°C	8-SOIC	1.01	.75	.54
LM385BMX-1.2TR-ND	1.2V, Reference Diode 150ppm/°C	8-SOIC		860.63/2,500	
LM385BM-2.5-ND	2.5V, Reference Diode 150ppm/°C	8-SOIC	1.01	.75	.54
LM385BMX-2.5TR-ND	2.5V, Reference Diode 150ppm/°C	8-SOIC		860.63/2,500	
LM385BXM-2.5-ND	2.5V, Micropower Voltage Reference Diode	8-SOIC	2.85	2.12	1.57
LM385BXZ-ND	Adjustable Micropower Voltage Reference Diode	TO-92	2.85	2.12	1.57
LM385BXZ-2.5-ND	2.5V, Reference Diode 30ppm/°C	TO-92	2.76	2.05	1.52
LM385BYM-1.2-ND	1.2V, Micropower Voltage Reference Diode	8-SOIC	2.20	1.64	1.21
LM385BYZ-1.2-ND	1.2V, Precision Voltage Reference 50ppm/°C	TO-92	2.20	1.64	1.21
LM385BYZ-2.5-ND	2.5V, Precision Voltage Reference 50ppm/°C	TO-92	2.20	1.64	1.21
LM385BYZ-ND	Adjustable Reference Diode	TO-92	2.20	1.64	1.21
LM385BZ-ND	Adjustable Micropower Voltage Reference Diode	TO-92	.98	.72	.52
LM385BZ-1.2NS-ND	Micropower Voltage Reference Diode	TO-92	.98	.72	.52
LM385BZ-2.5NS-ND	2.5V, Voltage Reference Diode	TO-92	.98	.72	.52
LM385M-ND	Adjustable Voltage Reference Diode	8-SOIC	.86	.62	.45
LM385MXTR-ND	Adjustable Voltage Reference Diode	8-SOIC		631.75/2,500	
LM385M-1.2-ND	1.2V, Voltage Reference Diode	8-SOIC	.81	.59	.43
LM385MX-1.2TR-ND	1.2V, Voltage Reference Diode	8-SOIC		598.50/2,500	
LM385M-2.5-ND	2.5V, Voltage Reference Diode 150ppm/°C	8-SOIC	.81	.59	.43
LM385MX-2.5TR-ND	2.5V, Voltage Reference Diode 150ppm/°C	8-SOIC		598.50/2,500	
LM385M3-2.5CT-ND	2.5V, Micropower Voltage Reference Diode	SOT-23	1.20	.88	.64
LM385M3-2.5TR-ND	2.5V, Micropower Voltage Reference Diode	SOT-23		416.00/1,000	
LM385M3X-2.5CT-ND	2.5V, Voltage Reference Diode	SOT-23	1.20	.88	.64
LM385M3X-2.5TR-ND	2.5V, Voltage Reference Diode	SOT-23		1224.00/3,000	
LM385Z-ND	Adjustable Voltage Reference Diode	TO-92	.81	.59	.43
LM385Z-1.2NS-ND	1.2V, Voltage Reference Diode	TO-92	.81	.59	.43
LM385Z-2.5NS-ND	2.5V, Voltage Reference Diode	TO-92	.81	.59	.43
LM386M-1-ND	Low Voltage Audio Power Amp	8-SOIC	.72	.52	.38
LM386N-1-ND	Low Voltage Audio Power Amp, Vs=6V	8-Dip	.86	.62	.45
LM386N-3-ND	Low Voltage Audio Power Amp, Vs=9V	8-Dip	.95	.69	.50
LM386N-4-ND	Low Voltage Audio Power Amp, Vs=16V	8-Dip	.94	.69	.50
LM392M-ND	Single Op Amp and Comparator	8-SOIC	1.69	1.24	.90
LM392MXTR-ND	Single Op Amp and Comparator	8-SOIC		1434.38/2,500	
LM392N-ND	Op Amp and Comparator	8-Dip	1.61	1.20	.89
LM393MNS-ND	Low Power Low Offset Voltage Dual Comparator	8-SOIC	.77	.56	.40
LM393MXTR-ND	Low Power Low Offset Voltage Dual Comparator	8-SOIC		565.25/2,500	
LM393NNS-ND	Dual Comparator	8-Dip	.86	.62	.45
LM394CH-ND	Super Matched NPN Pairs	TO-5	5.80	4.59	3.68
LM395T-ND	Ultra Reliable High Gain Power Transistor	TO-220	3.38	2.57	1.96
LM399H-ND	Precision Reference	TO-46	4.75	3.61	2.76
LM431ACM-ND	Adjustable Precision Zener Shunt Regulator	8-SOIC	.54	.39	.29
LM431ACMXTR-ND	Adjustable Precision Zener Shunt Regulator	8-SOIC		399.00/2,500	
LM431ACM3XCT-ND	Adjustable Precision Zener Shunt Regulator	SOT-23	.54	.39	.29
LM431ACM3XTR-ND	Adjustable Precision Zener Shunt Regulator	SOT-23		478.80/3,000	
LM431ACZ-ND	Adjustable Precision Zener Shunt Regulator	TO-92	.61	.44	.32
LM431AIBPCT-ND	Adjustable Precision Zener Shunt Regulator	4-microSMD	.55	.40	.29
LM431AIBPTR-ND	Adjustable Precision Zener Shunt Regulator	4-microSMD		52.50/250	
LM431AIM3CT-ND	Adjustable Precision Zener Shunt Regulator	SOT-23	.58	.43	.31
LM431AIM3TR-ND	Adjustable Precision Zener Shunt Regulator	SOT-23		159.00/1,000	
LM431AIMXCT-ND	Adjustable Precision Zener Shunt Regulator	8-SOIC	.54	.39	.29
LM431AIMXTR-ND	Adjustable Precision Zener Shunt Regulator	8-SOIC		399.00/2,500	
LM431AIZ-ND	Adjustable Precision Zener Shunt Regulator, Ind. Temp.	TO-92	.54	.39	.29
LM431BCM-ND	Adjustable Precision Zener Shunt Regulator	SOT-8	.54	.39	.29
LM431BCM3CT-ND	Adjustable Precision Zener Shunt Regulator	SOT-23	.54	.39	.29
LM431BCM3TR-ND	Adjustable Precision Zener Shunt Regulator	SOT-23		168.00/1,000	
LM431BCZ-ND	Adjustable Precision Zener Shunt Regulator	TO-92	.54	.39	.29
LM431BIM-ND	Adjustable Precision Zener Shunt Regulator	8-SOIC	.59	.43	.31
LM431BIM3CT-ND	Adjustable Precision Zener Shunt Regulator	SOT-23	.60	.44	.32
LM431BIM3TR-ND	Adjustable Precision Zener Shunt Regulator	SOT-23		187.60/1,000	
LM431BIZ-ND	Adjustable Precision Zener Shunt Regulator	TO-92	.59	.43	.31
LM431CCM3CT-ND	Adjustable Precision Zener Shunt Regulator	SOT-23	1.01	.75	.54
LM431CCM3TR-ND	Adjustable Precision Zener Shunt Regulator	SOT-23		348.40/1,000	
LM431CCZ-ND	Adjustable Precision Zener Shunt Regulator	TO-92	.96	.71	.52
LM431CIM-ND	Adjustable Precision Zener Shunt Regulator	8-SOIC	1.06	.78	.57
LM431CIM3CT-ND	Adjustable Precision Zener Shunt Regulator	SOT-23	1.11	.82	.59
LM431CIM3TR-ND	Adjustable Precision Zener Shunt Regulator	SOT-23		383.50/1,000	
LM431CIZ-ND	Adjustable Precision Zener Shunt Regulator	TO-92	1.06	.78	.57
LM555CM-ND	Timer	8-SOIC	.72	.52	.38
LM555CMXTR-ND	Timer	8-SOIC		532.00/2,500	
LM555CMMCT-ND	Timer	8-MSOP	.81	.59	.43
LM555CMMTR-ND	Timer	8-MSOP		252.00/1,000	
LM555CNNS-ND	Timer	8-Dip	.86	.62	.45
LM556CM-ND	Dual Timer	14-SOIC	1.09	.80	.58
LM556CMXTR-ND	Dual Timer	14-SOIC		924.38/2,500	
LM556CN-ND	Timer	14-Dip	1.24	.91	.66
LM565CN-ND	Phase Lock Loop	14-Dip	2.05	1.52	1.13
LM567CM-ND	Tone Decoder Phase Lock Loop	8-SOIC	.90	.65	.47
LM567CMXTR-ND	Tone Decoder Phase Lock Loop	8-SOIC		665.00/2,500	
LM567CN-ND	Tone Decoder Phase Lock Loop	8-Dip	1.04	.75	.55
LM611CM-ND	Op Amp and Adjustable Reference	14-SOIC	2.14	1.59	1.18
LM611IM-ND	Op Amp and Adjustable Reference	14-SOIC	2.42	1.80	1.33

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LM613IWM-ND	Dual Op Amp, Dual Comparator and Adj. Reference	16-SOIC	2.78	2.11	1.61
LM614CWM-ND	Quad Op Amp with Adjustable Reference	16-SOIC	3.01	2.24	1.65
LM628N-6-ND	Precision Motion Controller, 6MHz	28-Dip	24.75	23.10	21.45
LM628N-8-ND	Precision Motion Controller, 8MHz	28-Dip	39.15	36.54	33.93
LM629M-6-ND	Precision Motion Controller, 6MHz	24-SOIC	24.75	23.10	21.45
LM629M-8-ND	Precision Motion Controller, 8MHz	24-SOIC	39.15	36.54	33.93
LM629N-6-ND	Precision Motion Controller, 6MHz	28-Dip	24.75	23.10	21.45
LM629N-8-ND	8-Bit PWM Motion Controller	28-Dip	39.15	36.54	33.93
LM675T-ND	Power Operational Amplifier	TO-220-5	5.68	4.32	3.30
LM709CH-ND	General Purpose Op Amp	TO-5	3.93	2.99	2.28
LM709H-ND	General Purpose Op Amp	TO-5	4.95	3.77	2.88
LM723CH-ND	150mA Positive Adjustable Voltage Regulator	TO-5	3.25	2.47	1.89
LM723CNNS-ND	Precision Voltage Regulator	14-Dip	.94	.69	.50
LM723H-ND	2V-37V, Adjustable Voltage Regulator	TO-5	4.03	3.06	2.34
LM725CH-ND	Instrumentation Op Amp	TO-5	5.15	3.92	2.99
LM725CN-ND	Instrumentation Op Amp	8-Dip	2.63	2.00	1.53
LM741CH-ND	18V, High Performance Op Amp	TO-5	3.10	2.36	1.80
LM741CNNS-ND	18V, High Performance Op Amp	8-Dip	.72	.52	.38
LM741H-ND	High Performance Op Amp High Temp	TO-5	3.93	2.99	2.28
LM747H-ND	Dual High Performance Op Amp Low Offset	TO-5	4.33	3.29	2.51
LM809M3-2.63CT-ND	3-Pin Microprocessor Reset Circuits, 2.63V	SOT-23	.72	.52	.38
LM809M3-2.63TR-ND	3-Pin Microprocessor Reset Circuits, 2.63V	SOT-23		224.00/1,000	
LM809M3-2.93CT-ND	3-Pin Microprocessor Reset Circuits, 2.93V	SOT-23	.72	.52	.38
LM809M3-2.93TR-ND	3-Pin Microprocessor Reset Circuits, 2.93V	SOT-23		224.00/1,000	
LM809M3-3.08CT-ND	3-Pin Microprocessor Reset Circuits, 3.08V	SOT-23	.72	.52	.38
LM809M3-3.08TR-ND	3-Pin Microprocessor Reset Circuits, 3.08V	SOT-23		224.00/1,000	
LM809M3-4.00CT-ND	3-Pin Microprocessor Reset Circuits, 4.00V	SOT-23	.72	.52	.38
LM809M3-4.00TR-ND	3-Pin Microprocessor Reset Circuits, 4.00V	SOT-23		224.00/1,000	
LM809M3-4.38CT-ND	3-Pin Microprocessor Reset Circuits, 4.38V	SOT-23	.72	.52	.38
LM809M3-4.38TR-ND	3-Pin Microprocessor Reset Circuits, 4.38V	SOT-23		224.00/1,000	
LM809M3-4.63CT-ND	3-Pin Microprocessor Reset Circuits, 4.63V	SOT-23	.72	.52	.38
LM809M3-4.63TR-ND	3-Pin Microprocessor Reset Circuits, 4.63V	SOT-23		224.00/1,000	
LM810M3-2.63CT-ND	3-Pin Microprocessor Reset Circuits, 2.63V	SOT-23	.72	.52	.38
LM810M3-2.63TR-ND	3-Pin Microprocessor Reset Circuits, 2.63V	SOT-23		224.00/1,000	
LM810M3-2.93CT-ND	3-Pin Microprocessor Reset Circuits, 2.93V	SOT-23	.72	.52	.38
LM810M3-2.93TR-ND	3-Pin Microprocessor Reset Circuits, 2.93V	SOT-23		224.00/1,000	
LM810M3-3.08CT-ND	3-Pin Microprocessor Reset Circuits, 3.08V	SOT-23	.72	.52	.38
LM810M3-3.08TR-ND	3-Pin Microprocessor Reset Circuits, 3.08V	SOT-23		224.00/1,000	
LM810M3-4.00CT-ND	3-Pin Microprocessor Reset Circuits, 4.00V	SOT-23	.72	.52	.38
LM810M3-4.00TR-ND	3-Pin Microprocessor Reset Circuits, 4.00V	SOT-23		224.00/1,000	
LM810M3-4.38CT-ND	3-Pin Microprocessor Reset Circuits, 4.38V	SOT-23	.72	.52	.38
LM810M3-4.38TR-ND	3-Pin Microprocessor Reset Circuits, 4.38V	SOT-23		224.00/1,000	
LM810M3-4.63CT-ND	3-Pin Microprocessor Reset Circuits, 4.63V	SOT-23	.72	.52	.38
LM810M3-4.63TR-ND	3-Pin Microprocessor Reset Circuits, 4.63V	SOT-23		224.00/1,000	
LM828M5CT-ND	Switched Capacitor Voltage Converter	SOT-23-5	.90	.65	.47
LM828M5TR-ND	Switched Capacitor Voltage Converter	SOT-23-5		280.00/1,000	
LM828M5XTR-ND	Switched Capacitor Voltage Converter	SOT-23-5		798.00/3,000	
LM833M-ND	Dual Audio Op Amp	8-SOIC	.81	.59	.43
LM833MXTR-ND	Dual Audio Op Amp	8-SOIC		598.50/2,500	
LM833MMCT-ND	Dual Audio Op Amp	8-MSOP	.81	.59	.43
LM833MMTR-ND	Dual Audio Op Amp	8-MSOP		252.00/1,000	
LM833NNS-ND	Dual Audio Op Amp	8-Dip	1.08	.78	.57
LM837M-ND	Low Noise Quad Op Amp	14-SOIC	1.55	1.15	.85
LM837MXTR-ND	Low Noise Quad Op Amp	14-SOIC		1562.50/2,500	
LM837N-ND	Low Noise Quad Op Amp	14-Dip	1.55	1.15	.85
LM1036M-ND	Tone/Volume/Balance Circuit	20-SOIC	3.07	2.28	1.69
LM1036N-ND	Dual DC Oper. Tone/Volume/Balance Circuit	20-Dip	3.07	2.28	1.69
LM1084IS-ADJ-ND	Adjustable Voltage 5A Low Dropout Positive Regulator	TO-263	2.75	2.09	1.60
LM1084IS-3.3-ND	3.3V, 5A LDO Positive Regulator	TO-263	2.75	2.09	1.60
LM1084IS-5.0-ND	5V, 5A LDO Positive Regulator	TO-263	2.75	2.09	1.60
LM1084IS-12-ND	12V, 5A LDO Positive Regulator	TO-263	2.75	2.09	1.60
LM1084IT-ADJ-ND	Adjustable Voltage 5A LDO Positive Regulator	TO-220	2.75	2.09	1.60
LM1084IT-3.3-ND	3.3V, 5A LDO Positive Regulator	TO-220	2.75	2.09	1.60
LM1084IT-5.0-ND	5V, 5A LDO Positive Regulator	TO-220	2.75	2.09	1.60
LM1084IT-12-ND	12V, 5A LDO Positive Regulator	TO-220	2.75	2.09	1.60
LM1085IS-ADJ-ND	Adjustable Voltage 3A Low Dropout Positive Regulator	TO-263	2.64	1.96	1.45
LM1085IS-3.3-ND	3.3V, 3A LDO Positive Regulator	TO-263	2.64	1.96	1.45
LM1085IS-5.0-ND	5V, 3A LDO Positive Regulator	TO-263	2.64	1.96	1.45
LM1085IS-12-ND	12V, 3A LDO Positive Regulator	TO-263	2.64	1.96	1.45
LM1085IT-ADJ-ND	Adjustable Voltage 3A LDO Positive Regulator	TO-220	2.64	1.96	1.45
LM1085IT-3.3-ND	3.3V, 3A LDO Positive Regulator	TO-220	2.64	1.96	1.45
LM1085IT-5.0-ND	5V, 3A LDO Positive Regulator	TO-220	2.64	1.96	1.45
LM1085IT-12-ND	12V, 3A LDO Positive Regulator	TO-220	2.64	1.96	1.45
LM1086CS-ADJ-ND	Adjustable Voltage 1.5A LDO Positive Regulator	TO-263	2.11	1.57	1.16
LM1086CS-2.5-ND	2.5V, 1.5A LDO Positive Regulator	TO-263	2.11	1.57	1.16
LM1086CS-2.85-ND	2.85V, 1.5A LDO Positive Regulator	TO-263	2.11	1.57	1.16
LM1086CS-3.3-ND	3.3V, 1.5A LDO Positive Regulator	TO-263	2.11	1.57	1.16
LM1086CS-5.0-ND	5V, 1.5A LDO Positive Regulator	TO-263	2.11	1.57	1.16
LM1086CT-ADJ-ND	Adjustable Voltage 1.5A LDO Positive Regulator	TO-220	2.11	1.57	1.16
LM1086CT-2.85-ND	2.85V, 1.5A LDO Positive Regulator	TO-220	2.11	1.57	1.16
LM1086CT-3.3-ND	3.3V, 1.5A LDO Positive Regulator	TO-220	2.11	1.57	1.16
LM1086CT-5.0-ND	5V, 1.5A LDO Positive Regulator	TO-220	2.11	1.57	1.16
LM1086IS-ADJ-ND	Adjustable Voltage 1.5A LDO Positive Regulator	TO-263	2.14	1.59	1.18
LM1086IS-3.3-ND	3.3V, 1.5A LDO Positive Regulator	TO-263	2.14	1.59	1.18
LM1086IS-5.0-ND	5V, 1.5A LDO Positive Regulator	TO-263	2.14	1.59	1.18
LM1086IT-ADJ-ND	Adjustable Voltage 1.5A LDO Positive Regulator	TO-220	2.14	1.59	1.18
LM1086IT-2.85-ND	2.85V, 1.5A LDO Positive Regulator	TO-220	2.14	1.59	1.18
LM1086IT-3.3-ND	3.3V, 1.5A LDO Positive Regulator	TO-220	2.14	1.59	1.18
LM1086IT-5.0-ND	5V, 1.5A LDO Positive Regulator	TO-220	2.14	1.59	1.18
LM1117DT-ADJ-ND	Adjustable Voltage 800mA LDO Linear Regulator	TO-252	1.39	1.02	.74
LM1117DT-2.5-ND	2.5V, 800mA LDO Linear Regulator	TO-252	1.39	1.02	.74
LM1117DT-2.85-ND	2.85V, 800mA LDO Linear Regulator	TO-252	1.39	1.02	.74
LM1117DT-3.3-ND	3.3V, 800mA LDO Linear Regulator	TO-252	1.39	1.02	.74
LM1117DT-5.0-ND	5V, 800mA LDO Linear Regulator	TO-252	1.39	1.02	.74
LM1117DTX-3.3TR-ND	3.3V, 800mA LDO Linear Regulator	TO-252		1179.38/2,500	
LM1117IDT-3.3-ND	3.3V, 800mA LDO Linear Regulator	TO-252	1.46	1.08	.78
LM1117IDT-5.0-ND	5.0V, 800mA LDO Linear Regulator	TO-252	1.46	1.08	.78
LM1117IMP-ADJCT-ND	Adjustable Voltage 800mA LDO Linear Regulator	SOT-223	1.13	.83	.60
LM1117IMP-ADJTR-ND	Adjustable Voltage 800mA LDO Linear Regulator	SOT-223		390.00/1,000	
LM1117IMP-3.3CT-ND	3.3V, 800mA LDO Linear Regulator	SOT-223	1.13	.83	.60
LM1117IMP-3.3TR-ND	3.3V, 800mA LDO Linear Regulator	SOT-223		390.00/1,000	
LM1117IMP-5.0CT-ND	5.0V, 800mA LDO Linear Regulator	SOT-223	1.13	.83	.60
LM1117IMP-5.0TR-ND	5.0V, 800mA LDO Linear Regulator	SOT-223		390.00/1,000	
LM1117MP-ADJCT-ND	Adjustable Voltage 800mA LDO Linear Regulator	SOT-223	1.05	.77	.56
LM1117MP-ADJTR-ND	Adjustable Voltage 800mA LDO Linear Regulator	SOT-223		364.00/1,000	

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Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LM2623MMTR-ND	GP Low Vin, Low Ripple DC-DC Boost Converter	8-MSOP	1058.56/1,000		
LM2633MTD-ND	2 Phase Sync. Triple Reg. Controller	48-TSSOP	6.18	4.70	3.59
LM2635M-ND	5-Bit Programmable Sync. Buck Reg. Controller	20-SOIC	3.85	2.93	2.24
LM2635MXTR-ND	5-Bit Programmable Sync. Buck Reg. Controller	20-SOIC	1940.40/1,000		
LM2636M-ND	5-Bit Programmable Sync. Buck Reg. Controller	20-SOIC	3.80	2.89	2.21
LM2636MTC-ND	5-Bit Programmable Sync. Buck Reg. Controller	20-TSSOP	3.80	2.89	2.21
LM2637M-ND	Motherboard Power Supply Solution	24-SOIC	4.33	3.29	2.51
LM2638M-ND	Motherboard Power Supply Solution	24-SOIC	4.33	3.29	2.51
LM2639M-ND	5-Bit Program, Hi Freq. Multiphase PWM Controller	24-SOIC	5.88	4.47	3.41
LM2640MTC-ADJ-ND	Dual Adj. Step Down Switching Power Supply Controller, Switch. Freq. 200kHz	28-TSSOP	6.07	4.80	3.85
LM2641MTC-ADJ-ND	Dual Adj. Step Down Switching Power Supply Controller, Switch. Freq. 300kHz	28-TSSOP	6.07	4.80	3.85
LM2642MTC-ND	2-Phase Sync. Step Down Switching Controller	28-TSSOP	4.28	3.25	2.48
LM2645MTD-ND	Dual Output 2-Phase Switching Controller	48-TSSOP	6.18	4.70	3.59
LM2647LQCT-ND	Dual Sync. Buck Regulator	28-LLP	4.75	3.61	2.76
LM2647LQTR-ND	Dual Sync. Buck Regulator	28-LLP	2394.00/1,000		
LM2647MTC-ND	Dual Sync. Buck Regulator	28-TSSOP	4.75	3.61	2.76
LM2650EVAL-ND	Evaluation Board for LM2650X	—	25.50	—	—
LM2650M-ADJ-ND	Synchronous Step Down DC-DC Converter	24-SOIC	6.07	4.80	3.85
LM2651MTC-ADJ-ND	Adj. 1.5A, High Efficiency Sync. Switching Reg.	16-TSSOP	4.00	3.04	2.32
LM2651MTC-1.8-ND	1.8V, 1.5A, High Efficiency Sync. Switching Reg.	16-TSSOP	4.00	3.04	2.32
LM2651MTC-2.5-ND	2.5V, 1.5A, High Efficiency Sync. Switching Reg.	16-TSSOP	4.00	3.04	2.32
LM2651MTC-3.3-ND	3.3V, 1.5A, High Efficiency Sync. Switching Reg.	16-TSSOP	4.00	3.04	2.32
LM2653MTC-ADJ-ND	Adj. 1.5A, High Efficiency Sync. Switching Reg.	16-TSSOP	4.63	3.52	2.69
LM2655MTC-ADJ-ND	Adj. 2.5A, High Efficiency Sync. Switching Reg.	16-TSSOP	4.00	3.04	2.32
LM2655MTC-3.3-ND	3.3V, 2.5A, High Efficiency Sync. Switching Reg.	16-TSSOP	4.00	3.04	2.32
LM2657MTC-ND	Dual Sync. Buck Regulator Controller ***NEW!***	28-TSSOP	5.48	4.34	3.48
LM2660M-ND	100mA, Switched Capacitor Converter	8-SOIC	1.98	1.48	1.09
LM2661M-ND	100mA, Switched Capacitor Converter with Shutdown	8-SOIC	1.98	1.48	1.09
LM2662M-ND	Switched Capacitor Voltage Converter	8-SOIC	2.57	1.91	1.42
LM2663M-ND	Switched Capacitor Voltage Converter	8-SOIC	2.57	1.91	1.42
LM2664M6CT-ND	Switched Capacitor Voltage Converter, 91% Eff.	SOT-23-6	.98	.72	.52
LM2664M6TR-ND	Switched Capacitor Voltage Converter, 91% Eff.	SOT-23-6	338.00/1,000		
LM2665M6CT-ND	Switched Capacitor Voltage Converter, 90% Eff.	SOT-23-6	.98	.72	.52
LM2665M6TR-ND	Switched Capacitor Voltage Converter, 90% Eff.	SOT-23-6	338.00/1,000		
LM2670S-ADJ-ND	Adj. Simple Switcher High Efficiency 3A Step Down Regulator with Sync.	TO-263-7	4.70	3.58	2.73
LM2670S-3.3-ND	3.3V, Simple Switcher High Efficiency 3A Step Down Voltage Regulator with Sync.	TO-263-7	4.70	3.58	2.73
LM2670S-5.0-ND	5V, Simple Switcher High Efficiency 3A Step Down Voltage Regulator with Sync.	TO-263-7	4.70	3.58	2.73
LM2670S-12-ND	12V, Simple Switcher High Efficiency 3A Step Down Voltage Regulator with Sync.	TO-263-7	4.70	3.58	2.73
LM2670SD-3.3CT-ND	3.3V, Simple Switcher High Efficiency 3A Step Down Voltage Regulator with Sync. ***NEW!***	14-LLP	4.70	3.58	2.73
LM2670SD-3.3TR-ND	3.3V, Simple Switcher High Efficiency 3A Step Down Voltage Regulator with Sync. ***NEW!***	14-LLP	625.10/250		
LM2670SD-5.0CT-ND	5V, Simple Switcher High Efficiency 3A Step Down Voltage Regulator with Sync. ***NEW!***	14-LLP	4.70	3.58	2.73
LM2670SD-5.0TR-ND	5V, Simple Switcher High Efficiency 3A Step Down Voltage Regulator with Sync. ***NEW!***	14-LLP	625.10/250		
LM2670SD-12CT-ND	12V, Simple Switcher High Efficiency 3A Step Down Voltage Regulator with Sync. ***NEW!***	14-LLP	4.70	3.58	2.73
LM2670SD-12TR-ND	12V, Simple Switcher High Efficiency 3A Step Down Voltage Regulator with Sync. ***NEW!***	14-LLP	625.10/250		
LM2670SD-ADJCT-ND	Adj., Simple Switcher High Efficiency 3A Step Down Voltage Regulator with Sync. ***NEW!***	14-LLP	4.70	3.58	2.73
LM2670SD-ADJTR-ND	Adj., Simple Switcher High Efficiency 3A Step Down Voltage Regulator with Sync. ***NEW!***	14-LLP	625.10/250		
LM2670T-ADJ-ND	Adj. Simple Switcher High Efficiency 3A Step Down Regulator with Sync.	TO-220-7	4.70	3.58	2.73
LM2670T-3.3-ND	3.3V, Simple Switcher High Efficiency 3A Step Down Regulator with Sync.	TO-220-7	4.70	3.58	2.73
LM2670T-5.0-ND	5V, Simple Switcher High Efficiency 3A Step Down Regulator with Sync.	TO-220-7	4.70	3.58	2.73
LM2670T-12-ND	12V, Simple Switcher High Efficiency 3A Step Down Regulator with Sync.	TO-220-7	4.70	3.58	2.73
LM2671LD-ADJCT-ND	Adj. Simple Switcher High Efficiency 500mA Step Down Voltage Regulator	16-LLP	3.28	2.49	1.90
LM2671LD-ADJTR-ND	Adj. Simple Switcher High Efficiency 500mA Step Down Voltage Regulator	16-LLP	1650.60/1,000		
LM2671LD-3.3CT-ND	3.3V, Simple Switcher High Efficiency 500mA Step Down Voltage Regulator	16-LLP	3.28	2.49	1.90
LM2671LD-3.3TR-ND	3.3V, Simple Switcher High Efficiency 500mA Step Down Voltage Regulator	16-LLP	1650.60/1,000		
LM2671LD-5.0CT-ND	5V, Simple Switcher High Efficiency 500mA Step Down Voltage Regulator	16-LLP	3.28	2.49	1.90
LM2671LD-5.0TR-ND	5V, Simple Switcher High Efficiency 500mA Step Down Voltage Regulator	16-LLP	1650.60/1,000		
LM2671LD-12CT-ND	12V, Simple Switcher High Efficiency 500mA Step Down Voltage Regulator	16-LLP	3.28	2.49	1.90
LM2671LD-12TR-ND	12V, Simple Switcher High Efficiency 500mA Step Down Voltage Regulator	16-LLP	1650.60/1,000		
LM2671M-ADJ-ND	Adj. Simple Switcher Power Converter High Efficiency 500mA Step Down Voltage Regulator	8-SOIC	3.28	2.49	1.90
LM2671M-3.3-ND	3.3V, Simple Switcher Power Converter High Efficiency 500mA Step Down Voltage Regulator	8-SOIC	3.28	2.49	1.90
LM2671M-5.0-ND	5V, Simple Switcher Power Converter High Efficiency 500mA Step Down Voltage Regulator	8-SOIC	3.28	2.49	1.90
LM2671M-12-ND	12V, Simple Switcher Power Converter High Efficiency 500mA Step Down Voltage Regulator	8-SOIC	3.28	2.49	1.90
LM2671N-ADJ-ND	Adj. Simple Switcher Power Converter High Effieciency 500mA Step Down Voltage Regulator	8-Dip	3.28	2.49	1.90
LM2671N-3.3-ND	3.3V, Simple Switcher Power Converter High Efficiency 500mA Step Down Voltage Regulator	8-Dip	3.28	2.49	1.90
LM2671N-5.0-ND	5V, Simple Switcher Power Converter High Efficiency 500mA Step Down Voltage Regulator	8-Dip	3.28	2.49	1.90
LM2671N-12-ND	12V, Simple Switcher Power Converter High Efficiency 500mA Step Down Voltage Regulator	8-Dip	3.28	2.49	1.90
LM2672LD-ADJCT-ND	Adj. Simple Switcher Power Converter High Efficiency 1A Step Down Voltage Regulator	16-LLP	4.18	3.18	2.43
LM2672LD-ADJTR-ND	Adj. Simple Switcher Power Converter High Efficiency 1A Step Down Voltage Regulator	16-LLP	2104.20/1,000		
LM2672LD-3.3CT-ND	3.3V, Simple Switcher Power Converter High Efficiency 1A Step Down Voltage Regulator	16-LLP	4.18	3.18	2.43
LM2672LD-3.3TR-ND	3.3V, Simple Switcher Power Converter High Efficiency 1A Step Down Voltage Regulator	16-LLP	2104.20/1,000		
LM2672LD-5.0CT-ND	5V, Simple Switcher Power Converter High Efficiency 1A Step Down Voltage Regulator	16-LLP	4.18	3.18	2.43
LM2672LD-5.0TR-ND	5V, Simple Switcher Power Converter High Efficiency 1A Step Down Voltage Regulator	16-LLP	2104.20/1,000		
LM2672LD-12CT-ND	12V, Simple Switcher Power Converter High Efficiency 1A Step Down Voltage Regulator	16-LLP	4.18	3.18	2.43
LM2672LD-12TR-ND	12V, Simple Switcher Power Converter High Efficiency 1A Step Down Voltage Regulator	16-LLP	2104.20/1,000		
LM2672M-ADJ-ND	Adj. Simple Switcher Power Converter High Efficiency 1A Step Down Voltage Regulator	8-SOIC	4.18	3.18	2.43
LM2672M-3.3-ND	3.3V, Simple Switcher Power Converter High Efficiency 1A Step Down Voltage Regulator	8-SOIC	4.18	3.18	2.43
LM2672M-5.0-ND	5V, Simple Switcher Power Converter High Efficiency 1A Step Down Voltage Regulator	8-SOIC	4.18	3.18	2.43
LM2672M-12-ND	12V, Simple Switcher Power Converter High Efficiency 1A Step Down Voltage Regulator	8-SOIC	4.18	3.18	2.43
LM2672N-ADJ-ND	Adj. Simple Switcher Power Converter High Efficiency 1A Step Down Voltage Regulator	8-Dip	4.18	3.18	2.43
LM2672N-3.3-ND	3.3V, Simple Switcher Power Converter High Efficiency 1A Step Down Voltage Regulator	8-Dip	4.18	3.18	2.43
LM2672N-5.0-ND	5V, Simple Switcher Power Converter High Efficiency 1A Step Down Voltage Regulator	8-Dip	4.18	3.18	2.43
LM2672N-12-ND	12V, Simple Switcher Power Converter High Efficiency 1A Step Down Voltage Regulator	8-Dip	4.18	3.18	2.43
LM2673S-ADJ-ND	Adj. Simple Switcher 3A Step Down Voltage Regulator with Adj. Current Limit	TO-263-7	4.70	3.58	2.73
LM2673S-3.3-ND	3.3V, Simple Switcher 3A Step Down Voltage Regulator with Adj. Current Limit	TO-263-7	4.70	3.58	2.73
LM2673S-5.0-ND	5V, Simple Switcher 3A Step Down Voltage Regulator with Adj. Current Limit	TO-263-7	4.70	3.58	2.73
LM2673S-12-ND	12V, Simple Switcher 3A Step Down Voltage Regulator with Adj. Current Limit	TO-263-7	4.70	3.58	2.73
LM2673SD-3.3CT-ND	3.3V, Simple Switcher 3A Step Down Voltage Regulator with Adj. Current Limit ***NEW!***	14-LLP	4.70	3.58	2.73
LM2673SD-3.3TR-ND	3.3V, Simple Switcher 3A Step Down Voltage Regulator with Adj. Current Limit ***NEW!***	14-LLP	625.10/250		
LM2673SD-5.0CT-ND	5V, Simple Switcher 3A Step Down Voltage Regulator with Adj. Current Limit ***NEW!***	14-LLP	4.70	3.58	2.73
LM2673SD-5.0TR-ND	5V, Simple Switcher 3A Step Down Voltage Regulator with Adj. Current Limit ***NEW!***	14-LLP	625.10/250		
LM2673SD-12CT-ND	12V, Simple Switcher 3A Step Down Voltage Regulator with Adj. Current Limit ***NEW!***	14-LLP	4.70	3.58	2.73
LM2673SD-12TR-ND	12V, Simple Switcher 3A Step Down Voltage Regulator with Adj. Current Limit ***NEW!***	14-LLP	625.10/250		
LM2673SD-ADJCT-ND	Adj., Simple Switcher 3A Step Down Voltage Regulator with Adj. Current Limit ***NEW!***	14-LLP	4.70	3.58	2.73
LM2673SD-ADJTR-ND	Adj., Simple Switcher 3A Step Down Voltage Regulator with Adj. Current Limit ***NEW!***	14-LLP	625.10/250		
LM2673T-ADJ-ND	Adj. Simple Switcher 3A Step Down Voltage Regulator with Adj. Current Limit	TO-220-7	4.70	3.58	2.73
LM2673T-3.3-ND	3.3V, Simple Switcher 3A Step Down Voltage Regulator with Adj. Current Limit	TO-220-7	4.70	3.58	2.73
LM2673T-5.0-ND	5V, Simple Switcher 3A Step Down Voltage Regulator with Adj. Current Limit	TO-220-7	4.70	3.58	2.73
LM2673T-12-ND	12V, Simple Switcher 3A Step Down Voltage Regulator with Adj. Current Limit	TO-220-7	4.70	3.58	2.73
LM2674LD-ADJCT-ND	Adj. Simple Switcher Power Converter High Efficiency 500mA Step Down Voltage Regulator	16-LLP	3.10	2.36	1.80
LM2674LD-ADJTR-ND	Adj. Simple Switcher Power Converter High Efficiency 500mA Step Down Voltage Regulator	16-LLP	1562.40/1,000		
LM2674LD-3.3CT-ND	3.3V, Simple Switcher Power Converter High Efficiency 500mA Step Down Voltage Regulator	16-LLP	3.10	2.36	1.80
LM2674LD-3.3TR-ND	3.3V, Simple Switcher Power Converter High Efficiency 500mA Step Down Voltage Regulator	16-LLP	1562.40/1,000		
LM2674LD-5.0CT-ND	5V, Simple Switcher Power Converter High Efficiency 500mA Step Down Voltage Regulator	16-LLP	3.10	2.36	1.80
LM2674LD-5.0TR-ND	5V, Simple Switcher Power Converter High Efficiency 500mA Step Down Voltage Regulator	16-LLP	1562.40/1,000		
LM2674LD-12CT-ND	12V, Simple Switcher Power Converter High Efficiency 500mA Step Down Voltage Regulator	16-LLP	3.10	2.36	1.80
LM2674LD-12TR-ND	12V, Simple Switcher Power Converter High Efficiency 500mA Step Down Voltage Regulator	16-LLP	1562.40/1,000		
LM2674M-ADJ-ND	Adj. Simple Switcher Power Converter High Efficiency 500mA Step Down Voltage Regulator	8-SOIC	3.10	2.36	1.80
LM2674M-3.3-ND	3.3V, Simple Switcher Power Converter High Efficiency 500mA Step Down Voltage Regulator	8-SOIC	3.10	2.36	1.80
LM2674M-5.0-ND	5V, Simple Switcher Power Converter High Efficiency 500mA Step Down Voltage Regulator	8-SOIC	3.10	2.36	1.80
LM2674M-12-ND	12V, Simple Switcher Power Converter High Efficiency 500mA Step Down Voltage Regulator	8-SOIC	3.10	2.36	1.80
LM2674N-ADJ-ND	Adj. Simple Switcher Power Converter High Efficiency 500mA Step Down Voltage Regulator	8-Dip	3.10	2.36	1.80
LM2674N-3.3-ND	3.3V, Simple Switcher Power Converter High Efficiency 500mA Step Down Voltage Regulator	8-Dip	3.10	2.36	1.80
LM2674N-5.0-ND	5V, Simple Switcher Power Converter High Efficiency 500mA Step Down Voltage Regulator	8-Dip	3.10	2.36	1.80
LM2674N-12-ND	12V, Simple Switcher Power Converter High Efficiency 500mA Step Down Voltage Regulator	8-Dip	3.10	2.36	1.80
LM2675LD-ADJCT-ND	Adj. Simple Switcher Power Converter High Efficiency 1A Step Down Voltage Regulator	16-LLP	4.00	3.04	2.32
LM2675LD-ADJTR-ND	Adj. Simple Switcher Power Converter High Efficiency 1A Step Down Voltage Regulator	16-LLP	2016.00/1,000		
LM2675LD-3.3CT-ND	3.3V, Simple Switcher Power Converter High Efficiency 1A Step Down Voltage Regulator	16-LLP	4.00	3.04	2.32
LM2675LD-3.3TR-ND	3.3V, Simple Switcher Power Converter High Efficiency 1A Step Down Voltage Regulator	16-LLP	2016.00/1,000		

(Continued)

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LM2675LD-5.0CT-ND	5V, Simple Switcher Power Converter High Efficiency 1A Step Down Voltage Regulator	16-LLP	4.00	3.04	2.32
LM2675LD-5.0TR-ND	5V, Simple Switcher Power Converter High Efficiency 1A Step Down Voltage Regulator	16-LLP		2016.00/1,000	
LM2675LD-12CT-ND	12V, Simple Switcher Power Converter High Efficiency 1A Step Down Voltage Regulator	16-LLP	4.00	3.04	2.32
LM2675LD-12TR-ND	12V, Simple Switcher Power Converter High Efficiency 1A Step Down Voltage Regulator	16-LLP		2016.00/1,000	
LM2675M-ADJ-ND	Adj. Simple Switcher Power Converter High Efficiency 1A Step Down Voltage Regulator	8-SOIC	4.00	3.04	2.32
LM2675M-3.3-ND	3.3V, Simple Switcher Power Converter High Efficiency 1A Step Down Voltage Regulator	8-SOIC	4.00	3.04	2.32
LM2675M-5.0-ND	5V, High-Efficiency Switcher, 1A, Step-Down Voltage Regulator	8-SOIC	4.00	3.04	2.32
LM2675M-12-ND	12V, Simple Switcher Power Converter High Efficiency 1A Step Down Voltage Regulator	8-SOIC	4.00	3.04	2.32
LM2675N-ADJ-ND	Adj. Simple Switcher Power Converter High Efficiency 1A Step Down Voltage Regulator	8-Dip	4.00	3.04	2.32
LM2675N-3.3-ND	3.3V, Simple Switcher Power Converter High Efficiency 1A Step Down Voltage Regulator	8-Dip	4.00	3.04	2.32
LM2675N-5.0-ND	5V, Simple Switcher Power Converter High Efficiency 1A Step Down Voltage Regulator	8-Dip	4.00	3.04	2.32
LM2675N-12-ND	12V, Simple Switcher Power Converter High Efficiency 1A Step Down Voltage Regulator	8-Dip	4.00	3.04	2.32
LM2676S-ADJ-ND	Adj. Simple Switcher High Efficiency 3A Step Down Voltage Regulator	TO-263-7	4.48	3.41	2.60
LM2676S-3.3-ND	3.3V, Simple Switcher High Efficiency 3A Step Down Voltage Regulator	TO-263-7	4.48	3.41	2.60
LM2676S-5.0-ND	5V, Simple Switcher High Efficiency 3A Step Down Voltage Regulator	TO-263-7	4.48	3.41	2.60
LM2676S-12-ND	12V, Simple Switcher High Efficiency 3A Step Down Voltage Regulator	TO-263-7	4.48	3.41	2.60
LM2676SD-3.3CT-ND	3.3V, Simple Switcher High Efficiency 3A Step Down Voltage Regulator **NEW!**	14-LLP	4.48	3.41	2.60
LM2676SD-3.3TR-ND	3.3V, Simple Switcher High Efficiency 3A Step Down Voltage Regulator **NEW!**	14-LLP		595.18/250	
LM2676SD-5.0CT-ND	5V, Simple Switcher High Efficiency 3A Step Down Voltage Regulator **NEW!**	14-LLP	4.48	3.41	2.60
LM2676SD-5.0TR-ND	5V, Simple Switcher High Efficiency 3A Step Down Voltage Regulator **NEW!**	14-LLP		595.18/250	
LM2676SD-12CT-ND	12V, Simple Switcher High Efficiency 3A Step Down Voltage Regulator **NEW!**	14-LLP	4.48	3.41	2.60
LM2676SD-12TR-ND	12V, Simple Switcher High Efficiency 3A Step Down Voltage Regulator **NEW!**	14-LLP		595.18/250	
LM2676SD-ADJCT-ND	Adj., Simple Switcher High Efficiency 3A Step Down Voltage Regulator **NEW!**	14-LLP	4.48	3.41	2.60
LM2676SD-ADJTR-ND	Adj., Simple Switcher High Efficiency 3A Step Down Voltage Regulator **NEW!**	14-LLP		595.18/250	
LM2676T-ADJ-ND	Adj. Simple Switcher High Efficiency 3A Step Down Voltage Regulator	TO-220-7	4.48	3.41	2.60
LM2676T-3.3-ND	3.3V, Simple Switcher High Efficiency 3A Step Down Voltage Regulator	TO-220-7	4.48	3.41	2.60
LM2676T-5.0-ND	5V, Simple Switcher High Efficiency 3A Step Down Voltage Regulator	TO-220-7	4.48	3.41	2.60
LM2676T-12-ND	12V, Simple Switcher High Efficiency 3A Step Down Voltage Regulator	TO-220-7	4.48	3.41	2.60
LM2677S-ADJ-ND	Adj. Simple Switcher High Efficiency 5A Step Down Voltage Regulator with Sync.	TO-263-7	7.50	5.93	4.75
LM2677S-3.3-ND	3.3V, Simple Switcher High Efficiency 5A Step Down Voltage Regulator with Sync.	TO-263-7	7.50	5.93	4.75
LM2677S-5.0-ND	5V, Simple Switcher High Efficiency 5A Step Down Voltage Regulator with Sync.	TO-263-7	7.50	5.93	4.75
LM2677S-12-ND	12V, Simple Switcher High Efficiency 5A Step Down Voltage Regulator with Sync.	TO-263-7	7.50	5.93	4.75
LM2677SD-3.3CT-ND	3.3V, Simple Switcher High Efficiency 5A Step Down Voltage Regulator with Sync. **NEW!**	14-LLP	7.50	5.93	4.75
LM2677SD-3.3TR-ND	3.3V, Simple Switcher High Efficiency 5A Step Down Voltage Regulator with Sync. **NEW!**	14-LLP		1133.48/250	
LM2677SD-5.0CT-ND	5V, Simple Switcher High Efficiency 5A Step Down Voltage Regulator with Sync. **NEW!**	14-LLP	7.50	5.93	4.75
LM2677SD-5.0TR-ND	5V, Simple Switcher High Efficiency 5A Step Down Voltage Regulator with Sync. **NEW!**	14-LLP		1133.48/250	
LM2677SD-12CT-ND	12V, Simple Switcher High Efficiency 5A Step Down Voltage Regulator with Sync. **NEW!**	14-LLP	7.50	5.93	4.75
LM2677SD-12TR-ND	12V, Simple Switcher High Efficiency 5A Step Down Voltage Regulator with Sync. **NEW!**	14-LLP		1133.48/250	
LM2677SD-ADJCT-ND	Adj., Simple Switcher High Efficiency 5A Step Down Voltage Regulator with Sync. **NEW!**	14-LLP	7.50	5.93	4.75
LM2677SD-ADJTR-ND	Adj., Simple Switcher High Efficiency 5A Step Down Voltage Regulator with Sync. **NEW!**	14-LLP		1133.48/250	
LM2677T-ADJ-ND	Adj. Simple Switcher High Efficiency 5A Step Down Voltage Regulator with Sync.	TO-220-7	7.50	5.93	4.75
LM2677T-3.3-ND	3.3V, Simple Switcher High Efficiency 5A Step Down Voltage Regulator with Sync.	TO-220-7	7.50	5.93	4.75
LM2677T-5.0-ND	5V, Simple Switcher High Efficiency 5A Step Down Voltage Regulator with Sync.	TO-220-7	7.50	5.93	4.75
LM2677T-12-ND	12V, Simple Switcher High Efficiency 5A Step Down Voltage Regulator with Sync.	TO-220-7	7.50	5.93	4.75
LM2678S-ADJ-ND	Adj. Simple Switcher High Efficiency 5A Step Down Voltage Regulator	TO-263-7	6.24	4.94	3.96
LM2678S-3.3-ND	3.3V, Simple Switcher High Efficiency 5A Step Down Voltage Regulator	TO-263-7	6.24	4.94	3.96
LM2678S-5.0-ND	5V, Simple Switcher High Efficiency 5A Step Down Voltage Regulator	TO-263-7	6.24	4.94	3.96
LM2678S-12-ND	12V, Simple Switcher High Efficiency 5A Step Down Voltage Regulator	TO-263-7	6.24	4.94	3.96
LM2678SD-3.3CT-ND	3.3V, Simple Switcher High Efficiency 5A Step Down Voltage Regulator **NEW!**	14-LLP	6.24	4.94	3.96
LM2678SD-3.3TR-ND	3.3V, Simple Switcher High Efficiency 5A Step Down Voltage Regulator **NEW!**	14-LLP		942.98/250	
LM2678SD-5.0CT-ND	5V, Simple Switcher High Efficiency 5A Step Down Voltage Regulator **NEW!**	14-LLP	6.24	4.94	3.96
LM2678SD-5.0TR-ND	5V, Simple Switcher High Efficiency 5A Step Down Voltage Regulator **NEW!**	14-LLP		942.98/250	
LM2678SD-12CT-ND	12V, Simple Switcher High Efficiency 5A Step Down Voltage Regulator **NEW!**	14-LLP	6.24	4.94	3.96
LM2678SD-12TR-ND	12V, Simple Switcher High Efficiency 5A Step Down Voltage Regulator **NEW!**	14-LLP		942.98/250	
LM2678SD-ADJCT-ND	Adj., Simple Switcher High Efficiency 5A Step Down Voltage Regulator **NEW!**	14-LLP	6.24	4.94	3.96
LM2678SD-ADJTR-ND	Adj., Simple Switcher High Efficiency 5A Step Down Voltage Regulator **NEW!**	14-LLP		942.98/250	
LM2678T-ADJ-ND	Adj. Simple Switcher High Efficiency 5A Step Down Voltage Regulator	TO-220-7	6.24	4.94	3.96
LM2678T-3.3-ND	3.3V, Simple Switcher High Efficiency 5A Step Down Voltage Regulator	TO-220-7	6.24	4.94	3.96
LM2678T-5.0-ND	5V, Simple Switcher High Efficiency 5A Step Down Voltage Regulator	TO-220-7	6.24	4.94	3.96
LM2678T-12-ND	12V, Simple Switcher High Efficiency 5A Step Down Voltage Regulator	TO-220-7	6.24	4.94	3.96
LM2679S-ADJ-ND	Adj. Simple Switcher High Efficiency 5A Step Down Regulator with Adj. Current Limit	TO-263-7	6.59	5.22	4.18
LM2679S-3.3-ND	3.3V, Simple Switcher High Efficiency 5A Step Down Regulator with Adj. Current Limit	TO-263-7	6.59	5.22	4.18
LM2679S-5.0-ND	5V, Simple Switcher High Efficiency 5A Step Down Regulator with Adj. Current Limit	TO-263-7	6.59	5.22	4.18
LM2679S-12-ND	12V, Simple Switcher High Efficiency 5A Step Down Regulator with Adj. Current Limit	TO-263-7	6.59	5.22	4.18
LM2679SD-3.3CT-ND	3.3V, Simple Switcher High Efficiency 5A Step Down Regulator with Adj. Current Limit **NEW!**	14-LLP	6.59	5.22	4.18
LM2679SD-3.3TR-ND	3.3V, Simple Switcher High Efficiency 5A Step Down Regulator with Adj. Current Limit **NEW!**	14-LLP		996.95/250	
LM2679SD-5.0CT-ND	5V, Simple Switcher High Efficiency 5A Step Down Regulator with Adj. Current Limit **NEW!**	14-LLP	6.59	5.22	4.18
LM2679SD-5.0TR-ND	5V, Simple Switcher High Efficiency 5A Step Down Regulator with Adj. Current Limit **NEW!**	14-LLP		996.95/250	
LM2679SD-12CT-ND	12V, Simple Switcher High Efficiency 5A Step Down Regulator with Adj. Current Limit **NEW!**	14-LLP	6.59	5.22	4.18
LM2679SD-12TR-ND	12V, Simple Switcher High Efficiency 5A Step Down Regulator with Adj. Current Limit **NEW!**	14-LLP		996.95/250	
LM2679SD-ADJCT-ND	Adj., Simple Switcher High Efficiency 5A Step Down Regulator with Adj. Current Limit **NEW!**	14-LLP	6.59	5.22	4.18
LM2679SD-ADJTR-ND	Adj., Simple Switcher High Efficiency 5A Step Down Regulator with Adj. Current Limit **NEW!**	14-LLP		996.95/250	
LM2679T-ADJ-ND	Adj. Simple Switcher High Efficiency 5A Step Down Regulator with Adj. Current Limit	TO-220-7	6.59	5.22	4.18
LM2679T-3.3-ND	3.3V, Simple Switcher High Efficiency 5A Step Down Regulator with Adj. Current Limit	TO-220-7	6.59	5.22	4.18
LM2679T-5.0-ND	5V, Simple Switcher High Efficiency 5A Step Down Regulator with Adj. Current Limit	TO-220-7	6.59	5.22	4.18
LM2679T-12-ND	12V, Simple Switcher High Efficiency 5A Step Down Regulator with Adj. Current Limit	TO-220-7	6.59	5.22	4.18
LM2681M6CT-ND	Switched Capacitor Volt Converter	SOT-23-6	1.09	.80	.58
LM2681M6TR-ND	Switched Capacitor Volt Converter	SOT-23-6		377.00/1,000	
LM2682M-ND	Switched Capacitor Volt Doubling Inverter	8-SOIC	1.64	1.22	.91
LM2682MMCT-ND	Switched Capacitor Volt Doubling Inverter	8-MSOP	1.64	1.22	.91
LM2682MMTR-ND	Switched Capacitor Volt Doubling Inverter	8-MSOP		678.40/1,000	
LM2685MTC-ND	Dual Out Reg. Switched Capacitor Volt. Converter	14-TSSOP	2.83	2.15	1.64
LM2686MTC-ND	Regulated Switched Capacitor Voltage Converter	14-TSSOP	2.83	2.15	1.64
LM2687LDCT-ND	Low Noise Regulated Switched Capacitor Volt. Inverter	8-LLP	1.67	1.25	.92
LM2687LDTR-ND	Low Noise Regulated Switched Capacitor Volt. Inverter	8-LLP		691.20/1,000	
LM2687MMCT-ND	Low Noise Regulated Switched Capacitor Volt. Inverter	8-MSOP	1.67	1.25	.92
LM2687MMTR-ND	Low Noise Regulated Switched Capacitor Volt. Inverter	8-MSOP		691.20/1,000	
LM2698MM-ADJCT-ND	Adj. 1.35A Simple Switcher Boost Regulator	8-MSOP	4.35	3.31	2.53
LM2698MM-ADJTR-ND	Adj. 1.35A Simple Switcher Boost Regulator	8-MSOP		2192.40/1,000	
LM2700LD-ADJCT-ND	600kHz/1.25MHz, 2.5A, Step-Up PWM DC-DC Converter	14-LLP	4.58	3.48	2.66
LM2700LD-ADJTR-ND	600kHz/1.25MHz, 2.5A, Step-Up PWM DC-DC Converter	14-LLP		2305.80/1,000	
LM2700MT-ADJ-ND	600kHz/1.25MHz, 2.5A, Step-Up PWM DC-DC Converter	14-TSSOP	4.58	3.48	2.66
LM2702MT-ADJ-ND	TFT Panel Module	16-TSSOP	3.33	2.53	1.93
LM2703MF-ADJCT-ND	Adj. Micropower Step-Up DC-DC Converter	SOT-23-5	2.50	1.86	1.38
LM2703MF-ADJTR-ND	Adj. Micropower Step-Up DC-DC Converter	SOT-23-5		1034.24/1,000	
LM2704MF-ADJCT-ND	Adj. Micropower Step-Up DC-DC Converter	SOT-23-5	2.65	1.97	1.46
LM2704MF-ADJTR-ND	Adj. Micropower Step-Up DC-DC Converter	SOT-23-5		1094.40/1,000	
LM2705MF-ADJCT-ND	Step-Up DC-DC Converter w/150mA Peak Current Limit	SOT-23-5	2.41	1.80	1.33
LM2705MF-ADJTR-ND	Step-Up DC-DC Converter w/150mA Peak Current Limit	SOT-23-5		997.12/1,000	
LM2715MT-ADJ-ND	TFT Panel Module	16-TSSOP	3.10	2.36	1.80
LM2716MT-ND	Dual PWM DC-DC Converter	24-TSSOP	5.70	4.34	3.31
LM2722M-ND	High Speed Sync./Async. MOSFET Driver	8-SOIC	3.10	2.36	1.80
LM2724ALDCT-ND	High Speed 3A Sync. MOSFET Driver	8-LLP	3.10	2.36	1.80
LM2724ALDTR-ND	High Speed 3A Sync. MOSFET Driver	8-LLP		1562.40/1,000	
LM2724AM-ND	High Speed 3A Sync. MOSFET Driver	8-SOIC	3.10	2.36	1.80
LM2724ASDCT-ND	High Speed 3A Sync. MOSFET Driver	8-SOIC	3.10	2.36	1.80
LM2724ASDTR-ND	High Speed 3A Sync. MOSFET Driver	8-SOIC		1562.40/1,000	
LM2724LDCT-ND	High Speed 3A Sync. MOSFET Driver	8-LLP	3.10	2.36	1.80
LM2724LDTR-ND	High Speed 3A Sync. MOSFET Driver	8-LLP		1562.40/1,000	
LM2724M-ND	High Speed 3A Sync. MOSFET Driver	8-SOIC	3.10	2.36	1.80
LM2725M-ND	High Speed Synchronous MOSFET Driver	8-SOIC	2.78	2.11	1.67
LM2726M-ND	High Speed Synchronous MOSFET Driver	8-SOIC	3.13	2.38	1.82
LM2727MTC-ND	N-Ch. FET Sync. Buck Regulator Controller	14-TSSOP	2.98	2.27	1.73
LM2731XMFCT-ND	0.6/1.6MHz Boost Converter with 22V Internal FET Switch	SOT-23-5	2.58	1.96	1.56
LM2731XMFTR-ND	0.6/1.6MHz Boost Converter with 22V Internal FET Switch	SOT-23-5		1297.80/1,000	
LM2731YMFCT-ND	0.6/1.6MHz Boost Converter with 22V Internal FET Switch	SOT-23-5	2.58	1.96	1.56
LM2731YMFTR-ND	0.6/1.6MHz Boost Converter with 22V Internal FET Switch	SOT-23-5		1297.80/1,000	
LM2733XMFCT-ND	0.6/1.6MHz Boost Converter with 40V Internal FET Switch	SOT-23-5	2.58	1.96	1.56

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Key No.	Description	Pkg.	Price Each★ 1	25	100
10YQMM-232TR-ND	2.32V, Microprocessor Supervisory Circuit with Power Fail Input	10-MSOP		1323.00/1,000	
11XKBP-232CT-ND	2.32V, Microprocessor Supervisory Circuit with Power Fail Input	9-microSMD.	2.85	2.17	1.66
11XKBP-232TR-ND	2.32V, Microprocessor Supervisory Circuit with Power Fail Input	9-microSMD		379.05/250	
11XKBP-463CT-ND	4.63V, Microprocessor Supervisory Circuit with Power Fail Input	9-microSMD	2.85	2.17	1.66
11XKBP-463TR-ND	4.63V, Microprocessor Supervisory Circuit with Power Fail Input	9-microSMD		379.05/250	
11XKMM-232CT-ND	2.32V, Microprocessor Supervisory Circuit with Power Fail Input	10-MSOP	2.63	2.00	1.53
11XKMM-232TR-ND	2.32V, Microprocessor Supervisory Circuit with Power Fail Input	10-MSOP		1323.00/1,000	
11XKMM-463CT-ND	4.63V, Microprocessor Supervisory Circuit with Power Fail Input	10-MSOP	2.63	2.00	1.53
11XKMM-463TR-ND	4.63V, Microprocessor Supervisory Circuit with Power Fail Input	10-MSOP		1323.00/1,000	
11XQBP-308CT-ND	3.08V, Microprocessor Supervisory Circuit with Power Fail Input	9-microSMD	2.85	2.17	1.66
11XQBP-308TR-ND	3.08V, Microprocessor Supervisory Circuit with Power Fail Input	9-microSMD		379.05/250	
11XQMM-308CT-ND	3.08V, Microprocessor Supervisory Circuit with Power Fail Input	10-MSOP	2.63	2.00	1.53
11XQMM-308TR-ND	3.08V, Microprocessor Supervisory Circuit with Power Fail Input	10-MSOP		1323.00/1,000	
12XQBP-308CT-ND	3.08V, Microprocessor Supervisory Circuit with Power Fail Input	9-microSMD	2.85	2.17	1.66
12XQBP-308TR-ND	3.08V, Microprocessor Supervisory Circuit with Power Fail Input	9-microSMD		379.05/250	
13XQBP-308CT-ND	3.08V, Microprocessor Supervisory Circuit with Power Fail Input	9-microSMD	2.85	2.17	1.66
13XQBP-308TR-ND	3.08V, Microprocessor Supervisory Circuit with Power Fail Input	9-microSMD		379.05/250	
22EM5-2.32CT-ND	2.32V, Microprocessor Reset Circuit	SOT-23-5	2.80	2.08	1.54
22EM5-2.32TR-ND	2.32V, Microprocessor Reset Circuit	SOT-23-5		1155.84/1,000	
22EM5-3.08CT-ND	3.08V, Microprocessor Reset Circuit	SOT-23-5	2.80	2.08	1.54
22EM5-3.08TR-ND	3.08V, Microprocessor Reset Circuit	SOT-23-5		1155.84/1,000	
22EM5-4.63CT-ND	4.63V, Microprocessor Reset Circuit	SOT-23-5	2.80	2.08	1.54
22EM5-4.63TR-ND	4.63V, Microprocessor Reset Circuit	SOT-23-5		1155.84/1,000	
22IM5-2.32CT-ND	2.32V, Microprocessor Reset Circuit	SOT-23-5	2.36	1.75	1.30
22IM5-2.32TR-ND	2.32V, Microprocessor Reset Circuit	SOT-23-5		972.80/1,000	
22IM5-3.08CT-ND	3.08V, Microprocessor Reset Circuit	SOT-23-5	2.36	1.75	1.30
22IM5-3.08TR-ND	3.08V, Microprocessor Reset Circuit	SOT-23-5		972.80/1,000	
22IM5-4.63CT-ND	4.63V, Microprocessor Reset Circuit	SOT-23-5	2.36	1.75	1.30
22IM5-4.63TR-ND	4.63V, Microprocessor Reset Circuit	SOT-23-5		972.80/1,000	
23EM5-2.32CT-ND	2.32V, Microprocessor Reset Circuit	SOT-23-5	2.80	2.08	1.54
23EM5-2.32TR-ND	2.32V, Microprocessor Reset Circuit	SOT-23-5		1155.84/1,000	
23EM5-3.08CT-ND	3.08V, Microprocessor Reset Circuit	SOT-23-5	2.80	2.08	1.54
23EM5-3.08TR-ND	3.08V, Microprocessor Reset Circuit	SOT-23-5		1155.84/1,000	
23EM5-4.63CT-ND	4.63V, Microprocessor Reset Circuit	SOT-23-5	2.80	2.08	1.54
23EM5-4.63TR-ND	4.63V, Microprocessor Reset Circuit	SOT-23-5		1155.84/1,000	
23IM5-2.32CT-ND	2.32V, Microprocessor Reset Circuit	SOT-23-5	2.36	1.75	1.30
23IM5-2.32TR-ND	2.32V, Microprocessor Reset Circuit	SOT-23-5		972.80/1,000	
23IM5-3.08CT-ND	3.08V, Microprocessor Reset Circuit	SOT-23-5	2.36	1.75	1.30
23IM5-3.08TR-ND	3.08V, Microprocessor Reset Circuit	SOT-23-5		972.80/1,000	
23IM5-4.63CT-ND	4.63V, Microprocessor Reset Circuit	SOT-23-5	2.36	1.75	1.30
23IM5-4.63TR-ND	4.63V, Microprocessor Reset Circuit	SOT-23-5		972.80/1,000	
24EM5-2.32CT-ND	2.32V, Microprocessor Reset Circuit	SOT-23-5	2.80	2.08	1.54
24EM5-2.32TR-ND	2.32V, Microprocessor Reset Circuit	SOT-23-5		1155.84/1,000	
24EM5-3.08CT-ND	3.08V, Microprocessor Reset Circuit	SOT-23-5	2.80	2.08	1.54
24EM5-3.08TR-ND	3.08V, Microprocessor Reset Circuit	SOT-23-5		1155.84/1,000	
24EM5-4.63CT-ND	4.63V, Microprocessor Reset Circuit	SOT-23-5	2.80	2.08	1.54
24EM5-4.63TR-ND	4.63V, Microprocessor Reset Circuit	SOT-23-5		1155.84/1,000	
24IM5-2.32CT-ND	2.32V, Microprocessor Reset Circuit	SOT-23-5	2.36	1.75	1.30
24IM5-2.32TR-ND	2.32V, Microprocessor Reset Circuit	SOT-23-5		972.80/1,000	
24IM5-3.08CT-ND	3.08V, Microprocessor Reset Circuit	SOT-23-5	2.36	1.75	1.30
24IM5-3.08TR-ND	3.08V, Microprocessor Reset Circuit	SOT-23-5		972.80/1,000	
24IM5-4.63CT-ND	4.63V, Microprocessor Reset Circuit	SOT-23-5	2.36	1.75	1.30
24IM5-4.63TR-ND	4.63V, Microprocessor Reset Circuit	SOT-23-5		972.80/1,000	
12M-1.0-ND	Precision Current Gauge IC with Ultra Low Loss Sense Element and PWM Output, High Side	8-SOIC	3.58	2.72	2.08
12M-7.0-ND	Precision Current Gauge IC with Ultra Low Loss Sense Element and PWM Output, High Side	8-SOIC	3.58	2.72	2.08
13M-1.0-ND	Precision Current Gauge IC with Ultra Low Loss Sense Element and PWM Output, Low Side	8-SOIC	3.58	2.72	2.08
13M-7.0-ND	Precision Current Gauge IC with Ultra Low Loss Sense Element and PWM Output, Low Side	8-SOIC	3.58	2.72	2.08
14M-1.0-ND	Fast Current Gauge IC with Ultra Low Loss Sense Element and PWM Output, High Side	8-SOIC	3.58	2.72	2.08
14M-7.0-ND	Fast Current Gauge IC with Ultra Low Loss Sense Element and PWM Output, High Side	8-SOIC	3.58	2.72	2.08
15M-1.0-ND	Fast Current Gauge IC with Ultra Low Loss Sense Element and PWM Output, Low Side	8-SOIC	3.58	2.72	2.08
15M-7.0-ND	Fast Current Gauge IC with Ultra Low Loss Sense Element and PWM Output, Low Side	8-SOIC	3.58	2.72	2.08
22MM-1.0CT-ND	Precision Current Gauge IC with Internal Zero Ohm Sense Element and PWM Output, High Side	8-MSOP	3.00	2.28	1.74
22MM-1.0TR-ND	Precision Current Gauge IC with Internal Zero Ohm Sense Element and PWM Output, High Side	8-MSOP		1512.00/1,000	
22MM-2.0CT-ND	Precision Current Gauge IC with Internal Zero Ohm Sense Element and PWM Output, High Side	8-MSOP	3.00	2.28	1.74
22MM-2.0TR-ND	Precision Current Gauge IC with Internal Zero Ohm Sense Element and PWM Output, High Side	8-MSOP		1512.00/1,000	
24MM-1.0CT-ND	Precision Current Gauge IC with Internal Zero Ohm Sense Element and PWM Output, Low Side	8-MSOP	3.00	2.28	1.74
24MM-1.0TR-ND	Precision Current Gauge IC with Internal Zero Ohm Sense Element and PWM Output, Low Side	8-MSOP		1512.00/1,000	
24MM-2.0CT-ND	Precision Current Gauge IC with Internal Zero Ohm Sense Element and PWM Output, Low Side	8-MSOP	3.00	2.28	1.74
24MM-2.0TR-ND	Precision Current Gauge IC with Internal Zero Ohm Sense Element and PWM Output, Low Side	8-MSOP		1512.00/1,000	
75T-ND	High Performance 56W Audio Power Amp	TO-220-11	4.95	3.77	2.88
75TF-ND	High Performance 56W Audio Power Amp	TO-220-11	5.15	3.92	2.99
76T-ND	High Performance 56W Audio Power Amp with Mute	TO-220-11	4.75	3.61	2.76

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LM3876TF-ND	High Performance 56W Audio Power Amp with Mute	TO-220-11	4.95	3.77	2.88
LM3886T-ND	High Performance 68W Audio Power Amp with Mute	TO-220-11	5.38	4.09	3.12
LM3886TF-ND	High Performance 68W Audio Power Amp with Mute	TO-220-11	5.58	4.24	3.24
LM3914N-1-ND	Dot/Bar Display Driver	18-Dip	2.85	2.12	1.57
LM3914V-ND	Dot/Bar Graph Display Driver	20-PLCC	3.48	2.65	2.02
LM3915N-1-ND	Dot/Bar Display Driver	18-Dip	2.39	1.78	1.31
LM3916N-1-ND	Dot/Bar Display Driver	18-Dip	2.39	1.78	1.31
LM3940IMP-3.3CT-ND	1A Low Dropout Regulator for 5V to 3.3V Conversion	SOT-223	1.92	1.43	1.06
LM3940IMP-3.3TR-ND	1A Low Dropout Regulator for 5V to 3.3V Conversion	SOT-223		793.60/1,000	
LM3940IS-3.3-ND	1A Low Dropout Regulator for 5V to 3.3V Conversion	TO-263	2.05	1.52	1.13
LM3940ISX-3.3TR-ND	1A Low Dropout Regulator for 5V to 3.3V Conversion	TO-263		429.00/500	
LM3940IT-3.3-ND	1A Low Dropout Regulator for 5V to 3.3V Conversion	TO-220	2.05	1.52	1.13
LM4040AIM3-2.5CT-ND	2.5V, Prec. Micropower Shunt Volt. Reference ±.1%	SOT-23	2.20	1.64	1.21
LM4040AIM3-2.5TR-ND	2.5V, Prec. Micropower Shunt Volt. Reference ±.1%	SOT-23		908.80/1,000	
LM4040AIM3-4.1CT-ND	4.1V, Prec. Micropower Shunt Volt. Reference ±.1%	SOT-23	2.20	1.64	1.21
LM4040AIM3-4.1TR-ND	4.1V, Prec. Micropower Shunt Volt. Reference ±.1%	SOT-23		908.80/1,000	
LM4040AIM3-5.0CT-ND	5V, Prec. Micropower Shunt Volt. Reference ±.1%	SOT-23	2.20	1.64	1.21
LM4040AIM3-5.0TR-ND	5V, Prec. Micropower Shunt Volt. Reference ±.1%	SOT-23		908.80/1,000	
LM4040AIM3-8.2CT-ND	8.2V, Prec. Micropower Shunt Volt. Reference ±.1%	SOT-23	2.20	1.64	1.21
LM4040AIM3-8.2TR-ND	8.2V, Prec. Micropower Shunt Volt. Reference ±.1%	SOT-23		908.80/1,000	
LM4040AIM3-10.0CT-ND	10V, Prec. Micropower Shunt Volt. Reference ±.1%	SOT-23	2.20	1.64	1.21
LM4040AIM3-10.0TR-ND	10V, Prec. Micropower Shunt Volt. Reference ±.1%	SOT-23		908.80/1,000	
LM4040AIM3X-10CT-ND	10V, Prec. Micropower Shunt Volt. Reference ±.1%	SOT-23	2.20	1.64	1.21
LM4040AIM3X-10TR-ND	10V, Prec. Micropower Shunt Volt. Reference ±.1%	SOT-23		2662.50/3,000	
LM4040AIZ-2.5-ND	2.5V, Prec. Micropower Shunt Volt. Reference ±.1%	TO-92	2.20	1.64	1.21
LM4040AIZ-4.1-ND	4.1V, Prec. Micropower Shunt Volt. Reference ±.1%	TO-92	2.20	1.64	1.21
LM4040AIZ-5.0-ND	5V, Prec. Micropower Shunt Volt. Reference ±.1%	TO-92	2.20	1.64	1.21
LM4040AIZ-10.0-ND	10V, Prec. Micropower Shunt Volt. Reference ±.1%	TO-92	2.20	1.64	1.21
LM4040BIM3-2.5CT-ND	2.5V, Prec. Micropower Shunt Volt. Reference ±.2%	SOT-23	1.84	1.35	.98
LM4040BIM3-2.5TR-ND	2.5V, Prec. Micropower Shunt Volt. Reference ±.2%	SOT-23		637.00/1,000	
LM4040BIM3-4.1CT-ND	4.1V, Prec. Micropower Shunt Volt. Reference ±.2%	SOT-23	1.84	1.35	.98
LM4040BIM3-4.1TR-ND	4.1V, Prec. Micropower Shunt Volt. Reference ±.2%	SOT-23		637.00/1,000	
LM4040BIM3-5.0CT-ND	5V, Prec. Micropower Shunt Volt. Reference ±.2%	SOT-23	1.84	1.35	.98
LM4040BIM3-5.0TR-ND	5V, Prec. Micropower Shunt Volt. Reference ±.2%	SOT-23		637.00/1,000	
LM4040BIM3-8.2CT-ND	8.2V, Prec. Micropower Shunt Volt. Reference ±.2%	SOT-23	1.84	1.35	.98
LM4040BIM3-8.2TR-ND	8.2V, Prec. Micropower Shunt Volt. Reference ±.2%	SOT-23		637.00/1,000	
LM4040BIM3-10.0CT-ND	10V, Prec. Micropower Shunt Volt. Reference ±.2%	SOT-23	1.84	1.35	.98
LM4040BIM3-10.0TR-ND	10V, Prec. Micropower Shunt Volt. Reference ±.2%	SOT-23		637.00/1,000	
LM4040BIM7-2.5CT-ND	2.5V, Prec. Micropower Shunt Volt. Reference ±.2%	SC-70-5	1.84	1.35	.98
LM4040BIM7-2.5TR-ND	2.5V, Prec. Micropower Shunt Volt. Reference ±.2%	SC-70-5		637.00/1,000	
LM4040BIM7-4.1CT-ND	4.1V, Prec. Micropower Shunt Volt. Reference ±.2%	SC-70-5	1.84	1.35	.98
LM4040BIM7-4.1TR-ND	4.1V, Prec. Micropower Shunt Volt. Reference ±.2%	SC-70-5		637.00/1,000	
LM4040BIZ-2.5-ND	2.5V, Prec. Micropower Shunt Volt. Reference ±.2%	TO-92	1.84	1.35	.98
LM4040BIZ-4.1-ND	4.1V, Prec. Micropower Shunt Volt. Reference ±.2%	TO-92	1.84	1.35	.98
LM4040BIZ-5.0-ND	5V, Prec. Micropower Shunt Volt. Reference ±.2%	TO-92	1.84	1.35	.98
LM4040CIM3-2.5CT-ND	2.5V, Prec. Micropower Shunt Volt. Reference ±.5%	SOT-23	1.05	.77	.56
LM4040CIM3-2.5TR-ND	2.5V, Prec. Micropower Shunt Volt. Reference ±.5%	SOT-23		364.00/1,000	
LM4040CIM3-4.1CT-ND	4.1V, Prec. Micropower Shunt Volt. Reference ±.5%	SOT-23	1.05	.77	.56
LM4040CIM3-4.1TR-ND	4.1V, Prec. Micropower Shunt Volt. Reference ±.5%	SOT-23		364.00/1,000	
LM4040CIM3-5.0CT-ND	5V, Prec. Micropower Shunt Volt. Reference ±.5%	SOT-23	1.05	.77	.56
LM4040CIM3-5.0TR-ND	5V, Prec. Micropower Shunt Volt. Reference ±.5%	SOT-23		364.00/1,000	
LM4040CIM3-8.2CT-ND	8.2V, Prec. Micropower Shunt Volt. Reference ±.5%	SOT-23	1.05	.77	.56
LM4040CIM3-8.2TR-ND	8.2V, Prec. Micropower Shunt Volt. Reference ±.5%	SOT-23		-364.00/1,000	
LM4040CIM3-10.0CT-ND	10V, Prec. Micropower Shunt Volt. Reference ±.5%	SOT-23	1.05	.77	.56
LM4040CIM3-10.0TR-ND	10V, Prec. Micropower Shunt Volt. Reference ±.5%	SOT-23		364.00/1,000	
LM4040CIM3X-10CT-ND	10V, Prec. Micropower Shunt Volt. Reference ±.5%	SOT-23	1.05	.77	.56
LM4040CIM3X-10TR-ND	10V, Prec. Micropower Shunt Volt. Reference ±.5%	SOT-23		1071.00/3,000	
LM4040CIM7-2.5CT-ND	2.5V, Prec. Micropower Shunt Volt. Reference ±.5%	SC-70-5	1.05	.77	.56
LM4040CIM7-2.5TR-ND	2.5V, Prec. Micropower Shunt Volt. Reference ±.5%	SC-70-5		364.00/1,000	
LM4040CIZ-2.5-ND	2.5V, Prec. Micropower Shunt Volt. Reference ±.5%	TO-92	1.05	.77	.56
LM4040CIZ-4.1-ND	4.1V, Prec. Micropower Shunt Volt. Reference ±.5%	TO-92	1.05	.77	.56
LM4040CIZ-5.0-ND	5V, Prec. Micropower Shunt Volt. Reference ±.5%	TO-92	1.05	.77	.56
LM4040CIZ-8.2-ND	8.2V, Prec. Micropower Shunt Volt. Reference ±.5%	TO-92	1.05	.77	.56
LM4040CIZ-10.0-ND	10V, Prec. Micropower Shunt Volt. Reference ±.5%	TO-92	1.05	.77	.56
LM4040DEM3-2.5CT-ND	2.5V, Prec. Micropower Shunt Volt. Reference ±1%	SOT-23	1.16	.86	.62
LM4040DEM3-2.5TR-ND	2.5V, Prec. Micropower Shunt Volt. Reference ±1%	SOT-23		403.00/1,000	
LM4040DEM3-5.0CT-ND	5V, Prec. Micropower Shunt Volt. Reference ±1%	SOT-23	1.16	.86	.62
LM4040DEM3-5.0TR-ND	5V, Prec. Micropower Shunt Volt. Reference ±1%	SOT-23		403.00/1,000	
LM4040DIM3-2.5CT-ND	2.5V, Prec. Micropower Shunt Volt. Reference ±1%	SOT-23	.94	.69	.50
LM4040DIM3-2.5TR-ND	2.5V, Prec. Micropower Shunt Volt. Reference ±1%	SOT-23		325.00/1,000	
LM4040DIM3-4.1CT-ND	4.1V, Prec. Micropower Shunt Volt. Reference ±1%	SOT-23	.94	.69	.50
LM4040DIM3-4.1TR-ND	4.1V, Prec. Micropower Shunt Volt. Reference ±1%	SOT-23		325.00/1,000	
LM4040DIM3-5.0CT-ND	5V, Prec. Micropower Shunt Volt. Reference ±1%	SOT-23	.94	.69	.50
LM4040DIM3-5.0TR-ND	5V, Prec. Micropower Shunt Volt. Reference ±1%	SOT-23		325.00/1,000	
LM4040DIM3-10.0CT-ND	10V, Prec. Micropower Shunt Volt. Reference ±1%	SOT-23	.94	.69	.50
LM4040DIM3-10.0TR-ND	10V, Prec. Micropower Shunt Volt. Reference ±1%	SOT-23		325.00/1,000	
LM4040DIM3X-10CT-ND	10V, Prec. Micropower Shunt Volt. Reference ±1%	SOT-23	.94	.69	.50
LM4040DIM3X-10TR-ND	10V, Prec. Micropower Shunt Volt. Reference ±1%	SOT-23		956.25/3,000	
LM4040DIZ-2.5-ND	2.5V, Prec. Micropower Shunt Volt. Reference ±1%	TO-92	.94	.69	.50
LM4040DIZ-4.1-ND	4.1V, Prec. Micropower Shunt Volt. Reference ±1%	TO-92	.94	.69	.50
LM4040DIZ-5.0-ND	5V, Prec. Micropower Shunt Volt. Reference ±1%	TO-92	.94	.69	.50
LM4040DIZ-8.2-ND	8.2V, Prec. Micropower Shunt Volt. Reference ±1%	TO-92	.94	.69	.50
LM4040DIZ-10.0-ND	10V, Prec. Micropower Shunt Volt. Reference ±1%	TO-92	.94	.69	.50
LM4040EEM3-2.5CT-ND	2.5V, Prec. Micropower Shunt Volt. Reference ±2%	SOT-23	.94	.69	.50
LM4040EEM3-2.5TR-ND	2.5V, Prec. Micropower Shunt Volt. Reference ±2%	SOT-23		325.00/1,000	
LM4040EIM3-2.5CT-ND	2.5V, Prec. Micropower Shunt Volt. Reference ±2%	SOT-23	.90	.65	.47
LM4040EIM3-2.5TR-ND	2.5V, Prec. Micropower Shunt Volt. Reference ±2%	SOT-23		280.00/1,000	
LM4040EIZ-2.5-ND	2.5V, Prec. Micropower Shunt Volt. Reference ±2%	TO-92	.90	.65	.47
LM4041AIM3-1.2CT-ND	1.2V, Prec. Micropower Shunt Volt. Reference ±.1%	SOT-23	2.20	1.64	1.21
LM4041AIM3-1.2TR-ND	1.2V, Prec. Micropower Shunt Volt. Reference ±.1%	SOT-23		908.80/1,000	
LM4041AIZ-1.2-ND	1.2V, Prec. Micropower Shunt Volt. Reference ±.1%	TO-92	2.20	1.64	1.21
LM4041BIZ-1.2-ND	1.2V, Prec. Micropower Shunt Volt. Reference ±.2%	TO-92	1.84	1.35	.98
LM4041BIM3-1.2CT-ND	1.2V, Prec. Micropower Shunt Volt. Reference ±.2%	SOT-23	1.84	1.35	.98
LM4041BIM3-1.2TR-ND	1.2V, Prec. Micropower Shunt Volt. Reference ±.2%	SOT-23		637.00/1,000	
LM4041CEM3-ADJCT-ND	Adj. Prec. Micropower Shunt Volt. Reference ±.5%	SOT-23	1.46	1.08	.78
LM4041CEM3-ADJTR-ND	Adj. Prec. Micropower Shunt Volt. Reference ±.5%	SOT-23		507.00/1,000	
LM4041CEM3-1.2CT-ND	1.2V, Prec. Micropower Shunt Volt. Reference ±.5%	SOT-23	1.46	1.08	.78
LM4041CEM3-1.2TR-ND	1.2V, Prec. Micropower Shunt Volt. Reference ±.5%	SOT-23		507.00/1,000	
LM4041CIM3-1.2CT-ND	1.2V, Prec. Micropower Shunt Volt. Reference ±.5%	SOT-23	1.05	.77	.56
LM4041CIM3-1.2TR-ND	1.2V, Prec. Micropower Shunt Volt. Reference ±.5%	SOT-23		364.00/1,000	
LM4041CIM3-ADJCT-ND	Adj. Prec. Micropower Shunt Volt. Reference ±.5%	SOT-23	1.05	.77	.56
LM4041CIM3-ADJTR-ND	Adj. Prec. Micropower Shunt Volt. Reference ±.5%	SOT-23		364.00/1,000	
LM4041CIM7-ADJCT-ND	Adj., Prec. Micropower Shunt Volt. Reference ±.5%	SC-70-5	1.05	.77	.56
LM4041CIM7-ADJTR-ND	Adj., Prec. Micropower Shunt Volt. Reference ±.5%	SC-70-5		364.00/1,000	
LM4041CIM7-1.2CT-ND	1.2V, Prec. Micropower Shunt Volt. Reference ±.5%	SC-70-5	1.05	.77	.56

(Continued)

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LM5110-1SDTR-ND	Dual 5A Compound Gate Driver with Negative Output Voltage **NEW!**	10-LLP		791.04/1,000	
LM5110-2M-ND	Dual 5A Compound Gate Driver with Neg. Output Voltage	8-SOIC	1.92	1.43	1.06
LM5110-2SDCT-ND	Dual 5A Compound Gate Driver with Negative Output Voltage **NEW!**	10-LLP	1.92	1.43	1.06
LM5110-2SDTR-ND	Dual 5A Compound Gate Driver with Negative Output Voltage **NEW!**	10-LLP		791.04/1,000	
LM5110-3M-ND	Dual 5A Compound Gate Driver with Neg. Output Voltage	8-SOIC	1.92	1.43	1.06
LM5110-3SDCT-ND	Dual 5A Compound Gate Driver with Negative Output Voltage **NEW!**	10-LLP	1.92	1.43	1.06
LM5110-3SDTR-ND	Dual 5A Compound Gate Driver with Negative Output Voltage **NEW!**	10-LLP		791.04/1,000	
LM5111-1M-ND	Dual 5A Compound Gate Driver **NEW!**	8-SOIC	1.92	1.43	1.06
LM5111-2M-ND	Dual 5A Compound Gate Driver **NEW!**	8-SOIC	1.92	1.43	1.06
LM5111-3M-ND	Dual 5A Compound Gate Driver **NEW!**	8-SOIC	1.92	1.43	1.06
LM5112SDCT-ND	Tiny 7A MOSFET Gate Driver **NEW!**	6-LLP	1.78	1.31	.95
LM5112SDTR-ND	Tiny 7A MOSFET Gate Driver **NEW!**	6-LLP		617.50/1,000	
LM5115MTC-ND	Secondary Side Post Regulator Controller **NEW!**	16-TSSOP	3.58	2.72	2.08
LM5642MTC-ND	High Voltage, Dual Sync. Buck Converter	28-TSSOP	4.53	3.44	2.63
LM6132AIM-ND	Dual High Speed/Low Power 7MHz, Rail-to-Rail Op Amp	8-SOIC	3.30	2.51	1.92
LM6132AIN-ND	Dual High Speed/Low Power 7MHz, Rail-to-Rail Op Amp	8-Dip	3.80	2.89	2.21
LM6132BIM-ND	Dual High Speed/Low Power 7MHz, Rail-to-Rail Op Amp	8-SOIC	2.58	1.96	1.50
LM6132BIN-ND	Dual High Speed/Low Power 7MHz, Rail-to-Rail Op Amp	8-Dip	2.58	1.96	1.50
LM6134AIM-ND	Quad High Speed/Low Power 7MHz, Rail-to-Rail Op Amp	14-SOIC	4.25	3.23	2.47
LM6134AIN-ND	Quad High Speed/Low Power 7MHz, Rail-to-Rail Op Amp	14-Dip	4.25	3.23	2.47
LM6134BIM-ND	Quad Low Power 10MHz, R/R, I/O, Op Amp	14-SOIC	3.25	2.47	1.89
LM6134BIMXTR-ND	Quad Low Power 10MHz, R/R, I/O, Op Amp	14-SOIC		4062.50/2,500	
LM6134BIN-ND	Quad High Speed/Low Power, 7MHz, Rail-to-Rail Op Amp	14-Dip	3.25	2.47	1.89
LM6142AIM-ND	Dual High Speed/Low Power Rail-to-Rail Op Amp	8-SOIC	5.10	3.88	2.96
LM6142BIM-ND	Dual High Speed/Low Power Rail-to-Rail Op Amp	8-SOIC	4.55	3.46	2.64
LM6144AIN-ND	Quad High Speed/Low Power Rail-to-Rail Op Amp	14-Dip	6.64	5.25	4.21
LM6144BIM-ND	Quad High Speed/Low Power 17MHz R-R Op Amp	14-SOIC	6.08	4.62	3.53
LM6152ACM-ND	Dual High Speed 75MHz, R-R, I/O, Op Amp, Vos = 4mV	8-SOIC	3.83	2.91	2.22
LM6152BCM-ND	Dual High Speed 75MHz, R-R, I/O, Op Amp, Vos = 4mV	8-SOIC	3.08	2.34	1.79
LM6154BCM-ND	Quad High Speed 75MHz, R-R, I/O, Op Amp, Vos = 7mV	14-SOIC	5.71	4.52	3.62
LM6171AIM-ND	Voltage Feedback Low Distortion, Low Power Op Amp	8-SOIC	3.30	2.51	1.92
LM6171BIM-ND	Voltage Feedback Low Distortion, Low Power Op Amp	8-SOIC	2.83	2.15	1.64
LM6171BIN-ND	Voltage Feedback Low Distortion, Low Power Op Amp	8-Dip	2.83	2.15	1.64
LM6172IM-ND	Dual HS LP, Low Distortion, Volt. Feedback Op Amp	8-SOIC	3.80	2.89	2.21
LM6172IMXCT-ND	Dual HS LP, Low Distortion, Volt. Feedback Op Amp	8-SOIC	3.80	2.89	2.21
LM6172IMXTR-ND	Dual HS LP, Low Distortion, Volt. Feedback Op Amp	8-SOIC		4750.00/2,500	
LM6172IN-ND	Dual HS LP, Low Distortion, Volt. Feedback Op Amp	8-Dip	3.80	2.89	2.21
LM6181IM-8-ND	100mA, 100MHz Current Feedback Amp	8-SOIC	2.58	1.96	1.50
LM6181IN-ND	Current Feedback Amp, 100MHz	8-Dip	2.65	2.02	1.54
LM6511IM-ND	180nS, 3V, Comparator	8-SOIC	2.58	1.96	1.50
LM6588MA-ND	TFT-LCD Quad, 16V RRIO High Output Current Op Amp	14-SOIC	2.95	2.19	1.62
LM6588MT-ND	TFT-LCD Quad, 16V RRIO High Output Current Op Amp	14-TSSOP	2.95	2.19	1.62
LM7121IM-ND	235MHz Tiny Low Power Voltage Feedback Amp	8-SOIC	2.56	1.90	1.41
LM7121IM5CT-ND	235MHz Tiny Low Power Voltage Feedback Amp	SOT-23-5	2.56	1.90	1.41
LM7121IM5TR-ND	235MHz Tiny Low Power Voltage Feedback Amp	SOT-23-5		1056.00/1,000	
LM7171AIM-ND	Very High Speed High Out Volt. Feedback Amp, A Grade	8-SOIC	2.78	2.11	1.61
LM7171AIN-ND	Very High Speed High Out Volt. Feedback Amp, A Grade	8-Dip	2.78	2.11	1.61
LM7171BIM-ND	Very High Speed High Out Voltage Feedback Amp	8-SOIC	3.04	2.26	1.67
LM7171BIMXTR-ND	Very High Speed High Out Voltage Feedback Amp	8-SOIC		3062.50/2,500	
LM7171BIN-ND	Very High Speed High Out Voltage Feedback Amp	8-Dip	3.04	2.26	1.67
LM7301IM-ND	Low Power, 4MHz GBW, R/R, I/O Op Amp in TinyPak	8-SOIC	2.05	1.52	1.13
LM7301IM5CT-ND	Low Power, 4MHz GBW, R/R, I/O Op Amp	SOT-23-5	2.05	1.52	1.13
LM7301IM5TR-ND	Low Power, 4MHz GBW Rail-to-Rail, I/O Op Amp	SOT-23-5		844.80/1,000	
LM7372ILDCT-ND	Dual High Speed, High Output Current Op Amp	8-LLP	4.70	3.58	2.73
LM7372ILDTR-ND	Dual High Speed, High Output Current Op Amp	8-LLP		2368.80/1,000	
LM7372IMA-ND	Dual High Speed, High Output Current Op Amp	16-SOIC	4.70	3.58	2.73
LM7372MR-ND	Dual High Speed, High Output Current Op Amp	8-PSOP	4.70	3.58	2.73
LM7808CT-ND	8V, 1.0A Positive Voltage Regulator	TO-220	1.50	1.10	.80
LM7905CTNS-ND	5V, 1.5A Negative Voltage Regulator	TO-220	1.54	1.13	.82
LM7912CT-ND	12V, 1.5A Negative Voltage Regulator	TO-220	1.54	1.13	.82
LM7915CT-ND	15V, 1.5A Negative Voltage Regulator	TO-220	1.54	1.13	.82
LM8261M5CT-ND	RRIO, High Op Current and Unlimited Cap Load Op Amp	SOT-23-5	2.95	2.19	1.62
LM8261M5TR-ND	RRIO, High Op Current and Unlimited Cap Load Op Amp	SOT-23-5		1216.00/1,000	
LM8262MMCT-ND	RRIO, High Op Current and Unlimited Cap Load Op Amp	8-MSOP	2.95	2.19	1.62
LM8262MMTR-ND	RRIO, High Op Current and Unlimited Cap Load Op Amp	8-MSOP		1216.00/1,000	
LM8272MMCT-ND	RRIO, High Output, Unlimited Cap Load Op Amp	8-MSOP	3.10	2.36	1.80
LM8272MMTR-ND	RRIO, High Output, Unlimited Cap Load Op Amp	8-MSOP		1562.40/1,000	
LM8300HL09CT-ND	Four Wire Resistive Touchscreen Controller	44-LLP	10.26	8.79	7.80
LM8300HL09TR-ND	Four Wire Resistive Touchscreen Controller	44-LLP		17799.75/2,500	
LM8300HVA9-ND	Four Wire Resistive Touchscreen Controller	44-PLCC	10.92	9.36	8.30
LM8300IMT9-ND	Four Wire Resistive Touchscreen Controller	48-TSSOP	9.56	8.19	7.27
LM8364BALMF20CT-ND	Micropower Undervoltage Sensing Circuit	SOT-23-5	.59	.43	.32
LM8364BALMF20TR-ND	Micropower Undervoltage Sensing Circuit	SOT-23-5		184.80/1,000	
LM8364BALMF30CT-ND	Micropower Undervoltage Sensing Circuit	SOT-23-5	.59	.43	.32
LM8364BALMF30TR-ND	Micropower Undervoltage Sensing Circuit	SOT-23-5		184.80/1,000	
LM8364BALMF45CT-ND	Micropower Undervoltage Sensing Circuit	SOT-23-5	.59	.43	.32
LM8364BALMF45TR-ND	Micropower Undervoltage Sensing Circuit	SOT-23-5		184.80/1,000	
LM8365BALMF22CT-ND	Micropower Undervoltage Sensing Circuit	SOT-23-5	.59	.43	.32
LM8365BALMF22TR-ND	Micropower Undervoltage Sensing Circuit	SOT-23-5		184.80/1,000	
LM8365BALMF27CT-ND	Micropower Undervoltage Sensing Circuit	SOT-23-5	.59	.43	.32
LM8365BALMF27TR-ND	Micropower Undervoltage Sensing Circuit	SOT-23-5		184.80/1,000	
LM8365BALMF45CT-ND	Micropower Undervoltage Sensing Circuit	SOT-23-5	.59	.43	.32
LM8365BALMF45TR-ND	Micropower Undervoltage Sensing Circuit	SOT-23-5		184.80/1,000	
LM8366BCLMF30CT-ND	Micropower Undervoltage Sensing Circuit	SOT-23-5	.59	.43	.32
LM8365BCLMF30TR-ND	Micropower Undervoltage Sensing Circuit	SOT-23-5		184.80/1,000	
LM8500HL09CT-ND	Four Wire Resistive Touchscreen Controller	44-LLP	10.26	8.79	7.80
LM8500HL09TR-ND	Four Wire Resistive Touchscreen Controller	44-LLP		17799.75/2,500	
LM8500HVA9-ND	Four Wire Resistive Touchscreen Controller	44-PLCC	10.92	9.36	8.30
LM8500IMT9-ND	Four Wire Resistive Touchscreen Controller	48-TSSOP	9.56	8.19	7.27
LM9022M-ND	Vacuum Fluorescent Display Filament Driver	8-SOIC	1.72	1.28	.95
LM9040M-ND	Dual Lambda Sensor Interface Amplifier	14-SOIC	5.68	4.32	3.30
LM9044V-ND	Lambda Sensor Interface Amplifier	20-PLCC	3.25	2.47	1.89
LM9061M-ND	MOSFET Driver with Loss Protection	8-SOIC	1.83	1.36	1.01
LM9070T-ND	LDO Voltage Regulator with Keep-Alive ON/OFF Control	TO-220-7	2.17	1.61	1.19
LM9071T-ND	LDO Voltage Regulator with Delayed Reset	TO-220-5	2.17	1.61	1.19
LM9076BMA-5.0-ND	150mA Ultra-Low Quiescent Current LDO Regulator	8-SOIC	2.62	1.95	1.44
LM9076S-5.0-ND	150mA Ultra-Low Quiescent Current LDO Regulator	TO-263	2.80	2.08	1.54
LM9822CCWM-ND	3-Channel, 42-Bit, Color Scanner Analog Front End	28-SOIC	9.35	7.39	5.92
LM9830VJD-ND	36-Bit, Color Document Scanner	100-TQFP	11.55	9.90	8.78
LM9833CCVJD-ND	48-Bit, Color 1200dpi USB Image Scanner	100-TQFP	13.13	11.25	9.98

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25
LM12454CIV-ND	12-Bit+ Data Acquisition System with Self-Calibration	44-PLCC	17.85	16.66
LM12458CIV-ND	12-Bit+ Data Acquisition	44-PLCC	17.85	16.66
LM12458CIVF-ND	12-Bit+ Data Acquisition System with Self-Calibration	44-PQFP	18.75	17.50
LM13700N-ND	Dual Operational Transconductance Amp	16-Dip	1.43	1.05
LM27953TLCT-ND	White LED Driver **NEW!**	18-microSMD	2.85	2.17
LM27953TLTR-ND	White LED Driver **NEW!**	18-microSMD		379.05/25
LM27961TLCT-ND	Dual Display White LED Driver **NEW!**	18-microSMD	3.58	2.72
LM27961TLTR-ND	Dual Display White LED Driver **NEW!**	18-microSMD		475.48/25
LM34910SDCT-ND	40V, 1.25A, High Volt. Step Down Switching Reg. **NEW!**	10-LLP	2.73	2.08
LM34910SDTR-ND	40V, 1.25A, High Volt. Step Down Switching Reg. **NEW!**	10-LLP		1373.40/1,0
LM94021BIMGCT-ND	Multi-Gain Analog Temperature Sensor **NEW!**	SC70-5	1.43	1.05
LM94021BIMGTR-ND	Multi-Gain Analog Temperature Sensor **NEW!**	SC70-5		494.00/1,0
LM95071CIMFCT-ND	SPI/Microwire 13-Bit Plus Sign Temp. Sensor **NEW!**	SOT-23-5	2.06	1.53
LM95071CIMFTR-ND	SPI/Microwire 13-Bit Plus Sign Temp. Sensor **NEW!**	SOT-23-5		851.20/1,0
LMC555CBPCT-ND	CMOS Timer	8-microSMD	.99	.72
LMC555CBPTR-ND	CMOS Timer	8-microSMD		93.50/25
LMC555CM-ND	CMOS Timer	8-SOIC	.77	.56
LMC555CMXTR-ND	CMOS Timer	8-SOIC		565.25/2,5
LMC555CMMCT-ND	CMOS Timer, In Small Package	8-MSOP	1.20	.88
LMC555CMMTR-ND	CMOS Timer, In Small Package	8-MSOP		416.00/1,0
LMC555CN-ND	CMOS Timer	8-Dip	.90	.65
LMC567CM-ND	CMOS Tone Decoder Phase Lock Loop	8-SOIC	1.89	1.41
LMC567CMXTR-ND	CMOS Tone Decoder Phase Lock Loop	8-SOIC		1906.25/2,5
LMC567CN-ND	CMOS Tone Decoder Phase Lock Loop	8-Dip	1.89	1.41
LMC660AIM-ND	Quad CMOS Op Amp, Industrial Temperature	14-SOIC	2.17	1.61
LMC660AIMXTR-ND	Quad CMOS Op Amp, Industrial Temperature	14-SOIC		2187.50/2,5
LMC660AIN-ND	Quad CMOS Op Amp, Industrial Temperature	14-Dip	2.26	1.68
LMC660CM-ND	Quad CMOS Op Amp	14-SOIC	1.80	1.34
LMC660CMXTR-ND	Quad CMOS Op Amp	14-SOIC		1812.50/2,5
LMC660CN-ND	Quad CMOS Op Amp	14-Dip	1.92	1.43
LMC662AIM-ND	Dual CMOS Op Amp, Industrial Temperature	8-SOIC	2.05	1.52
LMC662AIMXTR-ND	Dual CMOS Op Amp, Industrial Temperature	8-SOIC		2062.50/2,5
LMC662AIN-ND	Dual CMOS Op Amp	8-Dip	2.26	1.68
LMC662CM-ND	Dual CMOS Op Amp	8-SOIC	1.89	1.41
LMC662CMXTR-ND	Dual CMOS Op Amp	8-SOIC		1906.25/2,5
LMC662CN-ND	Dual CMOS Op Amp	8-Dip	1.98	1.48
LMC6001AIN-ND	Ultra Ultra-Low Input Current Amp	8-Dip	12.25	10.50
LMC6001BIN-ND	Ultra Ultra-Low Input Current Amp	8-Dip	8.93	7.06
LMC6001CIN-ND	Ultra Ultra-Low Input Current Amp	8-Dip	3.28	2.49
LMC6024IM-ND	Micropower Quad CMOS Op Amp	14-SOIC	1.67	1.25
LMC6032IM-ND	Dual CMOS Op Amp, Industrial Temperature	8-SOIC	1.01	.75
LMC6032IN-ND	Dual CMOS Op Amp, Industrial Temperature	8-Dip	1.13	.83
LMC6034IM-ND	Quad CMOS Op Amp	14-SOIC	1.61	1.19
LMC6035IBPCT-ND	Low Power 2.7V, Single Supply CMOS Op Amp	8-microSMD	1.54	1.13
LMC6035IBPTR-ND	Low Power 2.7V, Single Supply CMOS Op Amp	8-microSMD		153.75/25
LMC6035IBPXCT-ND	Low Power 2.7V, Single Supply CMOS Op Amp	8-microSMD	1.54	1.13
LMC6035IBPXTR-ND	Low Power 2.7V, Single Supply CMOS Op Amp	8-microSMD		1568.25/3,5
LMC6035IM-ND	Low Power 2.7V, Single Supply CMOS Op Amp	8-SOIC	1.54	1.13
LMC6035IMXTR-ND	Low Power 2.7V, Single Supply CMOS Op Amp	8-SOIC		1306.88/2,5
LMC6035IMMCT-ND	Low Power 2.7V, Single Supply CMOS Op Amp	8-MSOP	1.80	1.34
LMC6035IMMTR-ND	Low Power 2.7V, Single Supply CMOS Op Amp	8-MSOP		742.40/1,0
LMC6035IMMXCT-ND	Low Power 2.7V, Single Supply CMOS Op Amp	8-MSOP	1.80	1.34
LMC6035IMMXTR-ND	Low Power 2.7V, Single Supply CMOS Op Amp	8-MSOP		2537.50/3,5
LMC6035ITLCT-ND	Low Power 2.7V, Single Supply CMOS Op Amp	8-microSMD	1.54	1.13
LMC6035ITLTR-ND	Low Power 2.7V, Single Supply CMOS Op Amp	8-microSMD		153.75/25
LMC6036IM-ND	Low Power 2.7V, Single Supply CMOS Op Amp	14-SOIC	2.02	1.50
LMC6036IMXTR-ND	Low Power 2.7V, Single Supply CMOS Op Amp	14-SOIC		2031.25/2,5
LMC6041AIM-ND	Single CMOS Micropower Op Amp	8-SOIC	2.23	1.66
LMC6041AIN-ND	Single CMOS Micropower Op Amp	8-Dip	2.42	1.80
LMC6041IM-ND	Single CMOS Micropower Op Amp	8-SOIC	1.98	1.48
LMC6041IN-ND	Single CMOS Micropower Op Amp	8-Dip	1.98	1.48
LMC6042AIM-ND	Dual CMOS Micropower Op Amp	8-SOIC	3.07	2.28
LMC6042AIN-ND	Dual CMOS Micropower Op Amp	8-Dip	3.01	2.24
LMC6042IM-ND	Dual CMOS Micropower Op Amp	8-SOIC	2.23	1.66
LMC6042IN-ND	Dual CMOS Micropower Op Amp	8-Dip	2.26	1.68
LMC6044AIM-ND	Quad CMOS Micropower Op Amp	14-SOIC	2.83	2.15
LMC6044AIN-ND	Quad CMOS Micropower Op Amp	14-Dip	2.90	2.21
LMC6044IM-ND	Quad CMOS Micropower Op Amp	14-SOIC	2.76	2.05
LMC6044IN-ND	Quad CMOS Micropower Op Amp	14-Dip	2.76	2.05
LMC6061AIM-ND	Precision Single CMOS Micropower Op Amp	8-SOIC	2.11	1.57
LMC6061IM-ND	Precision Single CMOS Micropower Op Amp	8-SOIC	1.84	1.35
LMC6062AIM-ND	Precision Dual CMOS Micropower Op Amp	8-SOIC	2.68	2.04
LMC6062AIN-ND	Precision Dual CMOS Micropower Op Amp	8-Dip	3.25	2.47
LMC6062IM-ND	Precision Dual CMOS Micropower Op Amp	8-SOIC	2.33	1.73
LMC6062IN-ND	Precision Dual CMOS Micropower Op Amp	8-Dip	2.51	1.87
LMC6064AIM-ND	Precision Quad CMOS Micropower Op Amp	14-SOIC	5.25	3.99
LMC6064AIN-ND	Precision Quad CMOS Micropower Op Amp	14-Dip	6.18	4.70
LMC6064IM-ND	Precision Quad CMOS Micropower Op Amp	14-SOIC	3.28	2.49
LMC6064IN-ND	Precision Quad CMOS Micropower Op Amp	14-Dip	3.43	2.61
LMC6081AIM-ND	Precision Single CMOS Op Amp	8-SOIC	3.68	2.80
LMC6081AIN-ND	Precision Single CMOS Op Amp	8-Dip	4.23	3.22
LMC6081IM-ND	Precision Single CMOS Micropower Op Amp	8-SOIC	2.82	2.10
LMC6081IN-ND	Precision Single CMOS Op Amp	8-Dip	2.82	2.10
LMC6082AIM-ND	Precision Dual CMOS Op Amp	8-SOIC	5.05	3.84
LMC6082AIN-ND	Precision Dual CMOS Op Amp	8-Dip	5.05	3.84
LMC6082IM-ND	Precision Dual CMOS Op Amp	8-SOIC	2.82	2.10
LMC6082IN-ND	Precision Dual CMOS Op Amp	8-Dip	2.82	2.10
LMC6084AIM-ND	Precision Dual CMOS Micropower Op Amp	14-SOIC	6.49	5.13
LMC6084AIN-ND	Precision Dual Op Amp	14-Dip	7.48	5.91
LMC6084IN-ND	Precision Dual Op Amp	14-Dip	4.15	3.16
LMC6442AIM-ND	Dual Micropower R/R, Output Single Supply Op Amp	8-SOIC	2.60	1.94
LMC6442IM-ND	Dual Micropower R/R, Output Single Supply Op Amp	8-SOIC	2.60	1.94
LMC6442IN-ND	Dual Micropower R/R, Output Single Supply Op Amp	8-Dip	2.60	1.94
LMC6462AIM-ND	Dual CMOS Micropower, R/R, Input/Output Op Amp	8-SOIC	3.03	2.30
LMC6462AIN-ND	Dual CMOS Micropower, R/R, Input/Output Op Amp	8-Dip	3.10	2.36
LMC6462BIM-ND	Dual CMOS Micropower, R/R, Input/Output Op Amp	8-SOIC	2.98	2.21
LMC6462BIN-ND	Dual CMOS Micropower, R/R, Input/Output Op Amp	8-Dip	2.58	1.96
LMC6464AIM-ND	Quad CMOS Micropower, R/R, Input/Output Op Amp	14-SOIC	4.80	3.65
LMC6464AIN-ND	Quad CMOS Micropower, R/R, Input/Output Op Amp	14-Dip	4.88	3.71
LMC6464BIM-ND	Quad CMOS Micropower, R/R, Input/Output Op Amp	14-SOIC	4.10	3.12
LMC6464BIN-ND	Quad CMOS Micropower, R/R, Input/Output Op Amp	14-Dip	4.28	3.25
LMC6482AIM-ND	Dual CMOS Rail-to-Rail, Input/Output Op Amp	8-SOIC	2.17	1.61
LMC6482AIN-ND	Dual CMOS Rail-to-Rail, Input/Output Op Amp	8-Dip	2.29	1.71
LMC6482IM-ND	Dual CMOS Rail-to-Rail, Input/Output Op Amp	8-SOIC	1.86	1.38
LMC6482IMMCT-ND	Dual CMOS R/R, Input and Output Op Amp	8-MSOP	1.67	1.25

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Key No.	Description	Pkg.	Price Each★ 1	25	100
482IMMTR-ND	Dual CMOS R/R, Input and Output Op Amp	8-MSOP		691.20/1,000	
482IN-NO	Dual CMOS R/R, Input and Output Op Amp	8-Dip	1.80	1.34	.99
484AIM-ND	Quad CMOS Rail-to-Rail, Input/Output Op Amp	14-SOIC	3.00	2.28	1.74
484AIMXTR-ND	Quad CMOS Micropower, Rail-to-Rail, I/O Op Amp	14-SOIC		3300.00/2,500	
484AIN-ND	Quad CMOS Rail-to-Rail, Input/Output Op Amp	14-Dip	3.00	2.28	1.74
484IM-ND	Quad CMOS Rail-to-Rail, Input/Output Op Amp	14-SOIC	3.01	2.24	1.65
484IMXTR-ND	Quad CMOS Rail-to-Rail, Input/Output Op Amp	14-SOIC		3031.25/2,500	
484IN-ND	Quad CMOS Rail-to-Rail, Input/Output Op Amp	14-Dip	2.53	1.92	1.47
492AEM-ND	Dual CMOS Rail-to-Rail, Input/Output Op Amp	8-SOIC	2.88	2.14	1.59
492BEM-ND	Dual CMOS Rail-to-Rail, Input/Output Op Amp	8-SOIC	2.26	1.68	1.25
494AEM-ND	Quad CMOS Rail-to-Rail, Input/Output Op Amp	14-SOIC	5.95	4.53	3.46
494BEM-ND	Quad CMOS Rail-to-Rail, Input/Output Op Amp	14-SOIC	3.28	2.49	1.90
762AIM-ND	CMOS Micropower Rail-to-Rail Comparator	8-SOIC	2.85	2.17	1.66
762BIM-ND	CMOS Micropower Rail-to-Rail Comparator	8-SOIC	2.91	2.17	1.60
762BIMXTR-ND	CMOS Micropower Rail-to-Rail Comparator	8-SOIC		2937.50/2,500	
772AIM-ND	Dual Micropower R/R Input CMOS Comp. w/Open Drain	8-SOIC	2.85	2.17	1.66
772AIMMCT-ND	Dual Micropower R/R Input CMOS Comp. w/Open Drain	8-MSOP	2.85	2.17	1.66
772AIMMTR-ND	Dual Micropower R/R Input CMOS Comp. w/Open Drain	8-MSOP		1436.40/1,000	
772AIN-ND	Dual Micropower R/R Input CMOS Comp. w/Open Drain	8-Dip	2.85	2.17	1.66
772BIM-ND	Dual Micropower R/R Input CMOS Comp. w/Open Drain	8-SOIC	2.91	2.17	1.60
772BIN-ND	Dual Micropower R/R Input CMOS Comp. w/Open Drain	8-Dip	2.91	2.17	1.60
953CM-ND	PCI Local Bus Power Supervisor	8-SOIC	3.05	2.32	1.77
101AIM5XCT-ND	Tiny Low Power Op Amp with R/R Input/Output	SOT-23-5	1.50	1.10	.80
101AIM5XTR-ND	Tiny Low Power Op Amp with R/R Input/Output	SOT-23-5		1530.00/3,000	
101BIM5CT-ND	Tiny Low Power Op Amp with R/R Input/Output	SOT-23-5	1.08	.78	.57
101BIM5TR-ND	Tiny Low Power Op Amp with R/R Input/Output	SOT-23-5		336.00/1,000	
111AIN-ND	Tiny CMOS Op Amp with Rail-to-Rail, Input/Output	8-Dip	1.69	1.24	.90
111BIM5XTR-ND	Tiny CMOS Op Amp with Rail-to-Rail, Input/Output	SOT-23-5		1338.75/3,000	
111BIN-ND	Tiny CMOS Op Amp with Rail-to-Rail, Input/Output	8-Dip	1.31	.97	.70
211AIM-ND	Tiny CMOS Comparator with Rail-to-Rail Input	8-SOIC	1.55	1.15	.85
211AIM5CT-ND	Tiny CMOS Comparator with Rail-to-Rail Input	SOT-23-5	1.55	1.15	1.15
211AIM5TR-ND	Tiny CMOS Comparator with Rail-to-Rail Input	SOT-23-5		640.00/1,000	
211BIM-ND	Tiny CMOS Comparator with Rail-to-Rail Input	8-SOIC	1.43	1.05	.76
211BIM5CT-ND	Tiny CMOS Comparator with Rail-to-Rail Input	SOT-23-5	1.43	1.05	.76
211BIM5TR-ND	Tiny CMOS Comparator with Rail-to-Rail Input	SOT-23-5		494.00/1,000	
215IM-ND	Micropower Rail-to-Rail CMOS Comparator with Open-Drain/Push-Pull Output	8-SOIC	1.69	1.24	.90
215IMXTR-ND	Micropower Rail-to-Rail CMOS Comparator with Open-Drain/Push-Pull Output	8-SOIC		1434.38/2,500	
215IM5CT-ND	Micropower Rail-to Rail CMOS Comparator with Push-Pull/Open-Drain Outputs	SOT-23-5	1.69	1.24	.90
215IM5TR-ND	Micropower Rail-to Rail CMOS Comparator with Push-Pull/Open-Drain Outputs	SOT-23-5		585.00/1,000	
221AIM-ND	Tiny CMOS Comp. with R/R Input/Open Drain	8-SOIC	1.80	1.34	.99
221AIM5CT-ND	Tiny CMOS Comp. with R/R Input/Open Drain	SOT-23-5	1.80	1.34	.99
221AIM5TR-ND	Tiny CMOS Comp. with R/R Input/Open Drain	SOT-23-5		742.40/1,000	
221BIM-ND	Tiny CMOS Comp. with Rail-to-Rail Input/Open Drain	8-SOIC	1.69	1.24	.90
221BIM5CT-ND	Tiny CMOS Comp. with Rail-to-Rail I/O Drain Output	SOT-23-5	1.69	1.24	.90
221BIM5TR-ND	Tiny CMOS Comp. with Rail-to-Rail I/O Drain Output	SOT-23-5		585.00/1,000	
225IM5CT-ND	Micropower CMOS Comparator with Rail-to-Rail, Open-Drain/Push-Pull Output	SOT-23-5	1.69	1.24	.90
225IM5TR-ND	Micropower CMOS Comparator with Rail-to-Rail, Open-Drain/Push-Pull Output	SOT-23-5		585.00/1,000	
660IM-ND	Switched Capacitor Voltage Converter	8-SOIC	1.13	.83	.60
660IMXTR-ND	Switched Capacitor Voltage Converter	8-SOIC		956.25/2,500	
660IN-ND	Switched Capacitor Voltage Converter	8-Dip	1.13	.83	.60
101BPCT-ND	R/R, Input and Output, 2.7V, Op Amp	8-microSMD	1.54	1.13	.82
101BPTR-ND	Rail-to-Rail, Input/Output, 2.7V, Op Amp	8-microSMD		153.75/250	
101BPXTR-ND	Rail-to-Rail, Input/Output, 2.7V, Op Amp	8-microSMD		1568.25/3,000	
101MMCT-ND	Rail-to-Rail, Input/Output, 2.7V, Op Amp	8-microSMD	1.54	1.13	.82
101MMTR-ND	Rail-to-Rail, Input/Output, 2.7V, Op Amp	8-microSMD		533.00/1,000	
101TPCT-ND	Rail-to-Rail, Input/Output, 2.7V Op Amp **NEW!**	8-microSMD	1.54	1.13	.82
101TPTR-ND	Rail-to-Rail, Input/Output, 2.7V Op Amp **NEW!**	8-microSMD		153.75/250	
3200T-ND	55V, 3A H Bridge	TO-220	11.69	10.02	8.89
3201T-ND	55V, 3A H Bridge	TO-220	10.69	9.17	8.13
3245T-ND	55V, 3A DMOS H Bridge Motor Driver	TO-220	13.04	11.18	9.91
3400N-ND	60V, 3A DMOS Quad High Side Driver	20-Dip	10.40	8.22	6.59
00CCN-ND	Dual Switched Capacitor Filter	20-Dip	6.09	4.82	3.86
00CIWM-ND	High Performance Dual Switched Capacitor Filter	20-SOIC	5.15	3.92	2.99
502MA-ND	Wideband, Low Power, Linear-in-dB Variable Gain Amp	14-SOIC	6.95	5.50	4.41
502MT-ND	Wideband, Low Power, Linear-in-dB Variable Gain Amp	14-TSSOP	6.95	5.50	4.41
503MA-ND	Wideband, Low Power, Linear Variable Gain Amp	14-SOIC	6.95	5.50	4.41
503MT-ND	Wideband, Low Power, Linear Variable Gain Amp	14-TSSOP	6.95	5.50	4.41
504MA-ND	Wideband, Low Power, Variable Gain Amp	8-SOIC	6.00	4.56	3.48
504MMCT-ND	Wideband, Low Power, Variable Gain Amp	8-MSOP	6.00	4.56	3.48
504MMTR-ND	Wideband, Low Power, Variable Gain Amp	8-MSOP		3024.00/1,000	
550MA-ND	Differential, High Speed Op Amp **NEW!**	8-SOIC	5.45	4.15	3.17
551MA-ND	Differential, High Speed Op Amp **NEW!**	8-SOIC	3.80	2.89	2.21
551MMCT-ND	Differential, High Speed Op Amp **NEW!**	8-MSOP	3.80	2.89	2.21
551MMTR-ND	Differential, High Speed Op Amp **NEW!**	8-MSOP		1915.20/1,000	
559MA-ND	High Speed, Closed Loop Buffer	8-SOIC	2.50	1.90	1.45
559MFCT-ND	High Speed, Closed Loop Buffer	SOT-23-5	2.50	1.90	1.45
559MFTR-ND	High Speed, Closed Loop Buffer	SOT-23-5		1260.00/1,000	
560MA-ND	Quad, High Speed, Closed Loop Buffer	14-SOIC	5.95	4.53	3.46
560MT-ND	Quad, High Speed, Closed Loop Buffer	14-TSSOP	5.95	4.53	3.46
572MQ-ND	Triple 2:1 High Speed Video Mux	16-SSOP	6.99	5.53	4.43
574MA-ND	4:1 High Speed Video Mux	14-SOIC	5.93	4.51	3.44
609MA-ND	900MHz Voltage Feedback Op Amp	8-SOIC	4.18	3.18	2.43
609MFCT-ND	900MHz Voltage Feedback Op Amp	SOT-23-5	4.18	3.18	2.43
609MFTR-ND	900MHz Voltage Feedback Op Amp	SOT-23-5		2104.20/1,000	
622MA-ND	Dual Wideband, Low Noise, 160MHz Op Amp	8-SOIC	4.40	3.35	2.56
622MMCT-ND	Dual Wideband, Low Noise, 160MHz Op Amp	8-MSOP	4.40	3.35	2.56
622MMTR-ND	Dual Wideband, Low Noise, 160MHz Op Amp	8-MSOP		2217.60/1,000	
624MA-ND	Single Wideband, Ultra Low Noise Op Amp	8-SOIC	3.98	3.03	2.31
624MFCT-ND	Single Wideband, Ultra Low Noise Op Amp	SOT-23-5	3.98	3.03	2.31
624MFTR-ND	Single Wideband, Ultra Low Noise Op Amp	SOT-23-5		2003.40/1,000	
626MA-ND	Dual Wideband, Ultra Low Noise Op Amp	8-SOIC	4.88	3.71	2.83
626MMCT-ND	Dual Wideband, Ultra Low Noise Op Amp	8-MSOP	4.88	3.71	2.83
626MMTR-ND	Dual Wideband, Ultra Low Noise Op Amp	8-MSOP		2457.00/1,000	
628MA-ND	Dual Wideband, Low Noise, Volt. Feedback Op Amp	8-SOIC	3.55	2.70	2.06
639MA-ND	190MHz R/R Output Amp with Disable	8-SOIC	2.08	1.55	1.14
639MFCT-ND	190MHz R/R Output Amp with Disable	SOT-23-6	2.08	1.55	1.14
639MFTR-ND	190MHz R/R Output Amp with Disable	SOT-23-6		857.60/1,000	
640MFCT-ND	TFT-LCD Single, 16V R/R Out High Op Amp	SOT-23-5	2.75	2.09	1.60
640MFTR-ND	TFT-LCD Single, 16V R/R Out High Op Amp	SOT-23-5		1386.00/1,000	
642MA-ND	3V, LP, 130MHz, 75mA Single Supply, R/R Op Amp	8-SOIC	1.95	1.45	1.08

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LMH6642MFCT-ND	3V, LP, 130MHz, 75mA Single Supply, R/R Op Amp	SOT-23-5	1.95	1.45	1.08
LMH6642MFTR-ND	3V, LP, 130MHz, 75mA Single Supply, R/R Op Amp	SOT-23-5		806.40/1,000	
LMH6643MA-ND	3V, Low Power, 130MHz, R/R Output Amp	8-SOIC	2.08	1.55	1.14
LMH6643MMCT-ND	3V, Low Power, 130MHz, R/R Output Amp	8-MSOP	2.08	1.55	1.14
LMH6643MMTR-ND	3V, Low Power, 130MHz, R/R Output Amp	8-MSOP		857.60/1,000	
LMH6644MA-ND	3V, Low Power, 130MHz, 75mA R/R Output Amp	14-SOIC	3.10	2.36	1.80
LMH6644MT-ND	3V, Low Power, 130MHz, 75mA R/R Output Amp	14-TSSOP	3.10	2.36	1.80
LMH6645MA-ND	2.7V, Rail-to-Rail, In/Out Amp with Shutdown	8-SOIC	2.23	1.66	1.23
LMH6645MFCT-ND	2.7V, Rail-to-Rail, In/Out Amp with Shutdown	SOT-23-5	2.50	1.90	1.45
LMH6645MFTR-ND	2.7V, Rail-to-Rail, In/Out Amp with Shutdown	SOT-23-5		1260.00/1,000	
LMH6646MA-ND	2.7V, Rail-to-Rail, In/Out Amp with Shutdown	8-SOIC	2.50	1.90	1.45
LMH6646MMCT-ND	2.7V, Rail-to-Rail, In/Out Amp with Shutdown	8-MSOP	2.50	1.90	1.45
LMH6646MMTR-ND	2.7V, Rail-to-Rail, In/Out Amp with Shutdown	8-MSOP		1260.00/1,000	
LMH6647MA-ND	2.7V, Rail-to-Rail, In/Out Amp with Shutdown	8-SOIC	2.51	1.87	1.38
LMH6647MFCT-ND	2.7V, Rail-to-Rail, In/Out Amp with Shutdown	SOT-23-6	2.51	1.87	1.38
LMH6647MFTR-ND	2.7V, Rail-to-Rail, In/Out Amp with Shutdown	SOT-23-6		1036.80/1,000	
LMH6654MA-ND	Single, Low Power, 250MHz, Low Noise Amp	8-SOIC	2.67	1.98	1.47
LMH6654MFCT-ND	Single, Low Power, 250MHz, Low Noise Amp	SOT-23-5	2.67	1.98	1.47
LMH6654MFTR-ND	Single, Low Power, 250MHz, Low Noise Amp	SOT-23-5		1100.80/1,000	
LMH6655MA-ND	Dual, Low Power, 250MHz, Low Noise Amp	8-SOIC	3.05	2.32	1.77
LMH6655MMCT-ND	Dual, Low Power, 250MHz, Low Noise Amp	8-MSOP	3.05	2.32	1.77
LMH6655MMTR-ND	Dual, Low Power, 250MHz, Low Noise Amp	8-MSOP		1537.20/1,000	
LMH6657MFCT-ND	270MHz, Single Supply Amp	SOT-23-5	2.23	1.66	1.23
LMH6657MFTR-ND	270MHz, Single Supply Amp	SOT-23-5		921.60/1,000	
LMH6657MGCT-ND	270MHz, Single Supply Amp	SC70-5	2.23	1.66	1.23
LMH6657MGTR-ND	270MHz, Single Supply Amp	SC70-5		921.60/1,000	
LMH6658MA-ND	270MHz, Dual, High Speed, Low Noise Op Amp	8-SOIC	2.91	2.17	1.60
LMH6658MMCT-ND	270MHz, Dual, High Speed, Low Noise Op Amp	8-MSOP	2.91	2.17	1.60
LMH6658MMTR-ND	270MHz, Dual, High Speed, Low-Noise Op Amp	8-MSOP		1203.20/1,000	
LMH6672LDCT-ND	Dual, High Output Current, High Speed Op Amp	8-LLP	4.48	3.41	2.60
LMH6672LDTR-ND	Dual, High Output Current, High Speed Op Amp	8-LLP		2255.40/1,000	
LMH6672MA-ND	Dual, High Output Current, High Speed Op Amp	8-SOIC	3.80	2.89	2.21
LMH6672MR-ND	Dual, High Output Current, High Speed Op Amp	8-PSOP	3.80	2.89	2.21
LMH6678LQCT-ND	Low Power 2-Ch. Central-Office XDSL Driver	24-LLP	5.23	3.98	3.04
LMH6678LQTR-ND	Low Power 2-Ch. Central-Office XDSL Driver	24-LLP		2633.40/1,000	
LMH6682MA-ND	Dual, 190MHz Single Supply Op Amp	8-SOIC	2.64	1.96	1.45
LMH6682MMCT-ND	Dual, 190MHz Single Supply Op Amp	8-MSOP	2.64	1.96	1.45
LMH6682MMTR-ND	Dual, 190MHz Single Supply Op Amp	8-MSOP		1088.00/1,000	
LMH6683MA-ND	Triple, 190MHz Single Supply Op Amp	14-SOIC	3.33	2.53	1.93
LMH6683MT-ND	Triple, 190MHz Single Supply Op Amp	14-TSSOP	3.33	2.53	1.93
LMH6702MA-ND	720MHz, Ultra Low Distortion, Wideband Op Amp	8-SOIC	3.55	2.70	2.06
LMH6702MFCT-ND	720MHz, Ultra Low Distortion, Wideband Op Amp	SOT-23-5	3.55	2.70	2.06
LMH6702MFTR-ND	720MHz, Ultra Low Distortion, Wideband Op Amp	SOT-23-5		1789.20/1,000	
LMH6703MA-ND	1.2GHz, Low Distortion Op Amp **NEW!**	8-SOIC	3.55	2.70	2.06
LMH6704MA-ND	650MHz Programmable Gain Buffer with Disable **NEW!**	8-SOIC	3.55	2.70	2.06
LMH6704MFCT-ND	650MHz Programmable Gain Buffer with Disable **NEW!**	SOT-23-6	3.55	2.70	2.06
LMH6704MFTR-ND	650MHz Programmable Gain Buffer with Disable **NEW!**	SOT-23-6		1789.20/1,000	
LMH6714MA-ND	Single, 400MHz, Wideband Video Op Amp w/Shutdown	8-SOIC	2.95	2.19	1.62
LMH6714MFCT-ND	Single, 400MHz, Wideband Video Op Amp w/Shutdown	SOT-23-5	2.95	2.19	1.62
LMH6714MFTR-ND	Single, 400MHz, Wideband Video Op Amp w/Shutdown	SOT-23-5		1216.00/1,000	
LMH6715MA-ND	Dual, Wideband Video Op Amp	8-SOIC	4.03	3.06	2.34
LMH6718MA-ND	Dual, High Output Programmable Gain Buffer	8-SOIC	4.48	3.41	2.60
LMH6720MA-ND	Single, 400MHz, Wideband Video Op Amp w/Shutdown	8-SOIC	2.50	1.90	1.45
LMH6720MFCT-ND	Single, 400MHz, Wideband Video Op Amp w/Shutdown	SOT-23-6	2.50	1.90	1.45
LMH6720MFTR-ND	Single, 400MHz, Wideband Video Op Amp w/Shutdown	SOT-23-6		1260.00/1,000	
LMH6722MA-ND	Quad, Wideband Video Amp	14-SOIC	5.13	3.90	2.98
LMH6723MA-ND	370MHz, 1mA Current Feedback Op Amp	8-SOIC	2.98	2.27	1.73
LMH6723MFCT-ND	370MHz, 1mA Current Feedback Op Amp	SOT-23-5	2.98	2.27	1.73
LMH6723MFTR-ND	370MHz, 1mA Current Feedback Op Amp	SOT-23-5		1499.40/1,000	
LMH6724MA-ND	Dual, 370MHz, 1mA Current Feedback Op Amp	8-SOIC	4.18	3.18	2.43
LMH6725MA-ND	Quad, 370MHz, 1mA Current Feedback Op Amp	14-SOIC	5.95	4.53	3.46
LMH6732MA-ND	High Speed Op Amp with Adj. Bandwidth	8-SOIC	5.73	4.54	3.64
LMH6732MFCT-ND	High Speed Op Amp with Adj. Bandwidth	SOT-23-6	5.73	4.54	3.64
LMH6732MFTR-ND	High Speed Op Amp with Adj. Bandwidth	SOT-23-6		3385.20/1,000	
LMH6738MQ-ND	Very Wideband, Low Distortion Triple Op Amp	16-SSOP	5.95	4.53	3.46
LMH6739MQ-ND	Very Wideband, Low Distortion Triple Video Buffer	16-SSOP	5.40	4.27	3.42
LMH730151-ND	Triple 2:1 Multiplexer Evaluation Board	—	6.30	—	—
LMH730154-ND	High Speed Differential Amp Evaluation Board **NEW!**	—	6.30	—	—
LMH730275-ND	Triple High Speed SSOP Op Amp Evaluation Board	—	6.30	—	—
LMH730276-ND	4:1 Multiplexer Evaluation Board **NEW!**	—	6.30	—	—
LMP2011MA-ND	Single High Precision, R/R Output Op Amp **NEW!**	8-SOIC	2.50	1.90	1.45
LMP2011MFCT-ND	Single High Precision, R/R Output Op Amp **NEW!**	SOT-23-5	2.50	1.90	1.45
LMP2011MFTR-ND	Single High Precision, R/R Output Op Amp **NEW!**	SOT-23-5		1260.00/1,000	
LMP2012MMCT-ND	Dual, High Precision, R/R Output Op Amp **NEW!**	8-MSOP	3.93	2.99	2.28
LMP2012MMTR-ND	Dual, High Precision, R/R Output Op Amp **NEW!**	8-MSOP		1978.20/1,000	
LMP2014MT-ND	Quad, High Precision, R/R Output Op Amp **NEW!**	14-TSSOP	5.50	4.35	3.49
LMS1585ACS-ADJ-ND	Adj. 5A LDO Fast Response Regulator	TO-263	2.76	2.05	1.52
LMS1585ACS-3.3-ND	3.3V, 5A LDO Fast Response Regulator	TO-263	2.76	2.05	1.52
LMS1585ACT-ADJ-ND	Adj. 5A LDO Fast Response Regulator	TO-220	2.76	2.05	1.52
LMS1585ACT-3.3-ND	3.3V, 5A LDO Fast Response Regulator	TO-220	2.76	2.05	1.52
LMS1585AIS-ADJ-ND	Adj. 5A LDO Fast Response Regulator, Ind. Temp.	TO-263	2.76	2.05	1.52
LMS1585AIS-3.3-ND	3.3V, 5A LDO Fast Response Regulator, Ind. Temp.	TO-263	2.76	2.05	1.52
LMS1585AIT-ADJ-ND	Adj. 5A LDO Fast Response Regulator, Ind. Temp.	TO-220	2.76	2.05	1.52
LMS1585AIT-1.5-ND	1.5V, 5A, LDO Fast Response Regulator, Ind. Temp.	TO-220	2.76	2.05	1.52
LMS1585AIT-3.3-ND	3.3V, 5A LDO Fast Response Regulator, Ind. Temp.	TO-220	2.76	2.05	1.52
LMS1587CS-ADJ-ND	Adj. 3A LDO Fast Response Regulator	TO-263	2.76	2.05	1.52
LMS1587CS-1.5-ND	1.5V, 3A LDO Fast Response Regulator	TO-263	2.76	2.05	1.52
LMS1587CT-ADJ-ND	Adj. 3A LDO Fast Response Regulator	TO-220	2.76	2.05	1.52
LMS1587CT-3.3-ND	3.3V, 3A LDO Fast Response Regulator	TO-220	2.76	2.05	1.52
LMS1587IS-ADJ-ND	Adj. 3A LDO Fast Response Regulator, Ind. Temp.	TO-263	2.91	2.17	1.60
LMS1587IS-3.3-ND	3.3V, 3A LDO Fast Response Regulator, Ind. Temp.	TO-263	2.91	2.17	1.60
LMS1587IT-ADJ-ND	Adj. 3A LDO Fast Response Regulator, Ind. Temp.	TO-220	2.91	2.17	1.60
LMS1587IT-3.3-ND	3.3V, 3A LDO Fast Response Regulator, Ind. Temp.	TO-220	2.91	2.17	1.60
LMS5213IM7-3.3CT-ND	80mA, LDO Voltage Regulator	SC-70-5	1.31	.97	.70
LMS5213IM7-3.3TR-ND	80mA, LDO Voltage Regulator	SC-70-5		455.00/1,000	
LMS8117ADT-1.8-ND	1.8V, 1A LDO Linear Regulator	TO-252	1.50	1.10	.80
LMV115MGCT-ND	GSM Baseband 30MHz, 2.8V Oscillator Buffer	SC70-6	1.20	.88	.64
LMV115MGTR-ND	GSM Baseband 30MHz, 2.8V Oscillator Buffer	SC70-6		416.00/1,000	
LMV116MFCT-ND	Low Volt, 45MHz, R/R Output Op Amp	SOT-23-5	1.67	1.25	.92
LMV116MFTR-ND	Low Volt, 45MHz, R/R Output Op Amp	SOT-23-5		691.20/1,000	
LMV118MFCT-ND	Low Volt, 45MHz, R/R Output Op Amp with Shutdown	SOT-23-6	1.74	1.29	.96
LMV118MFTR-ND	Low Volt, 45MHz, R/R Output Op Amp with Shutdown	SOT-23-6		716.80/1,000	
LMV225TLCT-ND	RF Power Detector for CDMA and WCDMA	4-microSMD	1.46	1.08	.78
LMV225TLTR-ND	RF Power Detector for CDMA and WCDMA	4-microSMD		146.25/250	
LMV226TLCT-ND	RF Power Detector for CDMA and WCDMA **NEW!**	4-microSMD	1.58	1.18	.87

(Continued)

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Microsemi Integrated Products Group, formerly Linfinity, designs and manufactures Analog and Mixed Signal semiconductors specializing in Light, Power, Audio and Communication Products.

Introducing Microsemi's Newest CCFL Inverter Modules: PanelMatch™ (bolded items) Programmable output current, Low Cost, Higher Performance, Smaller Module size, Industrial Temps, and Widest Dimming available.

B

Digital and Analog Dimming/Automatic Strike Voltage Generation/Open and Short Fault Detection with Auto Shutdow
3.3V, 5V and 12V Inputs

Module	IC	Output	Input Voltage	Output Power (W)	Dim Ratio	Description
			Single Output Inverters			
LXM1612-vv-Wc	LX1686	Single	5V, 12V	4	100:1+	Standard Dimming, Direct Drive
LXM1614-14-11	LX1686	Single	13.5V	6	150:1+	Wide Temperature, Analog and Digital Dimming with Controlled Boost
LXM1615-vv-Wc	LX1686	Single	3.6V, 5V	2	100:1+	3.6V/5V, 2W High Performance Digital Dimming
LXM1617-03-2c	**LX1689**	**Single**	**3.3V**	**2**	**50:1+**	**3V, Miniature Size, Full Feature, High Efficiency**
LXM1617-05-Wc	**LX1689**	**Single**	**5V**	**2, 4, 6**	**50:1+**	**5V, Miniature Size, Full Feature, High Efficiency**
LXM1617-12-Wc	**LX1689**	**Single**	**12V**	**4, 6**	**50:1+**	**12V, Miniature Size, Full Feature, High Efficiency**
LXM1618-03-2c	**LX1689**	**Single**	**3V**	**2**	**3:1+**	**3.3V, Low Cost, Standard Dimming**
LXM1618-05-Wc	**LX1689**	**Single**	**5V**	**2, 4, 6**	**3:1+**	**5V, Low Cost, Standard Dimming**
LXM1618-12-Wc	**LX1689**	**Single**	**12V**	**4, 6**	**3:1+**	**12V, Low Cost, Standard Dimming**
			Dual Output Inverters			
LXM1621-01	LX1585	Dual	12V	3-5	100:1+	2-Lamp, Digital Dimming
LXM1621-02	LX1585	Dual	12V	3-5	100:1+	2-Lamp, Digital Dimming
LXM1621-03	LX1585	Dual	12V	3-5	100:1+	2-Lamp, Digital Dimming
LXM1621-04	LX1585	Dual	12V	3-5	100:1+	2-Lamp, Digital Dimming
LXM1623-05-Wc	**LX1689**	**Dual**	**5V**	**4, 6**	**50:1+**	**2-Lamp, Small Size, Full Feature, High Efficiency**
LXM1623-05-44	**LX1689**	**Dual**	**5V**	**4**	**50:1+**	**2-Lamp, Small Size, Full Feature, High Efficiency: 2 Outputs on one sid**
LXM1623-12-44	**LX1689**	**Dual**	**12V**	**4**	**50:1+**	**2-Lamp, Small Size, Full Feature, High Efficiency: 2 Outputs on one sid**
LXM1623-12-Wc	**LX1689**	**Dual**	**12V**	**4, 6**	**50:1+**	**2-Lamp, Small Size, Full Feature, High Efficiency**
LXM1624-12-Wc	**LX1689**	**Dual**	**12V**	**4, 6**	**3:1+**	**2-Lamp, 12V, Low Cost, Standard Feature**
LXM1626-12-64	**LX1691**	**Dual**	**12V**	**6**	**100:1+**	**2-Lamp, Small Size, Full Feature, High Efficiency: 2 Outputs on one sid**
			Quad Output Inverters			
LXM1643-12-6c	**LX1689**	**Quad**	**12V**	**6**	**50:1+**	**4-Lamp, Small Size, Full Feature, High Efficiency**
LXM1644-12-6c	**LX1689**	**Quad**	**12V**	**6**	**3:1+**	**4-Lamp, Standard Dimming**

Build your own CCFL Inverter

Microsemi CCFL Controllers are the Industries Highest Efficiency, Widest Dimming Range, Lowest Component Count Controllers out there!
TSSOP Package: **LX1689, LX1688, or LX1691**

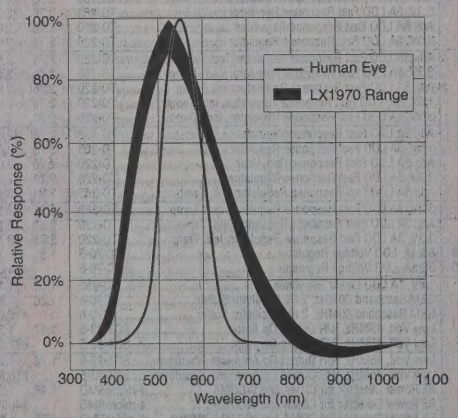
Complete Inverter BOM

1x	LX1689
1x	Transformer
1x	Dual FET
2x	Connectors
7x	Resistors
10x	Capacitors
22	**Total Components**

Visible Light Sensors

These light sensors only detect "Human Eye" visible light, providing the lowest cost, minimal component solution.
Auto Brightness Control for CCFL of LEDs, Tiny MSOP 8 package.
EXTEND YOUR LAMP LIFE — EXTEND YOUR BATTERY LIFE!

- **LX1970**
- **LX1971** — Wider Dynamic Range
- **LX1972** — Low cost, Ultra small 1206 package



LED Drivers

High Efficiency, Parallel and Series Drive, Current Sink LED Drivers perfec Hand Held and Battery Operated Devices

- **LX1990** — Dual Output, 6 LEDs
- **LX1991** — 6 Outputs, 100 LEDs
- **LX1992** — Series Drive, 80% Eff. 10 LEDs
- **LX1993** — Series Drive, 82% Eff. 10 LEDs
- **LX1994** — Dual Mode, 82% Eff. External MOSFET, 10 LEDs
- **LX1995** — Dual Mode, 85% Eff. Internal MOSFET, 10 LEDs, TSOT-5

Multi-Output PWMs

Highly Integrated power supply controller

- **LX1671** — 3 PWM, 1 LDO output, 300kHz, up to 12Vin
- **LX1672** — 2 PWM, 1 LDO, 300/500/600kHz, up to 12Vin
- **LX1673** — 1 PWM, 1 LDO, 300/600/900kHz, up to 12Vin

Key Features:

• Bi-Phase Current sharing • Programmable Soft Start • Power Sequencing Current Sense Resistors • Output as low as 0.8V • Adj. and Fixed output com

Applications:

• DDR Memory Termination • FPGA, CPU, MCU Power Supply • Video Power Supply • PC Peripherals • Computer Add On Cards

What Else?

• Li-Ion Battery Charger? • SCSI Terminators? • PWMs? • LDOs? • Cla Audio Amps? • WLAN 802.11a/b/g?

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National Semiconductor — LINEAR SERIES (Continued)

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
38691DT-2.5-ND	2.5V, 500mA LDO CMOS Linear Regulator **NEW!**	TO-252	1.53	1.13	.82
38691DT-3.3-ND	3.3V, 500mA LDO CMOS Linear Regulator **NEW!**	TO-252	1.53	1.13	.82
38691DT-5.0-ND	5.0V, 500mA LDO CMOS Linear Regulator **NEW!**	TO-252	1.53	1.13	.82
38691SD-1.8CT-ND	1.8V, 500mA LDO CMOS Linear Regulator **NEW!**	6-LLP	1.43	1.05	.76
38691SD-1.8TR-ND	1.8V, 500mA LDO CMOS Linear Regulator **NEW!**	6-LLP		494.00/1,000	
38691SD-2.5CT-ND	2.5V, 500mA LDO CMOS Linear Regulator **NEW!**	6-LLP	1.43	1.05	.76
38691SD-2.5TR-ND	2.5V, 500mA LDO CMOS Linear Regulator **NEW!**	6-LLP		494.00/1,000	
38691SD-3.3CT-ND	3.3V, 500mA LDO CMOS Linear Regulator **NEW!**	6-LLP	1.43	1.05	.76
38691SD-3.3TR-ND	3.3V, 500mA LDO CMOS Linear Regulator **NEW!**	6-LLP		494.00/1,000	
38691SD-5.0CT-ND	5.0V, 500mA LDO CMOS Linear Regulator **NEW!**	6-LLP	1.43	1.05	.76
38691SD-5.0TR-ND	5.0V, 500mA LDO CMOS Linear Regulator **NEW!**	6-LLP		494.00/1,000	
38691SD-ADJCT-ND	Adj., 500mA LDO CMOS Linear Regulator **NEW!**	6-LLP	1.43	1.05	.76
38691SD-ADJTR-ND	Adj., 500mA LDO CMOS Linear Regulator **NEW!**	6-LLP		494.00/1,000	
38692MP-1.8CT-ND	1.8V, 1A LDO CMOS Linear Regulator **NEW!**	SOT-223-5	1.78	1.31	.95
38692MP-1.8TR-ND	1.8V, 1A LDO CMOS Linear Regulator **NEW!**	SOT-223-5		617.50/1,000	
38692MP-2.5CT-ND	2.5V, 1A LDO CMOS Linear Regulator **NEW!**	SOT-223-5	1.78	1.31	.95
38692MP-2.5TR-ND	2.5V, 1A LDO CMOS Linear Regulator **NEW!**	SOT-223-5		617.50/1,000	
38692MP-3.3CT-ND	3.3V, 1A LDO CMOS Linear Regulator **NEW!**	SOT-223-5	1.78	1.31	.95
38692MP-3.3TR-ND	3.3V, 1A LDO CMOS Linear Regulator **NEW!**	SOT-223-5		617.50/1,000	
38692MP-5.0CT-ND	5V, 1A LDO CMOS Linear Regulator **NEW!**	SOT-223-5	1.78	1.31	.95
38692MP-5.0TR-ND	5V, 1A LDO CMOS Linear Regulator **NEW!**	SOT-223-5		617.50/1,000	
38692MP-ADJCT-ND	Adj., 1A LDO CMOS Linear Regulator **NEW!**	SOT-223-5	1.78	1.31	.95
38692MP-ADJTR-ND	Adj., 1A LDO CMOS Linear Regulator **NEW!**	SOT-223-5		617.50/1,000	
38692SD-1.8CT-ND	1.8V, 1A LDO CMOS Linear Regulator **NEW!**	6-LLP	1.78	1.31	.95
38692SD-1.8TR-ND	1.8V, 1A LDO CMOS Linear Regulator **NEW!**	6-LLP		617.50/1,000	
38692SD-2.5CT-ND	2.5V, 1A LDO CMOS Linear Regulator **NEW!**	6-LLP	1.78	1.31	.95
38692SD-2.5TR-ND	2.5V, 1A LDO CMOS Linear Regulator **NEW!**	6-LLP		617.50/1,000	
38692SD-3.3CT-ND	3.3V, 1A LDO CMOS Linear Regulator **NEW!**	6-LLP	1.78	1.31	.95
38692SD-3.3TR-ND	3.3V, 1A LDO CMOS Linear Regulator **NEW!**	6-LLP		617.50/1,000	
38692SD-5.0CT-ND	5V, 1A LDO CMOS Linear Regulator **NEW!**	6-LLP	1.78	1.31	.95
38692SD-5.0TR-ND	5V, 1A LDO CMOS Linear Regulator **NEW!**	6-LLP		617.50/1,000	
38692SD-ADJCT-ND	Adj., 1A LDO CMOS Linear Regulator **NEW!**	6-LLP	1.78	1.31	.95
38692SD-ADJTR-ND	Adj., 1A LDO CMOS Linear Regulator **NEW!**	6-LLP		617.50/1,000	
38693MP-1.8CT-ND	1.8V, 500mA LDO CMOS Linear Regulator **NEW!**	SOT-223	1.61	1.18	.86
38693MP-1.8TR-ND	1.8V, 500mA LDO CMOS Linear Regulator **NEW!**	SOT-223		556.40/1,000	
38693MP-2.5CT-ND	2.5V, 500mA LDO CMOS Linear Regulator **NEW!**	SOT-223	1.61	1.18	.86
38693MP-2.5TR-ND	2.5V, 500mA LDO CMOS Linear Regulator **NEW!**	SOT-223		556.40/1,000	
38693MP-3.3CT-ND	3.3V, 500mA LDO CMOS Linear Regulator **NEW!**	SOT-223	1.61	1.18	.86
38693MP-3.3TR-ND	3.3V, 500mA LDO CMOS Linear Regulator **NEW!**	SOT-223		556.40/1,000	
38693MP-5.0CT-ND	5.0V, 500mA LDO CMOS Linear Regulator **NEW!**	SOT-223	1.61	1.18	.86
38693MP-5.0TR-ND	5.0V, 500mA LDO CMOS Linear Regulator **NEW!**	SOT-223		556.40/1,000	
38693MP-ADJCT-ND	Adj., 500mA LDO CMOS Linear Regulator **NEW!**	SOT-223	1.61	1.18	.86
38693MP-ADJTR-ND	Adj., 500mA LDO CMOS Linear Regulator **NEW!**	SOT-223		556.40/1,000	
38693SD-1.8CT-ND	1.8V, 500mA LDO CMOS Linear Regulator **NEW!**	6-LLP	1.61	1.18	.86
38693SD-1.8TR-ND	1.8V, 500mA LDO CMOS Linear Regulator **NEW!**	6-LLP		556.40/1,000	
38693SD-2.5CT-ND	2.5V, 500mA LDO CMOS Linear Regulator **NEW!**	6-LLP	1.61	1.18	.86
38693SD-2.5TR-ND	2.5V, 500mA LDO CMOS Linear Regulator **NEW!**	6-LLP		556.40/1,000	
38693SD-3.3CT-ND	3.3V, 500mA LDO CMOS Linear Regulator **NEW!**	6-LLP	1.61	1.18	.86
38693SD-3.3TR-ND	3.3V, 500mA LDO CMOS Linear Regulator **NEW!**	6-LLP		556.40/1,000	
38693SD-5.0CT-ND	5.0V, 500mA LDO CMOS Linear Regulator **NEW!**	6-LLP	1.61	1.18	.86
38693SD-5.0TR-ND	5.0V, 500mA LDO CMOS Linear Regulator **NEW!**	6-LLP		556.40/1,000	
38693SD-ADJCT-ND	Adj., 500mA LDO CMOS Linear Regulator **NEW!**	6-LLP	1.61	1.18	.86
38693SD-ADJTR-ND	Adj., 500mA LDO CMOS Linear Regulator **NEW!**	6-LLP		556.40/1,000	
38841MR-ADJ-ND	Adj., 0.8A, LDO Linear Regulator **NEW!**	8-PSOP	4.95	3.77	2.88
38841S-0.8-ND	0.8V, 0.8A, LDO Linear Regulator **NEW!**	TO-263-5	4.95	3.77	2.88
38841S-1.2-ND	1.2V, 0.8A, LDO Linear Regulator **NEW!**	TO-263-5	4.95	3.77	2.88
38841S-1.5-ND	1.5V, 0.8A, LDO Linear Regulator **NEW!**	TO-263-5	4.95	3.77	2.88
38841T-0.8-ND	0.8V, 0.8A, LDO Linear Regulator **NEW!**	TO-220-5	4.95	3.77	2.88
38841T-1.2-ND	1.2V, 0.8A, LDO Linear Regulator **NEW!**	TO-220-5	4.95	3.77	2.88
38841T-1.5-ND	1.5V, 0.8A, LDO Linear Regulator **NEW!**	TO-220-5	4.95	3.77	2.88
38842MR-ADJ-ND	Adj., 1.5A, LDO Linear Regulator **NEW!**	8-PSOP	5.18	3.94	3.01
38842S-0.8-ND	0.8V, 1.5A, LDO Linear Regulator **NEW!**	TO-263-5	5.18	3.94	3.01
38842S-1.2-ND	1.2V, 1.5A, LDO Linear Regulator **NEW!**	TO-263-5	5.18	3.94	3.01
38842S-1.5-ND	1.5V, 1.5A, LDO Linear Regulator **NEW!**	TO-263-5	5.18	3.94	3.01
38842T-0.8-ND	0.8V, 1.5A, LDO Linear Regulator **NEW!**	TO-220-5	5.18	3.94	3.01
38842T-1.2-ND	1.2V, 1.5A, LDO Linear Regulator **NEW!**	TO-220-5	5.18	3.94	3.01
38842T-1.5-ND	1.5V, 1.5A, LDO Linear Regulator **NEW!**	TO-220-5	5.18	3.94	3.01
38843S-0.8-ND	0.8V, 3A, LDO Linear Regulator **NEW!**	TO-263-5	5.36	4.24	3.40
38843S-1.2-ND	1.2V, 3A, LDO Linear Regulator **NEW!**	TO-263-5	5.36	4.24	3.40
38843S-1.5-ND	1.5V, 3A, LDO Linear Regulator **NEW!**	TO-263-5	5.36	4.24	3.40
38843T-0.8-ND	0.8V, 3A, LDO Linear Regulator **NEW!**	TO-220-5	5.36	4.24	3.40
38843T-1.2-ND	1.2V, 3A, LDO Linear Regulator **NEW!**	TO-220-5	5.36	4.24	3.40
38843T-1.5-ND	1.5V, 3A, LDO Linear Regulator **NEW!**	TO-220-5	5.36	4.24	3.40
C660AIM-ND	Low Power Quad CMOS Op Amp, A Grade	14-SOIC	2.98	2.27	1.73
C660IM-ND	Low Power Quad CMOS Op Amp	14-SOIC	2.85	2.12	1.57
C661IM-ND	Low Power CMOS Op Amp	8-SOIC	1.98	1.48	1.09
C662AIM-ND	Low Power Dual CMOS Op Amp, A Grade	8-SOIC	3.07	2.28	1.69
C662IM-ND	Low Power Quad CMOS Op Amp	8-SOIC	2.39	1.78	1.31
V321M5CT-ND	Single General Purpose Low Volt, LP, R/R Out Op Amp	SOT-23-5	.98	.72	.52
V321M5TR-ND	Single General Purpose Low Volt, LP, R/R Out Op Amp	SOT-23-5		338.00/1,000	
V321M7CT-ND	Single General Purpose Low Volt, LP, R/R Out Op Amp	SC-70-5	.98	.72	.52
V321M7TR-ND	Single General Purpose Low Volt, LP, R/R Out Op Amp	SC-70-5		338.00/1,000	
V324M-ND	Quad General Purpose Low Volt, LP, R/R Out Op Amp	14-SOIC	1.13	.83	.60
V324MT-ND	Quad General Purpose Low Volt, LP, R/R Out Op Amp	14-TSSOP	1.13	.83	.60
V358M-ND	Dual General Purpose Low Volt, LP, R/R Out Op Amp	8-SOIC	1.01	.75	.54
V358MMCT-ND	Dual General Purpose Low Volt, LP, R/R Out Op Amp	8-MSOP	1.01	.75	.54
V358MMTR-ND	Dual General Purpose Low Volt, LP, R/R Out Op Amp	8-MSOP		351.00/1,000	
X660M-ND	Switch Capacitor Volt Converter	8-SOIC	1.65	1.21	.88
CP809M3-4.63CT-ND	4.63V, Microprocessor Reset Circuit	SOT-23	.72	.52	.38
CP809M3-4.63TR-ND	4.63V, Microprocessor Reset Circuit	SOT-23		224.00/1,000	
10ACN-ND	General Purpose Dual Active Filter, A Grade	20-Dip	4.00	3.04	2.32
10CCN-ND	General Purpose Dual Active Filter	20-Dip	3.40	2.59	1.98
10CCWM-ND	Universal Monolithic Dual Switched Capacitor Filter	20-SOIC	3.40	2.59	1.98
M5452V-ND	Liquid Crystal Display Driver, 32 Segments	44-PLCC	5.10	3.88	2.96
M5453V-ND	Liquid Crystal Display Driver, 32 Segments	44-PLCC	4.13	3.14	2.40
M5483N-ND	Liquid Crystal Display Driver, 31 Segments	40-Dip	4.88	3.71	2.83
M145453V-ND	Liquid Crystal Display Driver, 33 Segments	44-PLCC	4.75	3.61	2.76
87360-ICK/VLA-ND	LPC SuperI/O, Protection and GPIO Support	128-PQFP	4.13	3.14	2.40
87363-IBW/VLA-ND	LPC SuperI/O, with MIDI and Game Ports, Extended Wake-Up and Protection	128-PQFP	5.08	3.86	2.95
87364-ICK/VLA-ND	LPC SuperI/O, Extended Wake-Up/Protection	128-PQFP	5.00	3.80	2.90
87366-ICK/VLA-ND	LPC SuperI/O, Hardware Monitoring, MIDI and Game Ports	128-PQFP	5.00	3.80	2.90
87373-IBW/VLA-ND	LPC SuperI/O with Glue Functions	128-PQFP	4.68	3.56	2.72
87373-ICG/VLA-ND	LPC SuperI/O with Glue Functions	128-PQFP	7.12	5.63	4.51

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
PC87435-VPC-ND	Enhanced IPMI Baseboard Mgmt Controller	128-LQFP	15.00	14.00	13.00
PC97338VLJ-ND	ACPI 1.0 and PC98/99 Super I/O	100-PQFP	7.18	5.68	4.55
SCAN92LV090SLC-ND	9 Ch. LVDS Transceiver with Boundary SCAN	64-FBGA	9.95	7.87	6.31
SCAN92LV090VEH-ND	9 Ch. LVDS Transceiver with Boundary SCAN	64-LQFP	9.95	7.87	6.31
SCAN16512ASM-ND	Tri-St. Low Voltage Universal 16-Bit IEEE 1149.1 Bus Transceiver **NEW!**	64-FBGA	5.80	4.59	3.68
SCAN16602SM-ND	LV Universal 16-Bit IEEE 1149.1 Bus Transceiver	64-FBGA	5.48	4.34	3.48
SCAN162512ASM-ND	Tri-St. Low Voltage Universal 16-Bit IEEE 1149.1 Bus Transceiver **NEW!**	64-FBGA	5.80	4.59	3.68
SCAN162602SM-ND	LV Universal 16-Bit IEEE 1149.1 Bus Transceiver	64-FBGA	5.48	4.34	3.48
SCAN921023SLC-ND	20-66MHz, 10-Bit Serializer with IEEE 1149.1 JTAG and BIST	49-FBGA	8.98	7.70	6.83
SCAN921025SLC-ND	30-80MHz 10-Bit Serializer with IEEE 1149.1 JTAG and BIST	49-FBGA	9.31	7.98	7.08
SCAN921224SLC-ND	20-66MHz, 10-Bit Deserializer with IEEE 1149.1 JTAG and BIST	49-FBGA	8.98	7.70	6.83
SCAN921226SLC-ND	30-80MHz 10-Bit Deserializer with IEEE 1149.1 JTAG and BIST	49-FBGA	9.31	7.98	7.08
SCAN921260UJB-ND	X6 1:10 Deserializer with IEEE 1149.1 JTAG and BIST	196-LBGA	28.50	26.60	24.70
SCAN926260TUF-ND	X6 1:10 Bus LVDS Deserializer w/IEEE 1149.1 and BIST	196-LBGA	28.50	26.60	24.70
SCANH16602SM-ND	LV Universal 16-Bit IEEE 1149.1 Bus Transceiver	64-FBGA	5.48	4.34	3.48
SCANH162602SM-ND	LV Universal 16-Bit IEEE 1149.1 Bus Transceiver	64-FBGA	5.48	4.34	3.48
SCANSTA101SM-ND	Low Voltage IEEE 1149.1 STA Master	49-FBGA	14.96	12.83	11.38
SCANSTA111MT-ND	Enhanced SCAN Bridge, Multidrop Addressable IEEE 1149.1 JTAG Port	48-TSSOP	9.87	7.81	6.26
SCANSTA111SM-ND	Enhanced SCAN Bridge, Multidrop Addressable IEEE 1149.1 JTAG Port	49-FBGA	9.87	7.81	6.26
SCANSTA112SM-ND	7-Port Multidrop IEEE 1149.1 JTAG Mux	100-FBGA	10.40	8.91	7.91
SCANSTA112VS-ND	7-Port Multidrop IEEE 1149.1 JTAG Mux	100-TQFP	10.40	8.91	7.91
TL082CM-ND	Wide Bandwidth Dual JFET Input Op Amp	8-SOIC	1.09	.80	.58
TL082CMXTR-ND	Wide Bandwidth Dual JFET Input Op Amp	8-SOIC		924.38/2,500	
TL082CPNS-ND	Bi-FET Dual Op Amp	8-Dip	1.20	.88	.64
USBN9603-28M-ND	Universal Serial Bus Full Speed Node Controller with Enhanced DMA Support	28-SOIC	5.36	4.24	3.40
USBN9603SLBXCT-ND	Universal Serial Bus Full Speed Node Controller with Enhanced DMA Support	28-Laminate	6.28	4.97	3.98
USBN9603SLBXTR-ND	Universal Serial Bus Full Speed Node Controller with Enhanced DMA Support	28-Laminate		9119.50/2,500	
USBN9604SLBXCT-ND	Universal Serial Bus Full Speed Node Controller with Enhanced DMA Support	28-CSP	5.99	4.74	3.80
USBN9604SLBXTR-ND	Universal Serial Bus Full Speed Node Controller with Enhanced DMA Support	28-CSP		8692.50/2,500	

Microsemi INTEGRATED PRODUCTS — APPLICATION SPECIFIC INTEGRATED CIRCUITS

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	50	100
LX432CLP-ND	Low Voltage, Adj. Precision Shunt Regulator	TO-92	.60	.55	.51
LX1552CDM-ND	16V, Ultra-Low Start-Up Current, Current-Mode PWM	8-SOIC	2.19	2.00	1.86
LX1552CM-ND	16V, Ultra-Low Start-Up Current, Current-Mode PWM	8-Dip	2.07	1.89	1.76
LX1553CD-ND	8.4V, Ultra-Low Start-Up Current, Current-Mode PWM	14-SOIC	2.19	2.00	1.86
LX1553CDM-ND	8.4V, Ultra-Low Start-Up Current, Current-Mode PWM	8-SOIC	2.19	2.00	1.86
LX1553CM-ND	8.4V, Ultra-Low Start-Up Current, Current-Mode PWM	8-Dip	2.07	1.89	1.76
LX1553CPW-ND	8.4V, Ultra-Low Start-Up Current, Current-Mode PWM	20-TSSOP	2.88	2.63	2.44
LX1554CD-ND	16V, Ultra-Low Start-Up Current, Current-Mode PWM	14-SOIC	2.19	2.00	1.86
LX1554CDM-ND	16V, Ultra-Low Start-Up Current, Current-Mode PWM	8-SOIC	2.19	2.00	1.86
LX1554CM-ND	16V, Ultra-Low Start-Up Current, Current-Mode PWM	8-Dip	2.07	1.89	1.76
LX1555CDM-ND	8.4V, Ultra-Low Start-Up Current, Current-Mode PWM	8-SOIC	2.19	2.00	1.86
LX1555CM-ND	8.4V, Ultra-Low Start-Up Current, Current-Mode PWM	8-Dip	2.07	1.89	1.76
LX1555CPW-ND	8.4V, Ultra-Low Start-Up Current, Current-Mode PWM	20-TSSOP	2.88	2.63	2.44
LX1562IM-ND	13.1V, Second Generation Power Factor Controller	8-Dip	2.07	1.89	1.76
LX1563IDM-ND	9.8V, Second Generation Power Factor Controller	8-SOIC	2.19	2.00	1.86
LX1570CDM-ND	Phase Modulated AC Sync. Secondary Side Controller	8-SOIC	5.41	4.94	4.59
LX1570CM-ND	Phase Modulated AC Sync. Secondary Side Controller	8-Dip	5.18	4.73	4.39
LX1571CDM-ND	Phase Modulated AC Sync. Secondary Side Controller	8-SOIC	5.41	4.94	4.59
LX1660CD-ND	Monolithic Switching Regulator Controller	16-SOIC	2.76	2.52	2.34
LX1661CD-ND	Monolithic Switching Regulator Controller	16-SOIC	2.76	2.52	2.34
LX1662CD-ND	Single-Chip Prog. PWM Controller with 5-Bit DAC	14-SOIC	2.76	2.52	2.34
LX1663CD-ND	Single-Chip Prog. PWM Controller with 5-Bit DAC	16-SOIC	2.88	2.63	2.44
LX1671CLQ-ND	Multiple Output LoadSHARE™ PWM	38-MLPQ	5.68	5.19	4.82
LX1672-03CPW-ND	Multiple Output LoadSHARE™ PWM	28-TSSOP	4.49	4.10	3.81
LX1672-05CPW-ND	Multiple Output LoadSHARE™ PWM	28-TSSOP	4.49	4.10	3.81
LX1673-06CLQ-ND	High Frequency PWM Regulator	20-MLPQ	3.22	2.94	2.73
LX1673-06CPW-ND	High Frequency PWM Regulator	20-TSSOP	3.22	2.94	2.73
LX1676CLQ-ND	Mobile AMD Athlon™ VRM Controller	38-MLPQ	4.62	4.15	3.56
LX1676CPW-ND	Mobile AMD Athlon™ VRM Controller	38-TSSOP	6.34	5.69	4.88
LX1681CDM-ND	Voltage-Mode PWM Controller	8-SOIC	1.27	1.14	.98
LX1681IDM-ND	Voltage-Mode PWM Controller	8-SOIC	1.85	1.67	1.43
LX1684CD-ND	Voltage-Mode PWM Controller	14-SOIC	1.74	1.56	1.34
LX1688CPW-ND	Multiple Lamp CCFL Controller	24-TSSOP	3.86	3.47	2.97
LX1688IPW-ND	Multiple Lamp CCFL Controller	24-TSSOP	4.62	4.15	3.56
LX1721-01 EVALKIT-ND	Evaluation Board for LX1721	—	130.65	—	—
LX1721CDB-ND	Class-D Stereo Power Amp Controller	44-QSOP	8.99	8.07	6.92
LX1722CDB-ND	Class-D Stereo Power Amp Controller **NEW!**	44-QSOP	8.99	8.07	6.92
LX1741CDU-ND	High Efficiency High Voltage Boost Controller **NEW!**	8-MSOP	1.38	1.25	1.07
LX1742CDU-ND	High Efficiency High Voltage Boost Controller **NEW!**	8-MSOP	1.91	1.72	1.47
LX1744CLQ-ND	Dual Output Boost, LED Driver/LCD Bias	16-MLPQ	3.20	2.87	2.46
LX1744CPW-ND	Dual Output Boost, LED Driver/LCD Bias	14-TSSOP	3.12	2.80	2.40
LX1970-03 EVALKIT-ND	Evaluation Kit for LX1970 Visible Light Sensor	—	48.85	—	—
LX2173CDM-ND	1.25A High Efficiency 100KHz Switching Regulator	8-SOIC	1.77	1.62	1.51
LX2201CLQ-ND	USB Li-Ion Battery Charger **NEW!**	20-MLP	2.50	2.24	1.92
LX5250CDBCT-ND	9-Line Multimode SCSI Terminator	36-QSOP	3.90	3.50	3.00
LX5250CDBTR-ND	9-Line Multimode SCSI Terminator	36-QSOP		2600.00/1,000	
LX5250CPW-ND	9-Line Multimode SCSI Terminator **NEW!**	28-TSSOP	3.90	3.50	3.00
LX5251CPW-ND	9-Line Multimode SCSI Terminator **NEW!**	24-TSSOP	3.90	3.50	3.00
LX5255CPW-ND	9-Line LVD SCSI Terminator **NEW!**	24-TSSOP	3.90	3.50	3.00
LX5261CDP-ND	27-Line LVD SCSI Source/Sink Regulator **NEW!**	16-SOIC	4.60	4.20	3.90
LX6431ACDM-ND	Precision Programmable Reference	8-SOIC	.90	.82	.77
LX7001CDM-ND	Transient Immune Undervoltage Sensing Circuit	8-SOIC	1.15	1.05	.98
LX7201-22ISF-ND	EMI Filter and ESD Prot. for Down Stream USB Ports	SOT-23-6	.92	.83	.71
LX8117-00CDD-ND	Adj., 0.8A Low Dropout Positive Regulator	TO-263	2.88	2.63	2.44
LX8221-AIDU-ND	Adj., Dual 150mA CMOS Low Dropout Regulator	10-MSOP	1.21	1.09	.93

(Continued)

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Microsemi INTEGRATED PRODUCTS — APPLICATION SPECIFIC INTEGRATED CIRCUITS (Continued)

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	50	100
LX8816-04CDF-ND	Dual Channel 1A Low Dropout Regulator	SPAK-5	1.60	1.44	1.23
LX8941CP-ND	Adj. Low Dropout Regulator	TO-220-5	1.95	1.75	1.50
LX9501-ND	Input-Connector Cable Assembly	—	4.88	4.38	3.75
LX1671 EVA KIT-ND	Evaluation Kit for Switching Regulators	—	146.25	—	—
LXM1611-01-ND	Digital Dimming CCFL Inverter Module	—	45.66	41.69	38.71
LXM1612-05-01-ND	5V Highly-Integrated, Digital Dimming CCFL Inverter Module	—	48.30	44.10	40.95
LXM1620-01-ND	Direct Drive Dual Lamp CCFL Inverter Module	—	64.40	58.80	54.60
LXM1621-01-ND	Digital Dimming Dual Lamp CCFL Inverter Module	—	78.20	71.40	66.30
MC33064DMCT-ND	Undervoltage Sensing Circuit	8-SOIC	1.07	.97	.83
MC33064DMTR-ND	Undervoltage Sensing Circuit	8-SOIC	1787.50/2,500		
SG2524BDW-ND	Regulating Pulse Width Modulator	16-SOIC	5.18	4.73	4.39
SG2543DW-ND	Power Supply Output Supervisory Circuit	16-SOIC	12.08	11.03	10.24
SG2842DM-ND	Current Mode PWM Controller	8-SOIC	3.80	3.47	3.22
SG3524BDW-ND	Regulating Pulse Width Modulator	16-SOIC	4.60	4.20	3.90
SG3543DW-ND	Power Supply Output Supervisory Circuit	16-SOIC	5.64	5.15	4.78
SG3842DM-ND	Current Mode PWM Controller	8-SOIC	1.61	1.47	1.37
TL431ACDM-ND	Precision Programmable Reference	8-SOIC	.69	.63	.59
UC2842AD-ND	Current Mode PWM Controller	14-SOIC	4.03	3.68	3.42

Microsemi INTEGRATED PRODUCTS — NEW! CCFL MODULES AND CONTROLLERS

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	50	100
LX1686ECPW-ND	Digital Dimming CCFL Controller	24-TSSOP	5.87	—	—
LX1689CPW-ND	Third Generation CCFL Controller	20-TSSOP	4.45	—	—
LX9506-ND	Input Cable Assembly	—	4.88	—	—
LX9507-ND	Input Cable Assembly	—	4.88	—	—
LX9508-ND	Input Cable Assembly	—	10.24	—	—
LXM1612-05-02-ND	5V, Digital Dimming CCFL Inverter Module	—	48.30	—	—
LXM1612-12-01-ND	12V, Digital Dimming CCFL Inverter Module	—	48.30	—	—
LXM1612-12-02-ND	12V, Digital Dimming CCFL Inverter Module	—	48.30	—	—
LXM1614E-14-11-ND	Dual Dimming, Extended Temp. CCFL Inverter Module	—	58.54	—	—
LXM1615-03-01-ND	3.6V/5V, 2W, Digital Dimming CCFL Inverter Module	—	34.39	—	—
LXM1615-03-02-ND	3.6V/5V, 2W, Digital Dimming CCFL Inverter Module	—	34.39	—	—
LXM1617-03-21-ND	3.3V, 2.2W CCFL Programmable Inverter Module	—	36.36	—	—
LXM1617-03-22-ND	3.3V, 2.2W CCFL Programmable Inverter Module	—	36.36	—	—
LXM1617-05-21-ND	5V, 2.2W CCFL Programmable Inverter Module	—	36.36	—	—
LXM1617-05-22-ND	5V, 2.2W CCFL Programmable Inverter Module	—	36.36	—	—
LXM1617-05-41-ND	5V, 4W CCFL Programmable Inverter Module	—	36.36	—	—
LXM1617-05-42-ND	5V, 4W CCFL Programmable Inverter Module	—	36.36	—	—
LXM1617-05-61-ND	5V, 6W CCFL Programmable Inverter Module	—	36.36	—	—
LXM1617-05-62-ND	5V, 6W CCFL Programmable Inverter Module	—	36.36	—	—
LXM1617-12-41-ND	12V, 4W CCFL Programmable Inverter Module	—	36.36	—	—
LXM1617-12-42-ND	12V, 4W CCFL Programmable Inverter Module	—	36.36	—	—
LXM1617-12-61-ND	12V, 6W CCFL Programmable Inverter Module	—	36.36	—	—
LXM1617-12-62-ND	12V, 6W CCFL Programmable Inverter Module	—	36.36	—	—
LXM1618-03-21-ND	3.3V, 2.2W CCFL Programmable Inverter Module	—	33.21	—	—
LXM1618-03-22-ND	3.3V, 2.2W CCFL Programmable Inverter Module	—	33.21	—	—
LXM1618-05-21-ND	5V, 2.2W CCFL Programmable Inverter Module	—	33.21	—	—
LXM1618-05-22-ND	5V, 2.2W CCFL Programmable Inverter Module	—	33.21	—	—
LXM1618-05-41-ND	5V, 4W CCFL Programmable Inverter Module	—	33.21	—	—
LXM1618-05-42-ND	5V, 4W CCFL Programmable Inverter Module	—	33.21	—	—
LXM1618-05-61-ND	5V, 6W CCFL Programmable Inverter Module	—	33.21	—	—
LXM1618-05-62-ND	5V, 6W CCFL Programmable Inverter Module	—	33.21	—	—
LXM1618-12-41-ND	12V, 4W CCFL Programmable Inverter Module	—	33.21	—	—
LXM1618-12-42-ND	12V, 4W CCFL Programmable Inverter Module	—	33.21	—	—
LXM1618-12-43-ND	12V, 4W CCFL Programmable Inverter Module	—	33.21	—	—
LXM1618-12-61-ND	12V, 6W CCFL Programmable Inverter Module	—	33.21	—	—
LXM1618-12-62-ND	12V, 6W CCFL Programmable Inverter Module	—	33.21	—	—
LXM1621-02-ND	6mA, Digital Dimming Dual Lamp CCFL Inverter Module	—	78.20	—	—
LXM1621-04-ND	5mA, Digital Dimming Dual Lamp CCFL Inverter Module	—	78.20	—	—
LXM1623-05-41-ND	5V, Dual 4W CCFL Programmable Inverter Module	—	56.33	—	—
LXM1623-05-42-ND	5V, Dual 4W CCFL Programmable Inverter Module	—	56.33	—	—
LXM1623-05-61-ND	5V, Dual 6W CCFL Programmable Inverter Module	—	56.33	—	—
LXM1623-05-62-ND	5V, Dual 6W CCFL Programmable Inverter Module	—	56.33	—	—
LXM1623-12-41-ND	12V, Dual 4W CCFL Programmable Inverter Module	—	56.33	—	—
LXM1623-12-42-ND	12V, Dual 4W CCFL Programmable Inverter Module	—	56.33	—	—
LXM1623-12-44-ND	12V, Dual 4W CCFL Programmable Inverter Module	—	56.33	—	—
LXM1623-12-61-ND	12V, Dual 6W CCFL Programmable Inverter Module	—	56.33	—	—
LXM1623-12-62-ND	12V, Dual 6W CCFL Programmable Inverter Module	—	56.33	—	—
LXM1624-12-41-ND	12V, Dual 4W CCFL Programmable Inverter Module	—	59.48	—	—
LXM1624-12-61-ND	12V, Dual 6W CCFL Programmable Inverter Module	—	59.48	—	—
LXM1624-12-62-ND	12V, Dual 6W CCFL Programmable Inverter Module	—	59.48	—	—
LXM1626-12-64-ND	12V, Dual 6W CCFL Programmable Inverter Module	—	49.13	—	—
LXM1643-12-61-ND	12V, Quad 6W CCFL Programmable Inverter Module	—	84.92	—	—
LXM1643-12-62IPG-ND	12V, Quad 6W CCFL Programmable Inverter Module	—	84.92	—	—
LXM1644-12-61-ND	12V, Quad 6W CCFL Programmable Inverter Module	—	76.43	—	—

Microsemi INTEGRATED PRODUCTS — NEW! LIGHT APPLICATIONS

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	50	100
LX1970IDU-ND	Visible Light Sensor	8-MSOP	2.34	2.10	1.80
LX1970MINI EVAL-ND	Mini Control Board	—	11.70	10.50	9.00
LX1971IDU-ND	Wide Range Visible Light Sensor	8-MSOP	2.54	2.28	1.95
LX1990-02 EVAL-ND	Dual Programmable LED Driver Evaluation Board	—	48.75	—	—
LX1990-03EVAL-ND	Dual Programmable LED Driver Evaluation Board	—	39.00	—	—
LX1990ILM-ND	Dual Programmable LED Current Sink	6-MLP	.82	.74	.63
LX1991-02EVAL-ND	Six Output LED Driver Evaluation Board	—	39.00	—	—
LX1991-03EVAL-ND	Six Output LED Driver Evaluation Board	—	39.00	—	—
LX1991ILQ-ND	Six Output Programmable LED Current Sink	16-MLPQ	2.11	1.89	1.62
LX1992CLM-ND	High Efficiency LED Driver	8-MLP	1.38	1.25	1.07
LX1993CDU-ND	High Efficiency LED Driver	8-MSOP	1.91	1.72	1.47
LX1995-1-CSG-ND	Miniature LED Driver	5-TSOT	.86	.77	.66
LXE1991-01EVALKIT-ND	Six Output LED Driver Evaluation Board	—	48.75	—	—

Microsemi INTEGRATED PRODUCTS — NEW! PROTECTIO

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	50	1
LX7001CLP-ND	Transient Immune Undervoltage Sensing Circuit	TO-92	1.04	.95	
LX7001IDM-ND	Transient Immune Undervoltage Sensing Circuit	8-SOIC	1.27	1.16	1
LX7001ILP-ND	Transient Immune Undervoltage Sensing Circuit	TO-92	1.15	1.05	
LX7201-15ISF-ND	EMI Filter and ESD Protection for Down Stream USB Ports	SOT-23-6	.92	.83	
LX7202-15ISF-ND	EMI Filter and ESD Protection for Up Stream USB Ports	SOT-23-6	.92	.83	
LX7202-22ISF-ND	EMI Filter and ESD Protection for Up Stream USB Ports	SOT-23-6	.92	.83	
LX7203-15ISM-ND	EMI Filter and ESD Protection for Up Stream USB Ports	SC70-6L	1.19	1.07	
LX7203-22ISM-ND	EMI Filter and ESD Protection for Up Stream USB Ports	SC70-6L	1.19	1.07	
MC33064LP-ND	Undervoltage Sensing Circuit	TO-92	.98	.88	
MC33164-3DM-ND	3V, Undervoltage Sensing Circuit	8-SOIC	.98	.88	
MC33164-3LP-ND	3V, Undervoltage Sensing Circuit	TO-92	1.07	.97	
MC33164DM-ND	5V, Undervoltage Sensing Circuit	8-SOIC	1.27	1.14	
MC33164LP-ND	5V, Undervoltage Sensing Circuit	TO-92	1.17	1.05	
MC34064DM-ND	Undervoltage Sensing Circuit	8-SOIC	.98	.88	
MC34064LP-ND	Undervoltage Sensing Circuit	TO-92	.88	.79	
MC34164-3DM-ND	3V, Undervoltage Sensing Circuit	8-SOIC	.98	.88	
MC34164-3LP-ND	3V, Undervoltage Sensing Circuit	TO-92	.88	.79	
MC34164DM-ND	Undervoltage Sensing Circuit	8-SOIC	1.17	1.05	
MC34164LP-ND	Undervoltage Sensing Circuit	TO-92	1.07	.97	

Microsemi INTEGRATED PRODUCTS — NEW! RECTIFIER MODUL

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	2
SRM4010-ND	40A Synchronous Rectifier Module	SMD	30.00	27.00	2

Microsemi INTEGRATED PRODUCTS — NEW! VOLTAG REGULATOR

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	50
LX432CSC-ND	Low Voltage Adj. Precision Shunt Regulator	SOT-23	.60	.55
LX432ISC-ND	Low Voltage Adj. Precision Shunt Regulator	SOT-23	1.04	.95
LX6431ACLP-ND	Precision Adj. Three Terminal Shunt Volt. Regulator	TO-92	.85	.78
LX6431AIDM-ND	Precision Adj. Three Terminal Shunt Volt. Regulator	8-SOIC	1.10	1.01
LX6431AILP-ND	Precision Adj. Three Terminal Shunt Volt. Regulator	TO-92	1.06	.97
LX6431BCDM-ND	Precision Adj. Three Terminal Shunt Volt. Regulator	8-SOIC	1.04	.95
LX6431BCLP-ND	Precision Adj. Three Terminal Shunt Volt. Regulator	TO-92	.99	.91
LX6431BIDM-ND	Precision Adj. Three Terminal Shunt Volt. Regulator	8-SOIC	1.27	1.16
LX6431BILP-ND	Precision Adj. Three Terminal Shunt Volt. Regulator	TO-92	1.22	1.12
LX6431CDM-ND	Precision Adj. Three Terminal Shunt Volt. Regulator	8-SOIC	.74	.68
LX6431CLP-ND	Precision Adj. Three Terminal Shunt Volt. Regulator	TO-92	.69	.63
LX6431IDM-ND	Precision Adj. Three Terminal Shunt Volt. Regulator	8-SOIC	.90	.82
LX6431ILP-ND	Precision Adj. Three Terminal Shunt Volt. Regulator	TO-92	.85	.78
LX8117-00CST-ND	Adj., 0.8A LDO Positive Regulator	SOT-223	1.96	1.79
LX8117-25CST-ND	2.5V, 0.8A LDO Positive Regulator	SOT-223	1.96	1.79
LX8117-28CST-ND	2.85V, 0.8A LDO Positive Regulator	SOT-223	1.96	1.79
LX8117-33CDD-ND	3.3V, 0.8A LDO Positive Regulator	TO-263	2.88	2.63
LX8117-33CDT-ND	3.3V, 0.8A LDO Positive Regulator	D-Pak	1.96	1.79
LX8117-33CST-ND	3.3V, 0.8A LDO Positive Regulator	SOT-223	1.96	1.79
LX8117A-00CDD-ND	Adj., 1A LDO Positive Regulator	TO-263	2.88	2.63
LX8117A-00CST-ND	Adj., 1A LDO Positive Regulator	SOT-223	1.96	1.79
LX8117A-25CST-ND	2.5V, 1A LDO Positive Regulator	SOT-223	1.96	1.79
LX8117A-28CDT-ND	2.85V, 1A LDO Positive Regulator	D-Pak	1.96	1.79
LX8117A-28CST-ND	2.85V, 1A LDO Positive Regulator	SOT-223	1.96	1.79
LX8117A-33CDD-ND	3.3V, 1A LDO Positive Regulator	TO-263	2.88	2.63
LX8117A-33CST-ND	3.3V, 1A LDO Positive Regulator	SOT-223	1.96	1.79
LX8117B-00CDD-ND	Adj., 1.2A LDO Positive Regulator	TO-263	3.11	2.84
LX8117B-00CST-ND	Adj., 1.2A LDO Positive Regulator	SOT-223	2.19	2.00
LX8211-00ISECT-ND	Adj., 150mA CMOS LDO Regulator	SOT-23-5	.55	.49
LX8211-00ISETR-ND	Adj., 150mA CMOS LDO Regulator	SOT-23-5	1092.00/3,	
LX8211-25ISE-ND	2.5V, 150mA CMOS LDO Regulator	SOT-23-5	.55	.49
LX8211-30ISE-ND	3V, 150mA CMOS LDO Regulator	SOT-23-5	.55	.49
LX8221-DIDU-ND	2.7V/Adj., Dual 150mA CMOS LDO Regulator	10-MSOP	1.21	1.09
LX8221-GIDU-ND	3V/Adj., Dual 150mA CMOS LDO Regulator	10-MSOP	1.21	1.09
LX8384-00CDD-ND	Adj., 5A LDO Positive Regulator	TO-263	5.18	4.73
LX8554-00CDD-ND	Adj., 5A LDO Positive Regulator	TO-263	7.48	6.83
LX8580A-00CDD-ND	Adj., 7.5A LDO Positive Regulator	TO-263-5	1.50	1.37
LX8585-15CDD-ND	1.5V, 4.6A LDO Positive Regulator	TO-263	5.75	5.25
LX8817-25CDF-ND	2.5V/Adj., Dual Channel 2.5A LDO Regulator	7-SPAK	1.54	1.39
SG2524BN-ND	Regulating Pulse Width Modulator	16-Dip	4.14	3.78
SG2524D-ND	Regulating Pulse Width Modulator	16-SOIC	3.68	3.36
SG2524N-ND	Regulating Pulse Width Modulator	16-Dip	3.91	3.57
SG2525ADW-ND	Regulating Pulse Width Modulator	16-SOIC	6.90	6.30
SG2525AN-ND	Regulating Pulse Width Modulator	16-Dip	7.48	6.83
SG2526BDW-ND	Regulating Pulse Width Modulator	18-SOIC	10.12	9.24
SG2526BN-ND	Regulating Pulse Width Modulator	18-Dip	9.78	8.93
SG2526DW-ND	Regulating Pulse Width Modulator	18-SOIC	14.38	13.13
SG2526N-ND	Regulating Pulse Width Modulator	18-Dip	9.20	8.40
SG2543N-ND	Power Supply Output Supervisory Circuit	16-Dip	8.05	7.35
SG2842M-ND	Current Mode PWM Controller	8-Dip	3.80	3.47
SG2843DM-ND	Current Mode PWM Controller	8-SOIC	3.80	3.47
SG2843M-ND	Current Mode PWM Controller	8-Dip	3.80	3.47
SG2844DM-ND	Current Mode PWM Controller	8-SOIC	3.80	3.47
SG2844M-ND	Current Mode PWM Controller	8-Dip	3.80	3.47
SG2845DM-ND	Current Mode PWM Controller	8-SOIC	3.80	3.47
SG2845M-ND	Current Mode PWM Controller	8-Dip	3.80	3.47
SG2846DW-ND	Current Mode PWM Controller	16-SOIC	7.36	6.72
SG2846N-ND	Current Mode PWM Controller	16-Dip	7.13	6.51
SG3524D-ND	Regulating Pulse Width Modulator	16-SOIC	1.84	1.68
SG3524N-ND	Regulating Pulse Width Modulator	16-Dip	1.15	1.05
SG3525ADW-ND	Regulating Pulse Width Modulator	16-SOIC	2.07	1.89
SG3525AN-ND	Regulating Pulse Width Modulator	16-Dip	1.84	1.68
SG3526BDW-ND	Regulating Pulse Width Modulator	18-SOIC	4.49	4.10
SG3526BN-ND	Regulating Pulse Width Modulator	18-Dip	4.26	3.89
SG3526DW-ND	Regulating Pulse Width Modulator	18-SOIC	4.14	3.78

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Microsemi INTEGRATED PRODUCTS — NEW! VOLTAGE REGULATORS (Continued)

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	50	100
526BN-ND	Regulating Pulse Width Modulator	18-Dip	4.26	3.89	3.61
526N-ND	Regulating Pulse Width Modulator	18-Dip	3.91	3.57	3.32
543N-ND	Power Supply Output Supervisory Circuit	16-Dip	5.18	4.73	4.39
842M-ND	Current Mode PWM Controller	8-Dip	1.38	1.26	1.17
843DM-ND	Current Mode PWM Controller	8-SOIC	1.61	1.47	1.37
843M-ND	Current Mode PWM Controller	8-Dip	1.38	1.26	1.17
844DM-ND	Current Mode PWM Controller	8-SOIC	1.61	1.47	1.37
844M-ND	Current Mode PWM Controller	8-Dip	1.38	1.26	1.17
845DM-ND	Current Mode PWM Controller	8-SOIC	1.61	1.47	1.37
845M-ND	Current Mode PWM Controller	8-Dip	1.38	1.26	1.17
846DW-ND	Current Mode PWM Controller	16-SOIC	4.14	3.78	3.51
31ACLP-ND	Precision Programmable Reference	TO-92	.62	.57	.53
31AIDM-ND	Precision Programmable Reference	8-SOIC	.85	.78	.73
31AILP-ND	Precision Programmable Reference	TO-92	.76	.70	.65
31BCDM-ND	Precision Programmable Reference	8-SOIC	1.45	1.33	1.23
31BCLP-ND	Precision Programmable Reference	TO-92	1.38	1.26	1.17
31BIDM-ND	Precision Programmable Reference	8-SOIC	1.77	1.62	1.51
31BILP-ND	Precision Programmable Reference	TO-92	1.70	1.56	1.45
31CDM-ND	Precision Programmable Reference	8-SOIC	.58	.53	.49
31IDM-ND	Precision Programmable Reference	8-SOIC	.71	.66	.61
31ILP-ND	Precision Programmable Reference	TO-92	.58	.53	.49
842ADM-ND	16V, Current Mode PWM Controller	8-SOIC	4.03	3.68	3.42
842AM-ND	16V, Current Mode PWM Controller	8-Dip	3.91	3.57	3.32
843AD-ND	8.4V, Current Mode PWM Controller	14-SOIC	4.03	3.68	3.42
843ADM-ND	8.4V, Current Mode PWM Controller	8-SOIC	4.03	3.68	3.42
843AM-ND	8.4V, Current Mode PWM Controller	8-Dip	3.91	3.57	3.32
844AD-ND	16V, Current Mode PWM Controller	14-SOIC	4.03	3.68	3.42
844ADM-ND	16V, Current Mode PWM Controller	8-SOIC	4.03	3.68	3.42
844AM-ND	16V, Current Mode PWM Controller	8-Dip	3.91	3.57	3.32
845AD-ND	8.4V, Current Mode PWM Controller	14-SOIC	4.03	3.68	3.42
845ADM-ND	8.4V, Current Mode PWM Controller	8-SOIC	4.03	3.68	3.42
845AM-ND	8.4V, Current Mode PWM Controller	8-Dip	3.91	3.57	3.32
842AD-ND	16V, Current Mode PWM Controller	14-SOIC	1.61	1.47	1.37
842ADM-ND	16V, Current Mode PWM Controller	8-SOIC	1.73	1.58	1.47
842AM-ND	16V, Current Mode PWM Controller	8-Dip	1.38	1.26	1.17
843ADCT-ND	8.4V, Current Mode PWM Controller	14-SOIC	1.37	1.23	1.05
843ADTR-ND	8.4V, Current Mode PWM Controller	14-SOIC		2275.00/2,500	
843ADM-ND	8.4V, Current Mode PWM Controller	8-SOIC	1.73	1.58	1.47
843AM-ND	8.4V, Current Mode PWM Controller	8-Dip	1.38	1.26	1.17
844AD-ND	16V, Current Mode PWM Controller	14-SOIC	1.61	1.47	1.37
844ADM-ND	16V, Current Mode PWM Controller	8-SOIC	1.73	1.58	1.47
844AM-ND	16V, Current Mode PWM Controller	8-Dip	1.38	1.26	1.17
845AD-ND	8.4V, Current Mode PWM Controller	14-SOIC	1.61	1.47	1.37
845ADM-ND	8.4V, Current Mode PWM Controller	8-SOIC	1.73	1.58	1.47
845AM-ND	8.4V, Current Mode PWM Controller	8-Dip	1.38	1.26	1.17

National Semiconductor — TELECOMMUNICATIONS ICs

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
054N-ND	Enhanced Serial Interface CODEC Filter	16-Dip	2.70	2.06	1.57
054WM-ND	Enhanced Serial Interface CODEC Filter	16-SOIC	2.50	1.90	1.45
310J304-ND	ISDN Basic Access Echo-Cancelling 2B1Q U Transceiver	28-Dip	16.65	15.54	14.43
320AV308-ND	ISDN S/T Interface Device	20-PLCC	9.03	7.74	6.87

LINEAR TECHNOLOGY — AMPLIFIERS

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
	Op Amps				
8S8-ND	Precision Sample and Hold Amp	8-SOIC	3.25	2.35	1.74
8AN8-ND	15MHz High Speed Op Amp	8-Dip	3.38	2.25	1.95
001ACN8-ND	Single Precision Op Amp	8-Dip	5.88	3.92	3.40
001CN8-ND	Single Precision Op Amp	8-Dip	2.88	2.10	1.90
001CS8-ND	Single Precision Op Amp	8-SOIC	3.63	2.42	2.15
002CN-ND	Dual Matched Precision Op Amp	14-Dip	5.25	3.50	2.95
006CN8-ND	5V Single Precision Op Amp	8-Dip	2.88	1.92	1.60
006S8-ND	5V Single Precision Op Amp	8-SOIC	3.50	2.33	1.95
007ACN8-ND	Single Low Noise, High-Speed, Precision Op Amp	8-Dip	8.75	5.83	5.00
007CN8-ND	Single Low Noise, High-Speed, Precision Op Amp	8-Dip	3.63	2.42	1.95
007CS8-ND	Single Low Noise, High-Speed, Precision Op Amp	8-SOIC	4.13	2.75	2.15
007IS8-ND	Single Low Noise, High-Speed, Op Amp, Ind. Temp	8-SOIC	5.63	3.75	3.10
008CN8-ND	Precision Low Noise Op Amp with Microvoltage Offset	8-Dip	5.50	3.67	3.10
010CN8-ND	High Speed 150mA Power Buffer	8-Dip	4.38	2.92	2.50
010CT-ND	High Speed 150mA Power Buffer	TO-220-5	5.00	3.33	2.85
012ACN8-ND	Universal Single Precision Low Noise Op Amp	8-Dip	7.13	4.75	3.95
012ACS8-ND	Universal Single Precision Low Noise Op Amp	8-SOIC	7.13	5.09	4.19
012CN8-ND	Universal Single Precision Low Noise Op Amp	8-Dip	5.00	3.33	2.75
012S8-ND	Universal Single Precision Low Noise Op Amp	8-SOIC	6.00	4.00	3.45
013ACN8-ND	Dual Precision Op Amp	8-Dip	7.13	4.75	3.95
013CN8-ND	Dual Precision Op Amp, Vos=300µV	8-Dip	4.25	2.83	2.40
013DN8-ND	Dual Precision Op Amp, Vos=800µV	8-Dip	3.50	2.33	1.95
013DS8-ND	Dual Precision Op Amp, Vos=800µV	8-SOIC	4.00	2.67	2.30
014ACN-ND	Quad Precision Op Amp	14-Dip	12.75	8.50	7.10
014CNLT-ND	Quad Precision Op Amp, Vos=300µV	14-Dip	9.38	6.25	5.35
014DNLT-ND	Quad Precision Op Amp, Vos=800µV	14-Dip	6.25	4.17	3.60
014DSW-ND	Quad Precision Op Amp	16-SOIC	7.38	4.92	4.15
014ISW-ND	Quad Precision Op Amp	16-SOIC	9.63	6.42	5.40
022CN8-ND	High Speed Precision JFET Op Amp	8-Dip	5.00	3.33	2.95
028ACN8-ND	Single, Ultra Low Noise Op Amp	8-Dip	13.13	8.75	7.55
028CN8-ND	Single, Ultra Low Noise Op Amp	8-Dip	8.63	5.75	4.95
028CS8-ND	Single, Ultra Low Noise Op Amp	8-SOIC	8.63	5.75	4.95
037ACN8-ND	Single, Low Noise, High-Speed Precision Op Amp	8-Dip	8.75	5.83	5.00
037CN8-ND	Single, Low Noise, High-Speed Precision Op Amp	8-Dip	3.63	2.42	1.95
037CS8-ND	Single, Low Noise, High-Speed Precision Op Amp	8-SOIC	4.13	2.75	2.15
055CN8-ND	Precision High-Speed JFET Op Amp	8-Dip	3.38	2.25	1.95
056CN8-ND	Precision High-Speed JFET Op Amp	8-Dip	3.38	2.25	1.95
056S8-ND	Precision High-Speed JFET Op Amp	8-SOIC	4.00	2.67	2.50
057ACN8-ND	Dual Precision JFET Op Amp, 450µV	8-Dip	8.75	5.83	4.95
057CN8-ND	Dual Precision JFET Op Amp, 600µV	8-Dip	4.50	3.00	2.55
LT1057S8-ND	Dual Precision JFET Op Amp	8-SOIC	4.75	3.17	2.95
LT1058ACN-ND	Quad Precision JFET Op Amp	14-Dip	16.50	11.00	9.55
LT1058CN-ND	Quad Precision JFET Op Amp	14-Dip	7.63	5.08	4.35
LT1058ISW-ND	Quad Precision JFET Op Amp	16-SOIC	17.88	11.92	10.30
LT1058SW-ND	Quad Precision JFET Op Amp	16-SOIC	8.88	5.92	5.00
LT1077ACN8-ND	Micropower Precision Single Op Amp	8-Dip	5.63	3.75	3.20
LT1077CN8-ND	Micropower Precision Single Op Amp	8-Dip	3.13	2.08	1.65
LT1077IS8-ND	Micropower Precision Single Op Amp	8-SOIC	4.38	2.91	2.40
LT1077S8-ND	Micropower Precision Single Op Amp	8-SOIC	3.63	2.42	2.05
LT1078ACN8-ND	Micropower Precision Dual Op Amp	8-Dip	9.00	6.00	5.15
LT1078CN8-ND	Micropower Precision Dual Op Amp	8-Dip	5.00	3.33	2.80
LT1078IN8-ND	Micropower Precision Dual Op Amp	8-Dip	6.50	4.33	3.75
LT1078IS8-ND	Micropower Precision Dual Op Amp	8-SOIC	8.38	5.60	4.85
LT1078S8-ND	Micropower Precision Dual Op Amp	8-SOIC	6.50	4.35	3.65
LT1079ACN-ND	Micropower Precision Quad Op Amp	14-Dip	11.25	7.50	6.50
LT1079CN-ND	Micropower Precision Quad Op Amp	14-Dip	6.25	4.17	3.50
LT1079IN-ND	Micropower Precision Quad Op Amp, Ind. Temp	14-Dip	7.75	5.17	4.45
LT1079ISW-ND	Micropower Precision Quad Op Amp, Ind. Temp	16-SOIC	10.13	6.75	5.70
LT1079SW-ND	Micropower Precision Quad Op Amp	16-SOIC	8.13	5.42	4.55
LT1097CN8-ND	Low Cost, Low Power Precision Op Amp	8-Dip	3.13	2.08	1.80
LT1097S8-ND	Low Cost, Low Power Precision Op Amp	8-SOIC	3.38	2.25	1.95
LT1112ACN8-ND	Dual Low Power Precision Op Amp	8-Dip	6.25	4.17	3.50
LT1112CN8-ND	Dual Low Power Precision Op Amp	8-Dip	4.38	2.92	2.45
LT1112IS8-ND	Dual Low Power Precision Op Amp	8-SOIC	5.38	3.57	3.00
LT1112S8-ND	Dual Low Power Precision Op Amp	8-SOIC	4.88	3.25	2.65
LT1113CN8-ND	Dual Low Noise JFET Input Precision Op Amp	8-Dip	6.00	4.00	3.25
LT1113CS8-ND	Dual Low Noise JFET Input Precision Op Amp	8-SOIC	6.50	4.33	3.55
LT1114ACN-ND	Quad Low Power Precision Op Amp	14-Dip	12.13	8.08	6.50
LT1114CN-ND	Quad Low Power Precision Op Amp	14-Dip	8.50	5.67	4.50
LT1114IN-ND	Quad Low Power Precision Op Amp	14-Dip	9.38	6.23	5.35
LT1114S-ND	Quad Low Power Precision Op Amp	16-SOIC	8.88	5.92	4.75
LT1115CN8-ND	Ultra Low Noise Audio Op Amp	8-Dip	5.63	3.74	2.95
LT1122CCN8-ND	Fast Settling JFET Input Op Amp	8-Dip	5.25	3.50	2.95
LT1122CS8-ND	Fast Settling JFET Input Op Amp	8-SOIC	5.75	3.83	3.25
LT1122DCN8-ND	Fast Settling JFET Input Op Amp	8-Dip	4.50	3.00	2.50
LT1122DS8-ND	Fast Settling JFET Input Op Amp	8-SOIC	4.88	3.25	2.70
LT1124CN8-ND	Dual, Low Noise, High Speed Precision Op Amp	8-Dip	6.38	4.25	3.65
LT1124CS8-ND	Dual, Low Noise, High Speed Precision Op Amp	8-SOIC	6.75	4.50	3.85
LT1125ACN-ND	Quad, Low Noise, High Speed Precision Op Amp	14-Dip	13.25	8.83	7.50
LT1125CN-ND	Quad, Low Noise, High Speed Precision Op Amp	14-Dip	10.50	7.00	5.95
LT1125CSW-ND	Quad, Low Noise, High Speed Precision Op Amp	16-SOIC	11.50	7.67	6.50
LT1126CN8-ND	Dual, Decompensated, Low Noise, HS Op Amp	8-Dip	6.38	4.25	3.65
LT1126CS8-ND	Dual, Decompensated, Low Noise, HS Op Amp	8-SOIC	6.75	4.50	3.85
LT1127CN-ND	Quad, Decomp., Low Noise, High Speed Op Amp	14-Dip	10.50	7.00	5.95
LT1127CSW-ND	Quad, Decomp., Low Noise, High Speed Op Amp	16-SOIC	11.50	7.67	6.50
LT1128ACN8-ND	Single, Low Noise, High Speed Op Amp	8-Dip	13.13	8.75	7.55
LT1128CN8-ND	Single, Low Noise, High Speed Op Amp	8-Dip	8.63	5.75	4.95
LT1128CS8-ND	Single, Low Noise, High Speed Op Amp	8-SOIC	8.63	5.75	4.95
LT1169CN8-ND	Dual Low Noise JFET Op Amp	8-Dip	7.25	4.83	3.95
LT1169CS8-ND	Dual Low Noise JFET Op Amp	8-SOIC	7.75	5.15	4.25
LT1178ACN8-ND	Dual Micropower Precision Dual Op Amp	8-Dip	10.00	6.67	5.60
LT1178CN8-ND	Dual Micropower Precision Dual Op Amp	8-Dip	5.50	3.67	3.00
LT1178IN8-ND	Dual Micropower Precision Dual Op Amp, Ind. Temp	8-Dip	6.88	4.58	3.95
LT1178S8-ND	Dual Micropower Precision Dual Op Amp	8-SOIC	7.00	4.65	3.85
LT1179ACN-ND	Quad Micropower Precision Op Amp	14-Dip	12.38	8.25	6.90
LT1179CN-ND	Quad Micropower Precision Op Amp	14-Dip	6.88	4.58	3.90
LT1179IN-ND	Quad Micropower Precision Op Amp, Ind. Temp	14-Dip	8.50	5.67	4.85
LT1179SW-ND	Quad Micropower Precision Op Amp	16-SOIC	8.75	5.83	5.00
LT1191CN8-ND	Single, Ultra High Speed Video Op Amp	8-Dip	3.25	2.17	1.73
LT1191CS8-ND	Single, Ultra High Speed Video Op Amp	8-SOIC	3.75	2.50	1.95
LT1195CN8-ND	Low Power, High Speed Op Amp	8-Dip	3.25	2.17	1.73
LT1206CN8-ND	250mA Out, 60MHz Current Feedback Amp	8-Dip	6.25	4.17	3.45
LT1206CR-ND	250mA Out, 60MHz Current Feedback Amp	7-DD	8.13	5.42	4.45
LT1206CS8-ND	250mA Out, 60MHz Current Feedback Amp	8-SOIC	7.25	4.83	3.95
LT1206CT7-ND	250mA Out, 60MHz Current Feedback Amp	TO-220-7	8.13	5.42	4.45
LT1207CS-ND	Dual, 250mA Out, 60MHz Current Feedback Amp	16-SOIC	12.88	8.60	7.15
LT1208CN8-ND	Dual, High Speed Op Amp	8-Dip	7.75	5.17	4.45
LT1208CS8-ND	Dual, High Speed Op Amp	8-SOIC	8.75	5.83	5.00
LT1209CN-ND	Quad, High Speed Op Amp	14-Dip	12.13	8.08	6.90
LT1210CT7-ND	1.1A, 35MHz Current Feedback Amp	TO-220-7	12.88	8.60	7.10
LT1211CN8-ND	14MHz, Single Supply, Dual Precision Op Amp	8-Dip	6.13	4.07	3.07
LT1211CS8-ND	14MHz, Single Supply, Dual Precision Op Amp	8-SOIC	6.63	4.40	3.32
LT1211IS8-ND	14MHz, Single, Dual Precision Op Amp, Ind. Temp.	8-SOIC	7.50	4.98	3.75
LT1212CN-ND	14MHz, Single Supply, Quad Precision Op Amp	14-Dip	11.00	7.31	5.50
LT1212CS-ND	14MHz, Single Supply, Quad Precision Op Amp	16-SOIC	11.88	7.89	5.94
LT1212IS-ND	14MHz, Single, Quad Precision Op Amp, Ind. Temp	16-SOIC	13.25	8.80	6.63
LT1213CN8-ND	28MHz, Single Supply, Dual Precision Op Amp	8-Dip	6.13	4.07	3.07
LT1213CS8-ND	28MHz, Single Supply, Dual Precision Op Amp	8-SOIC	6.63	4.40	3.32
LT1214CN-ND	28MHz, Single Supply, Quad Precision Op Amp	14-Dip	11.00	7.31	5.50
LT1214CS-ND	28MHz, Single Supply, Quad Precision Op Amp	16-SOIC	11.88	7.89	5.94
LT1215CN8-ND	23MHz, Single Supply, Dual Precision Op Amp	8-Dip	6.13	4.07	3.07
LT1215CS8-ND	23MHz, Single Supply, Dual Precision Op Amp	8-SOIC	6.63	4.40	3.32
LT1216CN-ND	23MHz, Single Supply, Quad Precision Op Amp	14-Dip	11.00	7.31	5.50
LT1216CS-ND	23MHz, Single Supply, Quad Precision Op Amp	16-SOIC	11.88	7.89	5.94
LT1218CN8-ND	Precision Rail-to-Rail In/Out Op Amp	8-Dip	9.63	6.40	4.95
LT1218CS8-ND	Precision Rail-to-Rail In/Out Op Amp	8-SOIC	10.00	6.64	5.15
LT1218LCN8-ND	Precision Rail-to-Rail In/Out Op Amp	8-Dip	5.88	3.91	3.15
LT1218LCS8-ND	Precision Rail-to-Rail In/Out Op Amp	8-SOIC	6.13	4.07	3.30
LT1219CS8-ND	Precision Rail-to-Rail In/Out Op Amp	8-SOIC	10.00	6.64	5.15
LT1220CN8-ND	45MHz, High Speed Op Amp	8-Dip	6.25	4.17	3.50
LT1220CS8-ND	45MHz, High Speed Op Amp	8-SOIC	6.88	4.58	3.75
LT1221CN8-ND	150MHz, High Speed Op Amp	8-Dip	6.25	4.17	3.35
LT1221CS8-ND	150MHz, High Speed Op Amp	8-SOIC	6.88	4.57	3.50
LT1222CN8-ND	500MHz, High Speed Op Amp	8-Dip	6.25	4.17	3.50
LT1222CS8-ND	500MHz, High Speed Op Amp	8-SOIC	6.88	4.58	3.75
LT1223CN8-ND	100MHz, Current Feedback Op Amp	8-Dip	5.38	3.58	2.85
LT1223CS8-ND	100MHz, Current Feedback Op Amp	8-SOIC	6.13	4.08	3.40
LT1224CN8-ND	45MHz, High Speed Op Amp	8-Dip	5.38	3.58	2.85
LT1224CS8-ND	45MHz, High Speed Op Amp	8-SOIC	6.13	4.07	3.30
LT1226CN8-ND	High Speed, Low Noise Op Amp	8-Dip	5.38	3.58	2.85
LT1226CS8-ND	High Speed, Low Noise Op Amp	8-SOIC	6.13	4.08	3.40
LT1227CN8-ND	140MHz, Video Current Feedback Amp	8-Dip	4.63	3.08	2.45
LT1227CS8-ND	140MHz, Video Current Feedback Amp	8-SOIC	5.38	3.58	3.25
LT1228CN8-ND	100MHz, Current Feedback Amp with DC Gain	8-Dip	6.88	4.58	3.95
LT1228CS8-ND	100MHz, Current Feedback Amp with DC Gain	8-SOIC	7.75	5.17	4.30

(Continued)

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Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LT1229CN8-ND	100MHz, Dual Current Feedback Op Amp	8-Dip	6.88	4.58	3.95
LT1229CS8-ND	100MHz, Dual Current Feedback Op Amp	8-SOIC	7.75	5.17	4.30
LT1230CS-ND	100MHz, Quad Current Feedback Op Amp	14-SOIC	13.75	9.13	7.50
LT1251CN-ND	40MHz Video Fader and DC Gain Controlled Amp	14-Dip	11.00	7.33	6.00
LT1252CN8-ND	Low Cost Single Video Amplifier	8-Dip	3.25	2.17	1.75
LT1252CS8-ND	Low Cost Single Video Amplifier	8-SOIC	3.50	2.33	1.85
LT1253CN8-ND	Low Cost Dual Video Amplifier	8-Dip	4.50	3.00	2.49
LT1253CS8-ND	Low Cost Dual Video Amplifier	8-SOIC	4.88	3.25	2.60
LT1254CN-ND	Low Cost Quad Video Amplifier	14-Dip	8.13	5.42	4.49
LT1254CS-ND	Low Cost Quad Video Amplifier	14-SOIC	8.63	5.75	4.80
LT1256CN-ND	40MHz Video Fader and DC Gain Controlled Amp	14-Dip	11.00	7.33	6.00
LT1256CS-ND	40MHz Video Fader and DC Gain Controlled Amp	14-SOIC	11.63	7.75	6.30
LT1259CN-ND	Dual Current Feedback Amp with Shutdown	14-Dip	4.63	3.08	2.55
LT1259CS-ND	Dual Current Feedback Amp with Shutdown	14-SOIC	4.75	3.16	2.65
LT1260CN-ND	Triple Current Feedback Amp with Shutdown	16-Dip	4.88	3.24	2.70
LT1260CS-ND	Triple Current Feedback Amp with Shutdown	16-SOIC	5.13	3.41	2.85
LT1351CMS8-ND	Low Power, High Speed, 3MHz Op Amp	8-MSOP	5.13	3.41	2.80
LT1351CS8-ND	Low Power, High Speed, 3MHz Op Amp	8-SOIC	4.75	3.16	2.60
LT1352CS8-ND	Dual, Very Low Power, High Speed, 3MHz Op Amp	8-SOIC	7.63	5.10	4.25
LT1352IN8-ND	Dual, Very Low Power, High Speed, 3MHz Op Amp	8-Dip	8.38	5.98	4.93
LT1352IS8-ND	Dual, Very Low Power, High Speed, 3MHz Op Amp	8-SOIC	9.13	6.52	5.37
LT1353CS-ND	Quad, Very Low Power, High Speed, 3MHz Op Amp	14-SOIC	12.63	8.40	6.95
LT1354CN8-ND	Low Power, High Speed, 12MHz Op Amp	8-Dip	4.25	2.83	2.35
LT1354CS8-ND	Low Power, High Speed, 12MHz Op Amp	8-SOIC	4.75	3.17	2.60
LT1355CN8-ND	Dual, Low Power, High Speed, 12MHz Op Amp	8-Dip	7.00	4.67	3.95
LT1355CS8-ND	Dual, Low Power, High Speed, 12MHz Op Amp	8-SOIC	7.63	5.10	4.25
LT1356CN-ND	Quad, Low Power, High Speed, 12MHz Op Amp	14-Dip	11.75	7.83	6.70
LT1356CS-ND	Quad, Low Power, High Speed, 12MHz Op Amp	16-SOIC	12.63	8.40	6.95
LT1357CN8-ND	Single, High Speed, 25MHz Op Amp	8-Dip	4.63	3.08	2.55
LT1357CS8-ND	Single, High Speed, 25MHz Op Amp	8-SOIC	5.13	3.42	2.80
LT1358CN8-ND	Dual, High Speed, 25MHz Op Amp	8-Dip	7.25	4.83	4.10
LT1358CS8-ND	Dual, High Speed, 25MHz Op Amp	8-SOIC	8.25	5.50	4.40
LT1359CN-ND	Quad, High Speed, 25MHz Op Amp	14-Dip	12.00	8.00	6.80
LT1359CS-ND	Quad, High Speed, 25MHz Op Amp	16-SOIC	12.88	8.55	7.05
LT1360CN8-ND	Single, High Speed, 50MHz Op Amp	8-Dip	4.13	2.75	2.25
LT1360CS8-ND	Single, High Speed, 50MHz Op Amp	8-SOIC	4.63	3.08	2.50
LT1361CN8-ND	Dual, High Speed, 50MHz Op Amp	8-Dip	6.38	4.25	3.50
LT1361CS8-ND	Dual, High Speed, 50MHz Op Amp	8-SOIC	6.75	4.50	3.65
LT1362CN-ND	Quad, High Speed, 50MHz Op Amp	14-Dip	11.25	7.50	6.15
LT1362CS-ND	Quad, High Speed, 50MHz Op Amp	16-SOIC	11.75	7.83	6.46
LT1363CN8-ND	Single, High Speed, 70MHz Op Amp	8-Dip	4.50	3.00	2.45
LT1363CS8-ND	Single, High Speed, 70MHz Op Amp	8-SOIC	5.00	3.33	2.70
LT1364CN8-ND	Dual, High Speed, 70MHz Op Amp	8-Dip	6.88	4.58	3.80
LT1364CS8-ND	Dual, High Speed, 70MHz Op Amp	8-SOIC	7.25	4.82	3.95
LT1365CN-ND	Quad, High Speed, 70MHz Op Amp	14-Dip	12.13	8.08	6.65
LT1365CS-ND	Quad, High Speed, 70MHz Op Amp	16-SOIC	12.63	8.42	6.95
LT1368CN8-ND	Dual Rail-to-Rail In/Out Precision Op Amp	8-Dip	6.50	4.33	3.60
LT1366CS8-ND	Dual Rail-to-Rail In/Out Precision Op Amp	8-SOIC	6.75	4.50	3.75
LT1367CS-ND	Quad Rail-to-Rail In/Out Precision Op Amp	14-SOIC	11.50	7.65	6.35
LT1368CN8-ND	Dual Rail-to-Rail In/Out Precision Op Amp	8-Dip	6.50	4.32	3.60
LT1368CS8-ND	Dual Rail-to-Rail In/Out Precision Op Amp	8-SOIC	6.75	4.50	3.75
LT1369CS-ND	Quad Rail-to-Rail In/Out Precision Op Amp	14-SOIC	11.50	7.65	6.35
LT1395CS5-ND	400MHz, Single Current Feedback Amp	SOT-23-5	2.75	1.83	1.40
LT1395CS6-ND	400MHz, Single Current Feedback Amp	SOT-23-6	2.75	1.83	1.40
LT1396CDD-ND	400MHz, Dual Current Feedback Amp	8-DFN	4.50	2.99	2.30
LT1398CS-ND	300MHz, Dual Current Feedback Amp	16-SOIC	4.63	3.08	2.32
LT1399CS-ND	300MHz, Triple Current Feedback Amp	16-SOIC	5.00	3.32	2.50
LT1399HVCS-ND	300MHz, Triple Current Feedback Amp	16-SOIC	6.25	4.15	3.25
LT1413CN8-ND	5V Single Supply, Dual Precision Op Amp	8-Dip	3.75	2.50	2.05
LT1413S8-ND	5V Single Supply, Dual Precision Op Amp	8-SOIC	4.00	2.67	2.30
LT1457CN8-ND	Dual Precision JFET Input Op Amp	8-Dip	4.50	3.00	2.40
LT1457S8-ND	Dual Precision JFET Input Op Amp	8-SOIC	4.75	3.17	2.55
LT1462ACN8-ND	Dual Micropower JFET Input Op Amp	8-Dip	8.75	5.81	4.80
LT1462ACS8-ND	Dual Micropower JFET Input Op Amp	8-SOIC	9.00	5.98	4.95
LT1464ACS8-ND	Dual Micropower JFET Input Op Amp	8-SOIC	9.00	5.98	4.95
LT1464CS8-ND	Dual Micropower JFET Input Op Amp	8-SOIC	5.00	3.32	2.75
LT1465CS-ND	Quad Micropower JFET Input Op Amp	14-SOIC	8.50	5.65	4.75
LT1466LCN8-ND	Dual Precision Rail-to-Rail In/Out Op Amp	8-Dip	8.13	5.40	4.35
LT1466LCS8-ND	Dual Precision Rail-to-Rail In/Out Op Amp	8-SOIC	8.25	5.50	4.40
LT1468CN8-ND	90MHz, High Speed, 16-Bit Accurate Op Amp	8-Dip	6.25	4.15	3.13
LT1468CS8-ND	90MHz, High Speed, 16-Bit Accurate Op Amp	8-SOIC	6.25	4.15	3.13
LT1468IS8-ND	90MHz, High Speed, 16-Bit Accurate Op Amp	8-SOIC	7.50	4.98	3.75
LT1490ACDD-ND	Dual Micropower Rail-to-Rail In/Out Op Amp	8-DFN	4.75	3.39	2.79
LT1490CMS8-ND	Dual Micropower Rail-to-Rail In/Out Op Amp	8-MSOP	4.50	3.00	2.40
LT1490CN8-ND	Dual Micropower Rail-to-Rail In/Out Op Amp	8-Dip	3.75	2.50	2.05
LT1490CS8-ND	Dual Micropower Rail-to-Rail In/Out Op Amp	8-SOIC	3.88	2.60	2.15
LT1490IN8-ND	Dual Micropower Rail-to-Rail In/Out Op Amp	8-Dip	4.50	2.99	2.45
LT1490IS8-ND	Dual Micropower Rail-to-Rail In/Out Op Amp	8-SOIC	4.63	3.08	2.60
LT1491AIS-ND	Quad Micropower Rail-to-Rail In/Out Op Amp	14-SOIC	7.75	5.15	3.95
LT1491CN-ND	Quad Micropower Rail-to-Rail In/Out Op Amp	14-Dip	6.25	4.15	3.50
LT1491CS-ND	Quad Micropower Rail-to-Rail In/Out Op Amp	14-SOIC	6.38	4.25	3.60
LT1491IS-ND	Quad Micropower Rail-to-Rail In/Out Op Amp	14-SOIC	7.75	5.15	4.25
LT1492CN8-ND	Dual Low Power Single Supply Precision Op Amp	8-Dip	7.38	4.90	3.69
LT1492CS8-ND	Dual Low Power Single Supply Precision Op Amp	8-SOIC	7.50	4.98	3.75
LT1493CS-ND	Quad Low Power Single Supply Precision Op Amp	16-SOIC	13.50	8.97	6.75
LT1494CMS8-ND	Single Rail-to-Rail In/Out Op Amp	8-MSOP	3.63	2.41	1.90
LT1494CN8-ND	Single Rail-to-Rail In/Out Op Amp	8-Dip	3.38	2.25	1.80
LT1494CS8-ND	Single Rail-to-Rail In/Out Op Amp	8-SOIC	3.38	2.25	1.80
LT1494HS8-ND	Single Rail-to-Rail In/Out Op Amp	8-SOIC	4.13	2.74	2.20
LT1494IMS8-ND	Single Rail-to-Rail In/Out Op Amp, Ind. Temp.	8-MSOP	4.13	2.74	2.20
LT1494IN8-ND	Single Rail-to-Rail In/Out Op Amp, Ind. Temp.	8-Dip	3.88	2.58	2.10
LT1494IS8-ND	Single Rail-to-Rail In/Out Op Amp, Ind. Temp.	8-SOIC	3.88	2.58	2.10
LT1495CN8-ND	Dual Rail-to-Rail In/Out Precision Op Amp	8-Dip	5.13	3.41	3.00
LT1495CS8-ND	Dual Rail-to-Rail In/Out Precision Op Amp	8-SOIC	5.38	3.57	3.10
LT1495HS8-ND	Dual Rail-to-Rail In/Out Precision Op Amp	8-SOIC	6.75	4.49	3.75
LT1495IN8-ND	Dual Rail-to-Rail In/Out Precision Op Amp	8-Dip	6.00	3.99	3.45
LT1495IS8-ND	Dual Rail-to-Rail In/Out Precision Op Amp	8-SOIC	6.25	4.15	3.55
LT1496CN-ND	Quad Rail-to-Rail In/Out Precision Op Amp	14-Dip	6.75	4.49	3.95
LT1496CS-ND	Quad Rail-to-Rail In/Out Precision Op Amp	14-SOIC	7.00	4.65	4.10
LT1496HS-ND	Quad Rail-to-Rail In/Out Precision Op Amp	14-SOIC	8.75	5.81	4.90
LT1496IN-ND	Quad Rail-to-Rail In/Out Precision Op Amp	14-Dip	8.00	5.32	4.60
LT1496IS-ND	Quad Rail-to-Rail In/Out Precision Op Amp	14-SOIC	8.25	5.48	4.70
LT1497CS-ND	Dual Current Feedback Amp	16-SOIC	7.88	5.23	4.20
LT1497CS8-ND	Dual Current Feedback Amp	8-SOIC	6.25	4.15	3.45
LT1498CN8-ND	10MHz, Dual Rail-to-Rail In/Out Op Amp	8-Dip	6.50	4.32	3.25

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25
LT1498CS8-ND	10MHz, Dual Rail-to-Rail In/Out Op Amp	8-SOIC	6.75	4.49
LT1498IN8-ND	10MHz, Dual Rail-to-Rail In/Out Op Amp	8-Dip	6.75	4.49
LT1498IS8-ND	10MHz, Dual Rail-to-Rail In/Out Op Amp	8-SOIC	7.00	4.65
LT1499CS-ND	10MHz, Quad Rail-to-Rail In/Out Op Amp	14-SOIC	12.25	8.14
LT1499IS-ND	10MHz, Quad Rail-to-Rail In/Out Op Amp	14-SOIC	12.88	8.55
LT1567CMS8-ND	Op Amp and Inverter/Filter Building Block	8-MSOP	3.75	2.49
LT1620CGN-ND	Rail-to-Rail Current Sense Amp	16-SSOP	4.00	2.66
LT1620CS8-ND	Rail-to-Rail Current Sense Amp	8-SOIC	3.38	2.25
LT1620IS8-ND	Rail-to-Rail Current Sense Amp, Ind. Temp.	8-SOIC	3.88	2.58
LT1621CGN-ND	Dual Rail-to-Rail Current Sense Amp	16-SSOP	6.13	4.10
LT1621IGN-ND	Dual Rail-to-Rail Current Sense Amp, Ind. Temp.	16-SSOP	7.00	4.65
LT1630CN8-ND	30MHz, Dual Rail-to-Rail I/O Precision Op Amp	8-Dip	6.50	4.32
LT1630CS8-ND	30MHz, Dual Rail-to-Rail I/O Precision Op Amp	8-SOIC	6.75	4.49
LT1631CS-ND	30MHz, Quad Rail-to-Rail I/O Precision Op Amp	14-SOIC	12.25	8.14
LT1632CN8-ND	45MHz, Dual Rail-to-Rail I/O Precision Op Amp	8-Dip	6.63	4.40
LT1632CS8-ND	45MHz, Dual Rail-to-Rail I/O Precision Op Amp	8-SOIC	6.88	4.57
LT1633CS-ND	45MHz, Quad Rail-to-Rail I/O Precision Op Amp	14-SOIC	12.38	8.22
LT1635CN8-ND	Micropower Rail-to-Rail Op Amp and Reference	8-Dip	3.50	2.33
LT1635CS8-ND	Micropower Rail-to-Rail Op Amp and Reference	8-SOIC	3.88	2.58
LT1636CDD-ND	220kHz, Single Micropower R/R In/Out Op Amp	8-DFN	3.75	2.68
LT1636CMS8-ND	220kHz, Single Micropower R/R In/Out Op Amp	8-MSOP	3.50	2.33
LT1636CN8-ND	220kHz, Single Micropower R/R In/Out Op Amp	8-Dip	2.88	1.91
LT1636CS8-ND	220kHz, Single Micropower R/R In/Out Op Amp	8-SOIC	3.00	2.00
LT1636HS8-ND	220kHz, Single Micropower R/R In/Out Op Amp	8-SOIC	3.75	2.49
LT1636IS8-ND	220kHz, Single Micropower R/R I/O Op Amp, Ind. Temp.	8-SOIC	3.50	2.33
LT1637CDD-ND	1.1MHz, Single Micropower R/R In/Out Op Amp	8-DFN	3.63	2.59
LT1637CN8-ND	1.1MHz, Single Micropower R/R In/Out Op Amp	8-Dip	2.88	1.91
LT1637CS8-ND	1.1MHz, Single Micropower R/R In/Out Op Amp	8-SOIC	3.00	2.00
LT1637HS8-ND	1.1MHz, Single Micropower R/R In/Out Op Amp	8-SOIC	3.50	2.33
LT1638CDD-ND	1.2MHz, Dual Micropower R/R In/Out Op Amp	8-DFN	4.75	3.39
LT1638CMS8-ND	1.2MHz, Dual Micropower R/R In/Out Op Amp	8-MSOP	4.50	3.00
LT1638CN8-ND	1.2MHz, Dual Micropower R/R In/Out Op Amp	8-Dip	3.75	2.50
LT1638CS8-ND	1.2MHz, Dual Micropower R/R In/Out Op Amp	8-SOIC	3.88	2.60
LT1638HS8-ND	1.2MHz, Dual Micropower R/R In/Out Op Amp	8-SOIC	4.88	3.24
LT1638IS8-ND	1.2MHz, Dual Micropower R/R In/Out Op Amp, Ind. Temp.	8-SOIC	4.63	3.08
LT1639HS-ND	1.2MHz, Quad Micropower R/R In/Out Op Amp	8-SOIC	8.00	5.32
LT1639IS-ND	1.2MHz, Quad Micropower R/R In/Out Op Amp, Ind. Temp.	8-SOIC	7.75	5.15
LT1672CMS8-ND	Single Rail-to-Rail In/Out Op Amp	8-MSOP	3.63	2.41
LT1672CN8-ND	Single Rail-to-Rail In/Out Op Amp	8-Dip	3.38	2.25
LT1672CS8-ND	Single Rail-to-Rail In/Out Op Amp	8-SOIC	3.38	2.25
LT1672IMS8-ND	Single Rail-to-Rail In/Out Op Amp, Ind. Temp.	8-MSOP	4.13	2.74
LT1672IN8-ND	Single Rail-to-Rail In/Out Op Amp, Ind. Temp.	8-Dip	3.88	2.58
LT1672IS8-ND	Single Rail-to-Rail In/Out Op Amp, Ind. Temp.	8-SOIC	3.88	2.58
LT1673CN8-ND	Dual Rail-to-Rail In/Out Op Amp	8-Dip	5.13	3.41
LT1673CS8-ND	Dual Rail-to-Rail In/Out Op Amp	8-SOIC	5.38	3.57
LT1673IN8-ND	Dual Rail-to-Rail In/Out Op Amp, Ind. Temp.	8-Dip	6.00	3.99
LT1673IS8-ND	Dual Rail-to-Rail In/Out Op Amp, Ind. Temp.	8-SOIC	6.25	4.15
LT1674CN-ND	Quad Rail-to-Rail In/Out Op Amp	14-SOIC	6.75	4.49
LT1674CS-ND	Quad Rail-to-Rail In/Out Op Amp	14-SOIC	7.00	4.65
LT1674IN-ND	Quad Rail-to-Rail In/Out Op Amp, Ind. Temp.	14-Dip	8.00	5.32
LT1674IS-ND	Quad Rail-to-Rail In/Out Op Amp, Ind. Temp.	14-SOIC	8.25	5.48
LT1677CS8-ND	Single, Low Noise R/R Precision Op Amp	8-SOIC	4.50	2.99
LT1722CS5-ND	Single 200MHz Low Noise Precision Op Amp	SOT-23-5	2.63	1.75
LT1722CS8-ND	Single 200MHz Low Noise Precision Op Amp	8-SOIC	2.63	1.75
LT1723CS8-ND	Dual 200MHz Low Noise Precision Op Amp	8-SOIC	4.25	2.83
LT1724CS-ND	Quad 200MHz Low Noise Precision Op Amp	14-SOIC	7.88	5.23
LT1739CFE-ND	Dual 500mA, 200MHz xDSL Line Driver Amp	20-TSSOP	7.38	4.90
LT1739CUE-ND	Dual 500mA, 200MHz xDSL Line Driver Amp	12-DFN	7.38	5.00
LT1739IUE-ND	Dual 500mA, 200MHz xDSL Line Driver Amp	12-DFN	9.00	6.05
LT1782HS5-ND	Micropower Rail-to-Rail In/Out Op Amp	SOT-23-5	3.13	2.08
LT1782HS6-ND	Micropower Rail-to-Rail In/Out Op Amp	SOT-23-6	3.50	2.33
LT1782IS5-ND	Micropower Rail-to-Rail In/Out Op Amp	SOT-23-5	2.83	1.88
LT1782IS6-ND	Micropower Rail-to-Rail In/Out Op Amp	SOT-23-6	3.23	2.15
LT1783HS5-ND	Micropower Rail-to-Rail In/Out Op Amp	SOT-23-5	3.13	2.08
LT1783HS6-ND	Micropower Rail-to-Rail In/Out Op Amp	SOT-23-6	3.50	2.33
LT1783IS5-ND	1.25MHz Micropower Rail-to-Rail Op Amp	SOT-23-5	2.83	1.88
LT1783IS6-ND	1.25MHz Micropower Rail-to-Rail Op Amp	SOT-23-6	3.23	2.15
LT1784CS5-ND	2.5MHz Micropower Rail-to-Rail Op Amp	SOT-23-5	2.08	1.38
LT1784CS6-ND	2.5MHz Micropower Rail-to-Rail Op Amp	SOT-23-6	2.25	1.50
LT1787HS8-ND	Precision Current Sense Op Amp	8-SOIC	5.63	3.74
LT1787HVCS8-ND	Precision Current Sense Op Amp	8-SOIC	6.13	4.07
LT1787HVHS8-ND	Precision Current Sense Op Amp	8-SOIC	7.50	4.98
LT1792CN8-ND	Low Noise, JFET Input Precision Op Amp	8-Dip	4.75	3.16
LT1792CS8-ND	Low Noise, JFET Input Precision Op Amp	8-SOIC	4.75	3.16
LT1793CN8-ND	Low Noise, JFET Input Precision Op Amp	8-Dip	4.75	3.16
LT1793CS8-ND	Low Noise, JFET Input Precision Op Amp	8-SOIC	4.75	3.16
LT1794CSW-ND	500mA, 200MHz Dual Op Amp	20-TSSOP	10.25	6.81
LT1794IFE-ND	500mA, 200MHz Dual Op Amp, Ind. Temp.	20-TSSOP	12.50	8.30
LT1794ISW-ND	500mA, 200MHz Dual Op Amp, Ind. Temp.	20-SOIC	12.13	8.06
LT1795CSW-ND	Dual 500mA, 50MHz, Current Feedback Amplifier	20-SOIC	10.25	6.81
LT1800CS5-ND	80MHz Low Power, R/R I/O Precision Op Amp	SOT-23-5	2.75	1.83
LT1800CS8-ND	80MHz Low Power, R/R I/O Precision Op Amp	8-SOIC	2.75	1.83
LT1801CDD-ND	Dual 80MHz, 25V/µs, LP, R/R, In/Out Precision Op Amp	8-DFN	4.38	2.91
LT1801CMS8-ND	Dual 80MHz, 25V/µs, LP, R/R, In/Out Precision Op Amp	8-SOIC	4.13	2.74
LT1801CS8-ND	Dual 80MHz, 25V/µs, LP, R/R, In/Out Precision Op Amp	8-SOIC	3.88	2.58
LT1801IMS8-ND	Quad 80MHz, 25V/µs, LP, R/R, In/Out Precision Op Amp	8-MSOP	4.88	3.24
LT1802CS-ND	Quad 80MHz, 25V/µs, LP, R/R, In/Out Precision Op Amp	14-SOIC	7.00	4.65
LT1802IS-ND	Quad 80MHz, 25V/µs, LP, R/R, In/Out Precision Op Amp	14-SOIC	8.38	5.57
LT1803CS5-ND	Single 85MHz, 100V/µs, R/R In/Out Op Amp	SOT-23-5	2.63	1.75
LT1803CS8-ND	Single 85MHz, 100V/µs, R/R In/Out Op Amp	8-SOIC	2.63	1.75
LT1804CDD-ND	Dual 85MHz, 100V/µs, R/R In/Out Op Amp	8-DFN	4.38	2.91
LT1804CS8-ND	Dual 85MHz, 100V/µs, R/R In/Out Op Amp	8-SOIC	3.88	2.58
LT1805CS-ND	Quad 85MHz, 100V/µs, R/R In/Out Op Amp	14-SOIC	7.00	4.65
LT1806CS6-ND	325MHz Single Rail-to-Rail In/Out Op Amp	SOT-23-6	4.38	2.91
LT1806CS8-ND	325MHz Single Rail-to-Rail In/Out Op Amp	8-SOIC	4.38	2.91
LT1806CS8TR-ND	325MHz Single Rail-to-Rail In/Out Op Amp	8-SOIC		5625.00/2
LT1806IS6-ND	325MHz Single Rail-to-Rail In/Out Op Amp	SOT-23-6	4.75	3.16
LT1806IS8-ND	325MHz Single R/R In/Out Op Amp, Ind. Temp.	8-SOIC	4.75	3.16
LT1806IS8TR-ND	325MHz Single R/R In/Out Op Amp, Ind. Temp.	8-SOIC		6125.00/2
LT1807CS8-ND	325MHz Dual R/R In/Out Op Amp	8-SOIC	6.88	4.57
LT1809CS6-ND	180MHz Single Rail-to-Rail In/Out Op Amp	SOT-23-6	3.75	2.49
LT1809IS6-ND	180MHz Single R/R In/Out Op Amp, Ind. Temp.	SOT-23-6	4.13	2.74
LT1812CS5-ND	100MHz, Low Power Op Amp with Shutdown	SOT-23-5	2.38	1.58
LT1812CS6-ND	100MHz, Low Power Op Amp with Shutdown	SOT-23-5	2.88	1.91
LT1813CDD-ND	Dual, High Speed, Low Power Op Amp	8-SOIC	4.58	3.04

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Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
	Regulators				
086CT-2.85-ND	Fixed 2.85V, 1.5A LDO Voltage Regulator	TO-220	3.75	2.50	2.15
086CT-3.3-ND	Fixed 3.3V, 1.5A LDO Voltage Regulator	TO-220	3.75	2.50	2.15
086CT-3.6-ND	Fixed 3.6V, 1.5A LDO Voltage Regulator	TO-220	3.75	2.50	2.15
086CT-5-ND	Fixed 5V, 1.5A LDO Voltage Regulator	TO-220	3.75	2.50	2.15
086CT-12-ND	Fixed 12V, 1.5A LDO Voltage Regulator	TO-220	3.75	2.50	2.15
086IM-ND	Adjustable 1.5A LDO Voltage Regulator	3-DD	4.63	3.08	2.55
105CN-ND	Offline Switching Regulator	14-Dip	7.63	5.08	4.05
105CN8-ND	Offline Switching Regulator	8-Dip	7.13	4.75	3.75
107CS8-ND	Adjustable Output DC/DC Converter	8-SOIC	4.38	2.91	2.40
107CS8-5-ND	Fixed 5V Output DC/DC Converter	8-SOIC	5.13	3.42	2.90
107IS8-ND	Adjustable Output DC/DC Converter, Ind. Temp.	8-SOIC	5.38	3.60	3.10
108CS8-ND	Micropower Adjustable Output DC/DC Converter	8-SOIC	5.13	3.42	2.90
108CS8-5-ND	Micropower Fixed 5V Output DC/DC Converter	8-SOIC	5.13	3.42	2.90
109ACN8-12-ND	Fixed 12V Output Micropower DC/DC Converter	8-Dip	4.38	2.92	2.45
109ACS8-12-ND	Fixed 12V Output Micropower DC/DC Converter	8-SOIC	4.38	2.92	2.45
109CS8-ND	Adjustable Output Micropower DC/DC Converter	8-SOIC	4.38	2.92	2.45
109CS8-12-ND	Fixed 12V Output Micropower DC/DC Converter	8-SOIC	4.38	2.92	2.45
110CN8-12-ND	Fixed 12V Output Micropower DC/DC Converter	8-Dip	5.50	3.67	3.15
110CS8-ND	Adjustable Output Micropower DC/DC Converter	8-SOIC	6.38	4.25	3.60
110CS8-5-ND	Fixed 5V Output Micropower DC/DC Converter	8-SOIC	6.38	4.25	3.60
111CN8-ND	Adjustable Output Micropower DC/DC Converter	8-Dip	4.25	2.83	2.40
111CN8-5-ND	Fixed 5V Output Micropower DC/DC Converter	8-Dip	4.25	2.83	2.40
111CN8-12-ND	Fixed 12V Output Micropower DC/DC Converter	8-Dip	4.25	2.83	2.40
111CS8-ND	Adjustable Output Micropower DC/DC Converter	8-SOIC	4.88	3.25	2.80
111CS8-5-ND	Fixed 5V Output Micropower DC/DC Converter	8-SOIC	4.88	3.25	2.80
111CS8-12-ND	Fixed 12V Output Micropower DC/DC Converter	8-SOIC	4.88	3.25	2.80
111IS8-ND	Adjustable Output Micropower DC/DC Converter	8-SOIC	6.38	4.25	3.60
117CM-5-ND	Fixed 5V, 800mA LDO Regulator	3-DD	3.88	2.58	2.20
117CST-ND	Adjustable, 800mA LDO Regulator	SOT-223	3.63	2.42	1.95
117CST-2.85-ND	Fixed 2.85V, 800mA LDO Regulator	SOT-223	3.63	2.42	1.95
117CST-3.3-ND	Fixed 3.3V, 800mA LDO Regulator	SOT-223	3.63	2.42	1.95
117CST-5-ND	Fixed 5V, 800mA LDO Regulator	SOT-223	3.63	2.42	1.95
118CS8-ND	Adjustable, 800mA LDO Regulator with 400mA Isink	8-SOIC	5.00	3.45	2.95
118CS8-2.5-ND	Fixed 2.5V, 800mA LDO Regulator with 400mA Isink	8-SOIC	5.00	3.45	2.95
118CS8-2.85-ND	Fixed 2.85V, 800mA LDO Regulator with 400mA Isink	8-SOIC	4.63	3.20	2.75
118CST-2.5-ND	Fixed 2.5V, 800mA LDO Regulator with 400mA Isink	SOT-223	4.75	3.16	2.65
118CST-2.85-ND	Fixed 2.85V, 800mA LDO Regulator with 400mA Isink	SOT-223	4.38	2.91	2.40
118CST-5-ND	Fixed 5V, 800mA LDO Regulator with 400mA Isink	SOT-223	4.75	3.16	2.65
120ACN8-ND	Micropower Regulator with Comparator and Shutdown	8-Dip	4.75	3.17	2.60
120ACS8-ND	Micropower Regulator with Comparator and Shutdown	8-SOIC	5.50	3.67	3.15
120AIS8-ND	Micropower Regulator with Comparator and Shutdown	8-SOIC	7.13	4.75	4.05
120CN8-ND	Micropower Regulator with Comparator and Shutdown	8-Dip	4.38	2.92	2.40
120CS8-ND	Micropower Regulator with Comparator and Shutdown	8-SOIC	5.13	3.42	2.80
120IN8-ND	Micropower Regulator with Comparator and Shutdown	8-Dip	5.50	3.67	3.15
121ACS8-ND	Adjustable Micropower LDO Regulator with Shutdown	8-SOIC	3.75	2.50	2.00
121ACS8-5-ND	5V Micropower LDO Regulator with Shutdown	8-SOIC	3.75	2.50	2.00
121AHVCS8-ND	Adj. Micropower LDO Regulator with Shutdown	8-SOIC	4.50	2.99	2.40
121AHVIS8-ND	Adj. Micropower LDO Reg. with Shutdown, Ind. Temp.	8-SOIC	5.25	3.49	2.81
121AIS8-ND	Adj. Micropower LDO Reg. with Shutdown, Ind. Temp.	8-SOIC	4.38	2.92	2.35
121AIS8-5-ND	5V Micropower LDO Reg. with Shutdown, Ind. Temp.	8-SOIC	4.38	2.92	2.35
121CN8-ND	Adjustable Micropower LDO Regulator with Shutdown	8-Dip	2.75	1.83	1.55
121CN8-3.3-ND	3.3V, 150mA LDO Regulator with Shutdown	8-Dip	2.75	1.83	1.55
121CN8-5-ND	5V, 150mA LDO Regulator with Shutdown	8-Dip	2.75	1.83	1.55
121CS8-ND	Adjustable LDO Regulator with Shutdown	8-SOIC	3.00	2.00	1.70
121CS8-3.3-ND	3.3V LDO Regulator with Shutdown	8-SOIC	3.00	2.00	1.70
121CS8-5-ND	5V LDO Regulator with Shutdown	8-SOIC	3.00	2.00	1.70
121CST-3.3-ND	3.3V LDO Regulator with Shutdown	SOT-223	3.25	2.17	1.75
121CST-5-ND	5V LDO Regulator with Shutdown	SOT-223	3.25	2.17	1.75
121CZ-3.3-ND	3.3V, 150mA LDO Regulator with Shutdown	TO-92	2.38	1.58	1.35
121CZ-5-ND	5V, 150mA LDO Regulator with Shutdown	TO-92	2.38	1.58	1.35
121IS8-ND	Adjustable LDO Regulator with Shutdown	8-SOIC	3.63	2.42	2.05
121IS8-3.3-ND	3.3V LDO Regulator with Shutdown	8-SOIC	3.63	2.42	2.05
121IS8-5-ND	5V LDO Regulator with Shutdown	8-SOIC	3.63	2.42	2.05
121IST-3.3-ND	3.3V LDO Regulator with Shutdown	SOT-223	3.88	2.58	2.10
121IST-5-ND	5V LDO Regulator with Shutdown	SOT-223	3.88	2.58	2.10
121IZ-5-ND	5V LDO Regulator with Shutdown	TO-92	2.88	1.92	1.60
129CQ-ND	Adjustable, 700mA LDO Regulator with Shutdown	5-DD	4.63	3.08	2.55
129CQ-3.3-ND	3.3V, 700mA LDO Regulator with Shutdown	5-DD	4.63	3.08	2.55
129CQ-5-ND	5V, 700mA LDO Regulator with Shutdown	5-DD	4.63	3.08	2.55
129CS8-ND	Adjustable, 700mA LDO Regulator with Shutdown	8-SOIC	4.75	3.17	2.55
129CS8-3.3-ND	3.3V, 700mA LDO Regulator with Shutdown	8-SOIC	4.75	3.17	2.55
129CS8-5-ND	5V, 700mA LDO Regulator with Shutdown	8-SOIC	4.75	3.17	2.55
129CST-3.3-ND	3.3V, 700mA LDO Regulator with Shutdown	SOT-223	4.25	2.83	2.35
129CST-5-ND	5V, 700mA LDO Regulator with Shutdown	SOT-223	4.25	2.83	2.35
129CT-ND	Adjustable, 700mA LDO Regulator with Shutdown	TO-220-5	4.00	2.67	2.25
129CT-3.3-ND	3.3V, 700mA LDO Regulator with Shutdown	TO-220-5	4.00	2.67	2.25
129CT-5-ND	5V, 700mA LDO Regulator with Shutdown	TO-220-5	4.00	2.67	2.25
129IQ-ND	Adjustable, 700mA LDO Regulator with Shutdown	5-DD	5.50	3.67	3.05
129IQ-5-ND	5V, 700mA LDO Regulator with Shutdown	5-DD	5.50	3.67	3.05
129IS8-ND	Adjustable, 700mA LDO Regulator with Shutdown	8-SOIC	5.63	3.75	3.05
129IS8-3.3-ND	3.3V, 700mA LDO Regulator with Shutdown	8-SOIC	5.63	3.75	3.05
129IS8-5-ND	5V, 700mA LDO Regulator with Shutdown	8-SOIC	5.63	3.75	3.05
129IST-3.3-ND	3.3V, 700mA LDO Regulator with Shutdown	SOT-223	4.75	3.17	2.70
129IST-5-ND	5V, 700mA LDO Regulator with Shutdown	SOT-223	4.75	3.17	2.70
170CQ-ND	5A, 100kHz High Efficiency Switching Regulator	5-DD	11.38	7.58	6.05
170CT-ND	5A, 100kHz High Efficiency Switching Regulator	TO-220-5	10.63	7.08	5.65
170HVCQ-ND	5A, 100kHz, High Voltage, High Efficiency, Switching Reg	5-DD	14.38	9.55	8.25
170HVCQTR-ND	5A, 100kHz, High Voltage, High Efficiency, Switching Reg	5-DD		6225.00/750	
170HVCT-ND	5A, 100kHz, High Voltage, High Efficiency, Switching Reg	TO-220-5	13.75	9.17	7.35
170IQ-ND	5A, 100kHz High Efficiency Switching Regulator	5-DD	14.25	9.50	8.50
171CQ-ND	3A, 100kHz High Efficiency Switching Regulator	5-DD	9.38	6.25	5.20
171CT-ND	3A, 100kHz High Efficiency Switching Regulator	TO-220-5	8.63	5.75	4.75
171HVCQ-ND	2.5A, 100kHz, High Volt, High Efficiency Switching Reg	5-DD	11.75	7.81	6.70
171HVCT-ND	2.5A, 100kHz, High Volt, High Efficiency Switching Reg	TO-220-5	11.25	7.50	6.20
171IQ-ND	2.5A, 100kHz High Efficiency Switching Regulator	5-DD	10.25	6.81	5.45
172CN8-ND	1.25A, 100kHz High Efficiency Switching Regulator	8-Dip	4.38	2.92	2.45
172CQ-ND	1.25A, 100kHz High Efficiency Switching Regulator	5-DD	6.38	4.25	3.55
172CS8-ND	1.25A, 100kHz High Efficiency Switching Regulator	8-SOIC	5.38	3.58	3.00
172CT-ND	1.25A, 100kHz High Efficiency Switching Regulator	TO-220-5	5.63	3.75	2.95
172HVCQ-ND	1.25A, 100kHz, High Volt, High Efficiency Switching Reg	5-DD	9.13	6.52	5.37
172HVCT-ND	1.25A, 100kHz, High Volt, High Efficiency Switching Reg	TO-220-5	7.38	4.92	3.85
172IN8-ND	1.25A, 100kHz High Efficiency Switching Regulator	8-Dip	6.13	4.08	3.45
172IS8-ND	1.25A, 100kHz High Efficiency Switching Regulator	8-SOIC	7.00	4.67	3.90
173CN8-ND	Adjustable Output Micropower DC/DC Converter	8-Dip	4.25	2.83	2.40
173CN8-5-ND	Fixed 5V Output Micropower DC/DC Converter	8-Dip	4.25	2.83	2.40
LT1173CN8-12-ND	Fixed 12V Output Micropower DC/DC Converter	8-Dip	4.25	2.83	2.40
LT1173CS8-ND	Adjustable Output Micropower DC/DC Converter	8-SOIC	4.88	3.25	2.80
LT1173CS8-5-ND	Fixed 5V Output Micropower DC/DC Converter	8-SOIC	4.88	3.25	2.80
LT1173CS8-12-ND	Fixed 12V Output Micropower DC/DC Converter	8-SOIC	4.88	3.25	2.80
LT1175CN8-ND	Adjustable, 500mA Negative LDO Regulator	8-Dip	4.63	3.10	2.55
LT1175CN8-5-ND	5V, 500mA Negative LDO Regulator	8-Dip	4.63	3.10	2.55
LT1175CQ-ND	Adjustable, 500mA Negative LDO Regulator	5-DD	5.88	3.91	3.25
LT1175CQ-5-ND	5V, 500mA Negative LDO Regulator	5-DD	5.88	3.91	3.25
LT1175CS8-ND	Adjustable, 500mA Negative LDO Regulator	8-SOIC	5.38	3.60	3.00
LT1175CS8-5-ND	5V, 500mA Negative LDO Regulator	8-SOIC	5.38	3.60	3.00
LT1175CST-5-ND	5V, 500mA Negative LDO Regulator	SOT-223	4.88	3.25	2.80
LT1175CT-ND	Adjustable, 500mA Negative LDO Regulator	TO-220-5	5.63	3.75	3.15
LT1175CT-5-ND	5V, 500mA Negative LDO Regulator	TO-220-5	5.63	3.75	3.15
LT1175IN8-ND	Adjustable, 500mA Negative LDO Regulator	8-Dip	6.00	4.00	3.35
LT1175IQ-ND	Adjustable, 500mA Negative LDO Regulator	5-DD	7.50	5.00	4.30
LT1175IQ-5-ND	5V, 500mA Negative LDO Regulator	5-DD	7.50	5.00	4.30
LT1175IST-5-ND	5V, 500mA Negative Low Dropout Regulator	SOT-223	5.38	3.60	3.10
LT1175IS8-ND	Adjustable, 500mA Negative LDO Regulator	8-SOIC	7.00	4.65	3.90
LT1175IS8-5-ND	5V, 500mA Negative LDO Regulator	8-SOIC	7.00	4.65	3.90
LT1176CN8-ND	Adjustable, 1A Step Down Switching Regulator	8-Dip	5.63	3.75	3.20
LT1176CN8-5-ND	5V, 1A Step Down Switching Regulator	8-Dip	5.63	3.75	3.20
LT1176CSW-ND	Adjustable, 1A Step Down Switching Regulator	20-SOIC	8.13	5.42	4.35
LT1176CSW-5-ND	5V, 1A Step Down Switching Regulator	20-SOIC	8.13	5.42	4.35
LT1185CT-ND	Adjustable, 3A, LDO Voltage Regulator	TO-220-5	6.50	4.33	3.70
LT1185IT-ND	Adjustable, 3A, LDO Voltage Regulator	TO-220-5	8.75	5.83	4.90
LT1268BCQ-ND	7.5A, 150kHz Switching Regulator	5-DD	12.75	8.50	7.25
LT1268CT-ND	7.5A, 150kHz Switching Regulator	TO-220-5	11.38	7.58	6.50
LT1269CT-ND	4A, High Efficiency, Power Switching Regulator	TO-220-5	8.88	5.92	4.90
LT1270ACT-ND	10A, High Efficiency, Power Switching Regulator	TO-220-5	15.75	10.50	8.90
LT1270CT-ND	8A, High Efficiency, Power Switching Regulator	TO-220-5	10.63	7.08	5.65
LT1271CQ-ND	4A, High Efficiency, Power Switching Regulator	5-DD	9.38	6.25	5.20
LT1271CT-ND	4A, High Efficiency, Power Switching Regulator	TO-220-5	8.63	5.75	4.75
LT1300CN8-ND	3.3V/5V, High Efficiency, Step-Up DC/DC Converter	8-Dip	5.00	3.33	2.60
LT1300CS8-ND	3.3V/5V, High Efficiency, Step-Up DC/DC Converter	8-SOIC	5.00	3.33	2.60
LT1301CN8-ND	5V/12V, High Efficiency, Step-Up DC/DC Converter	8-Dip	4.75	3.17	2.50
LT1301CS8-ND	5V/12V, High Efficiency, Step-Up DC/DC Converter	8-SOIC	4.75	3.17	2.50
LT1302CN8-5-ND	5V, High Efficiency, Step-Up DC/DC Converter	8-Dip	6.13	4.08	3.35
LT1302CS8-ND	Adjustable, High Efficiency, Step-Up DC/DC Converter	8-SOIC	6.38	4.25	3.50
LT1302CS8-5-ND	5V, High Efficiency, Step-Up DC/DC Converter	8-SOIC	6.38	4.25	3.50
LT1303CN8-ND	Adjustable, Step-Up DC/DC Converter	8-Dip	4.75	3.16	2.50
LT1303CN8-5-ND	5V, Step-Up DC/DC Converter	8-Dip	4.75	3.16	2.50
LT1303CS8-ND	Adjustable, Step-Up DC/DC Converter	8-SOIC	4.75	3.16	2.50
LT1303CS8-5-ND	5V, Step-Up DC/DC Converter	8-SOIC	4.75	3.16	2.50
LT1303IS8-ND	Adjustable, Step-Up DC/DC Converter	8-SOIC	6.38	4.25	3.40
LT1304CS8-ND	Adjustable, Step-Up DC/DC Converter	8-SOIC	4.75	3.16	2.50
LT1304CS8-5-ND	5V, Step-Up DC/DC Converter	8-SOIC	4.75	3.16	2.50
LT1305CS8-ND	Micropower High Power Step-Up DC/DC Converter	8-SOIC	6.38	4.25	3.65
LT1307BCS8-ND	Single Micropower 600kHz PWM DC/DC Converter	8-SOIC	4.13	2.75	2.20
LT1307CS8-ND	Single Micropower 600kHz PWM DC/DC Converter	8-SOIC	4.13	2.75	2.20
LT1308ACS8-ND	Single High Current, Micropower 600kHz DC/DC Converter	8-SOIC	6.50	4.32	3.50
LT1308BCS8-ND	Single High Current, Micropower 600kHz DC/DC Converter	8-SOIC	6.50	4.32	3.50
LT1308CS8-ND	High Current, LP Single Cell 600kHz DC/DC Converter	8-SOIC	6.88	4.57	3.65
LT1310EMSE-ND	1.5A Boost DC-DC Converter with PLL	10-MSOP	5.70	3.79	2.91
LT1316CMS8-ND	Micropower Step-Up DC/DC Converter	8-MSOP	5.38	3.57	2.95
LT1316CS8-ND	Micropower Step-Up DC/DC Converter	8-SOIC	4.75	3.16	2.50
LT1316IS8-ND	Micropower Step-Up DC/DC Converter	8-SOIC	5.50	3.66	2.90
LT1317BCMS8-ND	Micropower, 600kHz PWM DC/DC Converter	8-MSOP	4.88	3.24	2.55
LT1317BCS8-ND	Micropower, 600kHz PWM DC/DC Converter	8-SOIC	4.38	2.91	2.30
LT1317BIS8-ND	Micropower, 600kHz PWM DC/DC Converter	8-SOIC	5.63	3.74	3.00
LT1317CMS8-ND	Micropower, 600kHz PWM DC/DC Converter	8-MSOP	4.88	3.24	2.55
LT1317CS8-ND	Micropower, 600kHz PWM DC/DC Converter	8-SOIC	4.38	2.91	2.30
LT1339CN-ND	High Power Synchronous DC/DC Controller	20-Dip	9.13	6.10	5.20
LT1339CSW-ND	High Power Synchronous DC/DC Controller	20-SOIC	9.38	6.25	5.35
LT1339IN-ND	High Power Synchronous DC/DC Controller	20-Dip	11.00	7.35	6.30
LT1339ISW-ND	High Power Synchronous DC/DC Controller	20-SOIC	11.25	7.50	6.45
LT1370CT7-ND	500kHz, High Efficiency, 6A Switching Regulator	TO-220-7	11.63	7.72	6.25
LT1370HVCR-ND	500kHz, High Efficiency, 6A Switching Regulator	7-DD	13.50	8.97	7.25
LT1370HVCT7-ND	500kHz, High Efficiency, 6A Switching Regulator	TO-220-7	13.25	8.80	7.10
LT1370HVIR-ND	500kHz, High Efficiency, 6A Switching Regulator	7-DD	16.13	10.71	8.65
LT1370IR-ND	500kHz, High Efficiency, 6A Switching Regulator, Ind. Temp.	7-DD	14.25	9.47	7.65
LT1371CR-ND	500kHz, High Efficiency, 3A Switching Regulator	7-DD	9.63	6.40	5.50
LT1371CSW-ND	500kHz, High Efficiency, 3A Switching Regulator	20-SOIC	10.63	7.10	6.10
LT1371HVCR-ND	500kHz, High Efficiency, 3A Switching Regulator	7-DD	10.25	6.85	5.85
LT1371IR-ND	500kHz, High Efficiency, 3A Switching Regulator, Ind. Temp.	7-DD	11.50	7.64	6.55
LT1372CN8-ND	500kHz, High Efficiency, 1.5A Switching Regulator	8-Dip	6.50	4.32	3.70
LT1372CS8-ND	500kHz, High Efficiency, 1.5A Switching Regulator	8-SOIC	6.75	4.50	3.85
LT1372HVCS8-ND	500kHz, High Efficiency, 1.5A Switching Regulator	8-SOIC	7.38	4.90	4.20
LT1372IS8-ND	500kHz, High Effic., 1.5A Switching Regulator, Ind. Temp.	8-SOIC	8.13	5.40	4.65
LT1373CN8-ND	250kHz, High Efficiency, 1.5A Switching Regulator	8-Dip	6.50	4.32	3.70
LT1373CS8-ND	250kHz, High Efficiency, 1.5A Switching Regulator	8-SOIC	6.75	4.50	3.85
LT1373HVCS8-ND	250kHz, High Efficiency, 1.5A Switching Regulator	8-SOIC	7.38	4.90	4.20
LT1373IS8-ND	250kHz, High Effic., 1.5A Switching Regulator, Ind. Temp.	8-SOIC	8.13	5.40	4.65
LT1374CFE-ND	Adj., 500kHz, 4.5A, Step Down Switch. Regulator	16-TSSOP	9.10	6.05	4.64
LT1374CR-ND	Adj., 500kHz, 4.5A, Step Down Switching Regulator	7-DD	10.00	6.64	5.00
LT1374CR-5-ND	5V, 500kHz, 4.5A, Step Down Switching Regulator	7-DD	10.00	6.64	5.00
LT1374CS8-ND	Adj., 500kHz, 4.5A, Step Down Switching Regulator	8-SOIC	9.38	6.23	4.70
LT1374CS8-5-ND	5V, 500kHz, 4.5A, Step Down Switching Regulator	8-SOIC	9.38	6.23	4.70
LT1374CS8-5SYNC-ND	5V, 500kHz, 4.5A, Sync. Step Down Switching Regulator	8-SOIC	9.38	6.23	4.70
LT1374CT7-ND	Adj., 500kHz, 4.5A, Step Down Switching Regulator	TO-220-7	9.75	6.48	4.90
LT1374CT7-5-ND	5V, 500kHz, 4.5A, Step Down Switching Regulator	TO-220-7	9.75	6.48	4.90
LT1374HVCFE-ND	Adj., 500kHz, 4.5A, Step Down Switching Regulator	16-TSSOP	10.00	7.14	5.88
LT1374HVCS8-ND	Adj., 500kHz, 4.5A, Step Down Switching Regulator	8-SOIC	10.38	6.89	5.20
LT1374IR-ND	Adj., 500kHz, 4.5A, Step Down Switching Regulator	7-DD	11.50	7.64	5.75
LT1374IR-5-ND	5V, 500kHz, 4.5A, Step Down Switching Regulator	7-DD	11.50	7.64	5.75
LT1374IS8-5SYNC-ND	5V, 500kHz, 4.5A, Sync. Step Down Switching Regulator	8-SOIC	10.75	7.14	5.40
LT1374IT7-5-ND	5V, 500kHz, 4.5A Step Down Switching Regulator	TO-220-7	11.25	7.47	5.65
LT1375CS8-ND	Adj., 500kHz, 1.5A, Step Down Switching Regulator	8-SOIC	6.50	4.32	3.40
LT1375CS8-5-ND	5V, 500kHz, 1.5A Step Down Switching Regulator	8-SOIC	6.75	4.50	3.85
LT1375IS8-ND	Adj., 500kHz, 1.5A Step Down, Switching Regulator, Ind. Temp.	8-SOIC	7.75	5.15	4.10
LT1376CN8-ND	Adj., 500kHz, 1.5A Step Down Switching Regulator	8-Dip	6.50	4.35	3.70
LT1376CN8-5-ND	5V, 500kHz, 1.5A, Step Down Switching Regulator	8-Dip	6.50	4.35	3.70
LT1376CS-ND	Adj., 500kHz, 1.5A, Step Down Switching Regulator	16-SOIC	7.38	4.90	3.90
LT1376CS8-ND	Adj., 500kHz, 1.5A, Step Down Switching Regulator	8-SOIC	6.50	4.32	3.40
LT1376CS8-5-ND	5V, 500kHz, 1.5A, Step Down Switching Regulator	8-SOIC	6.75	4.49	3.85

(Continued)

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B

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LT1376HVCS8-ND	Adj., 500kHz, 1.5A, Step Down Switching Regulator	8-SOIC	7.13	4.74	3.57
LT1376HVIS-ND	Adj., 500kHz, 1.5A, Step Down Switching Regulator	16-SOIC	9.50	6.31	5.00
LT1376IS-ND	Adj., 500kHz, 1.5A, Step Down Switching Regulator, Ind. Temp.	16-SOIC	8.63	5.73	4.55
LT1376IS8-ND	Adj., 500kHz, 1.5A, Step Down Switching Regulator	8-SOIC	7.75	5.15	4.10
LT1376IS8-5-ND	5V, 500kHz, 1.5A, Step Down Switching Regulator	8-SOIC	8.13	5.40	4.65
LT1377CS8-ND	1MHz, 1.5A, High Efficiency Switching Regulator	8-SOIC	7.88	5.25	4.50
LT1377IS8-ND	1MHz, 1.5A, High Efficiency Switching Regulator, Ind. Temp.	8-SOIC	9.50	6.35	5.40
LT1424CN8-9-ND	Isolated Flyback Switch Regulator with 9V Output	8-Dip	5.88	3.91	3.10
LT1424CS8-9-ND	Isolated Flyback Switch Regulator with 9V Output	8-SOIC	6.13	4.07	3.25
LT1424IN8-9-ND	Isolated Flyback Switch Reg. with 9V Output, Ind. Temp.	8-Dip	7.38	4.90	4.30
LT1424IS8-5-ND	Isolated Flyback Switch Reg. with 5V Output, Ind. Temp.	8-SOIC	7.63	5.07	4.45
LT1424IS8-9-ND	Isolated Flyback Switch Reg. with 9V Output, Ind. Temp.	8-SOIC	7.63	5.07	4.45
LT1425CS-ND	Isolated Flyback Switch Regulator	16-SOIC	5.88	3.91	3.10
LT1425IS-ND	Isolated Flyback Switch Regulator, Ind. Temp.	16-SOIC	7.38	4.90	4.20
LT1506CR-SYNC-ND	500kHz, 4.5A, Step Down Switching Regulator	7-DD	10.00	6.64	5.00
LT1506CR-3.3-ND	500kHz, 4.5A, 3.3V Step Down Switching Regulator	7-DD	10.00	6.64	5.00
LT1506CS8-ND	500kHz, 4.5A, Step Down Switching Regulator	8-SOIC	9.38	6.23	4.70
LT1506CS8-3.3-ND	500kHz, 4.5A, 3.3V Step Down Switching Regulator	8-SOIC	9.38	6.23	4.70
LT1506IR-ND	500kHz, 4.5A, Step Down Switching Regulator	7-DD	11.50	7.64	5.75
LT1506IR-3.3-ND	500kHz, 4.5A, 3.3V Step Down Switching Regulator	7-DD	11.50	7.64	5.75
LT1506IS8-ND	500kHz, 4.5A, Step Down Switching Regulator	8-SOIC	10.75	7.14	5.40
LT1506IS8-3.3-ND	500kHz, 4.5A, 3.3V Step Down Switching Regulator	8-SOIC	10.75	7.14	5.40
LT1507CS8-ND	500kHz, Monolithic Buck Mode Switching Regulator	8-SOIC	6.75	4.50	3.85
LT1507CS8-3.3-ND	500kHz, 3.3V Mono Buck Mode Switching Regulator	8-SOIC	6.75	4.50	3.85
LT1521CMS8-ND	Adj., 300mA, LDO Voltage Regulator	8-MSOP	4.63	3.08	2.35
LT1521CMS8-3.3-ND	3.3V, 300mA, LDO Voltage Regulator	8-MSOP	4.63	3.08	2.35
LT1521CS8-ND	Adj., 300mA, LDO Voltage Regulator	8-SOIC	4.13	2.75	2.50
LT1521CS8-3-ND	3V, 300mA, LDO Voltage Regulator	8-SOIC	4.13	2.75	2.50
LT1521CS8-3.3-ND	3.3V, 300mA, LDO Voltage Regulator	8-SOIC	4.13	2.75	2.50
LT1521CS8-5-ND	5V, 300mA, LDO Voltage Regulator	8-SOIC	4.13	2.75	2.50
LT1521CST-3-ND	3V, 300mA, LDO Voltage Regulator	SOT-223	3.88	2.58	2.00
LT1521CST-3.3-ND	3.3V, 300mA, LDO Voltage Regulator	SOT-223	3.88	2.58	2.00
LT1521CST-5-ND	5V, 300mA, LDO Voltage Regulator	SOT-223	3.88	2.58	2.00
LT1521IS8-3.3-ND	3.3V, 300mA LDO Voltage Regulator	8-SOIC	5.00	3.35	2.85
LT1521IS8-5-ND	5V, 300mA, LDO Voltage Regulator	8-SOIC	5.00	3.35	2.85
LT1521IST-3.3-ND	3.3V, 300mA, LDO Voltage Regulator	SOT-223	4.75	3.16	2.70
LT1521IST-5-ND	5V, 300mA, LDO Voltage Regulator	SOT-223	4.75	3.16	2.70
LT1528CQ-ND	3.3V, 3A, LDO Voltage Regulator	5-DD	7.13	4.75	4.10
LT1528CT-ND	3.3V, 3A, LDO Voltage Regulator	TO-220-5	6.50	4.35	3.75
LT1529CQ-ND	Adj., 3A, LDO Voltage Regulator with Shutdown	5-DD	7.13	4.74	3.57
LT1529CQ-3.3-ND	3.3V, 3A, LDO Voltage Regulator with Shutdown	5-DD	7.13	4.74	3.57
LT1529CQ-5-ND	5V, 3A, LDO Voltage Regulator with Shutdown	5-DD	7.13	4.74	3.57
LT1529CT-ND	Adj., 3A, LDO Voltage Regulator with Shutdown	TO-220-5	6.50	4.32	3.25
LT1529CT-3.3-ND	3.3V, 3A, LDO Voltage Regulator with Shutdown	TO-220-5	6.50	4.32	3.25
LT1529CT-5-ND	5V, 3A, LDO Voltage Regulator with Shutdown	TO-220-5	6.50	4.32	3.25
LT1533CS-ND	1A, Ultra Low Noise Switching Regulator	16-SOIC	9.25	6.15	4.85
LT1533IS-ND	1A, Ultra Low Noise Switching Regulator	16-SOIC	11.50	7.65	6.55
LT1534CS-ND	2A, Ultra Low Noise Switching Regulator	16-SOIC	8.25	5.48	4.25
LT1534IS-ND	2A, Ultra Low Noise Switching Regulator	16-SOIC	9.50	6.31	4.80
LT1573CS8-ND	Adjustable LDO Regulator Driver	8-SOIC	3.75	2.49	1.88
LT1573CS8-2.5-ND	2.5V, LDO Regulator Driver	8-SOIC	3.75	2.49	1.88
LT1573CS8-2.8-ND	2.8V, LDO Regulator Driver	8-SOIC	3.75	2.49	1.88
LT1573CS8-3.3-ND	3.3V, LDO Regulator Driver	8-SOIC	3.75	2.49	1.88
LT1575CN8-ND	Adjustable Precision Linear Regulator Controller	8-Dip	4.75	3.16	2.70
LT1575CN8-3.3-ND	3.3V, Precision Linear Regulator Controller	8-Dip	4.75	3.16	2.70
LT1575CS8-ND	Ultrafast Transient Response Low Dropout Regulator	8-SOIC	4.75	3.16	2.70
LT1575CS8-2.8-ND	2.8V, Precision Linear Regulator Controller	8-SOIC	4.75	3.16	2.70
LT1575CS8-3.3-ND	3.3V, Precision Linear Regulator Controller	8-SOIC	4.75	3.16	2.70
LT1575CS8-5-ND	5V, Precision Linear Regulator Controller	8-SOIC	4.75	3.16	2.70
LT1576CS8-ND	1.5A, 200kHz, Step Down Switching Regulator	8-SOIC	5.75	3.82	2.95
LT1576IS8-SYNC-ND	1.5A, 200kHz, Step Down Switching Regulator, Sync. Input	8-SOIC	6.63	4.40	3.35
LT1579CGN-ND	Adj., 300mA, Dual Input, Smart LDO Regulator	16-SSOP	8.25	5.48	4.70
LT1579CGN-3-ND	3V, 300mA, Dual Input, Smart LDO Regulator	16-SSOP	8.25	5.48	4.70
LT1579CGN-3.3-ND	3.3V, 300mA, Dual Input, Smart LDO Regulator	16-SSOP	8.25	5.48	4.70
LT1579CGN-5-ND	5V, 300mA, Dual Input, Smart LDO Regulator	16-SSOP	8.25	5.48	4.70
LT1579CS-ND	Adj., 300mA, Dual Input, Smart LDO Regulator	16-SOIC	7.50	4.98	4.30
LT1579CS-3-ND	3V, 300mA, Dual Input, Smart LDO Regulator	16-SOIC	7.50	4.98	4.30
LT1579CS-3.3-ND	3.3V, 300mA, Dual Input, Smart LDO Regulator	16-SOIC	7.50	4.98	4.30
LT1579CS-5-ND	5V, 300mA, Dual Input, Smart LDO Regulator	16-SOIC	7.50	4.98	4.30
LT1579CS8-ND	Adj., 300mA, Dual Input, Smart LDO Regulator	8-SOIC	6.75	4.49	3.85
LT1579CS8-3-ND	3V, 300mA, Dual Input, Smart LDO Regulator	8-SOIC	6.75	4.49	3.85
LT1579CS8-3.3-ND	3.3V, 300mA, Dual Input, Smart LDO Regulator	8-SOIC	6.75	4.49	3.85
LT1579CS8-5-ND	5V, 300mA, Dual Input, Smart LDO Regulator	8-SOIC	6.75	4.49	3.85
LT1579IGN-ND	Adj., 300mA, Dual Input, Smart LDO Regulator	16-SSOP	10.00	6.64	5.70
LT1580CQ-ND	Adj., 7A, High Speed LDO Voltage Regulator	5-DD	11.50	7.64	5.75
LT1580CR-2.5-ND	2.5V, 7A, High Speed LDO Voltage Regulator	7-DD	11.88	7.89	5.94
LT1580CT-ND	Adj., 7A, High Speed LDO Voltage Regulator	TO-220-5	11.25	7.47	5.63
LT1580CT7-2.5-ND	2.5V, 7A, High Speed LDO Voltage Regulator	TO-220-7	11.63	7.72	5.82
LT1580IQ-ND	Adj., 7A, High Speed LDO Voltage Regulator	5-DD	13.75	9.13	6.88
LT1580IR-2.5-ND	2.5V, 7A, High Speed LDO Voltage Regulator, Ind. Temp.	7-DD	14.00	9.30	7.00
LT1581CT7-ND	Adj., 10A, LDO Voltage Regulator	TO-220-7	13.13	8.75	7.50
LT1581CT7-2.5-ND	2.5V, 10A, LDO Voltage Regulator	TO-220-7	13.13	8.75	7.50
LT1584CT-ND	Adj., 7A, LDO Voltage Regulator	TO-220	10.63	7.08	6.05
LT1584CT-3.3-ND	3.3V, 7A, LDO Voltage Regulator	TO-220	10.63	7.08	6.05
LT1584CT-3.38-ND	3.38V, 7A, LDO Voltage Regulator	TO-220	10.63	7.08	6.05
LT1584IT-3.3-ND	3.3V, 7A, LDO Voltage Regulator	TO-220	12.75	8.47	6.38
LT1585ACM-1.5-ND	1.5V, 4.6A, LDO Voltage Regulator	3-DD	8.13	5.40	4.65
LT1585ACT-1.5-ND	1.5V, 4.6A, LDO Voltage Regulator	TO-220	7.50	5.00	4.25
LT1585CM-ND	Adj., 4A, LDO Voltage Regulator	3-DD	7.75	5.15	4.30
LT1585CM-3.3-ND	3.3V, 4A, LDO Voltage Regulator	3-DD	7.75	5.15	4.30
LT1585CM-3.6-ND	3.6V, 4A, LDO Voltage Regulator	3-DD	7.75	5.15	4.30
LT1585CT-ND	Adj., 4A, LDO Voltage Regulator	TO-220	7.13	4.75	4.00
LT1585CT-3.3-ND	3.3V, 4A, LDO Voltage Regulator	TO-220	7.13	4.75	4.00
LT1585CT-3.38-ND	3.38V, 4A, LDO Voltage Regulator	TO-220	7.13	4.75	4.00
LT1585CT-3.6-ND	3.6V, 4A, LDO Voltage Regulator	TO-220	7.13	4.75	4.00
LT1587CM-ND	Adj., 3A, LDO Voltage Regulator	3-DD	6.50	4.35	3.70
LT1587CM-1.5-ND	1.5V, 3A, LDO Voltage Regulator	3-DD	6.50	4.35	3.70
LT1587CM-3.3-ND	3.3V, 3A, LDO Voltage Regulator	3-DD	6.50	4.33	3.70
LT1587CT-ND	Adj, 3A, LDO Voltage Regulator	TO-220	5.88	3.92	3.35
LT1587CT-3.3-ND	3.3V, 3A, LDO Voltage Regulator	TO-220	5.88	3.92	3.35
LT1610CMS8-ND	1.7MHz, Single Cell DC/DC Converter	8-MSOP	4.13	2.74	2.10
LT1610CS8-ND	1.7MHz, Single Cell DC/DC Converter	8-SOIC	3.50	2.33	1.75
LT1610IS8-ND	1.7MHz, Single Cell DC/DC Converter	8-SOIC	4.25	2.83	2.25
LT1611CS5-ND	1.4MHz, Inverting Switching Regulator	SOT-23-5	4.00	2.66	2.15

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	10
LT1613CS5-ND	1.4MHz, Single Cell DC/DC Controller	SOT-23-5	3.50	2.33	1.
LT1614CMS8-ND	600kHz Inverting Switching Regulator	8-MSOP	5.50	3.66	2.
LT1614CS8-ND	600kHz Inverting Switching Regulator	8-SOIC	5.00	3.32	2.
LT1615ES5-ND	Micropower Step-Up DC/DC Converter	SOT-23-5	3.50	2.33	1.
LT1615ES5-1#TR-ND	Micropower Step-Up DC/DC Converter	SOT-23-5		4500.00/2,50	
LT1615IS5-ND	Micropower Step-Up DC/DC Converter	SOT-23-5	4.00	2.66	2.
LT1615IS5TR-ND	Micropower Step-Up DC/DC Converter	SOT-23-5		5157.50/2,50	
LT1616ES6-ND	1.4MHz, Step-Down Switching Regulator	SOT-23-6	4.00	2.66	2.
LT1618EMS-ND	1.4MHz, Step-Up DC/DC Converter	10-MSOP	3.50	2.33	1.
LT1619EMS8-ND	300kHz, 2-Cell Current Mode PWM Controller	8-MSOP	4.50	2.99	2.
LT1619EMS8TR-ND	300kHz, 2-Cell Current Mode PWM Controller	8-MSOP		5782.50/2,50	
LT1619ES8-ND	300kHz, 2-Cell Current Mode PWM Controller	8-SOIC	4.25	2.83	2.
LT1619ES8TR-ND	300kHz, 2-Cell Current Mode PWM Controller	8-SOIC		5470.00/2,50	
LT1676CS8-ND	High Efficiency, Step Down Switching Regulator	8-SOIC	5.38	3.57	2.
LT1676IS8-ND	High Efficiency, Step Down Switching Regulator, Ind Temp.	8-SOIC	6.25	4.15	3.
LT1680CN-ND	High Power DC/DC Step-Up Controller	16-Dip	8.00	5.32	4.
LT1680CSW-ND	High Power DC/DC Step Up Controller	16-SOIC	8.38	5.57	4.
LT1680IN-ND	High Power DC/DC Step Up Controller	16-Dip	9.63	6.40	5.
LT1680ISW-ND	High Power DC/DC Step Up Controller	16-SOIC	10.00	6.64	5.
LT1681ESW-ND	Dual Transistor Sync. Forward Controller	20-SOIC	10.63	7.06	5.
LT1683EG-ND	Ultra Low Noise Push-Pull DC/DC Controller	20-SSOP	9.63	6.40	4.
LT1725IGN-ND	General Purpose Isolated Flyback Controller	16-SSOP	7.25	4.82	3.
LT1725IS-ND	General Purpose Isolated Flyback Controller	16-SOIC	7.00	4.65	3.
LT1737IGN-ND	High Power Isolated Flyback Controller	16-SSOP	7.25	4.82	3.
LT1737IS-ND	High Power Isolated Flyback Controller	16-SOIC	7.00	4.65	3.
LT1738EG-ND	Ultra Low Noise DC/DC Controller	20-SSOP	8.63	5.73	4.
LT1738IG-ND	Ultra Low Noise DC/DC Controller	20-SSOP	9.88	6.56	4.
LT1761ES5-BYP-ND	Adj., 100mA, Low Noise LDO Micropower Regulator	SOT-23-5	1.93	1.28	
LT1761ES5-1.5-ND	1.5V, 100mA, Low Noise LDO Micropower Regulator	SOT-23-5	1.93	1.28	
LT1761ES5-1.8-ND	1.8V, 100mA, Low Noise LDO Micropower Regulator	SOT-23-5	1.93	1.28	
LT1761ES5-2.5-ND	2.5V, 100mA, Low Noise LDO Micropower Regulator	SOT-23-5	1.93	1.28	
LT1761ES5-3.3-ND	3.3V, 100mA, Low Noise LDO Micropower Regulator	SOT-23-5	1.93	1.28	
LT1761ES5-SD-ND	Adj.,100mA, Low Noise, LDO Micropower Regulator	SOT-23-5	1.93	1.28	
LT1762EMS8-ND	Adj., 150mA, Low Noise LDO Micropower Regulator	8-MSOP	2.38	1.58	1.
LT1763CS8-ND	Adj., 500mA, Low Noise LDO Micropower Regulator	8-SOIC	4.13	2.74	2.
LT1763CS8-2.5-ND	2.5V, 500mA, Low Noise, LDO Micropower Regulator	8-SOIC	4.13	2.74	2.
LT1763CS8-3.3-ND	3.3V, 500mA, Low Noise, LDO Micropower Regulator	8-SOIC	4.13	2.74	2.
LT1764AEQ-ND	Adj., 3A, Fast Transient Response, Low Noise LDO Regulator	5-DD	7.13	5.09	4.
LT1764AEQ-1.5-ND	1.5V, 3A, Fast Transient Response, Low Noise LDO Regulator	5-DD	7.13	5.09	4.
LT1764AEQ-1.8-ND	1.8V, 3A, Fast Transient Response, Low Noise LDO Regulator	5-DD	7.13	5.09	4.
LT1764AEQ-2.5-ND	2.5V, 3A, Fast Transient Response, Low Noise LDO Regulator	5-DD	7.13	5.09	4.
LT1764AEQ-3.3-ND	3.3V, 3A, Fast Transient Response, Low Noise LDO Regulator	5-DD	7.13	5.09	4.
LT1764AET-ND	Adj., 3A, Fast Transient Response, Low Noise LDO Reg	TO-220-5	7.13	5.09	4.
LT1764AET-1.5-ND	1.5V, 3A, Fast Transient Response, Low Noise LDO Reg	TO-220-5	7.13	5.09	4.
LT1764AET-1.8-ND	1.8V, 3A, Fast Transient Response, Low Noise LDO Reg	TO-220-5	7.13	5.09	4.
LT1764AET-2.5-ND	2.5V, 3A, Fast Transient Response, Low Noise LDO Reg	TO-220-5	7.13	5.09	4.
LT1764AET-3.3-ND	3.3V, 3A, Fast Transient Response, Low Noise LDO Reg	TO-220-5	7.13	5.09	4.
LT1764EQ-ND	Adj., 3A, Fast Transient Response, Low Noise LDO Regulator	5-DD	7.13	4.74	3.
LT1764EQ-2.5-ND	2.5V, 3A, Fast Transient Response, Low Noise LDO Regulator	5-DD	7.13	4.74	3.
LT1765EFE-ND	3A Step-Down Switching Regulator	16-TSSOP	9.65	6.41	5.
LT1765EFE-1.8-ND	1.8V, 3A Step-Down Switching Regulator	16-TSSOP	9.65	6.89	5.
LT1765EFE-2.5-ND	2.5V, 3A Step-Down Switching Regulator	16-TSSOP	9.65	6.89	5.
LT1765EFE-3.3-ND	3.3V, 3A Step-Down Switching Regulator	16-TSSOP	9.65	6.89	5.
LT1765ES8-5-ND	5V, 3A Step-Down Switching Regulator	16-TSSOP	9.65	6.89	5.
LT1765ES8-ND	3A Step-Down Switching Regulator	8-SOIC	9.58	6.36	4.
LT1765ES8TR-ND	3A Step-Down Switching Regulator	8-SOIC		12125.00/2,50	
LT1766EGN-ND	1.5A, 200kHz High Volt. Step-Down Switching Regulator	16-SSOP	7.38	4.90	3.
LT1766EGN-5-ND	1.5A, 200kHz High Volt. Step-Down Switching Regulator	16-SSOP	7.38	4.90	3.
LT1766IGN-ND	1.5A, 200kHz High Volt. Step-Down Switching Regulator	16-SSOP	9.00	5.98	4.
LT1767EMS8-1.8-ND	1.8V, Monolithic 1.5A, 1.25MHz Step-Down Switching Regulator	8-MSOP	6.00	3.99	3.
LT1767EMS8-2.5-ND	2.5V, Monolithic 1.5A, 1.25MHz Step-Down Switching Regulator	8-MSOP	6.00	3.99	3.
LT1767EMS8-3.3-ND	3.3V, Monolithic 1.5A, 1.25MHz Step-Down Switching Regulator	8-MSOP	6.00	3.99	3.
LT1767EMS8-5-ND	5V, Monolithic 1.5A, 1.25MHz Step-Down Switching Regulator	8-MSOP	6.00	3.99	3.
LT1767EMS8E-ND	Monolithic 1.5A, 1.25MHz Step-Down Switching Regulator	8-MSOP	6.10	4.36	3.
LT1767EMS8E-1.8-ND	1.8V, Monolithic 1.5A, 1.25MHz Step-Down Switching Regulator	8-MSOP	6.10	4.36	3.
LT1767EMS8E-2.5-ND	2.5V, Monolithic 1.5A, 1.25MHz Step-Down Switching Regulator	8-MSOP	6.10	4.36	3.
LT1767EMS8E-3.3-ND	3.3V, Monolithic 1.5A, 1.25MHz Step-Down Switching Regulator	8-MSOP	6.10	4.36	3.
LT1767EMS8E-5-ND	5V, Monolithic 1.5A, 1.25MHz Step-Down Switching Regulator	8-MSOP	6.10	4.36	3.
LT1776CN8-ND	High Efficiency, Step-Down Switching Regulator, Wide Input Range	8-Dip	5.00	3.32	2.
LT1776CS8-ND	High Efficiency, Step-Down Switching Regulator, Wide Input Range	8-SOIC	5.25	3.49	2.
LT1776IN8-ND	High Efficiency, Step-Down Switching Regulator, Wide Input Range	8-Dip	5.75	3.82	3.
LT1776IS8-ND	High Efficiency, Step-Down Switching Regulator, Wide Input Range	8-SOIC	6.00	3.99	3.
LT1777IS-ND	Low Noise Step-Down Switching Regulator	16-SOIC	6.25	4.15	3.
LT1930AES5-ND	2.2MHz, Step Up DC/DC Converter	SOT-23-5	4.00	2.66	2.
LT1930ES5-ND	1.2MHz, Step Up DC/DC Converter	SOT-23-5	4.00	2.66	2.
LT1930ES5TR-ND	1.2MHz, Step Up DC/DC Converter	SOT-23-5		5125.00/2,5	
LT1931AES5-ND	2.2MHz, Inverting DC/DC Converter	SOT-23-5	4.25	2.83	2.
LT1931ES5-ND	1.2MHz, Inverting DC/DC Converter	SOT-23-5	4.25	2.83	2.
LT1931ES5TR-ND	1.2MHz, Inverting DC/DC Converter	SOT-23-5		5500.00/2,5	
LT1932ES6-ND	Constant-Current DC/DC LED Driver	SOT-23-6	3.50	2.33	1.
LT1937ES5-ND	White LED Step-Up Converter	TSOT-23-5	2.50	1.79	1.
LT1944-1EMS-ND	Dual Micropower Step Up DC/DC Converter	10-MSOP	4.25	2.83	2.
LT1944EMS-ND	Dual Micropower Step Up DC/DC Converter	10-MSOP	4.25	2.83	2.
LT1945EMS-ND	Dual Micropower DC/DC Converter	10-MSOP	4.25	2.83	2.
LT1946AEMS8E-ND	2.7MHz Boost DC/DC Converter with 1.5A Switch	8-MSOP	3.50	2.33	1.
LT1946EMS8-ND	1.2MHz Boost DC/DC Converter with 1.5A Switch	8-MSOP	3.50	2.33	1.
LT1947EMS-ND	Adj. Output TFT-LCD Triple Switching Regulator	10-MSOP	5.13	3.41	2.
LT1949-1EMS8-ND	1.1MHz, 1A Switch PWM DC/DC Converter	8-MSOP	4.50	2.99	2.
LT1949EMS8-ND	600kHz, 1A Switch PWM DC/DC Converter	8-MSOP	4.50	2.99	2.
LT1950IGN-ND	Single Switch PWM Controller	16-SSOP	6.63	4.73	3.
LT1956EGN-ND	1.5A, High Volt. Step-Down Switching Regulator	16-SSOP	7.38	4.90	3.
LT1956EGN-5-ND	1.5A, 5V Step-Down Switching Regulator	16-SSOP	7.38	4.90	3.

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Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
1961EMS8E-ND	1.5A, Step-Up Switching Regulator	8-MSOP	3.38	2.25	1.80
1962EMS8-ND	Adj., 300mA, Low Noise Micropower LDO Regulator	8-MSOP	3.50	2.33	1.80
1962EMS8TR-ND	Adj., 300mA, Low Noise Micropower LDO Regulator	8-MSOP		4625.00/2,500	
1962EMS8-2.5-ND	2.5V, 300mA, Low Noise Micropower LDO Regulator	8-MSOP	3.50	2.33	1.80
1962EMS8-2.5TR-ND	2.5V, 300mA, Low Noise Micropower LDO Regulator	8-MSOP		4625.00/2,500	
1962EMS8-3-ND	3V, 300mA, Low Noise Micropower LDO Regulator	8-MSOP	3.50	2.33	1.80
1962EMS8-3TR-ND	3V, 300mA, Low Noise Micropower LDO Regulator	8-MSOP		4625.00/2,500	
1962EMS8-3.3-ND	3.3V, 300mA, Low Noise Micropower LDO Regulator	8-MSOP	3.50	2.33	1.80
1962EMS8-3.3TR-ND	3.3V, 300mA, Low Noise Micropower LDO Regulator	8-MSOP		4625.00/2,500	
1962EMS8-5-ND	5V, 300mA, Low Noise Micropower LDO Regulator	8-MSOP	3.50	2.33	1.80
1962EMS8-5TR-ND	5V, 300mA, Low Noise, Fast Transient Response LDO Regulator	8-MSOP		4625.00/2,500	
1963AEQ-ND	Adj., 1.5A, Low Noise, Fast Transient Response LDO Regulator	DD-5	5.25	3.49	2.65
1963AEQ-1.5-ND	1.5V, 1.5A, Low Noise, Fast Transient Response LDO Regulator	DD-5	5.25	3.49	2.65
1963AEQ-1.8-ND	1.8V, 1.5A, Low Noise, Fast Transient Response LDO Regulator	DD-5	5.25	3.49	2.65
1963AEQ-2.5-ND	2.5V, 1.5A, Low Noise, Fast Transient Response LDO Regulator	DD-5	5.25	3.49	2.65
1963AEQ-3.3-ND	3.3V, 1.5A, Low Noise, Fast Transient Response LDO Regulator	DD-5	5.25	3.49	2.65
1963AES8-ND	Adj., 1.5A, Low Noise, Fast Transient Response LDO Regulator	8-SOIC	4.50	2.99	2.30
1963AES8-1.5-ND	1.5V, 1.5A, Low Noise, Fast Transient Response LDO Regulator	8-SOIC	4.50	2.99	2.30
1963AES8-1.8-ND	1.8V, 1.5A, Low Noise, Fast Transient Response LDO Regulator	8-SOIC	4.50	2.99	2.30
1963AES8-2.5-ND	2.5V, 1.5A, Low Noise, Fast Transient Response LDO Regulator	8-SOIC	4.50	2.99	2.30
1963AES8-3.3-ND	3.3V, 1.5A, Low Noise, Fast Transient Response LDO Regulator	8-SOIC	4.50	2.99	2.30
1963AEST-1.5-ND	1.5V, 1.5A, Low Noise, Fast Transient Response LDO Regulator	SOT-223-3	4.50	2.99	2.30
1963AEST-1.8-ND	1.8V, 1.5A, Low Noise, Fast Transient Response LDO Regulator	SOT-223-3	4.50	2.99	2.30
1963AEST-2.5-ND	2.5V, 1.5A, Low Noise, Fast Transient Response LDO Regulator	SOT-223-3	4.50	2.99	2.30
1963AEST-3.3-ND	3.3V, 1.5A, Low Noise, Fast Transient Response LDO Regulator	SOT-223-3	4.50	2.99	2.30
1963AET-ND	Adj., 1.5A, Low Noise, Fast Transient Response LDO Regulator	TO-220-5	5.25	3.49	2.65
1963AET-1.5-ND	1.5V, 1.5A, Low Noise, Fast Transient Response LDO Regulator	TO-220-5	5.25	3.49	2.65
1963AET-1.8-ND	1.8V, 1.5A, Low Noise, Fast Transient Response LDO Regulator	TO-220-5	5.25	3.49	2.65
1963AET-2.5-ND	2.5V, 1.5A, Low Noise, Fast Transient Response LDO Regulator	TO-220-5	5.25	3.49	2.65
1963AET-3.3-ND	3.3V, 1.5A, Low Noise, Fast Transient Response LDO Regulator	TO-220-5	5.25	3.49	2.65
1963EQ-ND	Adj., 1.5A, Low Noise, Fast Transient Response LDO Regulator	5-DD	5.25	3.49	2.65
1963EST-2.5-ND	2.5V, 1.5A, Low Noise, Fast Transient Response LDO Regulator	SOT-223	4.50	2.99	2.30
1964ES5-BYP-ND	200mA, Low Noise LDO Neg. Micropower Regulator	SOT-23-5	2.70	1.80	1.38
1964ES5-5-ND	220A, 5V Low Noise LDO Neg. Micropower Regulator	SOT-23-5	2.70	1.80	1.38
1976IFE-ND	HV 1.5A, 200kHz Step-Down Switching Regulator	16-TSSOP	9.20	6.57	5.41
3010EMS8E-ND	50mA, 3V to 80V LDO Micropower Linear Regulator	8-MSOP	3.13	2.23	1.84
3023EDD-ND	DL 100mA, LDO Low Noise Micropower Regulator	10-DFN	3.40	2.43	2.00
3023EMSE-ND	DL 100mA, LDO Low Noise Micropower Regulator	10-MSOP	3.20	2.29	1.88
3150CGN-ND	Micropower Precision Triple Supply Monitor	SOT-23-5	7.40	4.92	3.77
3431EFE-ND	High Voltage, 3A, Step Down Switching Regulator	16-TSSOP	9.90	7.07	5.82
3439EFE-ND	Ultralow Noise 1A Isolated DC/DC Transformer Driver	16-TSSOP	7.00	5.00	4.12
3460ES5-ND	1.3MHz Step-Up DC/DC Converter	SOT-23-5	3.08	2.20	1.81
3460ESC6-ND	1.3MHz Step-Up DC/DC Converter	SC70-6	3.28	2.34	1.93
3461AES6-ND	3MHz Step-UP DC/DC Converter	SOT-23-6	3.30	2.36	1.94
3461ES6-ND	1.3MHz Step-UP DC/DC Converter	SOT-23-6	3.30	2.36	1.94
3464ETS8-ND	Micropower Boost Converter	SOT-23-8	3.08	2.20	1.81
3483ES6-ND	Inverting Micropower DC/DC Converter ***NEW!***	TSOT-23-6	4.10	2.73	2.18
3710EFE-ND	High Efficiency Step-Down Switching Regulator	16-TSSOP	7.88	5.63	4.63
3781EG-ND	Dual Transistor Synchronous Forward Controller	20-SSOP	10.00	7.14	5.88
3781IG-ND	Dual Transistor Synchronous Forward Controller	20-SSOP	11.00	7.86	6.47
C1142CG-ND	Dual Step Down Switching Regulator	28-SSOP	11.25	7.50	6.00
C1143LCS-ND	Dual Step Down Switching Regulator	16-SOIC	8.25	5.48	4.60
C1143LCS-ADJ-ND	Dual Step Down Switching Regulator	16-SOIC	8.25	5.48	4.40
C1147CN8-5-ND	5V, High Efficiency Step Down Regulator	8-Dip	5.13	3.41	2.65
C1147CS8-3.3-ND	3.3V, High Efficiency Step Down Regulator	8-SOIC	5.38	3.57	2.80
C1147CS8-5-ND	5V, High Efficiency Step Down Regulator	8-SOIC	5.38	3.57	2.80
C1147LCS8-ND	High Efficiency Step Down Regulator	8-SOIC	6.00	3.99	3.15
C1147LIS8-ND	High Efficiency Step Down Regulator	8-SOIC	6.63	4.40	3.40
C1148CN-ND	High Efficiency Sync. Step Down Regulator	14-Dip	7.88	5.25	4.50
C1148CS-ND	High Efficiency Sync. Step Down Regulator	14-SOIC	8.13	5.40	4.60
C1148CS-3.3-ND	3.3V, High Efficiency Sync. Step Down Regulator	14-SOIC	8.13	5.40	4.60
C1148CS-5-ND	5V, High Efficiency Sync. Step Down Regulator	14-SOIC	8.13	5.40	4.60
C1148HVCS-ND	High Efficiency Sync. Step Down Regulator	14-SOIC	8.50	5.65	4.80
C1148HVCS-5-ND	5V, High Efficiency Sync. Step Down Regulator	14-SOIC	8.50	5.65	4.80
C1148LCS-3.3-ND	3.3V, High Efficiency Sync. Step Down Regulator	14-SOIC	8.75	5.85	4.90
C1149CN-ND	High Efficiency Sync. Step Down Regulator	16-Dip	9.63	6.40	5.50
C1149CN-5-ND	5V, High Efficiency Sync. Step Down Regulator	16-Dip	9.63	6.40	5.50
C1149CS-ND	High Efficiency Sync. Step Down Regulator	16-SOIC	10.00	6.64	5.00
C1149CS-3.3-ND	3.3V, High Efficiency Sync. Step Down Regulator	16-SOIC	10.00	6.64	5.00
C1159CS-ND	High Efficiency Sync. Step Down Switch Regulator	16-SOIC	9.00	6.00	4.90
C1159CS-3.3-ND	3.3V, High Effic. Sync. Step Down Switch Regulator	16-SOIC	9.00	6.00	4.90
C1174CN8-ND	Adj., Step Down and Inverting DC/DC Converter	8-Dip	6.50	4.35	3.60
C1174CN8-5-ND	5V, Step Down and Inverting DC/DC Converter	8-Dip	6.50	4.35	3.60
C1174CS8-ND	Adj., Step Down and Inverting DC/DC Converter	8-SOIC	6.88	4.60	3.80
C1174CS8-3.3-ND	3.3V, Step Down and Inverting DC/DC Converter	8-SOIC	6.88	4.60	3.80
C1174CS8-5-ND	5V, Step Down and Inverting DC/DC Converter	8-SOIC	6.88	4.60	3.80
C1174HVCN8-ND	Adj., Step Down and Inverting DC/DC Converter	8-Dip	7.50	5.00	4.10
C1174HVCS8-ND	Adj., Step Down and Inverting DC/DC Converter	8-SOIC	7.88	5.25	4.25
C1174HVCS8-3.3-ND	3.3V, Step Down and Inverting DC/DC Converter	8-SOIC	7.88	5.25	4.25
C1174HVCS8-5-ND	5V, Step Down and Inverting DC/DC Converter	8-SOIC	7.88	5.25	4.25
C1174IN8-ND	Adj., Step Down/Inverting DC/DC Converter, Ind. Temp	8-Dip	7.50	5.00	4.00
C1263CS8-ND	12V, 60mA Flash Memory DC/DC Converter	8-SOIC	7.00	4.65	3.50
C1265CS-ND	Adj., 1.2A High Effic., Step Down DC/DC Converter	14-SOIC	6.88	4.60	3.95
C1430ACGN-ND	Step Down Switching Regulator Controller	16-SSOP	7.75	5.15	3.98
C1430ACS-ND	Step Down Switching Regulator Controller	16-SOIC	7.13	4.74	3.59
LTC1430ACS8-ND	Step Down Switching Regulator Controller	8-SOIC	6.25	4.15	3.13
LTC1430CS-ND	Step Down Switching Regulator Controller	16-SOIC	7.13	4.74	3.88
LTC1430IS-ND	Step Down Switching Regulator Controller	16-SOIC	8.88	5.90	5.15
LTC1433CGN-ND	Current Mode Step Down DC/DC Converter	16-SSOP	7.38	4.90	3.95
LTC1435ACS-ND	Low Noise Sync. Step Down Switching Regulator	16-SOIC	8.38	5.57	4.80
LTC1435AIS-ND	Low Noise Sync. Step Down Switching Regulator	16-SOIC	10.50	6.98	6.00
LTC1435CG-ND	Low Noise Sync. Step Down Switching Regulator	16-SSOP	9.00	5.98	5.15
LTC1435CS-ND	Low Noise Sync. Step Down Switching Regulator	16-SOIC	8.38	5.57	4.23
LTC1435IS-ND	Low Noise Sync. Step Down Switching Regulator	16-SOIC	10.50	6.98	6.00
LTC1436ACGN-PLL-ND	Low Noise Sync. Step Down Switching Regulator	24-SSOP	10.00	6.64	5.70
LTC1438CG-ADJ-ND	Dual, Sync. Step Down Switching Regulator	28-SSOP	14.00	9.30	7.50
LTC1438IG-ADJ-ND	Dual, Sync. Step Down Switching Regulator	28-SSOP	16.88	11.21	9.00
LTC1439CG-ND	Dual, Sync. Step Down Switching Regulator	36 SSOP	15.38	10.21	8.75
LTC1474CMS8-ND	Adj. High Efficiency, Step Down DC/DC Converter	8-MSOP	7.50	4.98	4.00
LTC1474CMS8-3.3-ND	3.3V, High Efficiency, Step Down DC/DC Converter	8-MSOP	7.50	4.98	4.00
LTC1474CMS8-5-ND	5V, High Efficiency, Step Down DC/DC Converter	8-MSOP	7.50	4.98	4.00
LTC1474CS8-ND	Adj. High Efficiency, Step Down DC/DC Converter	8-SOIC	6.88	4.57	3.65
LTC1474CS8-3.3-ND	3.3V, High Efficiency, Step Down DC/DC Converter	8-SOIC	6.88	4.57	3.65
LTC1474CS8-5-ND	5V, High Efficiency, Step Down DC/DC Converter	8-SOIC	6.88	4.57	3.65
LTC1474IS8-ND	Adj. High Efficiency, Step Down DC/DC Converter	8-SOIC	8.25	5.48	4.40
LTC1474IS8-3.3-ND	3.3V, High Efficiency, Step Down DC/DC Converter	8-SOIC	8.25	5.48	4.40
LTC1474IS8-5-ND	5V, High Efficiency, Step Down DC/DC Converter	8-SOIC	8.25	5.48	4.40
LTC1475CMS8-ND	Adj. High Efficiency, Step Down DC/DC Converter	8-MSOP	7.75	5.15	4.15
LTC1475CS8-5-ND	5V, High Efficiency, Step Down DC/DC Converter	8-SOIC	7.13	4.74	3.80
LTC1475IS8-ND	Adj. High Efficiency, Step Down DC/DC Converter	8-SOIC	8.50	5.65	4.85
LTC1504ACS8-ND	Adj. Step-Down Synchronous Switching Regulator	8-SOIC	5.13	3.41	2.57
LTC1504ACS8-3.3-ND	3.3V Step-Down Synchronous Switching Regulator	8-SOIC	5.13	3.41	2.57
LTC1504CS8-ND	Adj. Step-Down Synchronous Switching Regulator	8-SOIC	5.13	3.41	2.57
LTC1504CS8-3.3-ND	3.3V, Step-Down Synchronous Switching Regulator	8-SOIC	5.13	3.41	2.57
LTC1530CS8-ND	Adj. Synchronous Switching Regulator Controller	8-SOIC	6.25	4.15	3.15
LTC1530CS8-3.3-ND	3.3V Synchronous Switching Regulator Controller	8-SOIC	6.25	4.15	3.15
LTC1530IS8-ND	Adj. Synchronous Switching Regulator Controller	8-SOIC	6.88	4.57	3.57
LTC1574CS-ND	Adjustable CMOS Step Down, DC/DC Converter	16-SOIC	8.50	5.65	4.85
LTC1574CS-5-ND	5V, CMOS Step Down, DC/DC Converter	16-SOIC	8.50	5.65	4.85
LTC1622CMS8-ND	Low Voltage, Step Down DC/DC Controller	8-MSOP	4.38	2.91	2.19
LTC1622CS8-ND	Low Voltage, Step Down DC/DC Controller	8-SOIC	3.88	2.58	1.94
LTC1624CS8-ND	High Efficiency N-Channel Switching Regulator Controller	8-SOIC	7.13	4.74	3.75
LTC1624IS8-ND	High Efficiency N-Channel Switching Regulator Controller	8-SOIC	8.88	5.90	4.80
LTC1625CS-ND	No Rsense Sync. Step Down Switching Regulator	16-SOIC	9.13	6.06	4.85
LTC1625IGN-ND	No Rsense Sync. Step Down Switching Regulator	16-SSOP	11.75	7.81	6.28
LTC1625IS-ND	No Rsense Sync. Step Down Switching Regulator	16-SOIC	11.00	7.31	5.85
LTC1627CS8-ND	Mono Synchronous Step Down Switching Regulator	8-SOIC	4.38	2.91	2.19
LTC1627IS8-ND	Mono Synchronous Step Down Switching Regulator	8-SOIC	6.50	4.32	3.25
LTC1628CG-ND	Mono Step Down Switching Regulator	28-SSOP	9.13	6.06	4.75
LTC1628CG-SYNC-ND	Mono Synchronous Step Down Switching Regulator	28-SSOP	9.50	6.31	4.90
LTC1628CUH-ND	High Efficiency, 2 Phase Step-Down Switching Regulator	32-QFN	9.38	6.23	4.69
LTC1629IG-ND	Poly Phase High Eff. Sync. Step-Down Switching Reg.	28-SSOP	14.25	9.47	7.30
LTC1649CS-ND	3.3V, Step Down Switching Regulator Controller	16-SOIC	8.38	5.57	4.20
LTC1698EGN-ND	Secondary Synchronous Rectifier Controller	16-SSOP	11.25	7.47	5.63
LTC1698ES-ND	Secondary Synchronous Rectifier Controller	16-SOIC	11.38	7.56	5.69
LTC1700EMS-ND	Synchronous Step-Up DC/DC Controller	10-MSOP	5.50	3.66	2.75
LTC1701BES5-ND	1MHz Step-Down DC/DC Converter	SOT-23-5	3.75	2.49	2.15
LTC1702CGN-ND	Dual 550kHz, Sync. Switch Regulator Controller	24-SSOP	9.88	6.56	4.95
LTC1704EGN-ND	Dual, 550kHz, Sync. Switch Regulator Controller Plus Linear Regulator Controller	16-SSOP	8.25	5.89	4.85
LTC1735CF-ND	High Efficiency Sync. Step-Down Switching Regulator	20-TSSOP	7.00	4.65	3.50
LTC1735CGN-ND	High Efficiency Sync. Step-Down Switching Regulator	16-SSOP	6.88	4.57	3.44
LTC1735CGN-1-ND	High Efficiency Sync. Step-Down Switching Regulator	16-SSOP	6.88	4.57	3.44
LTC1735CS-ND	High Efficiency Sync. Step-Down Switching Regulator	16-SOIC	6.63	4.40	3.32
LTC1735IF-ND	High Efficiency Sync. Step-Down Switching Regulator	20-TSSOP	9.13	6.52	5.37
LTC1735IGN-ND	High Efficiency Sync. Step-Down Switching Regulator	16-SSOP	9.00	5.98	4.50
LTC1735IS-ND	High Efficiency Sync. Step-Down Switching Regulator	16-SOIC	8.63	5.73	4.35
LTC1772BES6-ND	Constant Frequency, Current Mode Step-Down DC/DC Controller	SOT-23-6	3.88	2.58	1.94
LTC1772ES6-ND	Constant Frequency, Current Mode Step-Down DC/DC Controller	SOT-23-6	3.88	2.58	1.94
LTC1778EGN-ND	Sync. Step-Down Switching Regulator Controller	16-SSOP	5.75	3.82	2.88
LTC1778EGN-1-ND	Sync. Step-Down Switching Regulator Controller	16-SSOP	5.75	3.82	2.88
LTC1779ES6-ND	250mA Step-Down DC/DC Converter	SOT-23-6	3.75	2.49	1.94
LTC1844ES5-1.5-ND	150mA, Micropower, Low Noise, VLDO™ Linear Reg.	SOT-23-5	2.35	1.68	1.38
LTC1844ES5-1.8-ND	150mA, Micropower, Low Noise, VLDO™ Linear Reg.	SOT-23-5	2.35	1.68	1.38
LTC1844ES5-2.5-ND	150mA, Micropower, Low Noise, VLDO™ Linear Reg.	SOT-23-5	2.35	1.68	1.38
LTC1844ES5-2.8-ND	150mA, Micropower, Low Noise, VLDO™ Linear Reg.	SOT-23-5	2.35	1.68	1.38
LTC1844ES5-3.3-ND	150mA, Micropower, Low Noise, VLDO™ Linear Reg.	SOT-23-5	2.35	1.68	1.38
LTC1844ES5-BYP-ND	150mA, Micropower, Low Noise, VLDO™ Linear Reg.	SOT-23-5	2.35	1.68	1.38
LTC1844ES5-SD-ND	150mA, Micropower, Low Noise, VLDO™ Linear Reg.	SOT-23-5	2.35	1.68	1.38
LTC1871EMS-ND	Current Mode Boost, Flyback, SEPIC Controller	10-MSOP	5.38	3.57	2.70
LTC1872BES6-ND	Constant Freq., Current Mode Step-Up DC/DC Controller	SOT-23-6	3.75	2.49	1.95
LTC1872ES6-ND	Constant Freq., Current Mode Step-Up DC/DC Controller	SOT-23-6	3.75	2.49	1.95
LTC1872ES6TR-ND	Constant Freq., Current Mode Step-Up DC/DC Controller	SOT-23-6		5000.00/2,500	
LTC1874EGN-ND	Dual Constant Frequency, Current Mode Step-Down DC/DC Controller	16-SSOP	6.75	4.49	3.38
LTC1875EGN-ND	1.5A Monolithic Sync. Step-Down Regulator	16-SSOP	7.00	4.65	3.57
LTC1877EMS8-ND	High Eff. Monolithic Sync. Step-Down Regulator	8-MSOP	6.13	4.07	3.07
LTC1878EMS8-ND	High Efficiency Monolithic Sync. Step-Down Regulator	8-MSOP	5.50	3.66	2.80
LTC1879EGN-ND	1.2A Synchronous Step-Down Regulator	16-SSOP	7.20	4.79	3.67
LTC3400BES6-ND	600mA, 1.2MHz Micropower Sync. Boost Converter	SOT-23-6	3.88	2.77	2.28
LTC3401EMS-ND	1A, 3MHz, Sync. Boost Step-Up DC/DC Converter	10-MSOP	5.50	3.66	2.75
LTC3400ES6-ND	600mA, 1.2MHz Micropower Sync. Boost Converter	SOT-23-6	3.88	2.58	1.99
LTC3404EMS8-ND	1.4MHz, Monolithic Sync. Step-Down Regulator	8-MSOP	5.75	3.82	2.88
LTC3405AES6-ND	1.5MHz, 300mA, Sync. Step-Down Regulator	SOT-23-6	3.23	2.30	1.90
LTC3405AES6-1.5-ND	1.5V, 1.5MHz, 300mA, Sync. Step-Down Regulator	SOT-23-6	3.23	2.30	1.90
LTC3405AES6-1.8-ND	1.8V, 1.5MHz, 300mA, Sync. Step-Down Regulator	SOT-23-6	3.23	2.30	1.90
LTC3405ES6-ND	1.5MHz, 300mA, High Eff. Sync. Step-Down Regulator	SOT-23-6	3.23	2.15	1.64
LTC3406BES5-ND	1.5MHz, 600mA, Sync. Step-Down Regulator	TSOT-23-5	3.90	2.79	2.29
LTC3406BES5-1.2-ND	1.5MHz, 600mA, Sync. Step-Down Regulator ***NEW!***	TSOT-23-5	3.90	2.79	2.29
LTC3406BES5-1.5-ND	1.5MHz, 600mA, Sync. Step-Down Regulator	TSOT-23-5	3.90	2.79	2.29
LTC3406BES5-1.8-ND	1.5MHz, 600mA, Sync. Step-Down Regulator	TSOT-23-5	3.90	2.79	2.29
LTC3406ES5-ND	Adj., 1.5MHz, 600mA, Sync. Step-Down Regulator	TSOT-23-5	3.90	2.79	2.29
LTC3406ES5-1.5-ND	1.5V, 1.5MHz, 600mA, Sync. Step-Down Regulator	TSOT-23-5	3.90	2.79	2.29
LTC3406ES5-1.8-ND	1.8V, 1.5MHz, 600mA, Sync. Step-Down Regulator	TSOT-23-5	3.90	2.79	2.29
LTC3411EDD-ND	1.25A, 4MHz, Sync. Step-Down DC/DC Converter	10-DFN	6.78	4.84	3.99

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LINEAR TECHNOLOGY — INTERFACE

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
RS232/RS562					
LTC1338CSW-ND	5V, 5 Driver/3 Receiver RS232 Transceiver	28-SOIC	9.38	6.25	5.25
LTC1347CNW-ND	5V, LP, RS232, 3 Driver/5 Receiver Transceiver	28-Dip	8.75	5.85	4.70
LTC1348CG-ND	3.3V/5V, LP, RS232, 3 Driver/5 Rcvr. Transceiver	28-SSOP	8.75	5.85	4.80
LTC1348CSW-ND	3.3V/5V, LP, RS232, 3 Driver/5 Rcvr. Transceiver	28-SOIC	8.13	5.45	4.50
LTC1348IG-ND	3.3V/5V, LP, RS232, 3 Driver/5 Rcvr. Transceiver	28-SSOP	10.13	6.75	5.80
LTC1348ISW-ND	3.3V/5V, LP, RS232, 3 Driver/5 Rcvr. Transceiver	28-SOIC	9.38	6.25	5.35
LTC1349CSW-ND	5V, LP, RS232 3 Driver/5 Receiver Transceiver	28-SOIC	8.75	5.85	4.70
LTC1349ISW-ND	5V, LP, RS232 3 Driver/5 Receiver Transceiver	28-SOIC	9.63	6.40	5.20
LTC1350CG-ND	3V, EIA/TIA-562, 3 Driver/5 Receiver Transceiver	28 SSOP	9.50	6.35	5.00
LTC1350IG-ND	3V, EIA/TIA-562, 3 Driver/5 Receiver Transceiver	28-SSOP	10.38	6.90	5.50
LTC1382CN-ND	5V, RS232, 2 Driver/2 Receiver Xcvr. w/Shutdown	18-Dip	6.50	4.35	3.40
LTC1382CSW-ND	5V, RS232, 2 Driver/2 Receiver Xcvr. w/Shutdown	18-SOIC	6.50	4.35	3.40
LTC1383CN-ND	5V, RS232, Low Power 2 Driver/2 Receiver Xcvr.	16-Dip	5.63	3.75	3.00
LTC1383CS-ND	5V, RS232, Low Power 2 Driver/2 Receiver Xcvr.	16-SOIC	5.63	3.75	3.00
LTC1383IS-ND	5V, RS232, Low Power 2 Driver/2 Receiver Xcvr.	16-SOIC	6.50	4.32	3.70
LTC1384CN-ND	5V, RS232, Low Power 2 Driver/2 Receiver Xcvr.	18-Dip	6.50	4.35	3.40
LTC1384CSW-ND	5V, RS232, Low Power 2 Driver/2 Receiver Xcvr.	18-SOIC	6.50	4.35	3.40
LTC1385CG-ND	3.3V, EIA/TIA-562, LP 2/Driver/2Rcvr. Transceiver	20-SSOP	7.25	4.85	3.85
LTC1385CN-ND	3.3V, EIA/TIA-562, LP 2/Driver/2Rcvr. Transceiver	18-Dip	6.50	4.35	3.40
LTC1385CSW-ND	3.3V, EIA/TIA-562, LP 2/Driver/2Rcvr. Transceiver	18-SOIC	6.50	4.35	3.40
LTC1386CS-ND	3.3V, EIA/TIA-562, LP 2/Driver/2Rcvr. Transceiver	16-SOIC	5.63	3.75	3.00
RS485/RS422					
LT1785AIN8-ND	60V, Fault Protected RS485/RS422 Transceiver	8-Dip	5.63	3.75	3.00
LT1785AIS8-ND	60V, Fault Protected RS485/RS422 Transceiver	8-SOIC	5.75	3.85	3.10
LT1785CN8-ND	60V, Fault Protected RS485/RS422 Transceiver	8-Dip	4.00	2.66	2.10
LT1785CS8-ND	60V, Fault Protected RS485/RS422 Transceiver	8-SOIC	4.13	2.74	2.15
LT1785IN8-ND	60V, Fault Protected RS485/RS422 Transceiver	8-Dip	4.63	3.08	2.40
LT1785IS8-ND	60V, Fault Protected RS485/RS422 Transceiver	8-SOIC	4.75	3.16	2.45
LT1791AIS-ND	60V, Fault Protected RS485/RS422 Transceiver	14-SOIC	6.38	4.25	3.40
LT1791CN-ND	60V, Fault Protected RS485/RS422 Transceiver	14-Dip	4.38	2.91	2.30
LT1791CS-ND	60V, Fault Protected RS485/RS422 Transceiver	14-SOIC	4.50	2.99	2.35
LT1791IS-ND	60V, Fault Protected RS485/RS422 Transceiver	8-SOIC	5.13	3.41	2.65
LTC485CN8-ND	Low Power RS485 Transceiver/Receiver Interface	8-Dip	2.50	1.66	1.35
LTC485CS8-ND	Low Power RS485 Transceiver/Receiver Interface	8-SOIC	3.13	2.10	1.70
LTC486CN-ND	Low Power Quad RS485 Driver	16-Dip	6.50	4.35	3.70
LTC486CSW-ND	Low Power Quad RS485 Driver	16-SOIC	7.50	5.00	4.25
LTC487CN-ND	Low Power Quad RS485 Driver	16-Dip	6.50	4.35	3.70
LTC487CSW-ND	Low Power Quad RS485 Driver	16-SOIC	7.50	5.00	4.25
LTC488CN-ND	Low Power Quad RS485 Receiver	16-Dip	6.50	4.33	3.70
LTC488CSW-ND	Low Power Quad RS485 Receiver	16-SOIC	7.50	5.00	4.25
LTC489CN-ND	Low Power Quad RS485 Receiver	16-Dip	6.50	4.33	3.70
LTC489CSW-ND	Low Power Quad RS485 Receiver	16-SOIC	7.50	5.00	4.25
LTC490CN8-ND	Low Power RS485 Transceiver/Receiver	8-Dip	4.38	2.92	2.50
LTC490CS8-ND	Low Power RS485 Transceiver/Receiver	8-SOIC	5.38	3.58	3.05
LTC490IS8-ND	Low Power RS485/RS422 Transceiver	8-SOIC	6.38	4.25	3.45
LTC491CN-ND	Low Power RS485 Transceiver/Receiver	14-Dip	4.88	3.25	2.80
LTC491CS-ND	Low Power RS485 Transceiver/Receiver	14-SOIC	5.88	3.92	3.25
LTC491IS-ND	Low Power RS485/RS422 Transceiver	14-SOIC	7.13	4.75	4.05
LTC1480CN8-ND	3.3V, Ultra Low Power RS485 Transceiver	8-Dip	4.75	3.16	2.65
LTC1480CS8-ND	3.3V, Ultra Low Power RS485 Transceiver	8-SOIC	5.13	3.41	2.75
LTC1480IS8-ND	3.3V, Ultra Low Power RS485 Transceiver, Ind. Temp.	8-SOIC	6.63	4.40	3.55
LTC1481CN8-ND	Ultra Low Power RS485 Transceiver w/Shutdown	8-Dip	2.75	1.85	1.45
LTC1481CS8-ND	Ultra Low Power RS485 Transceiver w/Shutdown	8-SOIC	3.38	2.25	1.80
LTC1481IS8-ND	Ultra Low Power RS485 Transceiver w/Shutdown	8-SOIC	4.38	2.91	2.40
LTC1482CMS8-ND	Low Power RS485 Transceiver with Carrier Detect and Receiver Fail Safe	8-MSOP	4.88	3.25	2.55
LTC1482CN8-ND	Low Power RS485 Transceiver with Carrier Detect and Receiver Fail Safe	8-Dip	4.00	2.66	2.10
LTC1482CS8-ND	Low Power RS485 Transceiver with Carrier Detect and Receiver Fail Safe	8-SOIC	4.13	2.75	2.15
LTC1483CN8-ND	Ultra Low Power, Low EMI RS485 Transceiver	8-Dip	2.75	1.85	1.55
LTC1483CS8-ND	Ultra Low Power, Low EMI RS485 Transceiver	8-SOIC	3.38	2.25	1.90
LTC1483IS8-ND	Ultra Low Power, Low EMI RS485 Transceiver	8-SOIC	4.38	2.91	2.40
LTC1484CMS8-ND	Low Power RS485 Transceiver w/Receiver Fail Safe	8-MSOP	4.25	2.85	2.20
LTC1484CN8-ND	Low Power RS485 Transceiver w/Receiver Fail Safe	8-Dip	3.38	2.25	1.75
LTC1484CS8-ND	Low Power RS485 Transceiver w/Receiver Fail Safe	8-SOIC	3.50	2.35	1.80
LTC1484IS8-ND	LP RS485 Transceiver w/Receiver Fail Safe, Ind. Temp.	8-SOIC	4.63	3.10	2.45
LTC1485CN8-ND	Differential Bus Transceiver	8-Dip	3.00	2.00	1.70
LTC1485CS8-ND	Differential Bus Transceiver	8-SOIC	3.38	2.25	1.90
LTC1487CN8-ND	Ultra Low Power RS485 Transceiver with Low EMI, Shutdown, High Input Impedance	8-Dip	2.75	1.85	1.55
LTC1487CS8-ND	Ultra Low Power RS485 Transceiver with Low EMI, Shutdown, High Input Impedance	8-SOIC	3.38	2.25	1.90
LTC1518CS-ND	High-Speed Precision Delay RS485 Quad Line Receiver	16-SOIC	10.13	6.73	5.80
LTC1518IS-ND	High-Speed Precision Delay RS485 Quad Line Receiver	16-SOIC	11.63	7.75	6.20
LTC1519CS-ND	High-Speed Precision Delay RS485 Quad Line Receiver	16-SOIC	10.13	6.75	5.80
LTC1519IS-ND	High-Speed Precision Delay RS485 Quad Line Receiver	16-SOIC	11.63	7.75	6.20
LTC1535ISW-ND	Isolated RS485 Transceiver	28-SOIC	12.75	8.47	6.50
LTC1685CS8-ND	52Mbps Precision Delay RS485 Fail-Safe Transceiver	8-SOIC	5.63	3.74	3.15
LTC1685IS8-ND	52Mbps Precision Delay RS485 Fail-Safe Transceiver	8-SOIC	6.50	4.32	3.40
LTC1686CS8-ND	52Mbps Precision Delay RS485 Fail-Safe Transceiver	8-SOIC	8.38	5.57	4.50
LTC1686IS8-ND	52Mbps Precision Delay RS485 Fail-Safe Transceiver	8-SOIC	9.63	6.40	5.00
LTC1687CS-ND	52Mbps Precision Delay RS485 Fail-Safe Transceiver	14-SOIC	8.38	5.57	4.50
LTC1687IS-ND	52Mbps Precision Delay RS485 Fail-Safe Transceiver	14-SOIC	9.63	6.40	5.00
LTC1688CS-ND	100Mbps RS485 Hot Swap Quad Driver	16-SOIC	10.13	6.73	5.25
LTC1688IS-ND	100Mbps RS485 Hot Swap Quad Driver, Ind. Temp.	16-SOIC	11.63	7.75	6.20
LTC1689CS-ND	100Mbps RS485 Hot Swap Quad Driver	16-SOIC	10.13	6.73	5.25
LTC1689IS-ND	100Mbps RS485 Hot Swap Quad Driver, Ind. Temp.	16-SOIC	11.63	7.75	6.20
LTC1690CS8-ND	Low Power Driver/Receiver with Fail-Safe Receiver Output	8-SOIC	3.50	2.35	1.80
CAN					
LT1796CN8-ND	Overvoltage Fault Protected CAN Transceiver	8-Dip	3.00	2.00	1.65
LT1796CS8-ND	Overvoltage Fault Protected CAN Transceiver	8-SOIC	3.00	2.00	1.65
Multiprotocol					
LTC1321CN-ND	RS485/RS232/EIA562 Transceiver/Receiver	24-Dip	8.75	5.85	4.65
LTC1321CSW-ND	RS485/RS232/EIA562 Transceiver/Receiver	24-SOIC	8.75	5.85	4.65
LTC1321ISW-ND	RS485/RS232/EIA562 Xcvr./Receiver, Ind. Temp.	24-SOIC	10.50	7.00	5.60
LTC1322CN-ND	RS485/RS232/EIA562 Transceiver/Receiver	24-Dip	10.00	6.65	5.35
LTC1322CSW-ND	RS485/RS232/EIA562 Transceiver/Receiver	24-SOIC	10.00	6.65	5.35
LTC1334CG-ND	CMOS 5V, RS232/RS485 Multiprotocol Transceiver	28-SSOP	13.00	8.64	7.45
LTC1334CNW-ND	CMOS 5V, RS232/RS485 Multiprotocol Transceiver	28-Dip	12.25	8.15	7.00
LTC1334CSW-ND	CMOS 5V, RS232/RS485 Multiprotocol Transceiver	28-SOIC	12.25	8.15	7.00
LTC1334ISW-ND	CMOS 5V, RS232/RS485 Multiprotocol Transceiver	28-SOIC	14.25	9.50	8.15
LTC1343CGW-ND	Software Selectable Multiprotocol Transceiver	44-SSOP	23.50	15.65	13.40
LTC1343IGW-ND	Software Selectable Multiprotocol Transceiver	44-SSOP	27.00	17.93	1
LTC1344ACG-ND	Multiprotocol Cable Terminator	24-SSOP	13.63	9.05	
LTC1344CG-ND	Multiprotocol Cable Terminator	24-SSOP	13.63	9.05	
LTC1344IG-ND	Multiprotocol Cable Terminator	24-SSOP	15.63	10.38	
LTC1345CNW-ND	Single Supply V.35 Differential Transceiver	28-Dip	13.88	9.25	
LTC1345CSW-ND	Single Supply V.35 Differential Transceiver	28-SOIC	14.38	9.60	
LTC1346ACSW-ND	10mbps DCE/DTE V.35 Transceiver	24-SOIC	12.38	8.25	
LTC1387CG-ND	5V, Single RS232/RS485 Transceiver	20-SSOP	9.13	6.10	
LTC1387CSW-ND	5V, Single RS232/RS485 Transceiver	20-SOIC	8.50	5.65	
LTC1387IG-ND	5V, Single RS232/RS485 Transceiver, Ind. Temp.	20-SSOP	10.50	7.00	
LTC1387ISW-ND	5V, Single RS232/RS485 Transceiver, Ind. Temp.	20-SOIC	9.75	6.50	
LTC1543CG-ND	Software Selectable Multiprotocol Transceiver	28-SSOP	14.88	9.88	
LTC1544CG-ND	Software Selectable Multiprotocol Transceiver	28-SSOP	12.25	8.14	
LTC1545CG-ND	Software Selectable Multiprotocol Transceiver	36-SSOP	14.38	9.55	
LTC2844CG-ND	3.3V Software Selectable Multiprotocol Transceiver	28-SSOP	11.88	7.89	
LTC2845CG-ND	3.3V Software Selectable Multiprotocol Transceiver	36-SSOP	13.88	9.22	
LTC2846CG-ND	3.3V Software Selectable Multiprotocol Transceiver	36-SSOP	23.75	16.96	1
I²C and SMBus					
LTC1694CS5-ND	Dual SMBus Accelerator	SOT-23-5	2.63	1.75	
LTC1694-1IS5-ND	SMBus/I²C Accelerator	SOT-23-5	3.13	2.08	
LTC4300-1CMS8-ND	Hot Swap 2-Wire Bus Buffer	8-MSOP	3.50	2.35	
LTC4300A-1CMS8-ND	Hot Swap 2-Wire Bus Buffer	8-MSOP	3.50	2.35	
LTC4302CMS-1-ND	Addressable 2-Wire Bus Buffer	10-MSOP	5.00	3.32	
LTC4302CMS-2-ND	Addressable 2-Wire Bus Buffer	10-MSOP	5.00	3.32	

LINEAR TECHNOLOGY — HIGH FREQUEN

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25
RF Power Control				
LTC1758-1EMS8-ND	250kHz Single Band RF Power Controller	8-MSOP	3.38	2.25
LTC1758-2EMS-ND	250kHz Dual Band RF Power Controller	10-MSOP	3.50	2.33
LTC1957-1EMS8-ND	Single-Band RF Power Controller with 40dB Range	8-MSOP	3.38	2.25
LTC1957-2EMS-ND	Dual-Band RF Power Controller with 40dB Range	10-MSOP	3.50	2.33
LTC4400-1ES6-ND	800MHz to 2.7GHz, RF Power Controller with 450kHz Loop BW and 45dB Dynamic Range	SOT-23-6	2.63	1.75
LTC4400-2EMS8-ND	800MHz to 2GHz, RF Power Controller with 450kHz Loop BW and 45dB Dynamic Range	8-MSOP	3.25	2.32
LTC4401-1ES6-ND	800MHz to 2.7GHz, RF Power Controller with 250kHz Loop BW and 45dB Dynamic Range	SOT-23-6	2.63	1.75
LTC4401-2EMS8-ND	800MHz to 2GHz, RF Power Controller with 250kHz Loop BW and 45dB Dynamic Range	8-MSOP	3.25	2.32
LTC5505-1ES5-ND	RF Power Detector with Buffered Output	SOT-23-5	2.38	1.58
LTC5505-2ES5-ND	RF Power Detector with Buffered Output	SOT-23-5	2.38	1.58
LTC5507ES6-ND	100kHz to 1GHz RF Power Detector	SOT-23-6	3.00	2.14
LTC5508ESC6-ND	300MHz to 7GHz RF Power Detector with Buffered Output	SC-70-6	2.88	2.05
LTC5532ES6-ND	300MHz to 7GHz Precision RF Power Detector	SOT-23-6	4.00	2.86
Wireless and Cable Infrastructure				
LT5511EFE-ND	High Signal Level Upconverting Mixer	16-TSSOP	7.38	5.27
LT5512EUF-ND	High Signal Level Down-Converting Mixer	16-PQFN	7.38	5.27
LT5522EUF-ND	600MHz to 2.7GHz, High Signal Level Down-Converting Mixer	16-PQFN	10.40	7.43
LT5525EUF-ND	High Linearity, Low Power Down-Converting Mixer ***NEW!***	16-QFN	7.60	5.43
Wireless Building Blocks				
LT5500EGN-ND	1.8 to 2.7GHz, Receiver Front End	24-SSOP	6.38	4.55
LT5502EGN-ND	400MHz Quadrature IF Modulator	24-SSOP	10.25	6.81
LT5503EFE-ND	1.2 to 2.7GHz, Direct IQ Modulator and Mixer	20-TSSOP	8.25	5.48
LT5504EMS8-ND	800MHz to 2.7GHz RF Measuring Receiver	8-MSOP	12.50	8.93
LT5506EUF-ND	Quadrature Demodulator with VGA	16-QFN	6.63	4.73

LINEAR TECHNOLOGY — SPECIALIZED

Digi-Key Part No.	Description	Pkg.	Price Each 1	25
LT1025ACN8-ND	Micropower Thermocouple Cold Junction Compensator	8-Dip	8.63	5.75
LT1025CN8-ND	Micropower Thermocouple Cold Junction Compensator	8-Dip	4.63	3.08
LT1203CN8-ND	2-Input, 150MHz Video Multiplexer	8-Dip	3.13	2.08
LT1203CS8-ND	2-Input, 150MHz Video Multiplexer	8-SOIC	3.38	2.25
LT1204CN-ND	4-In Video Multiplexer with 75MHz Current Feedback	16-Dip	9.00	6.00
LT1204CSW-ND	4-In Video Multiplexer with 75MHz Current Feedback	16-SOIC	9.75	6.50
LT1205CS-ND	4-Input, 150MHz, Dual Video Multiplexer	16-SOIC	5.38	3.57
LT1675CGN-ND	Triple, High Speed RGB Multiplexer	16-SSOP	6.63	4.40
LT1675CMS8-1-ND	Single, High Speed RGB Multiplexer	8-MSOP	4.50	2.99
LT1675CS8-1-ND	Single, High Speed RGB Multiplexer	8-SOIC	4.13	2.74
LTC1041CN8-ND	CMOS Bang-Bang Controller	8-Dip	3.38	2.25
LTC1043CN-ND	Dual, Precision Instr. Switched-Cap Building Block	18-Dip	5.13	3.42
LTC1043CSW-ND	Dual, Precision Instr. Switched-Cap Building Block	18-SOIC	5.63	3.75
LTC1045CN-ND	Prog. µpower Hex Translator/Receiver/Driver	20-Dip	5.25	3.50
LTC1045CSW-ND	Prog. µpower Hex Translator/Receiver/Driver	20-SOIC	8.25	5.50
LT1319CS-ND	Infrared Receiver Building Block	16-SOIC	7.25	4.83
LT1328CMS8-ND	4Mbps IrDA Infrared Receiver	8-MSOP	5.88	3.91
LTC1923EUH-ND	High Efficiency Thermoelectric Cooler Controller	32-QFN	39.30	28.07
LTK001ACN8-ND	Thermocouple Compen. IC and Amp Kit (.5°C Error)	8-Dip	18.88	12.60
LTK001CN8-ND	Thermocouple Compen. IC and Amp Kit (2°C Error)	8-Dip	9.88	6.60
LTKA00CN8-ND	Thermocouple Amplifier ("0" Polarity)	8-Dip	5.63	3.75
LTKA01CN8-ND	Thermocouple Amplifier ("1" Polarity)	8-Dip	5.63	3.75

Panasonic — ANALOG

Digi-Key Part No.	Description	Pkg.	Price Each 1	25
AN1101SSMTXLCT-ND	2.5V to 5.5V CMOS Single Power Supply	SSMINI-5	1.23	1.03
AN1101SSMTXLTR-ND	2.5V to 5.5V CMOS Single Power Supply	SSMINI-5		1596.00/3
AN1201SMTXLCT-ND	Polarity Inverting Charge Pump DC/DC Converter	SMINI-5	1.36	1.09
AN1201SMTXLTR-ND	Polarity Inverting Charge Pump DC/DC Converter	SMINI-5		2094.00/3
AN1281SSMTXLCT-ND	Ripple Filter	SSMINI-5	1.36	1.09
AN1281SSMTXLTR-ND	Ripple Filter	SSMINI-5		2094.00/3
AN6123MSTXLCT-ND	Speech Network with ALC	MINI-5	1.07	.89
AN6123MSTXLTR-ND	Speech Network with ALC	MINI-5		1386.00/3
AN8001FHKV-ND	Gradation Voltage Generation for Liquid Crystal Display	TQFP048	3.68	2.95
AN8495SBE1VCT-ND	Stepping Motor Drive	HSOP042	4.61	3.69

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Panasonic — VOLTAGE REGULATORS

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
8007-ND	7V, 50mA, Positive LDO Voltage Regulator	TO-92	.96	.81	.65
8008-ND	8V, 50mA, Positive LDO Voltage Regulator	TO-92	.96	.81	.65
8085-ND	8.5V, 50mA, Positive LDO Voltage Regulator	TO-92	.90	.75	.60
8009-ND	9V, 50mA, Positive LDO Voltage Regulator	TO-92	.96	.81	.65
8010-ND	10V, 50mA, Positive LDO Voltage Regulator	TO-92	.96	.81	.65
8002M-ND	2V, 50mA, Positive LDO Voltage Regulator	TO-243	1.06	.88	.71
8002M-E1TR-ND	2V, 50mA, Positive LDO Voltage Regulator	TO-243		468.00/1,000	
8025M-ND	2.5V, 50mA, Positive LDO Voltage Regulator	TO-243	1.06	.88	.71
8025M-E1TR-ND	2.5V, 50mA, Positive LDO Voltage Regulator	TO-243		468.00/1,000	
8003M-ND	3V, 50mA, Positive LDO Voltage Regulator	TO-243	1.06	.88	.71
8003M-E1TR-ND	3V, 50mA, Positive LDO Voltage Regulator	TO-243		468.00/1,000	
8004M-ND	4V, 50mA, Positive LDO Voltage Regulator	TO-243	1.06	.88	.71
8004M-E1TR-ND	4V, 50mA, Positive LDO Voltage Regulator	TO-243		468.00/1,000	
8045M-ND	4.5V, 50mA, Positive LDO Voltage Regulator	TO-243	1.06	.88	.71
8045M-E1TR-ND	4.5V, 50mA, Positive LDO Voltage Regulator	TO-243		468.00/1,000	
8005M-ND	5V, 50mA, Positive LDO Voltage Regulator	TO-243	1.06	.88	.71
8005M-E1TR-ND	5V, 50mA, Positive LDO Voltage Regulator	TO-243		468.00/1,000	
8006M-ND	6V, 50mA, Positive LDO Voltage Regulator	TO-243	1.06	.88	.71
8006M-E1TR-ND	6V, 50mA, Positive LDO Voltage Regulator	TO-243		468.00/1,000	
8007M-ND	7V, 50mA, Positive LDO Voltage Regulator	TO-243	1.06	.88	.71
8007M-E1TR-ND	7V, 50mA, Positive LDO Voltage Regulator	TO-243		468.00/1,000	
8008M-ND	8V, 50mA, Positive LDO Voltage Regulator	TO-243	1.06	.88	.71
8008M-E1TR-ND	8V, 50mA, Positive LDO Voltage Regulator	TO-243		468.00/1,000	
8085M-ND	8.5V, 50mA, Positive LDO Voltage Regulator	TO-243	1.06	.88	.71
8085M-E1TR-ND	8.5V, 50mA, Positive LDO Voltage Regulator	TO-243		468.00/1,000	
8009M-ND	9V, 50mA, Positive LDO Voltage Regulator	TO-243	1.06	.88	.71
8009M-E1TR-ND	9V, 50mA, Positive LDO Voltage Regulator	TO-243		468.00/1,000	
8010M-ND	10V, 50mA, Positive LDO Voltage Regulator	TO-243	1.06	.88	.71
8010M-E1TR-ND	10V, 50mA, Positive LDO Voltage Regulator	TO-243		468.00/1,000	
80L18RMS-ND	1.8V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1.47	1.23	.98
80L18RMSTXTR-ND	1.8V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D		1908.00/3,000	
80L19RMS-ND	1.9V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1.47	1.23	.98
80L20RMS-ND	2V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1.47	1.23	.98
80L20RMSTXTR-ND	2V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D		1908.00/3,000	
80L21RMS-ND	2.1V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1.47	1.23	.98
80L21RMSTXTR-ND	2.1V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D		1908.00/3,000	
80L22RMS-ND	2.2V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1.47	1.23	.98
80L22RMSTXTR-ND	2.2V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D		1908.00/3,000	
80L25RMS-ND	2.5V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1.47	1.23	.98
80L25RMSTXTR-ND	2.5V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D		1908.00/3,000	
80L28RMS-ND	2.8V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1.47	1.23	.98
80L28RMSTXTR-ND	2.8V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D		1908.00/3,000	
80L29RMS-ND	2.9V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1.47	1.23	.98
80L29RMSTXTR-ND	2.9V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D		1908.00/3,000	
80L30RMS-ND	3V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1.47	1.23	.98
80L30RMSTXTR-ND	3V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D		1908.00/3,000	
80L31RMS-ND	3.1V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1.47	1.23	.98
80L31RMSTXTR-ND	3.1V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D		1908.00/3,000	
80L32RMS-ND	3.2V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1.47	1.23	.98
80L32RMSTXTR-ND	3.2V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D		1908.00/3,000	
80L33RMS-ND	3.3V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1.47	1.23	.98
80L33RMSTXTR-ND	3.3V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D		1908.00/3,000	
80L34RMS-ND	3.4V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1.47	1.23	.98
80L34RMSTXTR-ND	3.4V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D		1908.00/3,000	
80L35RMS-ND	3.5V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1.47	1.23	.98
80L35RMSTXTR-ND	3.5V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D		1908.00/3,000	
80L36RMS-ND	3.6V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1.47	1.23	.98
80L36RMSTXTR-ND	3.6V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D		1908.00/3,000	
80L48RMS-ND	4.8V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1.47	1.23	.98
80L48RMSTXTR-ND	4.8V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D		1908.00/3,000	
80L49RMS-ND	4.9V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1.47	1.23	.98
80L49RMSTXTR-ND	4.9V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D		1908.00/3,000	
80L50RMS-ND	5V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1.47	1.23	.98
80L50RMSTXTR-ND	5V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D		1908.00/3,000	
80L51RMS-ND	5.1V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1.47	1.23	.98
80L51RMSTXTR-ND	5.1V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D		1908.00/3,000	
80L52RMS-ND	5.2V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1.47	1.23	.98
80L52RMSTXTR-ND	5.2V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D		1908.00/3,000	
80M27RSP-ND	2.7V, 500mA, with On-Off, Low Power Loss, Positive Voltage Regulator	SP5SU	2.33	1.87	1.40
80M27RSPTXTR-ND	2.7V, 500mA, with On-Off, Low Power Loss, Positive Voltage Regulator	SP5SU		3579.00/3,000	
1431M-ND	2.5-36V, Positive Variable Output Shunt Regulator	TO-243	.87	.73	.58
1431M-E1TR-ND	2.5-36V, Positive Variable Output Shunt Regulator	TO-243		386.00/1,000	
1431T-ND	2.5-36V, Positive Variable Output Shunt Regulator	TO-92	.87	.73	.58
1433SSMTXLCT-ND	7-14V, Positive, Variable Output Shunt Regulator	SSMINI5D	1.07	.90	.72
1433SSMTXLTR-ND	7-14V, Positive, Variable Output Shunt Regulator	SSMINI5D		1395.00/3,000	

JRC / NJR Corporation — AMPLIFIERS

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
G1101F-TE1CT-ND	Wideband AGC Amp, GaAs MMIC	6-MTP	2.31	1.93	1.54
G1101F-TE1TR-ND	Wideband AGC Amp, GaAs MMIC	6-MTP		4042.50/3,000	
G1103F1-TE1CT-ND	1.5/1.9GHz Low Noise Amp, GaAs MMIC	6-MTP	.93	.78	.62
G1103F1-TE1TR-ND	1.5/1.9GHz Low Noise Amp, GaAs MMIC	6-MTP		1627.50/3,000	
G1105F-TE1CT-ND	1.8/1.9/2.1GHz Band Low Noise Amp, GaAs MMIC	6-MTP	2.73	2.28	1.82
G1105F-TE1TR-ND	1.8/1.9/2.1GHz Band Low Noise Amp, GaAs MMIC	6-MTP		4777.50/3,000	
G1302V-TE1CT-ND	Medium Power Amp, GaAs MMIC	14-SSOP	6.30	5.25	4.20
G1302V-TE1TR-ND	Medium Power Amp, GaAs MMIC	14-SSOP		7350.00/2,000	
G1307R-TE1CT-ND	Driver Amp, GaAs MMIC	8-VSP	2.94	2.45	1.96
G1307R-TE1TR-ND	Driver Amp, GaAs MMIC	8-VSP		3430.00/2,000	
M064D-ND	J-Fet Input Op Amp	14-Dip	.93	.78	.62
M072BD-ND	Dual J-Fet Input Op Amp	8-Dip	.51	.43	.34
M072D-ND	Dual J-Fet Input Op Amp	8-Dip	.45	.38	.30
M072M-ND	Dual J-Fet Input Op Amp	8-DMP	.54	.45	.36
M074D-ND	Quad J-Fet Input Op Amp	14-Dip	1.05	.88	.70
M074M-ND	Quad J-Fet Input Op Amp	14-DMP	1.05	.88	.70
M082D-ND	Dual J-Fet Input Op Amp	8-Dip	.48	.40	.32
M082M-ND	Dual J-Fet Input Op Amp	8-DMP	1.02	.85	.68
M084D-ND	Quad J-Fet Input Op Amp	14-Dip	1.17	.98	.78
M318D-ND	High Speed Op Amp	8-Dip	.54	.45	.36
NJM319D-ND	Precision, High Speed, Dual Voltage Comparator	14-Dip	1.05	.88	.70
NJM#319M-ND	Precision, High Speed, Dual Voltage Comparator*	14-DMP	1.05	.88	.70
NJM592D-ND	Video Amplifier	14-Dip	.60	.50	.40
NJM592D8-ND	Video Amplifier	8-Dip	.39	.33	.26
NJM592M8-ND	Video Amplifier	8-DMP	.36	.30	.24
NJM2059D-ND	Quad Op Amp	14-Dip	.72	.60	.48
NJM2059M-ND	Quad Op Amp	14-DMP	.60	.50	.40
NJM2060D-ND	High-Gain, Wide-Bandwidth, Quad Op Amp	14-Dip	.60	.50	.40
NJM2060M-ND	High-Gain, Wide-Bandwidth, Quad Op Amp	14-DMP	.63	.53	.42
NJM2068D-ND	Low-Noise Dual Op Amp	8-Dip	.39	.33	.26
NJM2068M-ND	Low-Noise Dual Op Amp	8-DMP	.45	.38	.30
NJM2070D-ND	Low Voltage Power Amp	8-Dip	.84	.70	.56
NJM#2073D-ND	Dual Low Voltage Power Amp*	8-Dip	.84	.70	.56
NJM#2073M-ND	Dual Low Voltage Power Amp*	8-DMP	.84	.70	.56
NJM2076D-ND	Dual Low Voltage Power Amp	8-Dip	1.38	1.15	.92
NJM2076M-ND	Dual Low Voltage Power Amp	8-DMP	1.38	1.15	.92
NJM#2082D-ND	Dual J-Fet Input Op Amp*	8-Dip	.54	.45	.36
NJM2082M-ND	Dual J-Fet Input Op Amp	8-DMP	.51	.43	.34
NJM#2100D-ND	Dual Op Amp*	8-Dip	.60	.50	.40
NJM2113D-ND	Low Voltage Audio Power Amp	8-Dip	.66	.55	.44
NJM#2113M-ND	Low Voltage Audio Power Amp*	8-DMP	.51	.43	.34
NJM#2119M-ND	Dual Single Supply Op Amp*	8-DMP	1.14	.95	.76
NJM2120D-ND	Op Amp, 2-Input/1-Output Analog Switch	8-Dip	.66	.55	.44
NJM2120M-ND	Op Amp, 2-Input/1-Output Analog Switch	8-DMP	.66	.55	.44
NJM2121D-ND	Dual Op Amp, 2-Input/1-Output Analog Switch	8-Dip	.54	.45	.36
NJM2121M-ND	Dual Op Amp, 2-Input/1-Output Analog Switch	8-DMP	.54	.45	.36
NJM2122D-ND	Ultra Low Noise Dual Op Amp	8-Dip	1.17	.98	.78
NJM2122M-ND	Ultra Low Noise Dual Op Amp	8-DMP	1.08	.90	.72
NJM2123D-ND	Dual Op Amp, 2-Input/1-Output Analog Switch	16-Dip	1.56	1.30	1.04
NJM#2125F-TE1CT-ND	Single Supply Op Amp*	5-MTP	.63	.53	.42
NJM#2125F-TE1TR-ND	Single Supply Op Amp*	5-MTP		1102.50/3,000	
NJM2132D-ND	Single Supply Low Power Dual Op Amp	8-Dip	60	50	.40
NJM2132M-ND	Single Supply Low Power Dual Op Amp	8-DMP	60	50	.40
NJM2135D-ND	Low Voltage Audio Power Amp	8-Dip	63	53	.42
NJM2135M-ND	Low Voltage Audio Power Amp	8-DMP	48	40	.32
NJM2135M-TE2CT-ND	Low Voltage Audio Power Amp	8-DMP	63	53	.42
NJM2135M-TE2TR-ND	Low Voltage Audio Power Amp	8-DMP		735.00/2,000	
NJM2136M-ND	Ultra Wideband, High Slew Rate, Single Op Amp	8-DMP	1.50	1.25	1.00
NJM2137M-ND	Ultra Wideband, High Slew Rate, Dual Op Amp	8-DMP	1.26	1.05	.84
NJM2138M-ND	Ultra Wideband, High Slew Rate, Quad Op Amp	14-DMP	2.52	2.10	1.68
NJM#2140R-TE1CT-ND	Low Saturation Dual Op Amp*	8-VSP	63	53	.42
NJM#2140R-TE1TR-ND	Low Saturation Dual Op Amp*	8-VSP		735.00/2,000	
NJM#2143R-TE1CT-ND	Single Supply Dual Op Amp*	8-VSP	45	38	.30
NJM#2143R-TE1TR-ND	Single Supply Dual Op Amp*	8-VSP		525.00/2,000	
NJM2149D-ND	Low Voltage Audio Power Amp	8-Dip	87	73	.58
NJM#2149M-ND	Low Voltage Audio Power Amp*	8-DMP	.87	.73	.58
NJM2171AR-TE1CT-ND	Low Voltage Headphone Amp for Portable Audio	10-VSP	90	75	.60
NJM2171AR-TE1TR-ND	Low Voltage Headphone Amp for Portable Audio	10-VSP		1050.00/2,000	
NJM#2172V-TE1CT-ND	Op Amp with Electric Variable Resistor*	14-SSOP	1.86	1.55	1.24
NJM#2172V-TE1TR-ND	Op Amp with Electric Variable Resistor*	14-SSOP		2170.00/2,000	
NJM2174V-TE2CT-ND	Audio Line Amp with Mute Function	14-SSOP	1.47	1.23	.98
NJM2174V-TE2TR-ND	Audio Line Amp with Mute Function	14-SSOP		1715.00/2,000	
NJM2204AD-ND	Integrated IF Limiting Amp	16-Dip	2.52	2.10	1.68
NJM2267D-ND	Dual Video 6dB Amp with 75Ω Driver	8-Dip	.69	.58	.46
NJM#2267M-ND	Dual Video 6dB Amp with 75Ω Driver*	8-DMP	.63	.53	.42
NJM2268D-ND	Dual Video 6dB Amplifier	8-Dip	.93	.78	.62
NJM2268M-ND	Dual Video 6dB Amplifier	8-DMP	.57	.48	.38
NJM2274R-TE1CT-ND	Low Power Video Amp with Y-C Mixer	8-VSP	1.47	1.23	.98
NJM2274R-TE1TR-ND	Low Power Video Amp with Y-C Mixer	8-VSP		1715.00/2,000	
NJM2403D-ND	Single Supply Dual Comparator	8-Dip	.54	.45	.36
NJM#2406F-TE1CT-ND	Single Comparator*	5-MTP	.42	.35	.28
NJM#2406F-TE1TR-ND	Single Comparator*	5-MTP		735.00/3,000	
NJM#2407R-TE1CT-ND	Single Supply Dual Comparator*	8-VSP	45	38	.30
NJM#2407R-TE1TR-ND	Single Supply Dual Comparator*	8-VSP		525.00/2,000	
NJM2538V-TE1CT-ND	Video Amp with 75Ω Driver	20-SSOP	2.94	2.45	1.96
NJM2538V-TE1TR-ND	Video Amp with 75Ω Driver	20-SSOP		3430.00/2,000	
NJM#2574RB1-TE1CT-ND	Low Voltage Video Amp with LPF*	8-TVSP	2.31	1.93	1.54
NJM#2574RB1-TE1TR-ND	Low Voltage Video Amp with LPF*	8-TVSP		2695.00/2,000	
NJM#2575F1-TE1CT-ND	Low Voltage Video Amp with LPF*	6-MTP	84	70	.56
NJM#2575F1-TE1TR-ND	Low Voltage Video Amp with LPF*	6-MTP		1470.00/3,000	
NJM#2576RB1-TE1CT-ND	Low Voltage Video Amp with LPF*	8-TVSP	1.17	.98	.78
NJM#2576RB1-TE1TR-ND	Low Voltage Video Amp with LPF*	8-TVSP		1365.00/2,000	
NJM2580D-ND	Single Supply Wideband 3-Channel Video Amp	14-Dip	2.52	2.10	1.68
NJM2580M-ND	Single Supply Wideband 3-Channel Video Amp	14-DMP	2.40	2.00	1.60
NJM2710V-TE1CT-ND	Ultra High Speed Hex Op Amp	20-SSOP	2.43	2.03	1.62
NJM2710V-TE1TR-ND	Ultra High Speed Hex Op Amp	20-SSOP		2835.00/2,000	
NJM#2711F-TE1CT-ND	Ultra High Speed Single Op Amp*	5-MTP	2.43	2.03	1.62
NJM#2711F-TE1TR-ND	Ultra High Speed Single Op Amp*	5-MTP		4252.50/3,000	
NJM2716F-TE1CT-ND	Single Supply Hi-Slew Rate Single Op Amp	5-MTP	1.26	1.05	.84
NJM2716F-TE1TR-ND	Single Supply Hi-Slew Rate Single Op Amp	5-MTP		2205.00/3,000	
NJM#2730F-TE1CT-ND	Low Supply Voltage Single Op Amp*	5-MTP	.84	.70	.56
NJM#2730F-TE1TR-ND	Low Supply Voltage Single Op Amp*	5-MTP		1470.00/3,000	
NJM2732M-ND	Full-Swing Input and Output Type Dual Op Amp	8-DMP	2.10	1.75	1.40
NJM#2732RB1-TE1CT-ND	Full-Swing Input and Output Type Dual Op Amp*	8-TVSP	2.10	1.75	1.40
NJM#2732RB1-TE1TR-ND	Full-Swing Input and Output Type Dual Op Amp*	8-TVSP		2450.00/2,000	
NJM2737D-ND	Low Noise, Low Supply Voltage Dual Op Amp	8-Dip	2.31	1.93	1.54
NJM2737RB1-TE1CT-ND	Low Noise, Low Supply Voltage Dual Op Amp	8-TVSP	2.31	1.93	1.54
NJM2737RB1-TE1TR-ND	Low Noise, Low Supply Voltage Dual Op Amp	8-TVSP		2695.00/2,000	
NJM2770RB1-TE1CT-ND	High Power and Low Voltage Audio Power Amp	8-TVSP	1.20	1.00	.80
NJM2770RB1-TE1TR-ND	High Power and Low Voltage Audio Power Amp	8-TVSP		1400.00/2,000	
NJM2772V-TE1CT-ND	Low Voltage Headphone Amp for Portable Audio	14-SSOP	1.35	1.13	.90
NJM2772V-TE1TR-ND	Low Voltage Headphone Amp for Portable Audio	14-SSOP		1575.00/2,000	
NJM2904D-ND	Single Supply Dual Op Amp	8-Dip	36	30	.24
NJM2904M-ND	Single Supply Dual Op Amp	8-DMP	39	33	.26
NJM#4556AD-ND	Dual High Current Op Amp*	8-Dip	48	40	.32
NJM4556AM-ND	Dual High Current Op Amp	8-DMP	48	40	.32
NJM#4558D-ND	Dual Op Amp*	8-Dip	36	30	.24
NJM#4558M-ND	Dual Op Amp*	8-DMP	27	23	.18
NJM4559D-ND	Dual High Gain Op Amp	8-Dip	42	35	.28
NJM4559M-ND	Dual High Gain Op Amp	8-DMP	42	35	.28
NJM#4560D-ND	High Gain, Wide-Bandwidth, Dual Op Amp*	8-Dip	39	33	.26
NJM4560M-ND	High Gain, Wide-Bandwidth, Dual Op Amp	8-DMP	42	35	.28
NJM4562D-ND	High Gain, Wide-Bandwidth, Low Noise, Dual Op Amp	8-Dip	48	40	.32
NJM4562M-ND	High Gain, Wide-Bandwidth, Low Noise, Dual Op Amp	8-DMP	51	43	.34
NJM#4565D-ND	High Gain, Wide-Bandwidth, Low Noise, Dual Op Amp*	8-Dip	36	30	.24

* Lead Free/RoHS Compliant

(Continued)

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

JRC
NJR CORPORATION

The Analog IC Solution Company

B

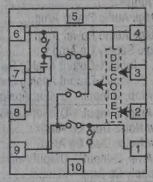
Wireless LAN DPDT GaAS MMIC Switches

IEEE802.11 a/b/g GaAs MMIC Switches

Features:
- Low Voltage Operation
- Low Current Consumption
- Low Insertion Loss
- High Isolation
- Ultra Small and Ultra Thin Package

Application:
- Wireless LAN

NJG1544HC3 Pin Configuration



1. ANT1
2. CTL1
3. CTL2
4. ANT2
5. GND
6. TX
7. GND
8. VDD
9. RX
10. GND

NJR Part No.	Function	Application
NJG1544HC3	2x2 Antenna Switch	IEEE802.11 b/g
NJG1617K11	DPDT Switch	IEEE802.11 a/b/g
NJG1617HE3	DPDT Switch	IEEE802.11 a/b/g

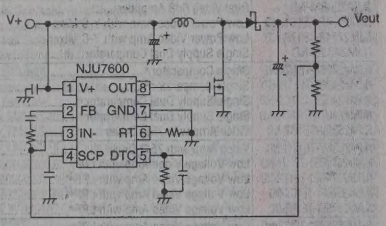
Switching Regulator

NJU7600 is a high speed low voltage operation switching regulator control IC. It features a totem pole driver that can directly drive an external MOS-FET. Internal soft-start function, dead time control and timer latch function are included, requiring no external components. All parameters can be optimized by additional external components for design flexibility.

Features:
- 2.2V to 8V Operating Voltage
- 800µA (typ.) Consumption Current
- High Efficiency n=80 to 90%
- Switching Frequency 300kHz to 1MHz
- Evaluation Board Available

Applications:
- All Mobile Products
- LCD Power Modules

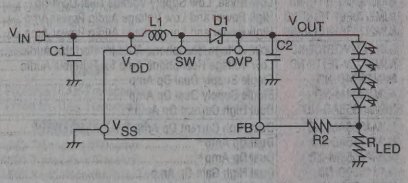
Boost Application
(V_{+}=3.3V, V_{OUT}=9V, I_{OUT}=150mA (typ.))



NJR Part No.	Package
NJU7600M	8-DMP
NJU7600RB1	8-TVSP

High Efficiency White LED Driver

Features:
- Drives up to 4 White LEDs in Series I_{OUT} = 20mA (typical)
- Uses small inductor and capacitors
- 1.7V to 6.5V Operating Voltage for Step-Up Circuits
- Low switch Rds (ON)
- Over Voltage Protection
- SOT-23-5 Package



Digi-Key Part No.	Description
NJU6048F-TE1CT-ND	White LED Driver

Audio Limiter

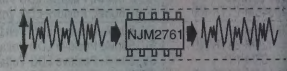
The NJM2761 is the audio limiter for speaker protection. The limit level is adjustable external resistor. It is suitable for PC, portable audio and others.

Features:
- 2.7V to 13V Operating Voltage
- Limit Level 0.2 to 1Vrms
- Output Noise -90dBV
- Bipolar Technology
- TVSP10 Package

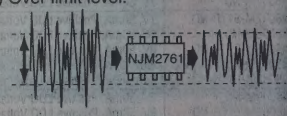
Applications:
- LCD Monitor
- Notebook PC
- DVD Player
- Small Speaker System

Function:
- Audio Limiter for speaker protection

1) Under limit level!



2) Over limit level!



Optimize the Signal level and keep the wave shape

Low Dropout Regulators

Features:
- Maximum Output Current: 800mA • Low Dropout Voltage: 0.18V (typ.) • High Precis Output: ±1.0% • High Ripple Rejection: 75dB (typ.) • Low Noise Voltage: 45µVrms • L Quiescent Current: 200µA

Applications:
- DVD Player • Car Audio • TV • Printer

Comparison NJM2845/46 vs. xx1117

	NJM2845/46	xx1117
Dropout Voltage	0.18V (typ.)	1.1V (typ.)
Quiescent Current	200µA	5mA
Output Capacitor	2.2µF Ceramic	10µF Tantalum
Output Voltage Range	1.8V to 5.0V	1.2V to 5.0V and Adj.

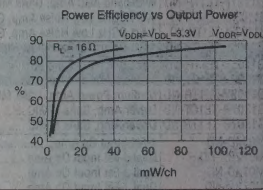
NJR Part No.	Voltage	Package
NJM2845DL1-18	1.8	TO252-3
NJM2845DL1-23	2.3	TO252-3
NJM2845DL1-25	2.5	TO252-3
NJM2845DL1-03	3.0	TO252-3
NJM2845DL1-33	3.3	TO252-3
NJM2845DL1-05	5.0	TO252-3
NJM2846DL2-18	1.8	TO252-5
NJM2846DL2-23	2.3	TO252-5
NJM2846DL2-25	2.5	TO252-5
NJM2846DL2-03	3.0	TO252-5
NJM2846DL2-33	3.3	TO252-5
NJM2846DL2-05	5.0	TO252-5

Class-D Amplifiers for Digital Audio

The NJU8721 and the NJU8725 provide the complete digital solution including digital audio data I/F, 8fs over sampling digital filter, and the 6th ΔΣmodulator. They convert serial digital source such as world's standard I²S format into 1 bit PWM signal, and end up with converting into analog signal via external filters.

Applications:
- Hand held components • MP3 Players • PDAs

Typical Performance of NJU872



Digi-Key Part No.	Description	Package
NJU8721V-TE1CT-ND	Stereo Headphone Amp	20-SSOP
NJU8725V-TE1CT-ND	Class-D Power Amp	24-SSOP

For information on new NJR products, as well as datasheets, please visit http://www.njr.com

More Product Available Online: www.digikey.com
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JRC / NJR Corporation — AMPLIFIERS *(Continued)*

-Key No.	Description	Pkg.	Price Each★ 1	25	100
14565M-ND	High Gain, Wide-Bandwidth, Low Noise, Dual Op Amp	8-DMP	.36	.30	.24
#4580D-ND	Noiseless, High Gain Bandwidth, Dual Op Amp*	8-Dip	.45	.38	.30
#4580E-ND	Noiseless, High Gain Bandwidth, Dual Op Amp*	8-EMP	.45	.38	.30
14741D-ND	General Purpose Quad Op Amp	14-Dip	.87	.73	.58
14741M-ND	General Purpose Quad Op Amp	14-DMP	1.44	1.20	.96
5532D-ND	High Performance Low Noise Dual Op Amp	8-Dip	.90	.75	.60
5532M-ND	High Performance Low Noise Dual Op Amp	8-DMP	.75	.63	.50
5534D-ND	High Performance Low Noise Op Amp	8-Dip	.48	.40	.32
5534M-ND	High Performance Low Noise Op Amp	8-DMP	.48	.40	.32
12901M-ND	Single Supply Quad Comparator	14-DMP	.75	.63	.50
12902M-ND	Single Supply Quad Op Amp	14-DMP	.81	.68	.54
12903D-ND	Single Supply Dual Comparator	8-Dip	.39	.33	.26
12903M-ND	Single Supply Dual Comparator	8-DMP	.39	.33	.26
12904D-ND	Single Supply Dual Amp	8-Dip	.39	.33	.26
12904M-ND	Single Supply Dual Amp	8-DMP	.39	.33	.26
#12904M-TE1CT-ND	Single Supply Dual Amp*	8-DMP	.39	.33	.26
#12904M-TE1TR-ND	Single Supply Dual Amp*	8-DMP		455.00/2,000	
#13403M-ND	Single Supply Quad Op Amp*	14-DMP	.96	.80	.64
13404D-ND	Single Supply Dual Op Amp	8-Dip	.66	.55	.44
13404M-ND	Single Supply Dual Op Amp	8-DMP	.66	.55	.44
13600D-ND	Dual Op Transconductance Amp	16-Dip	.81	.68	.54
13600M-ND	Dual Op Transconductance Amp	16-DMP	.81	.68	.54
13700D-ND	Dual Op Transconductance Amp	16-Dip	.99	.83	.66
13700M-ND	Dual Op Transconductance Amp	16-DMP	.81	.68	.54
#14558D-ND	Dual Op Amp*	8-Dip	.51	.43	.34
14558M-ND	Dual Op Amp	8-DMP	.51	.43	.34
OP-07D-ND	Low Offset Voltage, Low Drift Op Amp	8-Dip	.99	.83	.66
OP-07M-ND	Low Offset Voltage, Low Drift Op Amp	8-DMP	1.11	.93	.74
7001D-ND	Low Voltage CMOS Op Amp	8-Dip	.72	.60	.48
7001M-ND	Low Voltage CMOS Op Amp	8-DMP	.69	.58	.46
7002D-ND	Dual Low Voltage CMOS Op Amp	8-Dip	1.02	.85	.68
7002M-ND	Dual Low Voltage CMOS Op Amp	8-DMP	1.02	.85	.68
7004D-ND	Quad Low Voltage CMOS Op Amp	14-Dip	2.01	1.68	1.34
7004M-ND	Quad Low Voltage CMOS Op Amp	14-DMP	2.01	1.68	1.34
7006F-TE1CT-ND	Super Low Operating Current and Low Offset Voltage, Tiny Single CMOS Op Amp	5-MTP	1.86	1.55	1.24
7006F-TE1TR-ND	Super Low Operating Current and Low Offset Voltage, Tiny Single CMOS Op Amp	5-MTP		3255.00/3,000	
7007F3-TE1CT-ND	Low Power, Low Offset Voltage Super Small Sized Single CMOS Op Amp	SC88A	.84	.70	.56
7007F3-TE1TR-ND	Low Power, Low Offset Voltage Super Small Sized Single CMOS Op Amp	SC88A		1470.00/3,000	
7008F3-TE1CT-ND	Low Power, Low Offset Voltage Super Small Sized Single CMOS Op Amp	SC88A	.84	.70	.56
7008F3-TE1TR-ND	Low Power, Low Offset Voltage Super Small Sized Single CMOS Op Amp	SC88A		1470.00/3,000	
7011F-TE1CT-ND	Low Power Tiny Single CMOS Op Amp	5-MTP	.54	.45	.36
7011F-TE1TR-ND	Low Power Tiny Single CMOS Op Amp	5-MTP		945.00/3,000	
7014D-ND	Low Power Dual CMOS Op Amp	8-Dip	1.17	.98	.78
7014M-ND	Low Power Dual CMOS Op Amp	8-DMP	1.17	.98	.78
7015D-ND	Low Power Dual CMOS Op Amp	8-Dip	1.17	.98	.78
7015M-ND	Low Power Dual CMOS Op Amp	8-DMP	1.17	.98	.78
7016D-ND	Low Power Dual CMOS Op Amp	8-Dip	1.20	1.00	.80
7016M-ND	Low Power Dual CMOS Op Amp	8-DMP	.66	.55	.44
7021D-ND	Single Low Voltage CMOS Op Amp	8-Dip	1.38	1.15	.92
7021M-ND	Single Low Voltage CMOS Op Amp	8-DMP	.72	.60	.48
7022D-ND	Dual Low Voltage CMOS Op Amp	8-Dip	.87	.73	.58
7022M-ND	Dual Low Voltage CMOS Op Amp	8-DMP	1.29	1.08	.86
7024D-ND	Quad Low Voltage CMOS Op Amp	14-Dip	2.13	1.78	1.42
7024M-ND	Quad Low Voltage CMOS Op Amp	14-DMP	2.25	1.88	1.50
7031D-ND	Low Voltage CMOS Op Amp	8-Dip	.75	.63	.50
7031M-ND	Low Voltage CMOS Op Amp	8-DMP	.75	.63	.50
7032D-ND	Dual Low Voltage CMOS Op Amp	8-Dip	.93	.78	.62
#7032M-ND	Dual Low Voltage CMOS Op Amp*	8-DMP	.93	.78	.62
7034D-ND	Quad Low Voltage CMOS Op Amp	14-Dip	1.71	1.43	1.14
7034M-ND	Quad Low Voltage CMOS Op Amp	14-DMP	1.47	1.23	.98
7051D-ND	Low Input Offset Voltage CMOS Op Amp	8-Dip	1.38	1.15	.92
7051M-ND	Low Input Offset Voltage CMOS Op Amp	8-DMP	1.05	.88	.70
7054D-ND	Low Input Offset Voltage CMOS Op Amp	14-Dip	1.53	1.28	1.02
7054M-ND	Quad Low Input Offset Voltage CMOS Op Amp	14-DMP	1.47	1.23	.98
7061D-ND	Single Low Input Offset Voltage CMOS Op Amp	8-Dip	1.02	.85	.68
7061M-ND	Single Low Input Offset Voltage CMOS Op Amp	8-DMP	1.02	.85	.68
7062D-ND	Dual Low Input Offset Voltage CMOS Op Amp	8-Dip	.99	.83	.66
7062M-ND	Dual Low Input Offset Voltage CMOS Op Amp	8-DMP	1.26	1.05	.84
7072D-ND	Dual Low Input Offset Voltage CMOS Op Amp	8-Dip	1.68	1.40	1.12
7072M-ND	Dual Low Input Offset Voltage CMOS Op Amp	8-DMP	1.68	1.40	1.12
7074D-ND	Quad Low Input Offset Voltage CMOS Op Amp	14-Dip	2.73	2.28	1.82
7074M-ND	Quad Low Input Offset Voltage CMOS Op Amp	14-DMP	2.10	1.75	1.40
7081R-TE1CT-ND	Single Low Voltage CMOS Power Amp	8-VSP	.63	.53	.42
7081R-TE1TR-ND	Single Low Voltage CMOS Power Amp	8-VSP		735.00/2,000	
7082BV-TE1CT-ND	Dual Low Voltage CMOS Power Amp	8-SSOP	.72	.60	.48
7082BV-TE1TR-ND	Dual Low Voltage CMOS Power Amp	8-SSOP		840.00/2,000	
7091AF-TE1CT-ND	Low Power/Low Offset Voltage Tiny Single CMOS Op Amp	5-MTP	.51	.43	.34
7091AF-TE1TR-ND	Low Power/Low Offset Voltage Tiny Single CMOS Op Amp	5-MTP		892.50/3,000	
7092AF-TE1CT-ND	Low Power/Low Offset Voltage Tiny Single CMOS Op Amp	5-MTP	.39	.33	.26
7092AF-TE1TR-ND	Low Power/Low Offset Voltage Tiny Single CMOS Op Amp	5-MTP		682.50/3,000	
7093AF-TE1CT-ND	Low Power/Low Offset Voltage Tiny Single CMOS Op Amp*	5-MTP	.96	.80	.64
7093AF-TE1TR-ND	Low Power/Low Offset Voltage Tiny Single CMOS Op Amp*	5-MTP		1680.00/3,000	
7094D-ND	Low Power/Low Offset Voltage Dual CMOS Op Amp	8-Dip	1.32	1.10	.88
7094M-ND	Low Power/Low Offset Voltage Dual CMOS Op Amp	8-DMP	1.32	1.10	.88
7094R-TE1CT-ND	Low Power/Low Offset Voltage Dual CMOS Op Amp	8-VSP	2.73	2.28	1.82
7094R-TE1TR-ND	Low Power/Low Offset Voltage Dual CMOS Op Amp	8-VSP		3185.00/2,000	
7094RB1-TE1CT-ND	Low Power/Low Offset Voltage Dual CMOS Op Amp*	8-TVSP	2.73	2.28	1.82
7094RB1-TE1TR-ND	Low Power/Low Offset Voltage Dual CMOS Op Amp*	8-TVSP		3185.00/2,000	
7094V-TE1CT-ND	Low Power/Low Offset Voltage Dual CMOS Op Amp	8-SSOP	1.47	1.23	.98
7094V-TE1TR-ND	Low Power/Low Offset Voltage Dual CMOS Op Amp	8-SSOP		1715.00/2,000	
7095D-ND	Low Power/Low Offset Voltage Dual CMOS Op Amp	8-Dip	1.26	1.05	.84
7095M-ND	Low Power/Low Offset Voltage Dual CMOS Op Amp	8-DMP	1.26	1.05	.84
7095R-TE1CT-ND	Low Power/Low Offset Voltage Dual CMOS Op Amp	8-VSP	2.73	2.28	1.82
7095R-TE1TR-ND	Low Power/Low Offset Voltage Dual CMOS Op Amp	8-VSP		3185.00/2,000	
095RB1-TE1CT-ND	Low Power/Low Offset Voltage Dual CMOS Op Amp	8-TVSP	2.73	2.28	1.82
095RB1-TE1TR-ND	Low Power/Low Offset Voltage Dual CMOS Op Amp	8-TVSP		3185.00/2,000	

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
NJU7095V-TE1CT-ND	Low Power/Low Offset Voltage Dual CMOS Op Amp	8-SSOP	2.73	2.28	1.82
NJU7095V-TE1TR-ND	Low Power/Low Offset Voltage Dual CMOS Op Amp	8-SSOP		3185.00/2,000	
NJU7096D-ND	Low Power/Low Offset Voltage Dual CMOS Op Amp	8-Dip	.96	.80	.64
NJU7096M-ND	Low Power/Low Offset Voltage Dual CMOS Op Amp	8-DMP	.96	.80	.64
NJU#7096R-TE1CT-ND	Low Power/Low Offset Voltage Dual CMOS Op Amp*	8-VSP	2.73	2.28	1.82
NJU#7096R-TE1TR-ND	Low Power/Low Offset Voltage Dual CMOS Op Amp*	8-VSP		3185.00/2,000	
NJU7096RB1-TE1CT-ND	Low Power/Low Offset Voltage Dual CMOS Op Amp	8-TVSP	2.73	2.28	1.82
NJU7096RB1-TE1TR-ND	Low Power/Low Offset Voltage Dual CMOS Op Amp	8-TVSP		3185.00/2,000	
NJU7096V-TE2CT-ND	Low Power/Low Offset Voltage Dual CMOS Op Amp	8-SSOP	2.73	2.28	1.82
NJU7096V-TE2TR-ND	Low Power/Low Offset Voltage Dual CMOS Op Amp	8-SSOP		3185.00/2,000	
NJU7102AD-ND	CMOS Comparator with CMOS Output	8-Dip	3.15	2.63	2.10
NJU7102AM-ND	CMOS Comparator with CMOS Output	8-DMP	3.15	2.63	2.10
NJU8721V-TE1CT-ND	Class D Headphone Amplifier for Digital Audio	20-SSOP	4.20	3.50	2.80
NJU8721V-TE1TR-ND	Class D Headphone Amplifier for Digital Audio	20-SSOP		4900.00/2,000	
NJU8725V-TE1CT-ND	Class D Amp for Digital Audio	24-SSOP	6.30	5.25	4.20
NJU8725V-TE1TR-ND	Class D Amp for Digital Audio	24-SSOP		7350.00/2,000	
NJU#8752V-TE1CT-ND	Analog Signal Input Class D Amp for Piezo Speaker*	14-SSOP	5.46	4.55	3.64
NJU#8752V-TE1TR-ND	Analog Signal Input Class D Amp for Piezo Speaker*	14-SSOP		6370.00/2,000	
NJU#8754V-TE2CT-ND	Analog Signal Input Monaural Class D Power Amp*	10-SSOP	2.19	1.83	1.46
NJU#8754V-TE2TR-ND	Analog Signal Input Monaural Class D Power Amp*	10-SSOP		2555.00/2,000	
NJU#8755V-TE1CT-ND	Analog Signal Input Stereo Class D Power Amp*	20-SSOP	5.04	4.20	3.36
NJU#8755V-TE1TR-ND	Analog Signal Input Stereo Class D Power Amp*	20-SSOP		5880.00/2,000	
NJW1105D-ND	Dual Audio Power Amplifier	16-Dip	3.48	2.90	2.32
NJW1105M-ND	Dual Audio Power Amplifier	30-SDMP	3.48	2.90	2.32

JRC / NJR Corporation — DRIVERS

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
NJM#2577M-TE2CT-ND	Quad Video Driver*	20-DMP	3.36	2.80	2.24
NJM#2577M-TE2TR-ND	Quad Video Driver*	20-DMP		3920.00/2,000	
NJM3517D2-ND	Stepper Motor Controller/Driver	16-Dip	5.07	4.23	3.38
NJM3517E2-ND	Stepper Motor Controller/Driver	16-EMP	5.61	4.68	3.74
NJM3717D2-ND	Stepper Motor Driver	16-Dip	2.10	1.75	1.40
NJM3717FM2-ND	Stepper Motor Driver	28-PLCC	5.40	4.50	3.60
NJM3770AD3-ND	Stepper Motor Driver	16-Dip (Batwing)	4.50	3.75	3.00
NJM3770AFM2-ND	Stepper Motor Driver	28-PLCC	7.56	6.30	5.04
NJM3771D2-ND	Dual Stepper Motor Driver	22-Dip	5.88	4.90	3.92
NJM3771FM2-ND	Dual Stepper Motor Driver	28-PLCC	5.88	4.90	3.92
NJM3772D2-ND	Dual Stepper Motor Driver	22-Dip	5.46	4.55	3.64
NJM3772FM2-ND	Dual Stepper Motor Driver	28-PLCC	5.46	4.55	3.64
NJM3773D2-ND	Dual Stepper Motor Driver	22-Dip	5.04	4.20	3.36
NJM3773FM2-ND	Dual Stepper Motor Driver	28-PLCC	5.04	4.20	3.36
NJM3774D2-ND	Dual Stepper Motor Driver	22-Dip	5.46	4.55	3.64
NJM3774FM2-ND	Dual Stepper Motor Driver	28-PLCC	5.46	4.55	3.64
NJM3775D2-ND	Dual Stepper Motor Driver	22-Dip	5.04	4.20	3.36
NJM3775FM2-ND	Dual Stepper Motor Driver	28-PLCC	5.04	4.20	3.36
NJM3777E3-ND	Dual Stepper Motor Driver	24-EMP	4.71	3.93	3.14
NJM37717D2-ND	Stepper Motor Driver	16-Dip	5.04	4.20	3.36
NJM37717E3-ND	Stepper Motor Driver	24-EMP	5.04	4.20	3.36
NJM37770D3-ND	Stepper Motor Driver	16-Dip	7.86	6.55	5.24
NJU6048F-TE1CT-ND	High Efficiency White LED Driver	SOT-23-5	1.68	1.40	1.12
NJU6048F-TE1TR-ND	High Efficiency White LED Driver	SOT-23-5		2940.00/3,000	
NJU#6050F-TE2CT-ND	High Efficiency White LED Driver*	SOT-23-5	2.10	1.75	1.40
NJU#6050F-TE2TR-ND	High Efficiency White LED Driver*	SOT-23-5		3675.00/3,000	
NJU#6060V-TE1CT-ND	Full Color LED Controller Driver with PWM Control*	10-SSOP	1.47	1.23	.98
NJU#6060V-TE1TR-ND	Full Color LED Controller Driver with PWM Control*	10-SSOP		1715.00/2,000	
NJU6416FC1-ND	Dot Matrix LCD 8-Out Segment Driver	100-QFP	6.15	5.13	4.10
NJU7325R-TE1CT-ND	Single-Phase DC Brushless Motor Driver	8-VSP	1.05	.88	.70
NJU7325R-TE1TR-ND	Single-Phase DC Brushless Motor Driver	8-VSP		1225.00/2,000	
NJU#8711V-TE2CT-ND	3V Operation Switching Driver for Class D Amp*	10-SSOP	2.52	2.10	1.68
NJU#8711V-TE2TR-ND	3V Operation Switching Driver for Class D Amp*	10-SSOP		2940.00/2,000	
NJU#8713V-TE1CT-ND	2V Operation Switching Driver for Class D Amp*	14-SSOP	2.73	2.28	1.82
NJU#8713V-TE1TR-ND	2V Operation Switching Driver for Class D Amp*	14-SSOP		3185.00/2,000	
NJW4301D-ND	2-Channel Bridge Driver	16-Dip	3.48	2.90	2.32
NJW4301M-ND	2-Channel Bridge Driver	30-SDMP	3.48	2.90	2.32

JRC / NJR Corporation — MULTIPLEXER

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
NJU4051BD-ND	Single 8-Channel Mux	16-Dip	.90	.75	.60
NJU4051BM-ND	Single 8-Channel Mux	16-DMP	.93	.78	.62
NJU4052BD-ND	Dual 4-Channel Mux	16-Dip	.90	.75	.60
NJU4052BM-ND	Dual 4-Channel Mux	16-DMP	1.05	.88	.70
NJU4053BD-ND	Triple 2-Channel Mux	16-Dip	.96	.80	.64
NJU4053BM-ND	Triple 2-Channel Mux	16-DMP	.96	.80	.64

JRC / NJR Corporation — POWER MANAGEMENT

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
NJM78L05A-ND	5V, 100mA, Positive Voltage Regulator	TO-92	.36	.30	.24
NJM#78L05L2A-ND	5V, 100mA, Positive Voltage Regulator* ***NEW!***	TO-92	.36	.30	.24
NJM78L06A-ND	6V, 100mA, Positive Voltage Regulator	TO-92	.36	.30	.24
NJM#78L06L2A-ND	6V, 100mA, Positive Voltage Regulator* ***NEW!***	TO-92	.36	.30	.24
NJM#78L08L2A-ND	8V, 100mA, Positive Voltage Regulator* ***NEW!***	TO-92	.36	.30	.24
NJM78L12A-ND	12V, 100mA, Positive Voltage Regulator	TO-92	.36	.30	.24
NJM#78L12L2A-ND	12V, 100mA, Positive Voltage Regulator* ***NEW!***	TO-92	.36	.30	.24
NJM78L15A-ND	15V, 100mA, Positive Voltage Regulator	TO-92	.36	.30	.24
NJM78LR05BD-ND	Series Regulator with Reset Function	8-Dip	.72	.60	.48
NJM78LR05BM-ND	Series Regulator with Reset Function	8-DMP	.45	.38	.30
NJM78L20A-ND	20V, 100mA, Positive Voltage Regulator	TO-92	.36	.30	.24
NJM78L24A-ND	24V, 100mA, Positive Voltage Regulator	TO-92	.36	.30	.24
NJM#78L24L2A-ND	24V, 100mA, Positive Voltage Regulator* ***NEW!***	TO-92	.36	.30	.24
NJM78L02UA-ND	2.6V, 100mA, Positive Voltage Regulator	SOT-89	.39	.33	.26
NJM78L05UA-ND	5V, 100mA, Positive Voltage Regulator	SOT-89	.39	.33	.26
NJM78L06UA-ND	6V, 100mA, Positive Voltage Regulator	SOT-89	.39	.33	.26
NJM78L08UA-ND	8V, 100mA, Positive Voltage Regulator	SOT-89	.39	.33	.26
NJM78L09UA-ND	9V, 100mA, Positive Voltage Regulator	SOT-89	.39	.33	.26
NJM78L12UA-ND	12V, 100mA, Positive Voltage Regulator	SOT-89	.39	.33	.26

* Lead Free/RoHS Compliant

(Continued)

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B

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
NJM78L15UA-ND	15V, 100mA, Positive Voltage Regulator	SOT-89	.39	.33	.26
NJM78L18UA-ND	18V, 100mA, Positive Voltage Regulator	SOT-89	.39	.33	.26
NJM78L20UA-ND	20V, 100mA, Positive Voltage Regulator	SOT-89	.39	.33	.26
NJM78L24UA-ND	24V, 100mA, Positive Voltage Regulator	SOT-89	.39	.33	.26
NJM#78LR05BUTE1CT-ND	Series Regulator with Reset Function*	SOT-89-5	.60	.50	.40
NJM#78LR05BUTE1TR-ND	Series Regulator with Reset Function*	SOT-89-5		350.00/1,000	
NJM78LR05DD-ND	Series Regulator with Reset Function	8-Dip	.72	.60	.48
NJM78LR05DU-TE1CT-ND	Series Regulator with Reset Function	SOT-89-5	.60	.50	.40
NJM78LR05DU-TE1TR-ND	Series Regulator with Reset Function	SOT-89-5		350.00/1,000	
NJM78M05FA-ND	5V, 500mA, Positive Voltage Regulator with Isolated Tab	TO-220F	.54	.45	.36
NJM78M06FA-ND	6V, 500mA, Positive Voltage Regulator with Isolated Tab	TO-220F	.54	.45	.36
NJM78M08FA-ND	8V, 500mA, Positive Voltage Regulator with Isolated Tab	TO-220F	.54	.45	.36
NJM78M09FA-ND	9V, 500mA, Positive Voltage Regulator with Isolated Tab	TO-220F	.54	.45	.36
NJM78M12FA-ND	12V, 500mA, Positive Voltage Regulator with Isolated Tab	TO-220F	.54	.45	.36
NJM78M15FA-ND	15V, 500mA, Positive Voltage Regulator with Isolated Tab	TO-220F	.54	.45	.36
NJM78M18FA-ND	18V, 500mA, Positive Voltage Regulator with Isolated Tab	TO-220F	.54	.45	.36
NJM78M20FA-ND	20V, 500mA, Positive Voltage Regulator with Isolated Tab	TO-220F	.54	.45	.36
NJM78M24FA-ND	24V, 500mA, Positive Voltage Regulator with Isolated Tab	TO-220F	.54	.45	.36
NJM79L05A-ND	5V, 100mA, Negative Voltage Regulator	TO-92	.42	.35	.28
NJM#79L05L2A-ND	5V, 100mA, Negative Voltage Regulator* ***NEW!***	TO-92	.42	.35	.28
NJM79L06A-ND	6V, 100mA, Negative Voltage Regulator	TO-92	.42	.35	.28
NJM79L08A-ND	8V, 100mA, Negative Voltage Regulator	TO-92	.42	.35	.28
NJM79L09A-ND	9V, 100mA, Negative Voltage Regulator	TO-92	.42	.35	.28
NJM79L12A-ND	12V, 100mA, Negative Voltage Regulator	TO-92	.42	.35	.28
NJM79L15A-ND	15V, 100mA, Negative Voltage Regulator	TO-92	.42	.35	.28
NJM79L18A-ND	18V, 100mA, Negative Voltage Regulator	TO-92	.42	.35	.28
NJM79L24A-ND	24V, 100mA, Negative Voltage Regulator	TO-92	.42	.35	.28
NJM79L05UA-ND	5V, 100mA, Negative Voltage Regulator	SOT-89	.69	.58	.46
NJM79L06UA-ND	6V, 100mA, Negative Voltage Regulator	SOT-89	.69	.58	.46
NJM79L08UA-ND	8V, 100mA, Negative Voltage Regulator	SOT-89	.69	.58	.46
NJM79L09UA-ND	9V, 100mA, Negative Voltage Regulator	SOT-89	.69	.58	.46
NJM79L12UA-ND	12V, 100mA, Negative Voltage Regulator	SOT-89	.69	.58	.46
NJM79L15UA-ND	15V, 100mA, Negative Voltage Regulator	SOT-89	.69	.58	.46
NJM79L18UA-ND	18V, 100mA, Negative Voltage Regulator	SOT-89	.69	.58	.46
NJM79L24UA-ND	24V, 100mA, Negative Voltage Regulator	SOT-89	.69	.58	.46
NJM79M05FA-ND	5V, 500mA, Negative Voltage Regulator with Isolated Tab	TO-220F	.69	.58	.46
NJM79M06FA-ND	6V, 500mA, Negative Voltage Regulator with Isolated Tab	TO-220F	.69	.58	.46
NJM79M08FA-ND	8V, 500mA, Negative Voltage Regulator with Isolated Tab	TO-220F	.69	.58	.46
NJM79M09FA-ND	9V, 500mA, Negative Voltage Regulator with Isolated Tab	TO-220F	.69	.58	.46
NJM79M12FA-ND	12V, 500mA, Negative Voltage Regulator with Isolated Tab	TO-220F	.69	.58	.46
NJM79M15FA-ND	15V, 500mA, Negative Voltage Regulator with Isolated Tab	TO-220F	.69	.58	.46
NJM79M18FA-ND	18V, 500mA, Negative Voltage Regulator with Isolated Tab	TO-220F	.69	.58	.46
NJM79M24FA-ND	24V, 500mA, Negative Voltage Regulator with Isolated Tab	TO-220F	.69	.58	.46
NJM317DL1-TE1CT-ND	Adjustable 3-Terminal Positive Voltage Regulator	TO-252	.90	.75	.60
NJM317DL1-TE1TR-ND	Adjustable 3-Terminal Positive Voltage Regulator	TO-252		1575.00/3,000	
NJM317F-ND	Adjustable 1.5A, Voltage Regulator with Isolated Tab	TO-220F	.93	.78	.62
NJM431D-ND	Adjustable Precision Shunt Regulator	8-Dip	.48	.40	.32
NJM431E-ND	Adjustable Precision Shunt Regulator	8-SOIC	.42	.35	.28
NJM431L-ND	Adjustable Precision Shunt Regulator	TO-92	.42	.35	.28
NJM431M-ND	Adjustable Precision Shunt Regulator	8-DMP	.54	.45	.36
NJM431U-ND	Adjustable Precision Shunt Regulator	SOT-89	.54	.45	.36
NJM723M-ND	Precision Voltage Regulator	14-DMP	.54	.45	.36
NJM2352D-ND	Low Power Switching Regulator with Low Battery Detection	8-Dip	.66	.55	.44
NJM2352M-ND	Low Power Switching Regulator	8-DMP	.66	.55	.44
NJM#2355D-ND	2-Output High Voltage Switching Regulator*	18-Dip	2.52	2.10	1.68
NJM2360D-ND	DC/DC Converter Control IC	8-Dip	.81	.68	.54
NJM2370R02-TE1CT-ND	2.0V, Low Dropout Voltage Regulator with On/Off Control	8-VSP	.60	.50	.40
NJM2370R02-TE1TR-ND	2.0V, Low Dropout Voltage Regulator with On/Off Control	8-VSP		700.00/2,000	
NJM2370R03-TE1CT-ND	3.0V, Low Dropout Voltage Regulator with On/Off Control	8-VSP	.60	.50	.40
NJM2370R03-TE1TR-ND	3.0V, Low Dropout Voltage Regulator with On/Off Control	8-VSP		700.00/2,000	
NJM2370R37-TE1CT-ND	3.7V, Low Dropout Voltage Regulator with On/Off Control	8-VSP	.60	.50	.40
NJM2370R37-TE1TR-ND	3.7V, Low Dropout Voltage Regulator with On/Off Control	8-VSP		700.00/2,000	
NJM2370U03-TE1CT-ND	3V, Low Dropout Voltage Regulator with On/Off Control	SOT-89-5	.60	.50	.40
NJM2370U03-TE1TR-ND	3V, Low Dropout Voltage Regulator with On/Off Control	SOT-89-5		350.00/1,000	
NJM#2370U05-TE1CT-ND	5V, Low Dropout Voltage Regulator with On/Off Control*	SOT-89-5	.60	.50	.40
NJM#2370U05-TE1TR-ND	5V, Low Dropout Voltage Regulator with On/Off Control*	SOT-89-5		350.00/1,000	
NJM2370U47-TE1CT-ND	4.7V, Low Dropout Voltage Regulator with On/Off Control	SOT-89-5	.60	.50	.40
NJM2370U47-TE1TR-ND	4.7V, Low Dropout Voltage Regulator with On/Off Control	SOT-89-5		350.00/1,000	
NJM2373AF-TE1CT-ND	Adjustable High Precision Shunt Regulator	5-MTP	.66	.55	.44
NJM2373AF-TE1TR-ND	Adjustable High Precision Shunt Regulator	5-MTP		1155.00/3,000	
NJM2373AU-TE1CT-ND	Adjustable High Precision Shunt Regulator	SOT-89	.66	.55	.44
NJM2373AU-TE1TR-ND	Adjustable High Precision Shunt Regulator	SOT-89		385.00/1,000	
NJM2374AD-ND	PWM DC/DC Converter	8-Dip	1.47	1.23	.98
NJM2374AM-ND	PWM DC/DC Converter	8-DMP	1.47	1.23	.98
NJM2384D-ND	DC/DC Converter Control	14-Dip	2.10	1.75	1.40
NJM2391DL103TE1CT-ND	3V, Low Dropout Voltage Regulator	TO-252	.84	.70	.56
NJM2391DL103TE1TR-ND	3V, Low Dropout Voltage Regulator	TO-252		1470.00/3,000	
NJM2396F05-ND	Low Dropout Voltage Regulator	TO-220F-4	1.14	.95	.76
NJM2396F33-ND	Low Dropout Voltage Regulator	TO-220F-4	1.05	.88	.70
NJM2396F63-ND	Low Dropout Voltage Regulator	TO-220F-4	1.05	.88	.70
NJM2397F-ND	Adjustable Low Dropout Voltage Regulator	TO-220F-4	1.14	.95	.76
NJM#2800F3342TE1CT-ND	3.3V, Low Dropout Voltage Regulator with Reset	5-MTP	1.05	.88	.70
NJM2800F3342TE1TR-ND	3.3V, Low Dropout Voltage Regulator with Reset	5-MTP		1837.50/3,000	
NJM2800U3342TE1CT-ND	3.3V, Low Dropout Voltage Regulator with Reset	SOT-89-5	1.05	.88	.70
NJM2800U3342TE1TR-ND	3.3V, Low Dropout Voltage Regulator with Reset	SOT-89-5		612.50/1,000	
NJM2845DL118TE1CT-ND	1.8V-5V, Low Dropout Voltage Regulator ***NEW!***	TO-252	.63	.53	.42
NJM2845DL118TE1TR-ND	1.8V-5V, Low Dropout Voltage Regulator ***NEW!***	TO-252		1102.50/3,000	
NJM2845DL123TE1CT-ND	2.3V-5V, Low Dropout Voltage Regulator ***NEW!***	TO-252	.63	.53	.42
NJM2845DL123TE1TR-ND	2.3V-5V, Low Dropout Voltage Regulator ***NEW!***	TO-252		1102.50/3,000	
NJM2845DL125TE1CT-ND	2.5V-5V, Low Dropout Voltage Regulator ***NEW!***	TO-252	.63	.53	.42
NJM2845DL125TE1TR-ND	2.5V-5V, Low Dropout Voltage Regulator ***NEW!***	TO-252		1102.50/3,000	
NJM2845DL103TE1CT-ND	3V-5V, Low Dropout Voltage Regulator ***NEW!***	TO-252	.63	.53	.42
NJM2845DL103TE1TR-ND	3V-5V, Low Dropout Voltage Regulator ***NEW!***	TO-252		1102.50/3,000	
NJM2845DL133TE1CT-ND	3.3V-5V, Low Dropout Voltage Regulator ***NEW!***	TO-252	.63	.53	.42
NJM2845DL133TE1TR-ND	3.3V-5V, Low Dropout Voltage Regulator ***NEW!***	TO-252		1102.50/3,000	
NJM2846DL303TE1CT-ND	3V-5V, Low Dropout Voltage Regulator ***NEW!***	TO-252-5	.81	.68	.54
NJM2846DL303TE1TR-ND	3V-5V, Low Dropout Voltage Regulator ***NEW!***	TO-252-5		1417.50/3,000	
NJM2846DL305TE1CT-ND	5V, Low Dropout Voltage Regulator ***NEW!***	TO-252-5	.81	.68	.54
NJM2846DL305TE1TR-ND	5V, Low Dropout Voltage Regulator ***NEW!***	TO-252-5		1417.50/3,000	
NJM2846DL318TE1CT-ND	1.8V-5V, Low Dropout Voltage Regulator ***NEW!***	TO-252-5	.81	.68	.54
NJM2846DL318TE1TR-ND	1.8V-5V, Low Dropout Voltage Regulator ***NEW!***	TO-252-5		1417.50/3,000	
NJM2846DL323TE1CT-ND	2.3V-5V, Low Dropout Voltage Regulator ***NEW!***	TO-252-5	.81	.68	.54
NJM2846DL323TE1TR-ND	2.3V-5V, Low Dropout Voltage Regulator ***NEW!***	TO-252-5		1417.50/3,000	
NJM2846DL333TE1CT-ND	3.3V-5V, Low Dropout Voltage Regulator ***NEW!***	TO-252-5	.81	.68	.54
NJM2846DL333TE1TR-ND	3.3V-5V, Low Dropout Voltage Regulator ***NEW!***	TO-252-5		1417.50/3,000	

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	1
NJM2860F3-25TE1CT-ND	Low Dropout Voltage Regulator	SC-88A	.45	.38	
NJM2860F3-25TE1TR-ND	Low Dropout Voltage Regulator	SC-88A		787.50/3,00	
NJM2860F3-33TE1CT-ND	Low Dropout Voltage Regulator	SC-88A	.45	.38	
NJM2860F3-33TE1TR-ND	Low Dropout Voltage Regulator	SC-88A		787.50/3,00	
NJM2860F3-47TE1CT-ND	Low Dropout Voltage Regulator	SC-88A	.45	.38	
NJM2860F3-47TE1TR-ND	Low Dropout Voltage Regulator	SC-88A		787.50/3,00	
NJM2863F03-TE1CT-ND	3V, Ultra Low Noise Low Dropout Voltage Regulator	5-MTP	.45	.38	
NJM2863F03-TE1TR-ND	3V, Ultra Low Noise Low Dropout Voltage Regulator	5-MTP		787.50/3,00	
NJM2863F28-TE1CT-ND	2.8V, Ultra Low Noise Low Dropout Voltage Regulator	5-MTP	.45	.38	
NJM2863F28-TE1TR-ND	2.8V, Ultra Low Noise Low Dropout Voltage Regulator	5-MTP		787.50/3,00	
NJM2863F29-TE1CT-ND	2.9V, Ultra Low Noise Low Dropout Voltage Regulator	5-MTP	.45	.38	
NJM2863F29-TE1TR-ND	2.9V, Ultra Low Noise Low Dropout Voltage Regulator	5-MTP		787.50/3,00	
NJM2864F03-TE1CT-ND	3V, Ultra Low Noise Low Dropout Voltage Regulator	5-MTP	.45	.38	
NJM2864F03-TE1TR-ND	3V, Ultra Low Noise Low Dropout Voltage Regulator	5-MTP		787.50/3,00	
NJM#2865F333TE1CT-ND	3.3V, Low Dropout Voltage Regulator*	SC88A	.42	.35	
NJM#2865F333TE1TR-ND	3.3V, Low Dropout Voltage Regulator*	SC88A		735.00/3,00	
NJM2870F21-TE1CT-ND	2.1V, Low Dropout Voltage Regulator	5-MTP	.42	.35	
NJM2870F21-TE1TR-ND	2.1V, Low Dropout Voltage Regulator	5-MTP		735.00/3,00	
NJM#2870F33-TE1CT-ND	3.3V, Low Dropout Voltage Regulator*	5-MTP	.42	.35	
NJM#2870F33-TE1TR-ND	3.3V, Low Dropout Voltage Regulator*	5-MTP		735.00/3,00	
NJM2870F48-TE1CT-ND	4.8V, Low Dropout Voltage Regulator	5-MTP	.42	.35	
NJM2870F48-TE1TR-ND	4.8V, Low Dropout Voltage Regulator	5-MTP		735.00/3,00	
NJM#2871AF25TE1CT-ND	2.5V, Low Dropout Voltage Regulator*	5-MTP	.42	.35	
NJM#2871AF25TE1TR-ND	2.5V, Low Dropout Voltage Regulator*	5-MTP		735.00/3,00	
NJM2880U21-TE1CT-ND	2.1V, Low Dropout Voltage Regulator	SOT-89-5	.75	.63	
NJM2880U21-TE1TR-ND	2.1V, Low Dropout Voltage Regulator	SOT-89-5		437.50/1,00	
NJM2881F18-TE1CT-ND	1.8V, Low Dropout Voltage Regulator	SOT-23-5	.54	.45	
NJM2881F18-TE1TR-ND	1.8V, Low Dropout Voltage Regulator	SOT-23-5		945.00/3,00	
NJM#2881F28-TE1CT-ND	2.8V, Low Dropout Voltage Regulator*	SOT-23-5	.54	.45	
NJM#2881F28-TE1TR-ND	2.8V, Low Dropout Voltage Regulator*	SOT-23-5		945.00/3,00	
NJM2886DL233TE1CT-ND	3.3V, Low Dropout Voltage Regulator	TO-252-5	.96	.80	
NJM2886DL233TE1TR-ND	3.3V, Low Dropout Voltage Regulator	TO-252-5		1680.00/3,00	
NJM2930F05-ND	5V, Low Dropout Voltage Regulator	TO-220F	.72	.60	
NJM2930F85-ND	8.5V, Low Dropout Voltage Regulator	TO-220F	.72	.60	
NJM2930L85-ND	8.5V, Low Dropout Voltage Regulator	TO-92	.54	.45	
NJM7905FA-ND	5V, 1.5A, Negative Voltage Regulator with Isolated Tab	TO-220F	.93	.78	
NJM7906FA-ND	6V, 1.5A, Negative Voltage Regulator with Isolated Tab	TO-220F	.93	.78	
NJM7908FA-ND	8V, 1.5A, Negative Voltage Regulator with Isolated Tab	TO-220F	.93	.78	
NJM7909FA-ND	9V, 1.5A, Negative Voltage Regulator with Isolated Tab	TO-220F	.93	.78	
NJM7912FA-ND	12V, 1.5A, Negative Voltage Regulator with Isolated Tab	TO-220F	.72	.60	
NJM7915FA-ND	15V, 1.5A, Negative Voltage Regulator with Isolated Tab	TO-220F	.93	.78	
NJM7918FA-ND	18V, 1.5A, Negative Voltage Regulator with Isolated Tab	TO-220F	.93	.78	
NJM7924FA-ND	24V, 1.5A, Negative Voltage Regulator with Isolated Tab	TO-220F	.93	.78	
NJU7201L12-ND	1.2V, CMOS 3-Terminal Positive Voltage Regulator	TO-92	.60	.50	
NJU7201L32-ND	3.2V, CMOS 3-Terminal Positive Voltage Regulator	TO-92	.60	.50	
NJU7201L55-ND	5.5V, CMOS 3-Terminal Positive Voltage Regulator	TO-92	.63	.53	
NJU#7201U32-ND	3.2V, CMOS 3-Terminal Positive Voltage Regulator*	SOT-89	.84	.70	
NJU7201U55-ND	5.5V, CMOS 3-Terminal Positive Voltage Regulator	SOT-89	.87	.73	
NJU7211L30-ND	-3.0V, CMOS 3-Terminal Negative Voltage Regulator	TO-92	.72	.60	
NJU7211L50-ND	-5.0V, CMOS 3-Terminal Negative Voltage Regulator	TO-92	.72	.60	
NJU7222L30-ND	3V, High Precision/High Output Current CMOS 3-Terminal Voltage Regulator	TO-92	.84	.70	
NJU7222L50-ND	5V, High Precision/High Output Current CMOS 3-Terminal Voltage Regulator	TO-92	.84	.70	
NJU7222U30-ND	3V, High Precision/High Output Current CMOS 3-Terminal Voltage Regulator	SOT-89	.66	.55	
NJU7222U50-ND	5V, High Precision/High Output Current CMOS 3-Terminal Voltage Regulator	SOT-89	.66	.55	
NJU7223F18-ND	1.8V, 500mA Low Dropout Voltage Regulator	TO-220F	.93	.78	
NJU#7223F50-ND	5V, 500mA Low Dropout Voltage Regulator*	TO-220F	.93	.78	
NJU7231F12-TE1CT-ND	1.2V, High Precision CMOS 3-Terminal Voltage Regulator	5-MTP	.60	.50	
NJU7231F12-TE1TR-ND	1.2V, High Precision CMOS 3-Terminal Voltage Regulator	5-MTP		1050.00/3,0	
NJU7231F28-TE1CT-ND	2.8V, High Precision CMOS 3-Terminal Voltage Regulator	5-MTP	.60	.50	
NJU7231F28-TE1TR-ND	2.8V, High Precision CMOS 3-Terminal Voltage Regulator	5-MTP		1050.00/3,0	
NJU7231F52-TE1CT-ND	5.2V, High Precision CMOS 3-Terminal Voltage Regulator	5-MTP	.60	.50	
NJU7231F52-TE1TR-ND	5.2V, High Precision CMOS 3-Terminal Voltage Regulator	5-MTP		1050.00/3,0	
NJU7231L12-ND	1.2V, High Precision CMOS 3-Terminal Voltage Regulator	TO-92	.75	.63	
NJU7231L28-ND	2.8V, High Precision CMOS 3-Terminal Voltage Regulator	TO-92	.75	.63	
NJU7231L52-ND	5.2V, High Precision CMOS 3-Terminal Voltage Regulator	TO-92	.75	.63	
NJU7231U12-TE1CT-ND	1.2V, High Precision CMOS 3-Terminal Voltage Regulator	SOT-89	.60	.50	
NJU7231U12-TE1TR-ND	1.2V, High Precision CMOS 3-Terminal Voltage Regulator	SOT-89		350.00/1,0	
NJU7231U18-TE1CT-ND	1.8V, High Precision CMOS 3-Terminal Voltage Regulator	SOT-89	.60	.50	
NJU7231U18-TE1TR-ND	1.8V, High Precision CMOS 3-Terminal Voltage Regulator	SOT-89		350.00/1,0	
NJU7231U30-TE1CT-ND	3V, High Precision CMOS 3-Terminal Voltage Regulator	SOT-89	.60	.50	
NJU7231U30-TE1TR-ND	3V, High Precision CMOS 3-Terminal Voltage Regulator	SOT-89		350.00/1,0	
NJU7231U50-TE1CT-ND	5V, High Precision CMOS 3-Terminal Voltage Regulator	SOT-89	.60	.50	
NJU7231U50-TE1TR-ND	5V, High Precision CMOS 3-Terminal Voltage Regulator	SOT-89		350.00/1,0	
NJU7241F18-TE1CT-ND	1.8V, High Precision LDO 60mA CMOS Voltage Regulator	5-MTP	.69	.58	
NJU7241F18-TE1TR-ND	1.8V, High Precision LDO 60mA CMOS Voltage Regulator	5-MTP		1207.50/3,0	
NJU7241F28-TE1CT-ND	2.8V, High Precision LDO 60mA CMOS Voltage Regulator	5-MTP	.69	.58	
NJU7241F28-TE1TR-ND	2.8V, High Precision LDO 60mA CMOS Voltage Regulator	5-MTP		1207.50/3,0	
NJU7241F40-TE1CT-ND	4V, High Precision LDO 60mA CMOS Voltage Regulator	5-MTP	.69	.58	
NJU7241F40-TE1TR-ND	4V, High Precision LDO 60mA CMOS Voltage Regulator	5-MTP		1207.50/3,0	
NJU7241F50-TE1CT-ND	5V, High Precision LDO 60mA CMOS Voltage Regulator	5-MTP	.69	.58	
NJU7241F50-TE1TR-ND	5V, High Precision LDO 60mA CMOS Voltage Regulator	5-MTP		1207.50/3,0	
NJU7250F25-TE1CT-ND	2.5V, Low Dropout Voltage Regulator	5-MTP	.69	.58	
NJU7250F25-TE1TR-ND	2.5V, Low Dropout Voltage Regulator	5-MTP		1207.50/3,0	
NJU7250F33-TE1CT-ND	3.3V, Low Dropout Voltage Regulator	5-MTP	.69	.58	
NJU7250F33-TE1TR-ND	3.3V, Low Dropout Voltage Regulator	5-MTP		1207.50/3,0	
NJU7261U30-TE1CT-ND	3V, CMOS Step-Up Switching Regulator	SOT-89-5	.96	.80	
NJU7261U30-TE1TR-ND	3V, CMOS Step-Up Switching Regulator	SOT-89-5		560.00/1,0	
NJU7261U33-TE1CT-ND	3.3V, CMOS Step-Up Switching Regulator	SOT-89-5	.96	.80	
NJU7261U33-TE1TR-ND	3.3V, CMOS Step-Up Switching Regulator	SOT-89-5		560.00/1,0	
NJU7261U50-TE1CT-ND	5V, CMOS Step-Up Switching Regulator	SOT-89-5	.96	.80	
NJU7261U50-TE1TR-ND	5V, CMOS Step-Up Switching Regulator	SOT-89-5		560.00/1,0	
NJU7600M-ND	PWM Control Boost/Flyback Switching Regulator ***NEW!***	8-DMP	1.26	1.05	
NJU7660D-ND	DC/DC Voltage Converter	8-Dip	.72	.60	
NJU7662D-ND	DC/DC Voltage Converter	8-Dip	1.47	1.23	
NJU7665AF-TE1CT-ND	Small Package Voltage Inverter	5-MTP	1.26	1.05	
NJU7665AF-TE1TR-ND	Small Package Voltage Inverter	5-MTP		2205.00/3,0	
NJU7665BF-TE1CT-ND	Small Package Voltage Inverter	5-MTP	1.26	1.05	

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JRC / NJR Corporation — POWER MANAGEMENT (Continued)

i-Key t No.	Description	Pkg.	Price Each★ 1	25	100
7665BF-TE1TR-ND	Small Package Voltage Inverter	5-MTP		2205.00/3,000	
#7665CF-TE1CT-ND	Small Package Voltage Inverter*	5-MTP	1.26	1.05	.84
#7665CF-TE1TR-ND	Small Package Voltage Inverter*	5-MTP		2205.00/3,000	
J7670D-ND	Voltage Tripler	14-Dip	2.94	2.45	1.96
J7670M-ND	Voltage Tripler	14-DMP	2.94	2.45	1.96
J7670V-TE1CT-ND	Voltage Tripler	14-SSOP	3.03	2.53	2.02
J7670V-TE1TR-ND	Voltage Tripler	14-SSOP		3535.00/2,000	
J7700F25-TE1CT-ND	2.5V, N-Channel Open Drain Voltage Detector	SOT-23-5	.42	.35	.28
J7700F25-TE1TR-ND	2.5V, N-Channel Open Drain Voltage Detector	SOT-23-5		735.00/3,000	
J7700F27-TE1CT-ND	2.7V, N-Channel Open Drain Voltage Detector	SOT-23-5	.42	.35	.28
J7700F27-TE1TR-ND	2.7V, N-Channel Open Drain Voltage Detector	SOT-23-5		735.00/3,000	
J7701F06-TE1CT-ND	6V, CMOS Output Voltage Detector	SOT-23-5	.42	.35	.28
J7701F06-TE1TR-ND	6V, CMOS Output Voltage Detector	SOT-23-5		735.00/3,000	
J7701F28-TE1CT-ND	2.8V, CMOS Output Voltage Detector	SOT-23-5	.42	.35	.28
J7701F28-TE1TR-ND	2.8V, CMOS Output Voltage Detector	SOT-23-5		735.00/3,000	
J7701F44-TE1CT-ND	4.4V, CMOS Output Voltage Detector	SOT-23-5	.42	.35	.28
J7701F44-TE1TR-ND	4.4V, CMOS Output Voltage Detector	SOT-23-5		735.00/3,000	
J7771F03-TE1CT-ND	3V, Low Dropout Voltage Regulator	5-MTP	.45	.38	.30
J7771F03-TE1TR-ND	3V, Low Dropout Voltage Regulator	5-MTP		787.50/3,000	
J7771F05-TE1CT-ND	5V, Low Dropout Voltage Regulator	5-MTP	.45	.38	.30
J7771F05-TE1TR-ND	5V, Low Dropout Voltage Regulator	5-MTP		787.50/3,000	
J7772F03-TE1CT-ND	3V, Low Dropout Voltage Regulator	5-MTP	.42	.35	.28
J7772F03-TE1TR-ND	3V, Low Dropout Voltage Regulator	5-MTP		735.00/3,000	
#7772F15-TE1CT-ND	1.5V, Low Dropout Voltage Regulator*	5-MTP	.42	.35	.28
#7772F15-TE1TR-ND	1.5V, Low Dropout Voltage Regulator*	5-MTP		735.00/3,000	
J7773F25-TE1CT-ND	2.5V, Low Dropout Voltage Regulator	5-MTP	.45	.38	.30
J7773F25-TE1TR-ND	2.5V, Low Dropout Voltage Regulator	5-MTP		787.50/3,000	
J7773F33-TE1CT-ND	3.3V, Low Dropout Voltage Regulator	5-MTP	.45	.38	.30
J7773F33-TE1TR-ND	3.3V, Low Dropout Voltage Regulator	5-MTP		787.50/3,000	
J7774F03-TE1CT-ND	3V, Low Dropout Voltage Regulator	5-MTP	.45	.38	.30
J7774F03-TE1TR-ND	3V, Low Dropout Voltage Regulator	5-MTP		787.50/3,000	
J7774F15-TE1CT-ND	1.5V, Low Dropout Voltage Regulator	5-MTP	.45	.38	.30
J7774F15-TE1TR-ND	1.5V, Low Dropout Voltage Regulator	5-MTP		787.50/3,000	
J7774F28-TE1CT-ND	2.8V, Low Dropout Voltage Regulator	5-MTP	.45	.38	.30
J7774F28-TE1TR-ND	2.8V, Low Dropout Voltage Regulator	5-MTP		787.50/3,000	
J7775F05-TE1CT-ND	5V, Low Dropout Voltage Regulator	5-MTP	.45	.38	.30
J7775F05-TE1TR-ND	5V, Low Dropout Voltage Regulator	5-MTP		787.50/3,000	
J7775F33-TE1CT-ND	3.3V, Low Dropout Voltage Regulator	5-MTP	.45	.38	.30
J7775F33-TE1TR-ND	3.3V, Low Dropout Voltage Regulator	5-MTP		787.50/3,000	
J7776F25-TE1CT-ND	2.5V, Low Dropout Voltage Regulator	5-MTP	.45	.38	.30
J7776F25-TE1TR-ND	2.5V, Low Dropout Voltage Regulator	5-MTP		787.50/3,000	
J7776F33-TE1CT-ND	3.3V, Low Dropout Voltage Regulator	5-MTP	.45	.38	.30
J7776F33-TE1TR-ND	3.3V, Low Dropout Voltage Regulator	5-MTP		787.50/3,000	

JRC / NJR Corporation — SPECIALIZED ICs

i-Key t No.	Description	Pkg.	Price Each★ 1	25	100
M1496D-ND	Double Balanced Modulator/Demodulator	14-Dip	1.65	1.38	1.10
M1496M-ND	Double Balanced Modulator/Demodulator	14-DMP	1.65	1.38	1.10
M2207D-ND	Video Superimposer	14-Dip	1.20	1.00	.80
M2207M-ND	Video Superimposer	14-DMP	.90	.75	.60
M2211D-ND	FSK Demodulator/Tone Decoder	14-Dip	.93	.78	.62
M2211M-ND	FSK Demodulator/Tone Decoder	14-SOIC	1.62	1.35	1.08
M2229M-ND	Sync. Separation with AFC	16-DMP	1.68	1.40	1.12
M2230M-ND	Video Sync. Detector	8-DMP	.75	.63	.50
M2232AM-ND	FM IF with Log Amp	24-DMP	3.93	3.28	2.62
M2240D-ND	Video Sub-Carrier Signal Quadrupler	8-Dip	1.89	1.58	1.26
M2240M-ND	Video Sub-Carrier Signal Quadrupler	8-DMP	1.89	1.58	1.26
M2247AM-ND	Video Color Superimposer	20-DMP	2.10	1.75	1.40
M2248D-ND	3-Input Video Superimposer	8-Dip	1.05	.88	.70
M2255M-ND	Chroma Signal Hue Tint Controller	8-DMP	1.68	1.40	1.12
M2257D-ND	Sync. Separator with AFC	16-Dip	2.85	2.38	1.90
M2257M-ND	Sync. Separator with AFC	16-DMP	2.37	1.98	1.58
M2259M-ND	RF Modulator for UHF Band	16-DMP	1.89	1.58	1.26
M2264D-ND	3-Input Video Superimposer with 75 Ohm Driver	8-Dip	.72	.60	.48
M2265D-ND	3-Input Video Superimposer	8-Dip	.54	.45	.36
M2266D-ND	3-Input Video Superimposer with 6dB Amp	8-Dip	.69	.58	.46
M2292V-TE1CT-ND	Narrow Band FM IF IC	20-SSOP	1.47	1.23	.98
M2292V-TE1TR-ND	Narrow Band FM IF IC	20-SSOP		1715.00/2,000	
M2294V-TE1CT-ND	FM IF IC for Pager	16-SSOP	3.99	3.33	2.66
M2294V-TE1TR-ND	FM IF IC for Pager	16-SSOP		3675.00/2,000	
M2295AV-TE1CT-ND	FM IF IC for Remote Keyless Entry System	20-SSOP	3.48	2.90	2.32
M2295AV-TE1TR-ND	FM IF IC for Remote Keyless Entry System	20-SSOP		4060.00/2,000	
M#2509V-TE1CT-ND	Video Superimposer with Y-C Mixer*	8-SSOP	1.68	1.40	1.12
M#2509V-TE1TR-ND	Video Superimposer with Y-C Mixer*	8-SSOP		1960.00/2,000	
M2519AM-ND	RF Modulator for VHF Band	8-DMP	1.26	1.05	.84
M2590V-TE1CT-ND	455KHz Input FM IF Demodulator	14-SSOP	2.10	1.75	1.40
M2590V-TE1TR-ND	455KHz Input FM IF Demodulator	14-SSOP		2450.00/2,000	
M2592V-TE1CT-ND	470MHz Input Mixer 455KHz FM IF Demodulator	20-SSOP	3.15	2.63	2.10
M2592V-TE1TR-ND	470MHz Input Mixer 455KHz FM IF Demodulator	20-SSOP		3675.00/2,000	
M2594V-TE1CT-ND	Double Balanced Modulation/Demodulation	8-SSOP	2.94	2.45	1.96
M2594V-TE1TR-ND	Double Balanced Modulation/Demodulation	8-SSOP		3430.00/2,000	
M2606AD-ND	Low Voltage DC Motor Controller	8-Dip	.69	.58	.46
M2611D-ND	Servo Motor Controller	16-Dip	1.77	1.48	1.18
M2611M-ND	Servo Motor Controller	16-DMP	2.10	1.75	1.40
M2624AD-ND	Brushless DC Motor Pre-Driver	16-Dip	1.77	1.48	1.18
M2624AM-ND	Brushless DC Motor Pre-Driver	16-DMP	1.77	1.48	1.18
M2750M-ND	4-Input, 1-Output Stereo Audio Selector	16-DMP	1.47	1.23	.98
M2761R82-TE1CT-ND	Audio Limiter for Speaker Protection **NEW!**	10-TVSP	1.50	1.25	1.00
M2761R82-TE1TR-ND	Audio Limiter for Speaker Protection **NEW!**	10-TVSP		1750.00/2,000	
M3357D-ND	Low Power Narrow Band FM IF	16-Dip	1.44	1.20	.96
M3357M-ND	Low Power Narrow Band FM IF	16-DMP	1.44	1.20	.96
M3524D-ND	Switching Regulator Control Circuit	16-Dip	1.17	.98	.78
M3524M-ND	Switching Regulator Control Circuit	16-DMP	1.17	.98	.78
M4151D-ND	Voltage-to-Frequency/Frequency-to-Voltage Converter	8-Dip	2.31	1.93	1.54
M7805FA-ND	5V, 1 Amp Pos. Voltage Regulator with Isolated Tab	TO-220F	.60	.50	.40
M7806FA-ND	6V, 1 Amp Pos. Voltage Regulator with Isolated Tab	TO-220F	.60	.50	.40
M7808FA-ND	8V, 1 Amp Pos. Voltage Regulator with Isolated Tab	TO-220F	.60	.50	.40
M7809FA-ND	9V, 1 Amp Pos. Voltage Regulator with Isolated Tab	TO-220F	.60	.50	.40
M7812FA-ND	12V, 1 Amp Pos. Voltage Regulator with Isolated Tab	TO-220F	.60	.50	.40
M7815FA-ND	15V, 1 Amp Pos. Voltage Regulator with Isolated Tab	TO-220F	.60	.50	.40
M7818FA-ND	18V, 1 Amp Pos. Voltage Regulator with Isolated Tab	TO-220F	.60	.50	.40

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
NJM7820FA-ND	20V, 1 Amp Pos. Voltage Regulator with Isolated Tab	TO-220F	.60	.50	.40
NJM7824FA-ND	24V, 1 Amp Pos. Voltage Regulator with Isolated Tab	TO-220F	.60	.50	.40
NJU3711D-ND	8-Bit Serial to Parallel Converter	14-Dip	1.17	.98	.78
NJU3712D-ND	8-Bit, 25mA, Serial to Parallel Output Expander	16-Dip	1.80	1.50	1.20
NJU3712M-ND	8-Bit, 25mA, Serial to Parallel Output Expander	16-SOIC	1.68	1.40	1.12
NJU3715G-ND	16-Bit Serial to Parallel Converter	22-SOP	2.52	2.10	1.68
NJU3716L-ND	16-Bit, 25mA, Serial to Parallel Output Expander	24-SDip	2.07	1.73	1.38
NJU3716M-ND	16-Bit, 25mA, Serial to Parallel Output Expander	24-SOIC	2.07	1.73	1.38
NJU3718G-ND	20-Bit, 25mA, Serial to Parallel Output Expander	28-SOIC	2.25	1.88	1.50
NJU6355ED-ND	Serial I/O Real Time Clock	8-Dip	1.74	1.45	1.16
NJU39610D2-ND	Microstepping Motor Controller with Dual DAC	22-Dip	8.40	7.00	5.60
NJU39610FM2-ND	Microstepping Motor Controller with Dual DAC	28-PLCC	8.40	7.00	5.60
NJW1150M-ND	6-Channel Electronic Volume	30-SDMP	5.88	4.90	3.92
NJW1151M-ND	6-Channel Electronic Volume	30-SDMP	8.40	7.00	5.60
NJW1503AV-TE1CT-ND	PLL Synthesizer with 3-Wire Bus for TV Tuner	16-SSOP	2.52	2.10	1.68
NJW1503AV-TE1TR-ND	PLL Synthesizer with 3-Wire Bus for TV Tuner	16-SSOP		2940.00/2,000	
NJW1504V-TE1CT-ND	PLL Synthesizer with I2C Bus for TV Tuner	16-SSOP	2.52	2.10	1.68
NJW1504V-TE1TR-ND	PLL Synthesizer with I2C Bus for TV Tuner	16-SSOP		2940.00/2,000	
NJW1508V-TE1CT-ND	PLL Synthesizer with I2C Bus for TV Tuner	16-SSOP	1.77	1.48	1.18
NJW1508V-TE1TR-ND	PLL Synthesizer with I2C Bus for TV Tuner	16-SSOP		2065.00/2,000	

JRC / NJR Corporation — SWITCHES

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
NJG1505R-TE1CT-ND	SPDT Switch, GaAs MMIC	8-VSP	1.89	1.58	1.26
NJG1505R-TE1TR-ND	SPDT Switch, GaAs MMIC	8-VSP		2205.00/2,000	
NJG1506R-TE2CT-ND	SPDT Switch, GaAs MMIC	8-VSP	1.47	1.23	.98
NJG1506R-TE2TR-ND	SPDT Switch, GaAs MMIC	8-VSP		1715.00/2,000	
NJG1507R-TE1CT-ND	SPDT Switch, GaAs MMIC	8-VSP	1.17	.98	.78
NJG1507R-TE1TR-ND	SPDT Switch, GaAs MMIC	8-VSP		1365.00/2,000	
NJG1512V-TE1CT-ND	SPDT Switch, GaAs MMIC	14-SSOP	2.28	1.90	1.52
NJG1512V-TE1TR-ND	SPDT Switch, GaAs MMIC	14-SSOP		2660.00/2,000	
NJG1516R-TE1CT-ND	SPDT Switch, GaAs MMIC	8-VSP	2.10	1.75	1.40
NJG1516R-TE1TR-ND	SPDT Switch, GaAs MMIC	8-VSP		2450.00/2,000	
NJG1519KC1-TE3CT-ND	SP4T Switch, GaAs MMIC	10-FLP	2.73	2.28	1.82
NJG1519KC1-TE3TR-ND	SP4T Switch, GaAs MMIC	10-FLP		4777.50/3,000	
NJG1522K82-TE1CT-ND	SPDT Switch, GaAs MMIC	6-FLP	1.26	1.05	.84
NJG1522K82-TE1TR-ND	SPDT Switch, GaAs MMIC	6-FLP		2205.00/3,000	
NJG1524APC1-TE1CT-ND	DPDT Switch, GaAs MMIC	16-FFP	2.94	2.45	1.96
NJG1524APC1-TE1TR-ND	DPDT Switch, GaAs MMIC	16-FFP		6860.00/4,000	
NJG1528KC1-TE3CT-ND	DPDT Switch, GaAs MMIC	10-FLP	3.48	2.90	2.32
NJG1528KC1-TE3TR-ND	DPDT Switch, GaAs MMIC	10-FLP		6090.00/3,000	
NJG#1532K82-TE2CT-ND	SPDT Switch, GaAs MMIC*	6-FLP	1.26	1.05	.84
NJG#1532K82-TE2TR-ND	SPDT Switch, GaAs MMIC*	6-FLP		2205.00/3,000	
NJG1544HC3-TE1CT-ND	2x2 Antenna Switch GaAs MMIC **NEW!**	10-USB	1.47	1.23	.98
NJG1544HC3-TE1TR-ND	2x2 Antenna Switch GaAs MMIC **NEW!**	10-USB		2572.50/3,000	
NJG1602HE3-TE1CT-ND	DPDT Switch, GaAs MMIC	12-USB	2.31	1.93	1.54
NJG1602HE3-TE1TR-ND	DPDT Switch, GaAs MMIC	12-USB		4042.50/3,000	
NJG1617K11-TE1CT-ND	Wireless LAN DPDT GaAs MMIC Switch **NEW!**	12-QFN	1.38	1.15	.92
NJG1617K11-TE1TR-ND	Wireless LAN DPDT GaAs MMIC Switch **NEW!**	12-QFN		2415.00/3,000	
NJM2233BD-ND	2-Input Single Video Switch	8-Dip	.42	.35	.28
NJM2234D-ND	3-Input Video Switch	8-Dip	.51	.43	.34
NJM#2234M-ND	3-Input Video Switch*	8-DMP	.36	.30	.24
NJM2244D-ND	3-Input Video Switch	8-Dip	.48	.40	.32
NJM2244M-ND	3-Input Video Switch	8-DMP	.39	.33	.26
NJM2246M-ND	3-Input Video Switch with 6dB Amp	8-DMP	.45	.38	.30
NJM2249D-ND	3-Input Video Switch	8-Dip	1.05	.88	.70
NJM2249M-ND	3-Input Video Switch	8-DMP	1.05	.88	.70
NJM#2279D-ND	3-Input/2-Output Video Switch for AV-Set*	14-Dip	1.47	1.23	.98
NJM2283D-ND	2-Input, 3-Channel Video Switch	16-Dip	1.50	1.25	1.00
NJM2283M-ND	2-Input, 3-Channel Video Switch	16-DMP	1.35	1.13	.90
NJM2284V-TE1CT-ND	2-Input, 3-Channel Video Switch	16-SSOP	1.14	.95	.76
NJM2284V-TE1TR-ND	2-Input, 3-Channel Video Switch	16-SSOP		1330.00/2,000	
NJM2285M-ND	2-Input, 3-Channel Video Switch	16-DMP	1.17	.98	.78
NJM2285V-TE2CT-ND	2-Input, 3-Channel Video Switch	16-SSOP	1.17	.98	.78
NJM2285V-TE2TR-ND	2-Input, 3-Channel Video Switch	16-SSOP		1365.00/2,000	
NJM2286D-ND	2-Input, 3-Channel Video Switch	16-Dip	1.50	1.25	1.00
NJM#2286V-TE1CT-ND	2-Input, 3-Channel Video Switch*	16-SSOP	.90	.75	.60
NJM#2286V-TE1TR-ND	2-Input, 3-Channel Video Switch*	16-SSOP		1050.00/2,000	
NJM2296D-ND	5-Input, 3-Output Video Switch	16-Dip	2.19	1.83	1.46
NJM2296M-ND	5-Input, 3-Output Video Switch	16-DMP	1.98	1.65	1.32
NJM2506M-ND	3-Input, 2-Input Video Switch	16-DMP	1.08	.90	.72
NJM2508M-ND	3-Input, 2-Input Video Switch	16-DMP	1.26	1.05	.84
NJM2513M-ND	3-Input, 2-Input Video Switch	16-DMP	1.35	1.13	.90
NJM2520D-ND	2-Input, 1-Output Audio Switch	8-Dip	.45	.38	.30
NJM2520M-ND	2-Input, 1-Output Audio Switch	8-DMP	.48	.40	.32
NJM2521D-ND	3-Input, 1-Output Audio Switch	8-Dip	.66	.55	.44
NJM2521M-ND	3-Input, 1-Output Audio Switch	8-DMP	.66	.55	.44
NJM2533D-ND	2-Input, 1-Output Video Switch	8-Dip	.51	.43	.34
NJM2533M-ND	2-Input, 1-Output Video Switch	8-DMP	.51	.43	.34
NJM2534D-ND	3-Input, 1-Output Video Switch	8-Dip	.66	.55	.44
NJM2534M-ND	3-Input, 1-Output Video Switch	8-DMP	.66	.55	.44
NJM2535D-ND	3-Input, 1-Output Video Switch	8-Dip	.66	.55	.44
NJM2535M-ND	3-Input, 1-Output Video Switch	8-DMP	.66	.55	.44
NJM2536AM-ND	RF Modulator for VHF Band	14-DMP	1.05	.88	.70
NJM2537V-TE1CT-ND	FM IF IC for Pagers	20-SSOP	2.70	2.25	1.80
NJM2537V-TE1TR-ND	FM IF IC for Pagers	20-SSOP		3150.00/2,000	
NJM2542V-TE1CT-ND	VIF/SIF Demodulator	20-SSOP	1.77	1.48	1.18
NJM2542V-TE1TR-ND	VIF/SIF Demodulator	20-SSOP		2065.00/2,000	
NJM2584D-ND	Wideband 3 Circuits Video Switch	16-Dip	1.68	1.40	1.12
NJM2584M-ND	Wideband 3 Circuits Video Switch	16-DMP	1.38	1.15	.92
NJM2595M-ND	5-Input, 3-Output Video Switch	16-DMP	1.77	1.48	1.18
NJM2596M-ND	5-Input, 3-Output Video Switch for S2	24-DMP	3.36	2.80	2.24
NJM2670D2-ND	Dual H Bridge Driver	22-Dip	4.83	4.03	3.22
NJM2670E3-ND	Dual H Bridge Driver	24-EMP	4.83	4.03	3.22
NJM#2902M-ND	Quad Single Supply Op Amp*	14-DMP	1.08	.90	.72
NJM#2902N-ND	Quad Single Supply Op Amp*	14-Dip	.72	.60	.48
NJM3359D-ND	Low Power Narrow Band FM IF	18-Dip	1.47	1.23	.98
NJM#3403AD-ND	Single Supply Quad Op Amp*	14-Dip	.96	.80	.64
NJM3403AM-ND	Single Supply Quad Op Amp	14-DMP	.96	.80	.64
NJM#3404AD-ND	Single Supply Dual Op Amp*	8-Dip	.48	.40	.32
NJM3404AM-ND	Single Supply Dual Op Amp	8-DMP	.54	.45	.36
NJU201AD-ND	CMOS Quad SPST Analog Switch	16-Dip	1.47	1.23	.98
NJU#201AM-ND	CMOS Quad SPST Analog Switch*	16-DMP	1.29	1.08	.86

* Lead Free/RoHS Compliant

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

EPSON ELECTRONICS AMERICA, INC. — REAL TIME CLOCK MODULES

Epson Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	50
RTC-4543SA-A0	SE3245CT-ND	Real Time Clock, 5±10ppm	14-SOP	5.04	4.32	3.60
RTC-4543SA-A0	SE3245TR-ND	Real Time Clock, 5±10ppm	14-SOP		2400.00/1,000	
RTC-62421A	SE3247-ND	Real Time Clock, ±10ppm	18-Dip	8.58	7.15	5.07
RTC-62421B	SE3248-ND	Real Time Clock, ±50ppm	18-Dip	7.74	6.45	4.57
RTC-62423A3	SE3249CT-ND	Real Time Clock, ±20ppm	24-SOP	12.25	10.50	8.75
RTC-62423A3	SE3249TR-ND	Real Time Clock, ±20ppm	24-SOP		1457.50/250	
RTC-72421A	SE3231-ND	Real Time Clock, ±10ppm	18-Dip	7.62	6.35	4.51
RTC-72421B	SE3232-ND	Real Time Clock, ±50ppm	18-Dip	7.05	5.88	4.18
RTC-72423A	SE3241-ND	Real Time Clock, ±20ppm	24-SOP	8.55	7.13	5.07
RTC-72423A3	SE3241TR-ND	Real Time Clock, ±20ppm	24-SOP		1187.50/250	
RTC-72423B	SE3242-ND	Real Time Clock, ±50ppm	24-SOP	7.50	6.25	4.44
RTC-72423B3	SE3242TR-ND	Real Time Clock, ±50ppm	24-SOP		1041.67/250	
RTC-8564JE3	SE3252CT-ND	Real Time Clock, 5±23ppm	20-VSOJ	5.88	5.04	4.20
RTC-8564JE3	SE3252TR-ND	Real Time Clock, 5±23ppm	20-VSOJ		697.50/250	
RX-8581SAB	SE3253-ND	Real Time Clock, 5±23ppm	14-SOP	3.50	3.00	2.50

B

National Semiconductor — INTERFACE CHIPS

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
CLC020BCQ-ND	SMPTE 259M Digital Video Serializer	28-PLCC	31.35	29.26	27.17
CLC021AVGZ-5.0-ND	SMPTE 259M Digital Video Serializer	44-PQFP	39.15	36.54	33.93
DP83223V-ND	Twister High-Speed Networking Transceiver Device	28-PLCC	15.93	13.65	12.11
DP83815DUJB-ND	Integrated PCI Ethernet Media Access Controller	160-LBGA	11.55	9.90	8.78
DP83815DVNG-ND	10/100Mb, Integrated PCI Ethernet Media Access Controller and Physical Layer	144-LQFP	9.38	8.04	7.13
DP83816AVNG-ND	10/100Mb/s PCI Ethernet Media Access Controller (MacPHYTER-II™)	144-LQFP	7.79	6.16	4.94
DP83843BVJE-ND	Phyter with Integrated PMD Sublayers	80-PQFP	11.92	10.22	9.06
DP83846AVHG-ND	DsPHYTER, Single 10/100 Ethernet Transceiver	80-LQFP	8.57	6.78	5.43
DP83847ALQA56A-ND	Single 10/100 Ethernet Transceiver	56-LLP	5.70	4.34	3.31
DP83865BVH-ND	10/100/1000 Ethernet Physical Layer (Gig PHYTER®V)	128-PQFP	16.63	14.25	12.64
DP83865DVH-ND	10/100/1000 Ethernet Physical Layer (Gig PHYTER®V) ***NEW!***	128-PQFP	16.63	14.25	12.64
DP83902AV-ND	Serial Network Interface Controller for Twisted Pair	84-PLCC	14.49	12.42	11.02
DP83902AVLJ-ND	Serial Network Interface Controller for Twisted Pair	100-PQFP	14.00	12.00	10.64
DP8573AN-ND	RealTime Clock	24-Dip	13.56	11.63	10.31
DS14C88M-ND	Quad CMOS Line Driver	14-SOIC	1.69	1.24	.90
DS14C88MXTR-ND	Quad CMOS Line Driver	14-SOIC		1434.38/2,500	
DS14C88N-ND	Quad CMOS Line Driver	14-Dip	1.55	1.15	.85
DS14C89AM-ND	Quad CMOS Line Receiver	14-SOIC	1.69	1.24	.90
DS14C89AMXTR-ND	Quad CMOS Line Receiver	14-SOIC		1434.38/2,500	
DS14C89AN-ND	Quad CMOS Line Receiver	14-Dip	1.55	1.15	.85
DS14C232CM-ND	Low Power +5V, Power TIA/EIA-232 Dual Driver/Receiver	16-SOIC	2.82	2.10	1.55
DS14C232CMXTR-ND	Low Power +5V, Power TIA/EIA-232 Dual Driver/Receiver	16-SOIC		2843.75/2,500	
DS14C232CN-ND	EIA232 Dual Driver/Receiver Low Power	16-Dip	3.07	2.28	1.69
DS14C232TM-ND	EIA232 Dual Driver/Receiver Low Power	16-SOIC	2.82	2.10	1.55
DS14C238WM-ND	Single Supply TIA/EIA-232 4x4 Driver/Receiver	24-SOIC	6.20	4.72	3.60
DS14C238WMXTR-ND	Single Supply TIA/EIA-232 4x4 Driver/Receiver	24-SOIC		3124.80/1,000	
DS14C241WM-ND	Single Supply TIA/EIA-232 4x5 Driver/Receiver	28-SOIC	5.25	4.15	3.33
DS14C335MSA-ND	3.3V, Supply TIA/EIA-232 3x5 Driver/Receiver	28-SSOP	5.54	4.39	3.52
DS14C535MSA-ND	5V, Supply EIA/TIA-232 3x5 Driver/Receiver	28-SSOP	5.45	4.15	3.17
DS26C31TM-ND	CMOS Quad Tri-State Differential Line Driver	16-SOIC	1.54	1.13	.82
DS26C31TMXTR-ND	CMOS Quad Tri-State Differential Line Driver	16-SOIC		1306.88/2,500	
DS26C31TN-ND	CMOS Quad RS422 Line Driver	16-Dip	1.69	1.24	.90
DS26C32ATM-ND	CMOS Quad RS422 Receiver	16-SOIC	1.69	1.24	.90
DS26C32ATMXTR-ND	CMOS Quad RS422 Receiver	16-SOIC		1434.38/2,500	
DS26C32ATN-ND	Quad Differential Line Receiver	16-Dip	1.67	1.25	.92
DS26LS31CM-ND	Quad High Speed Differential Line Driver	16-SOIC	1.54	1.13	.82
DS26LS31CMXTR-ND	Quad High Speed Differential Line Driver	16-SOIC		1306.88/2,500	
DS26LS31CN-ND	Quad High Speed Differential	16-Dip	1.69	1.24	.90
DS26LS32ACM-ND	Quad Differential Line Receiver	16-SOIC	1.54	1.13	.82
DS26LS32ACMXTR-ND	Quad Differential Line Receiver	16-SOIC		1306.88/2,500	
DS26LS32ACN-ND	Quad Differential Line Receiver	16-Dip	1.69	1.24	.90
DS26LS32CM-ND	Quad Differential Line Receiver	16-SOIC	1.54	1.13	.82
DS26LS32CN-ND	Quad Differential Line Receiver	16-Dip	1.54	1.13	.82
DS26LV31TM-ND	3V, Enhanced Quad CMOS Differential Line Driver	16-SOIC	1.67	1.25	.92
DS26LV32ATM-ND	3V, Enhanced Quad CMOS Differential Line Receiver	16-SOIC	1.67	1.25	.92
DS34C86TM-ND	Quad CMOS Differential Line Receiver	16-SOIC	1.69	1.24	.90
DS34C86TMXTR-ND	Quad CMOS Differential Line Receiver	16-SOIC		1434.38/2,500	
DS34C86TN-ND	Quad CMOS Differential Line Receiver	16-Dip	1.55	1.15	.85
DS34C87TM-ND	CMOS Quad Tri-State Differential Line Driver	16-SOIC	1.69	1.24	.90
DS34C87TMXTR-ND	CMOS Quad Tri-State Differential Line Driver	16-SOIC		1434.38/2,500	
DS34C87TN-ND	CMOS Quad Tri-State Differential Line Driver	16-Dip	1.69	1.24	.90
DS34LV86TM-ND	3V, Enhanced Quad CMOS Differential Line Receiver	16-SOIC	2.57	1.91	1.42
DS34LV87TM-ND	Enhanced Quad CMOS Differential Line Driver	16-SOIC	2.57	1.91	1.42
DS36C200M-ND	Dual High Speed Bi-Directional Diff. Transceiver	14-SOIC	2.98	2.21	1.64
DS36C278M-ND	Low Power Multipoint EIA-RS-485 Transceiver	8-SOIC	2.70	2.01	1.48
DS36C278N-ND	Low Power Multipoint EIA-RS-485 Transceiver	8-Dip	2.82	2.10	1.55
DS36C278TM-ND	Multipoint EIA Low Power Transceiver	8-SOIC	2.82	2.10	1.55
DS36C279M-ND	Low Power EIA-RS-485 Transceiver with Sleep Mode	8-SOIC	2.58	1.96	1.50
DS36C280M-ND	Slew Rate Controlled CMOS EIA-RS-485 Transceiver	8-SOIC	2.58	1.96	1.50
DS36F95M-ND	High Speed Multipoint RS485/422 Transceiver	8-SOIC	3.58	2.72	2.08
DS89C21TM-ND	Differential CMOS Line Driver/Receiver Pair	8-SOIC	2.60	1.94	1.43
DS89C386TMEA-ND	12-Channel CMOS Differential Line Receiver	48-SSOP	8.48	6.71	5.38
DS89C387TMEA-ND	12-Channel CMOS Differential Line Driver	48-SSOP	8.48	6.71	5.38
DS90C031BTM-ND	LVDS Quad CMOS Differential Line Driver	16-SOIC	3.38	2.57	1.96
DS90C031TM-ND	LVDS Quad CMOS Differential Line Driver	16-SOIC	3.38	2.57	1.96
DS90C031TMXTR-ND	LVDS Quad CMOS Differential Line Driver	16-SOIC		4218.75/2,500	
DS90C032BTM-ND	LVDS Quad CMOS Differential Line Receiver	16-SOIC	3.10	2.36	1.80
DS90C032TM-ND	LVDS Quad CMOS Differential Line Receiver	16-SOIC	3.10	2.36	1.80
DS90C032TMXTR-ND	LVDS Quad CMOS Differential Line Receiver	16-SOIC		3875.00/2,500	
DS90C383MTD-ND	LVDS 3.3V, FPD Link 24-Bit, Transmitter	56-TSSOP	6.07	4.80	3.85
DS90C385AMT-ND	+3.3V Prog. LVDS Transmitter 24-Bit Flat Panel Display Link, 85MHz ***NEW!***	56-TSSOP	5.99	4.74	3.80
DS90C387AVJD-ND	Dual Pixel LVDS Display Interface	100-TQFP	9.15	7.85	6.96
DS90C387RVJD-ND	85MHz Dual 12-Bit LDI Transmitter (VGA/UXGA)	100-TQFP	9.98	7.89	6.32
DS90C387VJD-ND	LVDS Dual Pixel Display Interface (LDI)-SVGA-OXGA	100-TQFP	9.15	7.85	6.96
DS90C401M-ND	LVDS Dual Low Volt Differential Signaling Driver	8-SOIC	2.50	1.90	1.45
DS90C402M-ND	LVDS Dual Low Volt Differential Signaling Receiver	8-SOIC	2.50	1.90	1.45

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	1
DS90C2501SLBCT-ND	Transmitter for LVDS Display Interface	Laminate CSP	13.97	11.97	10
DS90C2501SLBTR-ND	Transmitter for LVDS Display Interface	Laminate CSP		4987.50/500	
DS90CF364MTD-ND	LVDS 3.3V, FPD Link 18-Bit, Receiver	48-TSSOP	6.20	4.72	3
DS90CF364AMTD-ND	LVDS 3.3V, FPD Link-65MHz, 18-Bit, Receiver	48-TSSOP	5.99	4.74	3
DS90CF366MTD-ND	LVDS 3.3V, FPD Link-85MHz, 18-Bit, Receiver	48-TSSOP	6.99	5.53	4
DS90CF384AMTD-ND	LVDS 3.3V, FPD Link-65MHz, 24-Bit, Receiver	56-TSSOP	6.20	4.72	3
DS90CF384ASLC-ND	LVDS 3.3V, FPD Link-65MHz, 24-Bit, Receiver	64-FBGA	7.98	6.31	5
DS90CF383MTD-ND	LVDS 3.3V, FPD Link 24-Bit, Receiver	56-TSSOP	6.07	4.80	3
DS90CF384MTD-ND	LVDS 3.3V, FPD Link 24-Bit, Receiver	56-TSSOP	6.20	4.72	3
DS90CF386MTD-ND	LVDS 3.3V, FPD Link-85MHz, 24-Bit, Receiver	56-TSSOP	6.99	5.53	4
DS90CF388AVJD-ND	LVDS Dual Pixel Display Interface/FPD-Link	100-TQFP	9.15	7.85	6
DS90CF388VJD-ND	LVDS Dual Pixel Display Interface (LDI)-SVGA/OXGA	100-TQFP	9.15	7.85	6
DS90CF561MTD-ND	LVDS 18-Bit, Color, FPD Link	48-TSSOP	10.40	8.22	6
DS90CF562MTD-ND	LVDS 18-Bit, Color, FPD Link	48-TSSOP	10.40	8.22	6
DS90CF563MTD-ND	LVDS 5V, FPD Link 18-Bit, Transmitter	48-TSSOP	10.40	8.22	6
DS90CF564MTD-ND	LVDS 5V, FPD Link 18-Bit, Receiver	48-TSSOP	10.40	8.22	6
DS90CF584MTD-ND	LVDS 5V, FPD Link 24-Bit, Receiver	56-TSSOP	10.40	8.22	6
DS90CP04TLQCT-ND	4x4 Low Power 2.5 Gb/s LVDS Digital Cross-Point Switch	32-LLP	9.56	8.19	7
DS90CP04TLQTR-ND	4x4 Low Power 2.5 Gb/s LVDS Digital Cross-Point Switch	32-LLP		1733.55/250	
DS90CP22M-8-ND	2x2 800MBPS LVDS Crosspoint Switch	16-SOIC	6.57	5.20	4
DS90CP22MT-ND	2x2 800MBPS LVDS Crosspoint Switch ***NEW!***	16-TSSOP	6.57	5.20	4
DS90CR211MTD-ND	21-Bit, Channel Link, Transmitter, 40MHz	48-TSSOP	10.27	8.12	6
DS90CR212MTD-ND	21-Bit, Channel Link, Receiver, 40MHz	48-TSSOP	10.27	8.12	6
DS90CR213MTD-ND	21-Bit, Channel Link-66MHz, Transmitter	48-TSSOP	10.48	8.29	6
DS90CR214MTD-ND	21-Bit, Channel Link-66MHz, Receiver	48-TSSOP	10.48	8.29	6
DS90CR215MTD-ND	LVDS 3.3V, Rising Edge Data Strobe 21-Bit, Channel Link-66MHz, Transmitter	48-TSSOP	7.39	5.85	4
DS90CR216AMTD-ND	LVDS 3.3V, Rising Edge Data Strobe 21-Bit, Channel Link-66MHz, Receiver	48-TSSOP	6.41	5.07	4
DS90CR217MTD-ND	LVDS 3.3V, Rising Edge Data Strobe 21-Bit, Channel Link-85MHz	48-TSSOP	9.98	7.89	6
DS90CR218AMTD-ND	LVDS 3.3V, Rising Edge Data Strobe 21-Bit, Channel Link-85MHz	48-TSSOP	9.98	7.89	6
DS90CR218MTD-ND	LVDS 3.3V, Rising Edge Data Strobe 21-Bit, Channel Link-75MHz	48-TSSOP	8.67	6.86	5
DS90CR281MTD-ND	28-Bit, Channel Link, Transmitter	56-TSSOP	9.63	8.25	7
DS90CR282MTD-ND	28-Bit, Channel Link, Receiver	56-TSSOP	9.63	8.25	7
DS90CR283MTD-ND	28-Bit, Channel Link-66MHz, Transmitter	56-TSSOP	9.68	8.30	7
DS90CR284MTD-ND	28-Bit, Channel Link-66MHz, Receiver	56-TSSOP	9.68	8.30	7
DS90CR285MTD-ND	LVDS 3.3V, Rising Edge Data Strobe 28-Bit, Channel Link-66MHz, Transmitter	56-TSSOP	6.41	5.07	4
DS90CR285SLC-ND	LVDS 3.3V, Rising Edge Data Strobe 28-Bit, Channel Link-66MHz, Transmitter	64-FBGA	7.39	5.85	4
DS90CR286AMTD-ND	3.3V, Data Strobe LVDS Receiver 28-Bit Channel Link-66MHz	56-TSSOP	7.39	5.85	4
DS90CR286MTD-ND	LVDS 3.3V, Data Strobe 28-Bit, Channel Link-66MHz	56-TSSOP	6.41	5.07	4
DS90CR287MTD-ND	LVDS 3.3V, Rising Edge Data Strobe 28-Bit Channel Link-75MHz	56-TSSOP	11.81	10.13	8
DS90CR287SLC-ND	LVDS 3.3V, Rising Edge Data Strobe 28-Bit Channel Link-75MHz	64-FBGA	11.81	10.13	8
DS90CR288AMTD-ND	LVDS 3.3V, Rising Edge Data Strobe 28-Bit Channel Link-85MHz	56-TSSOP	11.81	10.13	8
DS90CR288ASLC-ND	LVDS 3.3V, Rising Edge Data Strobe 28-Bit Channel Link-85MHz	64-FBGA	11.81	10.13	8
DS90CR288MTD-ND	LVDS 3.3V, Rising Edge Data Strobe 28-Bit Channel Link-75MHz	56-TSSOP	11.90	10.20	9
DS90CR481VJD-ND	48-Bit LVDS Ch. Link SER/DES, 65-112MHz	100-TQFP	15.75	14.70	13
DS90CR482VS-ND	48-Bit LVDS Ch. Link SER/DES, 65-112MHz	100-TQFP	15.75	14.70	13
DS90CR483VJD-ND	48-Bit LVDS Ch. Link SER/DES, 33-112MHz	100-TQFP	15.75	14.70	13
DS90CR484VJD-ND	48-Bit LVDS Ch. Link SER/DES, 33-112MHz	100-TQFP	15.75	14.70	13
DS90CR485VS-ND	133MHz, 48-Bit Channel Link Serializer (6.384 Gbps)	100-TQFP	18.45	17.22	15
DS90CR486VS-ND	133MHz, 48-Bit Channel Link Deserializer (6.384 Gbps)	100-TQFP	18.45	17.22	15
DS90CR562MTD-ND	LVDS 18-Bit, FPD Link	48-TSSOP	9.89	8.48	7
DS90CR581MTD-ND	LVDS Transmitter 24-Bit, FPD Link	56-TSSOP	9.09	7.19	5
DS90CF386SLC-ND	3.3V, LVDS Receiver, 24-Bit Flat Panel Display	64-FBGA	7.98	6.31	5
DS90LV001TLDCT-ND	3.3V LVDS-LVDS Buffer	8-LLP	2.36	1.75	
DS90LV001TLDTR-ND	3.3V LVDS-LVDS Buffer	8-LLP		972.80/1,0	
DS90LV001TM-ND	3.3V, LVDS-LVDS Buffer	8-SOIC	2.36	1.75	
DS90LV011ATLDCT-ND	3V, LVDS Single High Speed Differential Driver	8-LLP	1.78	1.31	
DS90LV011ATLDTR-ND	3V, LVDS Single High Speed Differential Driver	8-LLP		617.50/1,0	
DS90LV011ATMFCT-ND	3V, LVDS Single High Speed Differential Driver	SOT-23	1.35	.99	
DS90LV011ATMFTR-ND	3V, LVDS Single High Speed Differential Driver	SOT-23		468.00/1,0	
DS90LV017ATM-ND	LVDS Single High Speed Differential Driver	8-SOIC	1.88	1.40	
DS90LV017M-ND	LVDS Single High Speed Differential Driver	8-SOIC	1.64	1.22	
DS90LV018ATM-ND	LVDS 3V, Single CMOS Differential Line Receiver	8-SOIC	1.88	1.40	
DS90LV019TM-ND	LVDS 3.3V, or 5V, Driver/Receiver	14-SOIC	2.73	2.08	
DS90LV019TMTC-ND	3.3V or 5V, LVDS Driver/Receiver	14-TSSOP	2.65	2.02	
DS90LV027ATM-ND	LVDS Dual High Speed Differential Driver	8-SOIC	2.85	2.12	
DS90LV027M-ND	LVDS Dual High Speed Differential Driver	8-SOIC	2.91	2.17	
DS90LV028ATLDCT-ND	LVDS 3V, Dual CMOS Differential Line Receiver	8-LLP	2.85	2.12	
DS90LV028ATLDTR-ND	LVDS 3V, Dual CMOS Differential Line Receiver	8-LLP		1177.60/1,0	
DS90LV028ATM-ND	LVDS 3V, Dual CMOS Differential Line Receiver	8-SOIC	2.85	2.12	
DS90LV031ATM-ND	LVDS 3V, Quad CMOS Differential Line Driver	16-SOIC	3.08	2.34	
DS90LV031ATMTC-ND	LVDS 3V, Quad CMOS Differential Line Driver	16-TSSOP	3.08	2.34	
DS90LV031ATMXTR-ND	LVDS 3V, Quad CMOS Differential Line Driver	16-SOIC		3843.75/2,5	
DS90LV031BTM-ND	LVDS 3V, Quad CMOS Differential Line Driver	16-SOIC	3.08	2.34	
DS90LV032ATM-ND	LVDS 3V, Quad CMOS Differential Line Receiver	16-SOIC	2.85	2.17	
DS90LV032ATMTC-ND	LVDS 3V, Quad CMOS Differential Line Receiver	16-TSSOP	2.85	2.17	
DS90LV047ATM-ND	LVDS 3V, Quad CMOS Differential Line Driver	16-SOIC	3.08	2.34	
DS90LV047ATMTC-ND	LVDS 3V, Quad CMOS Differential Line Driver	16-TSSOP	3.08	2.34	
DS90LV048ATM-ND	LVDS 3V, Quad CMOS Differential Line Receiver	16-SOIC	3.08	2.34	
DS90LV048ATMTC-ND	LVDS 3V, Quad CMOS Differential Line Receiver	16-TSSOP	3.08	2.34	
DS90LV049TMT-ND	3V LVDS Dual Line Driver w/Dual Line Receiver ***NEW!***	16-TSSOP	2.95	2.19	
DS90LV110ATMT-ND	1-to-10 LVDS Data/Clock Distributor w/Failsafe ***NEW!***	28-TSSOP	10.46	8.27	
DS90LV110TMTC-ND	1-to-10 LVDS Data/Clock Distributor	28-TSSOP	10.46	8.27	
DS92CK16TMTC-ND	BLVDS 3V, 1 to 6 Clock Buffer/Bus Transceiver	24-TSSOP	5.96	4.72	
DS92LV010ATM-ND	Bus LVDS 3.3/5.0V, Single Transceiver	8-SOIC	3.20	2.44	
DS92LV040ATLQACT-ND	LVDS 4-Channel Bus Transceiver	44-LLP	6.97	5.52	
DS92LV040ATLQATR-ND	LVDS 4-Channel Bus Transceiver	44-LLP		1054.10/25	
DS92LV090ATVEH-ND	LVDS 9-Channel Transceiver	64-LQFP	9.14	7.83	
DS92LV16TVHG-ND	16-Bit, Bus LVDS Serializer/Deserializer	80-LQFP	13.97	11.97	1
DS92LV18TVV-ND	18-Bit, Bus LVDS Serializer/Deserializer	80-PQFP	16.54	14.18	1

★ ***CALL FOR LOWER PRICING ON LARGER QUANTITIES!*** ★

-Key t No.	Description	Pkg.	Price Each★ 1	25	100
002-ND	30A, Sync. Buck Multiphase Optimized BGA Power Block	8-BGA	16.25	12.00	11.03
002TR-ND	30A, Sync. Buck Multiphase Optimized BGA Power Block	8-BGA		9869.00/1,000	
003-ND	40A, Sync. Buck Multiphase Optimized LGA Power Block	11x11mm LGA	17.89	12.72	11.53
031S-ND	Low Side Driver	D2-PAK	3.60	2.88	2.07
512G-ND	High Side Driver	16-SOIC	4.55	3.64	2.62
5551T-ND	High Side Driver	TO-220	9.00	7.20	5.18
1H224-ND	Self-Oscillating Half-Bridge Driver	9-Sip	4.38	3.50	2.70
1H310-ND	Self-Oscillating Half-Bridge Driver	9-Sip	4.13	3.30	2.54
1H420-ND	Self-Oscillating Half-Bridge Driver	9-Sip	4.88	3.90	3.00
3HD420-ND	Self-Oscillating Half-Bridge Driver	9-Sip	4.98	3.98	3.06
176-ND	5V, 4A, Synchronous Rectifier Driver	20-PDip	7.63	5.24	4.58
176S-ND	5V, 4A, Synchronous Rectifier Driver	20-SSOP	7.75	5.32	4.65
085S-ND	Self-Oscillating Half-Bridge Driver	8-SOIC	3.99	2.61	2.30
085STRTR-ND	Self-Oscillating Half-Bridge Driver	8-SOIC		4785.00/2,500	
101-ND	High and Low Side Driver	8-Dip	2.27	1.65	1.57
101S-ND	High and Low Side Driver	8-SOIC	2.40	1.92	1.48
102-ND	High and Low MOS Driver	8-Dip	3.00	2.40	1.85
102S-ND	High and Low MOS Driver	8-SOIC	3.33	2.66	2.05
103-ND	High and Low Side Driver	8-Dip	3.00	2.40	1.85
103S-ND	High and Low MOS Driver	8-SOIC	2.40	1.92	1.48
104-ND	High and Low Side Driver	8-Dip	3.11	1.93	1.70
104S-ND	High and Low Side Driver	8-SOIC	1.60	1.28	.99
104STR-ND	High and Low Side Driver	8-SOIC		2195.00/2,500	
106-ND	High and Low Side Driver	8-Dip	2.95	2.14	2.03
106S-ND	High and Low Side Driver	8-SOIC	3.38	2.70	2.08
107-ND	High and Low Side Driver	8-Dip	2.97	2.38	1.79
108-ND	High and Low Side Driver	8-Dip	2.95	2.14	2.03
108S-ND	High and Low Side Driver	8-SOIC	3.38	2.70	2.08
109-ND	Half-Bridge Driver	8-Dip	3.30	2.64	2.03
109S-ND	Half-Bridge Driver	8-SOIC	3.38	2.70	2.08
109STR-ND	Half-Bridge Driver	8-SOIC		2195.00/2,500	
110-ND	High and Low Side Driver	14-Dip	5.13	3.33	2.97
110-1PBF-ND	High and Low Side Driver ***NEW!***	14-Dip	5.38	4.43	3.59
110S-ND	High and Low Side Driver	16-SOIC	4.00	3.20	2.47
110STR-ND	High and Low Side Driver	16-SOIC		2090.00/1,000	
111-ND	Half-Bridge Driver	8-Dip	2.58	1.61	1.42
111S-ND	Half-Bridge Driver	8-SOIC	1.88	1.50	1.16
111STR-ND	Half-Bridge Driver	8-SOIC		2532.50/2,500	
112-ND	High and Low Side Driver	14-Dip	2.46	1.78	1.70
112S-ND	High and Low Side Driver	16-SOIC	3.00	2.40	1.85
112STR-ND	High and Low Side Driver	16-SOIC		2138.00/1,000	
113-ND	High and Low Side Driver	14-Dip	5.61	3.68	3.29
113S-ND	High and Low Side Driver	16-SOIC	4.38	3.50	2.69
117-ND	Single-Channel Driver	8-Dip	1.88	1.37	1.30
117S-ND	Single-Channel Driver	8-SOIC	2.34	1.88	1.44
117STR-ND	Single-Channel Driver	8-SOIC		4387.50/2,500	
118-ND	High Side Driver	8-Dip	2.40	1.92	1.48
118S-ND	High Side Driver	8-SOIC	2.57	2.06	1.58
121-ND	Current Limiting Low Side Driver	8-Dip	3.38	2.70	2.08
122-ND	High Side Driver	8-Dip	4.75	3.80	2.93
125-ND	Current Limiting Single-Channel Driver	8-Dip	5.25	3.80	3.62
125S-ND	Current Limiting Single-Channel Driver	16-SOIC	6.00	4.80	3.70
127-ND	Current Sensing Single-Channel Driver	8-Dip	3.80	2.74	2.62
127S-ND	Current Sensing Single-Channel Driver	8-SOIC	2.38	1.90	1.47
127STR-ND	Current Sensing Single-Channel Driver	8-SOIC		3207.50/2,500	
128-ND	High Side Driver	8-Dip	4.25	3.40	2.62
128S-ND	High Side Driver	8-SOIC	4.75	3.80	2.93
130-ND	3-Phase Bridge Driver	28-Dip	11.93	8.60	8.22
130J-ND	3-Phase Bridge Driver	44-PLCC	14.25	11.40	8.78
130S-ND	3-Phase Bridge Driver	28-SOIC	10.83	8.67	6.68
131-ND	Triple High and Low Side Driver	28-Dip	13.35	10.68	8.22
131J-ND	Triple High and Low Side Driver	44-PLCC	14.25	11.40	8.78
131S-ND	Triple High and Low Side Driver	28-SOIC	14.25	11.40	8.78
132-ND	3-Phase Bridge Driver	28-Dip	13.35	10.68	8.22
132S-ND	3-Phase Bridge Driver	28-SOIC	14.25	11.40	8.78
133-ND	3-Phase Bridge Driver	28-Dip	14.25	11.40	8.78
133J-ND	3-Phase Bridge Driver	44-PLCC	13.18	9.53	9.09
133S-ND	3-Phase Bridge Driver	28-SOIC	14.25	11.40	8.78
135-ND	3-Phase Bridge Driver	28-Dip	14.25	11.40	8.78
135J-ND	3-Phase Bridge Driver	44-PLCC	14.75	11.80	9.09
135S-ND	3-Phase Bridge Driver	28-SOIC	14.25	11.40	8.78
136-ND	3-Phase Bridge Driver	28-Dip	7.60	5.49	5.24
136J-ND	3-Phase Bridge Driver	44-PLCC	8.75	7.00	5.39
136S-ND	3-Phase Bridge Driver	28-SOIC	8.50	6.80	5.24
151-ND	Half-Bridge Driver	8-Dip	3.00	2.40	1.85
151S-ND	Half-Bridge Driver	8-SOIC	3.33	2.66	2.05
151STR-ND	Half-Bridge Driver	8-SOIC		4657.50/2,500	
153-ND	Self-Oscillating Half-Bridge Driver	8-Dip	2.52	1.57	1.39
153D-ND	Self-Oscillating Half-Bridge Driver	8-Dip	3.31	2.33	1.86
153S-ND	Half-Bridge Driver	8-SOIC	1.68	1.34	1.04
153STR-ND	Half-Bridge Driver	8-SOIC		4657.50/2,500	
155-ND	Half-Bridge Driver	8-Dip	3.30	2.64	2.04
172-ND	Current Sensing Motor Drive	8-Dip	7.00	5.60	4.20
172S-ND	Current Sensing Motor Drive	8-SOIC	7.13	5.70	4.28
182-ND	High and Low Side Driver	8-Dip	3.38	2.70	2.03
184-ND	High and Low Side Driver	8-Dip	3.38	2.70	2.03
184S-ND	High and Low Side Driver	8-SOIC	3.49	2.79	2.10
213S-ND	High and Low Side Driver	16-SOIC	9.00	7.20	5.54
214SS-ND	High Side Gate Driver ***NEW!***	24-SSOP	10.35	7.20	6.75
233-ND	3-Phase Bridge Driver	28-Dip	37.50	30.00	23.10
233J-ND	3-Phase Bridge Driver	44-PLCC	26.81	19.39	18.48
233S-ND	3-Phase Bridge Driver	28-SOIC	30.00	24.00	18.48
235-ND	3-Phase Bridge Driver	28-Dip	37.50	30.00	23.10
235J-ND	3-Phase Bridge Driver	44-PLCC	37.50	30.00	23.10
235S-ND	3-Phase Bridge Driver	28-SOIC	37.50	30.00	23.10
301-ND	High and Low Side Driver	8-Dip	3.00	1.85	1.63
301S-ND	High and Low Side Driver	8-SOIC	3.06	1.89	1.67
301STRTR-ND	High and Low Side Driver	8-SOIC		3550.00/2,500	
302-ND	Half-Bridge Driver	8-Dip	3.00	1.85	1.63
302S-ND	Half-Bridge Driver	8-SOIC	3.06	1.89	1.67
080M-ND	XPHASE™ VRD10 Controller	32-MLPQ	3.78	2.47	2.19
081M-ND	XPHASE™ VR10.0 Controller	28-MLPQ	3.56	2.30	2.04
086M-ND	XPHASE™ Controller	20-MLPQ	2.79	1.71	1.49

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
IR3087M-ND	XPHASE™ with OPTI-PHASE™, OVP, Over Temperature	20-MLPQ	2.82	1.65	1.46
IR3092M-ND	2-Phase Opteron, Athlon, or VR10.X Control IC	48-MLPQ	6.36	3.93	3.52
IR3101-ND	1.6A, 500V, Half-Bridge FredFet Driver	9-Sip	6.25	4.13	3.75
IR3220S-ND	Fully Protected H-Bridge for DC Motor	20-SOIC	7.25	4.93	4.35
IR4426-ND	Low Side Driver	8-Dip	1.78	1.42	.95
IR4426S-ND	Low Side Driver	8-SOIC	1.91	1.53	1.15
IR4427-ND	Low Side Driver	8-Dip	1.80	1.44	1.08
IR4427S-ND	Low Side Driver	8-SOIC	1.91	1.53	1.15
IR4428-ND	Low Side Driver	8-Dip	1.80	1.44	1.08
IR4428S-ND	Low Side Driver	8-SOIC	1.91	1.53	1.15
IR6210-ND	High Side Driver	TO-220-5	4.98	3.98	3.06
IR6210S-ND	High Side Driver	TO-220-5	4.39	3.51	2.71
IR6216-ND	High Side Driver	TO-220-5	4.98	3.98	3.06
IR6220S-ND	High Side Driver	TO-220-5	3.50	2.80	2.16
IR6220STRL-ND	High Side Driver	TO-220-5		1512.00/800	
IR21064-ND	High and Low Side Driver	14-Dip	3.38	2.70	2.08
IR21064S-ND	High and Low Side Driver	14-SOIC	3.43	2.74	2.11
IR21074-ND	High and Low Side Driver	14-Dip	3.45	2.76	2.13
IR21084-ND	High and Low Side Driver	14-Dip	3.38	2.70	2.08
IR21084S-ND	High and Low Side Driver	14-SOIC	3.43	2.74	2.11
IR21094-ND	Half-Bridge Driver	14-Dip	2.13	1.70	1.31
IR21094S-ND	Half-Bridge Driver	14-SOIC	1.92	1.54	1.19
IR21271-ND	600V, 200/420mA Current Sensing Single Channel Driver	8-Dip	4.76	3.06	2.76
IR21271S-ND	600V, 200/420mA Current Sensing Single Channel Driver	8-SOIC	5.23	3.42	3.04
IR21362-ND	3-Phase Bridge Driver	28-Dip	8.50	6.80	5.24
IR21362S-ND	3-Phase Bridge Driver	28-SOIC	8.50	6.80	5.24
IR21531-ND	Half-Bridge Driver	8-Dip	3.13	2.50	1.93
IR21531D-ND	Self-Oscillating Half-Bridge Driver	8-Dip	2.90	2.33	1.75
IR21531S-ND	Half-Bridge Driver	8-SOIC	3.18	2.54	1.96
IR21571-ND	Ballast Control	16-Dip	4.50	3.60	2.77
IR21571S-ND	Ballast Control	16-SOIC	4.63	3.70	2.86
IR21592-ND	Dimming Ballast Control	16-Dip	5.89	3.71	3.45
IR21593-ND	Dimming Ballast Control	16-Dip	5.89	3.71	3.45
IR21593S-ND	Dimming Ballast Control	16-SOIC	6.02	3.80	3.53
IR21824-ND	High and Low Side Driver	14-Dip	3.49	2.79	2.10
IR21824S-ND	High and Low Side Driver	14-SOIC	3.60	2.88	2.16
IR21844-ND	High and Low Side Driver	14-Dip	3.49	2.79	2.10
IR21844S-ND	High and Low Side Driver	14-SOIC	3.60	2.88	2.16
IR22141SS-ND	Half-Bridge Gate Driver ***NEW!***	24-SSOP	10.35	7.20	6.75
IRAMS06UP60A-ND	600V, 6A Plug N Drive™ Integrated Power Module for Appliance Motor Drive	Module	21.32	16.24	14.21
IRAMS06UP60B-ND	600V, 6A Plug N Drive™ Integrated Power Module for Appliance Motor Drive	Module	22.26	16.43	15.06
IRAMS10UP60A-ND	600V, 10A Plug N Drive™ Integrated Power Module for Appliance Motor Drive	Module	23.42	17.29	15.84
IRAMS10UP60B-ND	600V, 10A Plug N Drive™ Integrated Power Module for Appliance Motor Drive	Module	23.40	17.91	16.38
IRAMX16UP60A-ND	600V, 16A Plug N Drive™ Integrated Power Module for Appliance Motor Drive	Module	31.70	25.36	22.19
IRSF3011-ND	Low Side Driver	TO-220AB	4.38	3.50	2.70
IRSF3011L-ND	Low Side Driver	SOT-223	3.50	2.80	2.16
IRSF3021-ND	Low Side Driver	TO-220AB	4.13	3.30	2.54
IRSF3031-ND	Low Side Driver	TO-220AB	4.13	3.30	2.54
	Switching ICs				
IPS021-ND	Fully Protected Power MOSFET Switch	TO-220AB	2.00	1.60	1.16
IPS021L-ND	Fully Protected Power MOSFET Switch	SOT-223	1.39	1.17	.90
IPS021S-ND	Fully Protected Power MOSFET Switch	SMD-220	2.40	1.92	1.38
IPS022G-ND	Dual Fully Protected Power MOSFET Switch	8-SOIC	2.50	2.00	1.44
IPS022GTR-ND	Dual Fully Protected Power MOSFET Switch	8-SOIC		4050.00/2,500	
IPS024G-ND	Low Side Driver	16-SOIC	4.97	3.98	2.86
IPS031-ND	Fully Protected Power MOSFET Switch	TO-220	3.04	2.55	1.96
IPS031G-ND	Single/Dual Fully Protected Power MOSFET Switch	8-SOIC	2.52	2.02	1.52
IPS032G-ND	Single/Dual Fully Protected Power MOSFET Switch	16-SOIC	4.07	3.26	2.45
IPS041L-ND	Fully Protected Power MOSFET Switch	SOT-223	1.15	.92	.67
IPS042G-ND	Dual Fully Protected Power MOSFET Switch	8-SOIC	2.55	2.04	1.47
IPS511-ND	Fully Protected High-Side Power MOSFET Switch	TO-220-5	3.00	2.40	1.73
IPS511G-ND	Fully Protected High-Side Power MOSFET Switch	8-SOIC	2.03	1.23	1.08
IPS511GTR-ND	Fully Protected High-Side Power MOSFET Switch	8-SOIC		3207.50/2,500	
IPS511S-ND	Fully Protected High-Side Power MOSFET Switch	SMD-220-5	3.20	2.56	1.84
IPS521-ND	Fully Protected High-Side Power MOSFET Switch	TO-220	3.75	3.15	2.42
IPS521F-ND	Fully Protected High-Side Power MOSFET Switch	TO-220-5	4.60	3.68	2.76
IPS521G-ND	Fully Protected High-Side Power MOSFET Switch	8-SOIC	3.60	2.88	2.16
IPS521S-ND	Fully Protected High-Side Power MOSFET Switch	D2-PAK	4.82	3.35	2.72
IPS0151-ND	Fully Protected Power MOSFET Switch	TO-220AB	4.20	3.36	2.42
IPS0151S-ND	Fully Protected Power MOSFET Switch	D2-PAK	4.40	3.52	2.64
IPS0551T-ND	Fully Protected Power MOSFET Switch	TO-220	8.00	6.40	4.80
IPS5451-ND	Fully Protected High-Side Power MOSFET Switch	TO-220-5	5.00	4.00	2.88
IR1150SCT-ND	One Cycle Control PFC IC ***NEW!***	8-SOIC	3.45	2.07	1.84
IR1150STR-ND	One Cycle Control PFC IC ***NEW!***	8-SOIC		3737.50/2,500	
IR2156-ND	600V, 0.5A Ballast Control IC	14-PDip	3.30	2.13	1.92
IR2156S-ND	600V, 0.5A Ballast Control IC	14-SOIC	3.36	2.16	1.95
IR2166-ND	600V, 500mA PFC and Ballast Control IC	16-Dip	3.63	2.90	2.32
IR2166S-ND	600V, 500mA PFC and Ballast Control IC	16-SOIC	3.68	2.94	2.36
IR2170-ND	600V, 1mA Over Current Sensing IC	8-PDip	5.63	3.86	3.38
IR2170S-ND	600V, 1mA Over Current Sensing IC	8-SOIC	5.75	3.95	3.45
IR2171-ND	600V, 1mA Linear Current Sensing IC	8-PDip	6.25	4.29	3.75
IR2171S-ND	600V, 1mA Linear Current Sensing IC	8-SOIC	6.38	4.38	3.83
IR2181-ND	600V, 1.7A High and Low Side Driver	8-PDip	4.20	2.70	2.43
IR21814-ND	600V, 1.7A High and Low Side Driver	14-PDip	4.34	2.79	2.52
IR21814S-ND	600V, 1.7A High and Low Side Driver	14-SOIC	4.48	2.88	2.60
IR2183-ND	600V, Half Bridge Driver	8-PDip	4.20	2.70	2.43
IR2183S-ND	600V, Half Bridge Driver	8-SOIC	4.34	2.79	2.52
IR2304-ND	Half Bridge Driver	8-PDip	3.23	1.90	1.67
IR3310-ND	Programmable, Current Sensing, High Side Switch	TO-220-5	5.38	3.66	3.23
IR3310S-ND	1-Channel, Intelligent Power Switch, High Side Driver	D2-PAK-5	5.75	3.91	3.45
IR3311-ND	Programmable, Current Sensing, High Side Switch	TO-220-5	5.25	3.57	3.15
IR3311S-ND	Programmable, Current Sensing, High Side Switch	D2-PAK	5.91	3.66	3.44
IR3312-ND	Programmable, Current Sensing, High Side Switch	TO-220-5	4.81	3.07	2.80
IR3312S-ND	Programmable, Current Sensing, High Side Switch	D2-PAK	4.95	3.06	2.88
IR6224-ND	Intelligent High Side MOSFET Power Switch	TO-220	5.63	4.50	3.38
IR6224S-ND	Intelligent High Side MOSFET Power Switch	D2-PAK	5.88	4.70	3.53
IR21834SCT-ND	600V, Half Bridge Driver	14-SOIC	4.62	3.30	2.89
IR21834STR-ND	600V, Half Bridge Driver	14-SOIC		5445.00/2,500	
IRDCIP1001-A-ND	Single Phase Synchronous Buck Converter, 3.3V to 4.5V	—	368.75	—	—

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EPSON — APPLICATION SPECIFIC INTEGRATED CIRCUITS

Our LCD controllers feature high-performance, low power consumption. These LCD controllers can be used on a variety of CPUs. The product line up supports a wide range of LCD panels, including those from small to large scale and those from monochrome to color.

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
Graphics					
S1D13506F00A200-ND	Color CRT/LCD/TV Controller, 64K Colors	128-QFP	13.94	12.56	11.14
S1D13706F00A200-ND	80K Byte Embedded Memory LCD Controller	100-TQFP	14.49	13.05	11.58
S1D13A03B00B200-ND	112K Byte Embedded Memory LCD/USB Companion	121-PFBGA	15.50	14.47	13.43
S1D13A04B00B200-ND	112K Byte Embedded Memory LCD/USB Companion	121-PFBGA	16.80	15.68	14.56
S1D13A04F00A100-ND	112K Byte Embedded Memory LCD/USB Companion	128-TQFP	15.83	14.77	13.72
S1D13A05B00B200-ND	256K Byte Embedded Memory LCD/USB Companion	121-PFBGA	13.71	12.80	11.89
S1D13700F01A100-ND	32K Byte Embedded Memory B/W STN LCDC	64-QFP	9.00	7.20	6.08
S1D13701F00A100-ND	OLED Controller with Embedded Memory	64-QFP	10.33	9.30	8.25
Graphic Evaluations					
S5U13706P00C000-ND	SED1376F0A Evaluation Board	—	577.50	—	—
S5U13A03P00C000-ND	SED13A3F0A Evaluation Board	—	577.50	—	—

The Application Specific Standard Product line up includes ICs for high-speed serial interfaces, such as IEEE 1394, USB 2.0 and USB OTG, as well as the network controller family of products, which uses TCP/IP protocol to monitor and communicate between different hubs.

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
ASSP					
IEEE 1394 Controller					
S1R72803F00A200-ND	1394 Link Controller IDE-66	184-QFP	15.24	13.73	12.17
S1R72805F00A2-ND	1394 Link Controller IDE-100	100-QFP	14.34	12.92	11.46
S1R72901F00A-ND	1394 Link Controller and PHY	100-QFP	16.51	14.87	13.19
USB OTG Controller					
S1R72005F00A100-ND	USB OTG Controller and PHY	64-QFP	9.92	7.94	6.70
USB 2.0 Controller					
S1R720G0F00A000-ND	USB 2.0 PHY	64-QFP	11.33	10.20	9.05
Network Controllers					
S1S65000F00A100-ND	Web Camera IC	128-QFP	18.00	16.80	15.60

The power supply ICs include DC to DC Converters, DC to DC Converters and Voltage Regulators, High Precision Voltage Detectors and Regulators, Power Supply ICs for passive and active LCDs, Power Supply ICs for Logic Switching Regulators.

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
Power ICs					
S1F75510M0A010BCT-ND	Charge Pump DC/DC Converter and Voltage Regulator	24-SSOP	4.46	3.57	2.78
S1F75510M0A010BTR-ND	Charge Pump DC/DC Converter and Voltage Regulator	24-SSOP	7484.40/3,000		
S1F75540F5A0000-ND	Charge Pump DC/DC Converter and Voltage Regulator	64-QFN	5.46	4.37	3.69
S1F77500M0A0100-ND	Single Cell Li-Ion Charge/Discharge Controller with Fuel Gauge	24-SSOP	3.96	3.17	2.47
S1F77600Y0A000L-ND	Battery Liquid Leak Prevention and Protection Circuit IC	SOT-89	1.29	1.08	.86
S1F77601Y0A000L-ND	Battery Liquid Leak Prevention and Protection Circuit IC	SOT-89	1.29	1.08	.86
S1F77602Y0A000L-ND	Battery Liquid Leak Prevention and Protection Circuit IC	SOT-89	1.29	1.08	.86
S1F77603Y0A000L-ND	Battery Liquid Leak Prevention and Protection Circuit IC	SOT-89	1.29	1.08	.86
S1F78520M0A0100-ND	Charge Pump Step Down Regulator with Power Saving Mode	24-SSOP	4.23	3.39	2.64
S1F81100F0R2000-ND	System Power Supply - 4 Channel Regulator, Suitable for Intel Xscale	48-QFP	5.68	4.55	3.84
S1F81150F0A2000-ND	System Power Supply - 6 Channel Regulator, Suitable for Intel Xscale	48-QFP	7.10	5.68	4.80

MAXIM — SPECIALIZED INTEGRATED CIRCUITS

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MAX192BCAP-ND	Low Power 8-Channel 10-Bit ADC	20-SSOP	16.96	12.80	8.21
MAX192BCPP-ND	Low Power 8-Channel 10-Bit ADC	20-Dip	15.42	11.64	7.46
MAX192BCWP-ND	Low Power 8-Channel 10-Bit ADC	20-SOIC	15.42	11.64	7.46
MAX194BCWE-ND	14-Bit 85KSPS ADC with 10µA Shutdown	16-SOIC	36.68	27.68	17.75
MAX195BCPE-ND	16-Bit 85KSPS ADC with 10µA Shutdown	16-Dip	67.60	51.02	32.71
MAX195BCWE-ND	16-Bit 85KSPS ADC with 10µA Shutdown	16-SOIC	67.60	51.02	32.71
MAX195BEWE-ND	16-Bit 85KSPS ADC with 10µA Shutdown	16-SOIC	87.87	66.32	39.01
MAX196BCAI-ND	6-Channel Multi-Range 12-Bit ADC Parallel Interface	28-SSOP	28.28	21.34	13.69
MAX196BCNI-ND	6-Channel Multi-Range 12-Bit ADC Parallel Interface	28-Dip	27.22	20.54	13.16
MAX197ACWI-ND	8-Channel Multi-Range 12-Bit DAS Parallel Interface ***NEW!***	28-SOIC	35.35	26.68	16.01
MAX197BCAI-ND	8-Channel Multi-Range 12-Bit DAS Parallel Interface	28-SSOP	28.28	21.34	13.69
MAX197BCNI-ND	8-Channel Multi-Range 12-Bit DAS Parallel Interface	28-Dip	27.22	20.54	13.16
MAX200CPP-ND	+5V Powered, Five RS-232 Trans. with Power Shutdown and .1µF External Capacitors	20-Dip	8.24	6.22	3.99
MAX201CPD-ND	+5V/+9V to +13.2V, Dual RS-232 Transceiver with .1µF External Capacitors	14-Dip	3.31	2.50	1.60
MAX201CWE-ND	+5V/+9V to +13.2V, Dual RS-232 Transceiver with .1µF External Capacitors	16-SOIC	3.31	2.50	1.60
MAX202CPE-ND	+5V Dual RS-232 Transceiver with .1µF External Caps	16-Dip	3.31	2.50	1.60
MAX202CSE-ND	+5V Dual RS-232 Transceiver with .1µF External Caps	16-SOIC	3.31	2.50	1.60
MAX202CWE-ND	+5V Dual RS-232 Transceiver with .1µF External Caps	16-SOIC	3.31	2.50	1.60
MAX202ECPE-ND	+5V RS-232 Transceiver, ESD Protected	16-Dip	4.19	3.16	2.02
MAX202ECSE-ND	+5V RS-232 Transceiver, ESD Protected	16-SOIC	4.19	3.16	2.02
MAX202ECWE-ND	+5V RS-232 Transceiver, ESD Protected	16-SOIC	4.19	3.16	2.02
MAX202EESE-ND	+5V RS-232 Transceiver, ESD Protected	16-SOIC	5.41	4.08	2.62
MAX202ESE-ND	+5V Dual RS-232 Transceiver with .1µF External Caps	16-SOIC	3.98	3.00	1.92
MAX203CPP-ND	Complete, +5V Powered, Dual RS-232 Transceiver	20-Dip	7.45	5.62	3.60
MAX203CWP-ND	+5V Powered, Dual RS-232 Transceiver	20-SOIC	7.45	5.62	3.60
MAX203ECWP-ND	+5V RS-232 Transceiver, ESD Protected	20-SOIC	8.14	6.14	3.93
MAX203EEWP-ND	+5V RS-232 Transceiver, ESD Protected	20-SOIC	11.61	8.76	5.61
MAX204CPE-ND	+5V Quad RS-232 Transceiver with .1µF External Capacitors	16-Dip	5.88	4.44	2.85
MAX205CPG-ND	Complete, +5V Pwrd, 5-Channel RS-232 Transceiver	24-Dip	16.38	12.36	7.5
MAX206CNG-ND	5V RS-232 Transceiver with .1µF External Caps, 4 Drivers/3 Receivers	24-Dip	7.55	5.70	3.5
MAX206CWG-ND	5V RS-232 Transceiver with .1µF External Caps, 4 Drivers/3 Receivers	24-SOIC	7.55	5.70	3.5
MAX207CNG-ND	5V RS-232 Transceiver with .1µF External Caps, 5 Drivers/3 Receivers	24-Dip	7.55	5.70	3.5
MAX207CWG-ND	5V RS-232 Transceiver with .1µF External Caps, 5 Drivers/3 Receivers	24-SOIC	7.55	5.70	3.5
MAX208CAG-ND	5V RS-232 Transceiver with .1µF External Caps, 4 Drivers/4 Receivers	24-SSOP	7.95	6.00	3.5
MAX208CNG-ND	5V RS-232 Transceiver with .1µF External Caps, 4 Drivers/4 Receivers	24-Dip	7.55	5.70	3.6
MAX208CWG-ND	5V RS-232 Transceiver with .1µF External Caps, 4 Drivers/4 Receivers	24-SOIC	7.55	5.70	3.6
MAX209CNG-ND	+5V and +12V Pwrd., 3 RS-232 Transmitters and 5 RS-232 Receivers with Receiver Enable and .1µF External Caps	24-Dip	7.55	5.70	3.5
MAX209CWG-ND	+5V and +12V Pwrd., 3 RS-232 Transmitters and 5 RS-232 Receivers with Receiver Enable and .1µF External Caps	24-SOIC	7.55	5.70	3.5
MAX211CAI-ND	+5V Powered, 4 RS-232 Transmitters and 5 RS-232 Receivers with .1µF External Caps	28-SSOP	7.95	6.00	3.1
MAX211CWI-ND	+5V Powered, 4 RS-232 Transmitters and 5 RS-232 Receivers with .1µF External Caps	28-SOIC	7.55	5.70	3.5
MAX211ECAI-ND	+5V Powered, 4 RS-232 Transmitters and 5 RS-232 Receivers with .1µF Ext. Caps., 15Kv ESD	28-SSOP	9.17	6.92	4.2
MAX213CAI-ND	+5V Powered, 4 RS-232 Transmitters and RS-232 Receivers (2 active in shutdown) with 0.1µF External Caps	28-SSOP	7.95	6.00	3.1
MAX213CWI-ND	+5V Powered, 4 RS-232 Transmitters and 5 RS-232 Receivers (2 active in shutdown) with 0.1µF External Caps.	28-SOIC	7.55	5.70	3.5
MAX214CPI-ND	Programmable DTE/DCE, 5V RS-232 Transceiver	28-Dip	9.88	7.46	4.3
MAX214CWI-ND	Programmable DTE/DCE, 5V RS-232 Transceiver	28-SOIC	9.06	6.84	4.3
MAX218CPP-ND	1.8V - 4.25V Powered True RS-232 Dual Transceiver	20-Dip	4.74	3.58	2.3
MAX218CWP-ND	1.8V - 4.25V Powered True RS-232 Dual Transceiver	20-SOIC	4.74	3.58	2.3
MAX222CPN-ND	5V High Speed RS-232 Driver Receiver with Shutdown	18-Dip	* 4.88	3.68	2.4
MAX222CWN-ND	5V High Speed RS-232 Driver Receiver with Shutdown	18-SOIC	4.88	3.68	2.4
MAX222EWN-ND	5V High Speed RS-232 Driver Receiver with Shutdown	18-SOIC	5.83	4.40	2.9
MAX223CWI-ND	+5V Powered, 4 RS-232 Transmitters and 5 RS-232 Receivers (2 Active in Shutdown)	28-SOIC	8.24	6.22	3.9
MAX225CWI-ND	+5V Multichannel RS-232 Driver/Receiver	28-SOIC	18.97	14.32	8.6
MAX230CPP-ND	+5V Powered, 5 RS-232 Transmitters with Power Shutdown	20-Dip	8.24	6.22	3.9
MAX230CWP-ND	+5V Powered, 5 RS-232 Transmitters with Power Shutdown	20-SOIC	7.55	5.70	3.5
MAX231CPD-ND	+5V and +12V Powered Dual RS-232 Transmitters/Receivers	14-Dip	3.31	2.50	1.6
MAX231EPD-ND	+5V and +12V Powered Dual RS-232 Transmitters /Receivers	14-Dip	3.98	3.00	1.9
MAX232ACPE-ND	+5V Powered, HS Dual RS-232 Transmitters and Receivers	16-Dip	5.51	4.16	2.7
MAX232ACSE-ND	+5V Powered, HS Dual RS-232 Transmitters and Receivers	16-SOIC	5.51	4.16	2.7
MAX232ACWE-ND	+5V Powered, HS Dual RS-232 Transmitters and Receivers	16-SOIC	4.88	3.68	2.4
MAX232AESE-ND	+5V Powered, HS Dual RS-232 Transmitters and Receivers	16-SOIC	6.60	4.98	2.9
MAX232AEWE-ND	+5V Powered, HS Dual RS-232 Transmitters and Receivers	16-SOIC	5.83	4.40	2.9
MAX232CPE-ND	+5V Powered, Dual RS-232 Transmitters and Receivers	16-Dip	3.31	2.50	1.6
MAX232CWE-ND	+5V Powered, Dual RS-232 Transmitters and Receivers	16-SOIC	3.31	2.50	1.6
MAX232ECPE-ND	+5V Powered, Dual RS-232 Transmitters and Receivers, ESD Protected	16-Dip	4.19	3.16	2.0
MAX232ECSE-ND	+5V Powered, Dual RS-232 Transmitters and Receivers, ESD Protected	16-SOIC	4.19	3.16	2.0
MAX232ECWE-ND	+5V Powered, Dual RS-232 Transmitters and Receivers, ESD Protected	16-SOIC	4.19	3.16	2.0
MAX232EEPE-ND	+5V Powered, Dual RS-232 Transmitters and Receivers, ESD Protected	16-Dip	5.41	4.08	2.6
MAX232EESE-ND	+5V Powered, Dual RS-232 Transmitters and Receivers, ESD Protected	16-SOIC	5.41	4.08	2.6
MAX232EPE-ND	+5V Powered, Dual RS-232 Transmitters and Receivers	16-Dip	3.98	3.00	1.9
MAX232EWE-ND	+5V Powered, Dual RS-232 Transmitters and Receivers	16-SOIC	3.98	3.00	1.9
MAX233ACPP-ND	+5V Powered, Dual RS-232 No External Components Transmitters/Receivers	20-Dip	10.76	8.12	5.2
MAX233ACWP-ND	+5V Powered, Dual RS-232 No External Components Transmitters/Receivers	20-SOIC	10.76	8.12	5.2
MAX233AEPP-ND	+5V Powered, Dual RS-232 No External Components Transmitters/Receivers	20-Dip	14.63	11.04	7.1
MAX233AEWP-ND	+5V Powered, Dual RS-232 No External Components Transmitters/Receivers	20-SOIC	14.63	11.04	7.1
MAX233CPP-ND	+5V Powered, Dual RS-232 No External Components Transmitters/Receivers	20-Dip	7.45	5.62	3.6
MAX233EPP-ND	+5V Powered, Dual RS-232 No External Components Transmitters/Receivers	20-Dip	8.93	6.74	4.3
MAX234CPE-ND	+5V Powered Quad RS-232,Transmitters	16-Dip	5.88	4.44	2.8
MAX234CWE-ND	+5V Powered Quad RS-232, Transmitters	16-SOIC	5.88	4.44	2.8
MAX235CPG-ND	+5V Powered, 5 RS-232 No External Comp. Transmitters and Receivers with Power Shutdown and Tri-State	24-Dip	16.38	12.36	7.9
MAX236CNG-ND	+5V Powered, 4 RS-232 Transmitters and 3 RS-232 Receivers with Power Shutdown and Tri-State	24-Dip	7.55	5.70	3.6
MAX236CWG-ND	+5V Powered, 4 RS-232 Xmitters and 3 RS-232 Receivers with Power Shutdown and Tri-State	24-SOIC	7.55	5.70	3.6
MAX237CNG-ND	+5V Powered, 5 RS-232 Transmitters, 3 RS-232 Receivers	24-Dip	7.55	5.70	3.6
MAX237CWG-ND	+5V Powered, 5 RS-232 Transmitters, 3 RS-232 Receivers	24-SOIC	7.55	5.70	3.6
MAX237ENG-ND	+5V Powered, 5 RS-232 Transmitters, 3 RS-232 Receivers	24-Dip	9.06	6.84	4.4
MAX238CNG-ND	+5V Powered, Quad RS-232 Transmitters and Receivers	24-Dip	7.55	5.70	3.6
MAX238CWG-ND	+5V Powered, Quad RS-232 Transmitters and Receivers	24-SOIC	7.55	5.70	3.6
MAX239CNG-ND	+5V and +12V Powered, 3 RS-232 Transmitters and 5 RS-232 Receivers w/Receiver Enable	24-Dip	7.55	5.70	3.6
MAX240CMH-ND	+5V Powered, 5 RS-232 Transmitters and Receivers with Power Shutdown and Tri-State	44-MQFP	12.40	9.36	6.0
MAX241CWI-ND	+5V Powered, 4 RS-232 Transmitters, 5 Receivers with Power Shutdown and Receiver 3-State Enable	28-SOIC	12.40	9.36	6.0
MAX242CPN-ND	High Speed 5V Dual RS-232 Driver/Receiver	18-Dip	4.88	3.68	2.4
MAX242CWN-ND	High Speed 5V Dual RS-232 Driver/Receiver	18-SOIC	4.88	3.68	2.4
MAX242EPN-ND	High Speed 5V Dual RS-232 Driver/Receiver	18-Dip	5.83	4.40	2.9
MAX242EWN-ND	High Speed 5V Dual RS-232 Driver/Receiver	18-SOIC	5.83	4.40	2.9
MAX243CPE-ND	5V Powered Dual RS-232 Driver/Receiver	16-Dip	5.51	4.16	2.7
MAX243CSE-ND	5V Powered Dual RS-232 Driver/Receiver	16-SOIC	5.51	4.16	2.7
MAX248EQH-D-ND	5V RS-232 Transceiver	44-PLCC	26.37	19.90	11.9
MAX249CQH-ND	5V, Multi-Channel RS-232 Driver/Receiver	44-PLCC	20.27	15.30	10.2
MAX250CPD-ND	+5V, Isolated RS-232 Driver/Receiver	14-Dip	7.66	5.78	3.9
MAX250CSD-ND	+5V, Isolated RS-232 Driver/Receiver	14-SOIC	8.43	6.36	3.9
MAX250ESD-ND	+5V, Isolated RS-232 Driver/Receiver	14-SOIC	12.03	9.08	5.5

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Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MAX251CPD-ND	+5V, Isolated RS-232 Driver/Receiver	14-Dip	7.66	5.78	3.40
MAX251CSD-ND	+5V, Isolated RS-232 Driver/Receiver	14-SOIC	8.43	6.36	3.74
MAX251EPD-ND	+5V, Isolated RS-232 Driver/Receiver	14-Dip	10.94	8.26	4.86
MAX251ESD-ND	+5V, Isolated RS-232 Driver/Receiver	14-SOIC	12.03	9.08	5.34
MAX253CPA-ND	Transformer Driver for Isolated RS-485 Interface	8-Dip	2.81	2.12	1.36
MAX253CSA-ND	Transformer Driver for Isolated RS-485 Interface	8-SOIC	2.81	2.12	1.36
MAX253CUA-ND	Transformer Driver for Isolated RS-485 Interface	8-µMAX	3.07	2.32	1.36
MAX253EPA-ND	Transformer Driver for Isolated RS-485 Interface	8-Dip	3.98	3.00	1.77
MAX274ACWI-ND	8th-Order Analog Filter	28-SOIC	13.62	10.28	6.59
MAX261BCNG-ND	µP Programmable Universal Switched Cap Filter	24-Dip	17.25	13.02	8.35
MAX274BCNG-ND	8th-Order Analog Filter	24-Dip	12.40	9.36	6.00
MAX274BCWI-ND	8th-Order Analog Filter	28-SOIC	12.40	9.36	6.00
MAX275BCPP-ND	4th-Order Analog Filter	20-Dip	7.74	5.84	3.74
MAX275BCWP-ND	4th-Order Analog Filter	20-SOIC	7.74	5.84	3.74
MAX280CPA-ND	5th-Order Zero-Error, Butterworth Switched Cap LP Filter	8-Dip	10.47	7.90	5.07
MAX280CWE-ND	5th Order Zero-Error, Butterworth Switched Cap LP Filter	16-SOIC	10.47	7.90	5.07
MAX281ACPA-ND	5th-Order Zero Error, Bessel Switched Cap LP Filter	8-Dip	12.75	9.62	6.18
MAX281ACWE-ND	5th-Order Zero Error, Bessel Switched Cap LP Filter	16-SOIC	12.75	9.62	6.18
MAX301CPE-ND	Prec. Dual Low On Resistance Matched CMOS Switch (SPST)	16-Dip	4.58	3.46	2.47
MAX301CSE-ND	Prec. Dual Low On Resistance Matched CMOS Switch (SPST)	16-SOIC	5.51	4.16	2.97
MAX303CPE-ND	Prec. Dual Low On Resistance Matched CMOS Switch (SPDT)	16-Dip	9.65	7.28	5.22
MAX303CSE-ND	Precision Dual Low On Resistance Matched CMOS Switch (SPDT)	16-SOIC	11.55	8.72	6.24
MAX303ESE-ND	Precision Dual Low On Resistance Matched CMOS Switch (SPDT)	16-SOIC	12.16	9.18	5.40
MAX305CPE-ND	Precision Dual, Matched CMOS Switches (DPST, NO)	16-Dip	9.65	7.28	5.22
MAX305CSE-ND	Precision Dual, Matched CMOS Switches (DPST, NO)	16-SOIC	11.55	8.72	6.24
MAX306CPI-ND	Precision 16-Channel High Perform CMOS Analog Mux	28-Dip	11.53	8.70	6.21
MAX306CWI-ND	Precision 16-Channel High Perform CMOS Analog Mux	28-SOIC	15.90	12.00	8.58
MAX307CPI-ND	Precision Dual 8-Ch. High Performance CMOS Analog Mux	28-Dip	11.53	8.70	6.21
MAX307CWI-ND	Precision Dual 8-Ch. High Performance CMOS Analog Mux	28-SOIC	15.90	12.00	8.58
MAX308CPE-ND	Precision 8-Ch., High Perf. CMOS Analog Mux	16-Dip	7.47	5.64	4.04
MAX308CSE-ND	Precision 8-Ch., High Perf. CMOS Analog Mux	16-SOIC	8.96	6.76	4.84
MAX308ESE-ND	Precision 8-Ch., High Perf. CMOS Analog Mux	16-SOIC	9.33	7.04	4.14
MAX309CPE-ND	Precision Dual 4-Ch. High Performance CMOS Analog Mux	16-Dip	7.47	5.64	4.04
MAX309CSE-ND	Precision Dual 4-Ch. High Performance CMOS Analog Mux	16-SOIC	8.96	6.76	4.84
MAX310CPE-ND	CMOS RF/Video Mux	16-Dip	17.25	13.02	7.66
MAX313CSE-ND	CMOS Analog Switch, Quad, SPST	16-SOIC	10.71	8.08	4.75
MAX317CPA-ND	Precision SPST Normally Closed CMOS Analog Switch	8-Dip	3.21	2.42	1.74
MAX317CSA-ND	Precision SPST Normally Closed CMOS Analog Switch	8-SOIC	3.74	2.82	2.02
MAX318CPA-ND	Precision SPST Normally Open Analog Switch	8-Dip	3.21	2.42	1.74
MAX318CSA-ND	Precision SPST Normally Open Analog Switch	8-SOIC	3.74	2.82	2.02
MAX319CPA-ND	Precision SPDT CMOS Analog Switch	8-Dip	4.29	3.24	2.31
MAX319CSA-ND	Precision SPDT CMOS Analog Switch	8-SOIC	4.74	3.58	2.56
MAX319ESA-ND	Precision SPDT CMOS Analog Switch	8-SOIC	5.51	4.16	2.45
MAX323CPA-ND	Precision, Single Supply, SPST Analog Switch	8-Dip	2.97	2.24	1.43
MAX323CSA-ND	Precision, Single Supply, SPST Analog Switch	8-SOIC	3.26	2.46	1.57
MAX326CPE-ND	Quad SPST, Ultra-Low Leakage, CMOS Analog Switch	16-Dip	8.69	6.56	4.37
MAX326CSE-ND	Quad SPST, Ultra-Low Leakage, CMOS Analog Switch	16-SOIC	9.54	7.20	4.80
MAX328CPE-ND	8-Channel, Ultra-Low Leakage Monolithic CMOS Multiplexer	16-Dip	11.32	8.54	5.69
MAX328CWE-ND	8-Channel, Ultra-Low Leakage Monolithic CMOS Multiplexer	16-SOIC	12.43	9.38	6.26
MAX329CPE-ND	Diff. 4-Ch., Ultra-Low Leakage Monolithic CMOS Mux	16-Dip	11.32	8.54	5.69
MAX329CWE-ND	Diff. 4-Ch., Ultra-Low Leakage Monolithic CMOS Mux	16-SOIC	12.43	9.38	6.26
MAX333ACPP-ND	Quad SPDT CMOS Analog Switch	20-Dip	8.00	6.04	4.03
MAX333ACUP-ND	Quad SPDT CMOS Analog Switch	20-TSSOP	9.46	7.14	4.77
MAX333ACWP-ND	Quad SPDT CMOS Analog Switch	20-SOIC	10.34	7.80	5.20
MAX333AEUP-ND	Quad SPDT CMOS Analog Switch	20-TSSOP	10.41	7.86	5.24
MAX333AEWP-ND	Quad SPDT CMOS Analog Switch	20-SOIC	13.14	9.92	6.61
MAX333CPP-ND	Quad SPDT CMOS Analog Switch	20-Dip	7.21	5.44	3.63
MAX333CWP-ND	Quad SPDT CMOS Analog Switch	20-SOIC	9.30	7.02	4.68
MAX335CNG-ND	Serial Controlled, 8-Channel SPST Switch	24-Dip	7.10	5.36	3.44
MAX335QWG-ND	Serial Controlled, 8-Channel SPST Switch	24-SOIC	7.79	5.88	3.78
MAX335EWG-ND	Serial Controlled, 8-Channel SPST Switch ***NEW!***	24-SOIC	8.59	6.48	3.89
MAX336CAI-ND	16-Ch., Low-Leakage, CMOS Analog Mux	28-SSOP	11.16	8.42	4.95
MAX349CAP-ND	8-Ch., Serially Controlled, Low-Voltage Mux	20-SSOP	8.22	6.20	3.64
MAX350CPN-ND	Dual 4-Ch., Serially Controlled, Low-Voltage Mux	18-Dip	7.45	5.62	3.31
MAX351CPE-ND	Precision Quad SPST Analog Switch Normally Closed	16-Dip	6.60	4.98	3.56
MAX351CSE-ND	Precision Quad SPST Analog Switch Normally Closed	16-SOIC	8.56	6.46	4.62
MAX352CPE-ND	Precision Quad SPST Analog Switch Normally Open	16-Dip	6.60	4.98	3.56
MAX352CSE-ND	Precision Quad SPST Analog Switch Normally Open	16-SOIC	8.56	6.46	4.62
MAX352ESE-ND	Precision Quad SPST Analog Switch Normally Open	16-SOIC	8.80	6.64	3.90
MAX353CPE-ND	Precision Quad SPST Analog Switch 2 Normally Closed and 2 Normally Open	16-Dip	6.60	4.98	3.56
MAX353CSE-ND	Precision Quad SPST Analog Switch 2 Normally Closed and 2 Normally Open	16-SOIC	8.56	6.46	4.62
MAX354CPE-ND	Single 8-Channel Fault Protected Analog Mux	16-Dip	10.84	8.18	5.25
MAX354CWE-ND	Single 8-Channel Fault Protected Analog Mux	16-SOIC	10.84	8.18	5.25
MAX354EWE-ND	Single 8-Channel Fault Protected Analog Mux	16-SOIC	11.93	9.00	5.29
MAX355CPE-ND	Dual 4-Channel Fault Protected Analog Mux	16-Dip	10.84	8.18	5.25
MAX355CWE-ND	Dual 4-Channel Fault Protected Analog Mux	16-SOIC	10.84	8.18	5.25
MAX358CPE-ND	Fault Protected 8-Channel Multiplexer	16-Dip	10.84	8.18	5.25
MAX358CWE-ND	Fault Protected 8-Channel Multiplexer	16-SOIC	10.84	8.18	5.25
MAX359CPE-ND	Fault Protected Differential 4-Channel Multiplexer	16-Dip	10.84	8.18	5.25
MAX359CWE-ND	Fault Protected Differential 4-Channel Multiplexer	16-SOIC	10.84	8.18	5.25
MAX361CSE-ND	Precision Quad SPST Analog Switch N/C 3Ω Tolerance	16-SOIC	7.00	5.28	3.79
MAX362CPE-ND	Precision Quad SPST Analog Switch N/O 3Ω Tolerance	16-Dip	5.80	4.38	3.13
MAX362CSE-ND	Precision Quad SPST Analog Switch N/O 3Ω Tolerance	16-SOIC	7.00	5.28	3.79
MAX364CPE-ND	Precision Quad SPST Analog Switch N/C 2Ω Tolerance	16-Dip	3.42	2.58	1.85
MAX364CSE-ND	Precision Quad SPST Analog Switch N/C 2Ω Tolerance	16-SOIC	3.42	2.58	1.85
MAX365CPE-ND	Precision Quad SPST Analog Switch N/O 2Ω Tolerance	16-Dip	3.42	2.58	1.85
MAX365CSE-ND	Precision Quad SPST Analog Switch N/O 2Ω Tolerance	16-SOIC	3.42	2.58	1.85
MAX367CWN-ND	8-Signal Line Circuit Protectors	18-SOIC	6.70	5.06	3.24
MAX378CPE-ND	High Voltage, Fault Protected Analog Multiplexer	16-Dip	15.90	12.00	7.70
MAX378CWG-ND	High Voltage, Fault Protected Analog Multiplexer	24-SOIC	15.90	12.00	7.70
MAX388CPN-ND	8-Channel, High Volt, Fault-Protected Multiplexer	18-Dip	17.33	13.08	8.39
MAX391CSE-ND	Prec., Quad, SPST Analog Four Normally Closed Switches	16-SOIC	4.29	3.24	2.08
MAX393CSE-ND	Prec., Quad, SPST Analog Two Normally Open and Two Normally Closed Switches	16-SOIC	4.29	3.24	2.08
MAX394CPP-ND	Low Voltage Quad SPDT, CMOS Analog Switch	20-Dip	9.09	6.86	4.58
MAX394CWP-ND	Low Voltage Quad SPDT CMOS Analog Switch	20-SOIC	11.71	8.84	5.90
MAX396CAI-ND	Precision, 16-Channel, Low-Voltage, CMOS Analog Mux	28-SSOP	15.85	11.96	8.54
MAX400CPA-ND	Ultra-Low Offset Voltage Op Amp	8-Dip	13.52	10.20	6.00
MAX407CPA-ND	1.2µA Max., Dual, Single Supply Op Amp	8-Dip	7.90	5.96	3.99
MAX407CSA-ND	1.2µA Max., Dual Single Supply Op Amp	8-SOIC	7.90	5.96	3.99
MAX409BCPA-ND	1.2µA Single Supply Op Amp	8-Dip	4.88	3.68	2.37
MAX409BCSA-ND	1.2µA Single Supply Op Amp	8-SOIC	4.88	3.68	2.37
MAX410CPA-ND	28MHz Low-Noise Low Voltage Precision Op Amp	8-Dip	5.80	4.38	2.82
MAX410CSA-ND	28MHz Low Noise Low Voltage Precision Op Amp	8-SOIC	5.80	4.38	2.82
MAX414CPD-ND	Low Noise Quad Op Amp	14-Dip	12.40	9.36	6.00
MAX414CSD-ND	Low Noise Quad Op Amp	14-SOIC	12.40	9.36	6.00
MAX418CPD-ND	1.2µA Quad Single Supply Op Amp	14-Dip	9.96	7.52	4.82
MAX418CSD-ND	1.2µA Quad Single Supply Op Amp	14-SOIC	9.96	7.52	4.82
MAX420CPA-ND	15V Chopper Stabilized Op Amp	8-Dip	8.98	6.78	4.38
MAX427CPA-ND	Ultra Low Noise Precision Op Amp	8-Dip	4.40	3.32	2.13
MAX427CSA-ND	Ultra Low Noise Precision Op Amp	8-SOIC	5.51	4.16	2.67
MAX435CPD-ND	275MHz, Differential Out, Wideband Transconductance Amp	14-Dip	6.81	5.14	3.29
MAX435CSD-ND	275MHz, Differential Out, Wideband Transconductance Amp	14-SOIC	6.81	5.14	3.29
MAX436CPD-ND	Wideband Transconductance Amplifier	14-Dip	6.81	5.14	3.29
MAX436CSD-ND	Wideband Transconductance Amplifier	14-SOIC	6.81	5.14	3.29
MAX437CPA-ND	Ultra Low Noise Precision Op Amplifier	8-Dip	4.40	3.32	2.13
MAX437CSA-ND	Ultra Low Noise Precision Op Amp	8-SOIC	5.51	4.16	2.67
MAX452CPA-ND	50MHz CMOS Video Amplifier	8-Dip	6.76	5.10	3.40
MAX453CPA-ND	2-Channel 50MHz Video Multiplexer/Amp	8-Dip	9.43	7.12	4.76
MAX454CPD-ND	4-Channel 50MHz Video Multiplexer/Amplifier	14-Dip	12.59	9.50	6.34
MAX454CSD-ND	4-Channel 50MHz Video Multiplexer/Amplifier	14-SOIC	13.86	10.46	6.98
MAX455CPP-ND	8-Channel 50MHz Video Multiplexer/Amplifier	20-Dip	20.96	15.82	10.56
MAX455CWP-ND	8-Channel 50MHz Video Multiplexer/Amplifier	20-SOIC	23.06	17.40	11.60
MAX456CPL-ND	8x8 Crosspoint Video Switch	40-Dip	50.03	37.76	24.20
MAX471CPA-ND	High-Side Current-Sense Precision Amp	8-Dip	6.20	4.68	2.75
MAX471CSA-ND	High-Side Current-Sense Precision Amp	8-SOIC	6.20	4.68	2.75
MAX471EPA-ND	High-Side Current-Sense Precision Amp	8-Dip	7.66	5.78	3.40
MAX471ESA-ND	High-Side Current-Sense Precision Amp	8-SOIC	7.66	5.78	3.40
MAX472CPA-ND	High-Side Current-Sense Precision Amp	8-Dip	5.09	3.84	2.25
MAX472CSA-ND	High-Side Current-Sense Precision Amp	8-SOIC	5.09	3.84	2.25
MAX472EPA-ND	High-Side Current-Sense Precision Amp	8-Dip	6.63	5.00	2.94
MAX472ESA-ND	High-Side Current-Sense Precision Amp	8-SOIC	6.63	5.00	2.94
MAX473CPA-ND	Single Supply 10MHz Op Amp	8-Dip	3.58	2.70	1.74
MAX473CSA-ND	Single Supply 10MHz Op Amp	8-SOIC	3.58	2.70	1.74
MAX474CPA-ND	Single Supply 10MHz Dual Op Amp	8-Dip	5.57	4.20	2.69
MAX474CSA-ND	Single Supply 10MHz Dual Op Amp	8-SOIC	5.57	4.20	2.69
MAX475CPD-ND	Single Supply 10MHz Quad Op Amp	14-Dip	8.93	6.74	4.32
MAX475CSD-ND	Single Supply 10MHz Quad Op Amp	14-SOIC	8.93	6.74	4.32
MAX477EPA-ND	300MHz High-Speed Op Amp	8-Dip	6.36	4.80	2.82
MAX479CPD-ND	17µA Max Quad Single Supply Precision Op Amp	14-Dip	7.90	5.96	3.83
MAX479CSD-ND	17µA Max Quad Single Supply Precision Op Amp	14-SOIC	7.90	5.96	3.83
MAX480CPA-ND	High-Precision, Low-Volt., Micropower Op Amp	8-Dip	8.56	6.46	3.79
MAX481CPA-ND	RS-485 Transceiver with Low I Shutdown Slew-Rate Ltd, 500µA	8-Dip	2.76	2.08	1.33
MAX483CPA-ND	RS-485/RS-422 Transceiver, Low Power	8-Dip	2.76	2.08	1.33
MAX483ECSA-ND	RS-485/RS-422 Transceiver, Low Power, ESD Prot.	8-SOIC	3.42	2.58	1.66
MAX485CPA-ND	RS-485 Low Power Transceiver	8-Dip	2.76	2.08	1.33
MAX485CSA-ND	RS-485 Low Power Transceiver	8-SOIC	2.76	2.08	1.33
MAX487CPA-ND	RS-485/RS-422 Transceiver with Low Power Shutdown	8-Dip	2.81	2.12	1.36
MAX487CSA-ND	RS-485/RS-422 Transceiver with Low Power Shutdown	8-SOIC	2.81	2.12	1.36
MAX487ESA-ND	RS-485/RS-422 Transceiver with Low Power Shutdown	8-SOIC	4.93	3.72	2.38
MAX488CPA-ND	RS-485/RS-422 Transceiver with Low Power Low Slew	8-Dip	2.81	2.12	1.36
MAX488CSA-ND	RS-485/RS-422 Transceiver with Low Power Low Slew	8-SOIC	2.81	2.12	1.36
MAX488ECSA-ND	RS-485/RS-422 Transceiver with Low Power Low Slew ***NEW!***	8-SOIC	3.42	2.58	1.66
MAX488EESA-ND	RS-485/RS-422 Transceiver with Low Power Low Slew ***NEW!***	8-SOIC	4.93	3.72	2.38
MAX489CPD-ND	RS-485/RS-422 Transceiver with Drive Enable	14-Dip	2.81	2.12	1.36
MAX489CSD-ND	RS-485/RS-422 Transceiver with Drive Enable	14-SOIC	2.81	2.12	1.36
MAX489EPD-ND	RS-485/RS-422 Transceiver with Drive Enable	14-Dip	3.52	2.66	1.70
MAX490CPA-ND	RS-485/RS-422 Transceiver with Full Duplex	8-Dip	2.81	2.12	1.36
MAX490CSA-ND	RS-485/RS-422 Transceiver with Full Duplex	8-SOIC	2.81	2.12	1.36
MAX490ECPA-ND	RS-485/RS-422 Transceiver with Full Duplex, ESD Prot.	8-Dip	3.42	2.58	1.66
MAX491CPD-ND	RS-485/RS-422 Transceiver, Low Power	14-Dip	2.81	2.12	1.36
MAX491ECSD-ND	RS-485/RS-422 Transceiver, Low Power, ESD Prot.	14-SOIC	3.42	2.58	1.66
MAX492CPA-ND	Single Supply Dual Op Amp	8-Dip	5.57	4.20	2.69
MAX492CSA-ND	Single Supply Dual Op Amp	8-SOIC	5.57	4.20	2.69
MAX494CPD-ND	Single Supply Quad Op Amp	14-Dip	8.93	6.74	4.32
MAX494CSD-ND	Single Supply Quad Op Amp	14-SOIC	8.93	6.74	4.32
MAX495CPA-ND	Single Supply Op Amp	8-Dip	3.58	2.70	1.74
MAX495CSA-ND	Single Supply Op Amp	8-SOIC	3.58	2.70	1.74
MAX496CPE-ND	375MHz Quad Closed-Loop Video Buffer	16-Dip	13.12	9.90	5.82
MAX497CSE-ND	375MHz Quad Closed-Loop Video Buffer	16-SOIC	13.12	9.90	5.82
MAX500BCPE-ND	Quad Serial Input 8-Bit D/A Converter	16-Dip	13.52	10.20	6.54
MAX500BCWE-ND	Quad Serial Input 8-Bit D/A Converter	16-SOIC	13.52	10.20	6.54
MAX501BCNG-ND	12-Bit Multiplexer DAC (8+4) Voltage Output	24-Dip	14.15	10.68	6.85
MAX502BCNG-ND	Parallel Voltage Output 12-Bit Multiplexer DAC	24-Dip	14.15	10.68	6.85
MAX502BCWG-ND	Parallel Voltage Output 12-Bit Multiplexer DAC	24-SOIC	14.15	10.68	6.85
MAX503CNG-ND	5V Low Power Parallel Input Voltage Output 10-Bit DAC	24-Dip	8.32	6.28	4.03
MAX503CWG-ND	5V Low Power Parallel Input Voltage Output 10-Bit DAC	24-SOIC	8.32	6.28	4.03
MAX504CPD-ND	5V Low Power Voltage Output Serial 10-Bit DAC	14-Dip	7.90	5.96	3.83
MAX504CSD-ND	5V Low Power Voltage Output Serial 10-Bit DAC	14-SOIC	7.90	5.96	3.83
MAX505ACWG-ND	CMOS, +5V, Quad, 8-Bit D/A Converter with Rail-to-Rail Outputs and 4 Separate Reference Inputs	24-SOIC	23.19	17.50	11.23
MAX505BCNG-ND	CMOS, +5V, Quad, 8-Bit D/A Converter with Rail-to-Rail Outputs and 4 Separate Reference Inputs	24-Dip	17.86	13.48	8.64
MAX506BCPP-ND	CMOS, +5V, Quad, 8-Bit D/A Converter with Rail-to-Rail Outputs and 1 Reference Input	20-Dip	15.66	11.82	7.58
MAX506BCWP-ND	CMOS, +5V, Quad, 8-Bit D/A Converter with Rail-to-Rail Outputs and 1 Reference Input	20-SOIC	15.66	11.82	7.58
MAX507BCNG-ND	Parallel Volt Output, 12-Bit DAC with Internal Reference	24-Dip	19.95	15.06	9.67
MAX507BCWG-ND	Parallel Volt Output, 12-Bit DAC with Internal Reference	24-SOIC	18.31	13.82	8.87
MAX508BCPP-ND	12-Bit DAC with Internal Reference, (8+4) Volt Output	20-Dip	19.95	15.06	9.67
MAX508BCWP-ND	12 Bit DAC with Internal Reference, (8+4) Volt Output	20-SOIC	19.95	15.06	9.67
MAX509BCPP-ND	Quad Serial Input 8-Bit D/A Converter	20-Dip	13.70	10.34	6.64
MAX509BCWP-ND	Quad Serial Input 8-Bit D/A Converter	20-SOIC	13.70	10.34	6.64
MAX510ACPE-ND	Quad Serial Input 8-Bit D/A Converter	16-Dip	15.95	12.04	7.73
MAX510BCPE-ND	Quad Serial Input 8-Bit D/A Converter	16-Dip	13.28	10.02	6.43
MAX510BCWE-ND	Quad Serial Input 8-Bit D/A Converter	16-SOIC	13.28	10.02	6.43
MAX512CPD-ND	8-Bit Voltage Out D/A Converter	14-Dip	7.53	5.68	3.65
MAX512CSD-ND	8-Bit Voltage Out D/A Converter	14-SOIC	7.53	5.68	3.65
MAX514BCNG-ND	Quad CMOS 12-Bit Serial Input Mult. D/A Converter	24-Dip	35.67	26.92	17.26
MAX514BCWI-ND	Quad CMOS 12-Bit Serial Input Mult. D/A Converter	28-SOIC	35.67	26.92	17.26
MAX517BCPA-ND	Single 8-Bit Rail-to-Rail DAC with 2-Wire Serial Interface	8-Dip	5.64	4.26	2.74
MAX517BCSA-ND	Single 8-Bit Rail-to-Rail DAC with 2-Wire Serial Interface	8-SOIC	5.64	4.26	2.74
MAX518BCPA-ND	Dual 8-Bit Rail-to-Rail DAC with 2-Wire Serial Interface	8-Dip	6.04	4.56	2.93
MAX518BCSA-ND	Dual 8-Bit Rail-to-Rail DAC with 2-Wire Serial Interface	8-SOIC	6.04	4.56	2.93
MAX520BCPE-ND	Quad 8-Bit DAC with 2-Wire Interface Serial Unbuffered Output	16-Dip	9.28	7.00	4.50
MAX520BCWE-ND	Quad 8-Bit DAC w/2-Wire Interface Serial Unbuffered Output	16-SOIC	9.28	7.00	4.50
MAX521ACAG-ND	Octal 8-Bit Rail-to-Rail DAC with 2-Wire Serial Interface	24-SSOP	17.73	13.38	7.87

(Continued)

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Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MAX521AEAG-ND	Octal 8-Bit Rail-to-Rail DAC with 2-Wire Serial Interface	24-SSOP	23.06	17.40	10.24
MAX521BCPP-ND	Octal 8-Bit Rail-to-Rail DAC with 2-Wire Serial Interface	20-Dip	13.12	9.90	6.35
MAX522CPA-ND	Dual 8-Bit Voltage Out Serial D/A Converter	8-Dip	6.04	4.56	2.93
MAX522CSA-ND	Dual 8-Bit Voltage Out Serial D/A Converter	8-SOIC	6.04	4.56	2.93
MAX525ACAP-ND	5V Quad 12-Bit Voltage Out Serial D/A Converter	20-SSOP	43.75	33.02	19.43
MAX525BCAP-ND	5V Quad 12-Bit Voltage Out Serial D/A Converter	20-SSOP	33.66	25.40	16.29
MAX525BCPP-ND	5V Quad 12-Bit Voltage Out Serial D/A Converter	20-Dip	33.66	25.40	16.29
MAX526DCNG-ND	Quad 12-Bit Voltage Output D/A Converter, .3"	24-Dip	48.68	36.74	23.55
MAX526DCWG-ND	Quad 12-Bit Voltage Output D/A Converter	24-SOIC	48.68	36.74	23.55
MAX527DCNG-ND	Calibrated Quad 12-Bit Voltage Output D/A Converter, .3"	24-Dip	41.45	31.28	20.06
MAX527DCWG-ND	Calibrated Quad 12-Bit Voltage Output D/A Converter	24-SOIC	41.45	31.28	20.06
MAX528CPP-ND	Octal 8-Bit Serial D/A Converter with Output Buffer	20-Dip	16.91	12.76	8.18
MAX529CPP-ND	±5V Octal 8-Bit Serial DAC with Output Buffer	20-Dip	14.15	10.68	7.12
MAX529CWG-ND	±5V Octal 8-Bit Serial DAC with Output Buffer	24-SOIC	14.15	10.68	7.12
MAX530BCNG-ND	5V Low Power Voltage Out 12-Bit DAC	24-Dip	14.26	10.76	6.91
MAX530BCWG-ND	5V Low Power Voltage Out 12-Bit DAC	24-SOIC	14.26	10.76	6.91
MAX531BCPD-ND	5V Voltage Out 12-Bit Serial DAC	14-Dip	14.26	10.76	6.91
MAX531BCSD-ND	5V Voltage Out 12-Bit Serial DAC	14-SOIC	14.26	10.76	6.91
MAX532BCPE-ND	Dual, Serial Input, Voltage Output, 12-Bit Multiplying DAC	16-Dip	22.13	16.70	10.72
MAX532BCWE-ND	Dual, Serial Input Volt Output, 12-Bit Multiplying DAC	16-SOIC	22.13	16.70	10.72
MAX533BCEE-ND	2.7V Low Power Quad Serial Voltage Out 8-Bit DAC	16-QSOP	7.90	5.96	3.83
MAX533BCPE-ND	2.7V Low Power Quad Serial Voltage Out 8-Bit DAC	16-Dip	7.90	5.96	3.83
MAX534ACEE-ND	5V Low Power Quad Serial Voltage Out 8-Bit DAC	16-QSOP	10.26	7.74	4.55
MAX534BCEE-ND	5V Low Power Quad Serial Voltage Out 8-Bit DAC	16-QSOP	7.90	5.96	3.83
MAX534BCPE-ND	5V Low Power Quad Serial Voltage Out 8-Bit DAC	16-Dip	7.90	5.96	3.83
MAX535BCPA-ND	5V 13-Bit Voltage Out Serial D/A Converter	8-Dip	13.94	10.52	6.75
MAX535BCUA-ND	5V 13-Bit Voltage Out Serial D/A Converter	8-µMAX	13.94	10.52	6.75
MAX536BCPE-ND	Quad 12-Bit Voltage Out Serial D/A Converter	16-Dip	44.92	33.90	21.74
MAX536BCWE-ND	Quad 12-Bit Voltage Out Serial D/A Converter	16-SOIC	44.92	33.90	21.74
MAX538BCPA-ND	Low Power 5V 12-Bit Serial D/A Converter	8-Dip	12.72	9.60	6.16
MAX538BCSA-ND	Low Power 5V 12-Bit Serial D/A Converter	8-SOIC	12.72	9.60	6.16
MAX539BCPA-ND	Low Power 5V 12-Bit Serial D/A Converter	8-Dip	12.72	9.60	6.16
MAX539BCSA-ND	Low Power 5V 12-Bit Serial D/A Converter	8-SOIC	12.72	9.60	6.16
MAX541CCPA-ND	5V 16-Bit Serial Voltage Out D/A Converter	8-Dip	28.01	21.14	13.56
MAX541CCSA-ND	5V 16-Bit Serial Voltage Out D/A Converter	8-SOIC	25.71	19.40	12.44
MAX543BCPA-ND	CMOS 12-Bit Serial Multiplying D/A Converter	8-Dip	19.16	14.46	9.27
MAX543BCSA-ND	CMOS 12-Bit Serial Multiplying D/A Converter	8-SOIC	15.34	11.58	7.43
MAX544BCPA-ND	5V 14-Bit Serial Voltage Out D/A Converter	Dip-8	22.23	16.78	10.77
MAX544BCSA-ND	5V 14-Bit Serial Voltage Out D/A Converter	8-SOIC	22.23	16.78	10.77
MAX547BCQH-ND	Octal 13-Bit Voltage Out DAC/Parallel Interface	44-PLCC	77.57	58.54	37.53
MAX548ACPA-ND	2.5V – 5.5V Dual 8-Bit Voltage Out D/A Converter	8-Dip	4.64	3.50	2.24
MAX548ACUA-ND	2.5V – 5.5V Dual 8-Bit Voltage Out D/A Converter	8-µMAX	4.88	3.68	2.36
MAX549ACPA-ND	2.5V – 5.5V Dual 8-Bit Voltage Out D/A Converter	8-Dip	4.64	3.50	2.06
MAX560CAI-ND	+3.3V Transceiver with 2 EIA/TIA-562 Receivers Active in Shutdown	28-SSOP	8.67	6.54	3.85
MAX560CWI-ND	+3.3V Transceiver with 2 EIA/TIA-562 Receivers Active in Shutdown	28-SOIC	8.24	6.22	3.99
MAX562CAI-ND	2.7V – 5.25V, Serial Interface	28-SSOP	7.82	5.90	3.47
MAX563CWN-ND	3.3V, EIA/TIA-562 Dual Transceiver	18-SOIC	5.51	4.16	2.45
MAX603CPA-ND	5V or Adj., LDO, Low IQ, 500mA Linear Regulator	8-Dip	4.35	3.28	1.92
MAX603CSA-ND	5V or Adj., LDO, Low IQ, 500mA Linear Regulator	8-SOIC	4.77	3.60	2.12
MAX603ESA-ND	5V or Adj., LDO, Low IQ, 500mA Linear Regulator	8-SOIC	6.07	4.58	2.69
MAX604CPA-ND	Adjustable Low Dropout Regulator	8-Dip	4.35	3.28	1.92
MAX604CSA-ND	Adjustable Low Dropout Regulator	8-SOIC	4.77	3.60	2.12
MAX604ESA-ND	Adjustable Low Dropout Regulator	8-SOIC	6.07	4.58	2.69
MAX619CSA-ND	Regulated 5V Charge-Pump DC/DC Converter	8-SOIC	4.45	3.36	1.97
MAX619ESA-ND	Regulated 5V Charge-Pump DC/DC Converter	8-SOIC	6.02	4.54	2.66
MAX627CSA-ND	Dual Non-Inverting Power MOSFET Driver	8-SOIC	3.87	2.92	1.95
MAX629ESA-ND	High Voltage, Boost or Inverting DC/DC Converter	8-SOIC	7.37	5.56	3.26
MAX630CSA-ND	CMOS Step Up Switching Regulator	8-SOIC	7.95	6.00	3.84
MAX631ACPA-ND	+5V/Adjustable Output CMOS Step-Up Switching Regulator	8-Dip	6.86	5.18	3.32
MAX631ACSA-ND	+5V/Adjustable Output CMOS Step-Up Switching Regulator	8-SOIC	7.10	5.36	3.44
MAX632ACPA-ND	+12V/Adjustable Output CMOS Step-Up Switching Regulator	8-Dip	6.86	5.18	3.32
MAX632ACSA-ND	+12V/Adjustable Output CMOS Step-Up Switching Regulator	8-SOIC	7.10	5.36	3.44
MAX634CPA-ND	CMOS Micropower Inverting Switching Regulator	8-Dip	6.52	4.92	3.16
MAX634CSA-ND	CMOS Micropower Inverting Switching Regulator	8-SOIC	7.18	5.42	3.48
MAX635ACPA-ND	-5V/Adjustable Output CMOS Inverting Switching Regulator	8-Dip	6.86	5.18	3.32
MAX635ACSA-ND	-5V/Adj Output CMOS Inverting Switching Regulator	8-SOIC	7.10	5.36	3.44
MAX636ACPA-ND	-12V/Adjustable Output CMOS Inverting Switching Regulator	8-Dip	6.86	5.18	3.32
MAX636ACSA-ND	-12V/Adjustable Output CMOS Inverting Switching Regulator	8-SOIC	7.10	5.36	3.44
MAX637ACPA-ND	-15V/Adjustable Output CMOS Inverting Switching Regulator	8-Dip	6.86	5.18	3.32
MAX637ACSA-ND	-15V/Adjustable Output CMOS Inverting Switching Regulator	8-SOIC	7.10	5.36	3.44
MAX638ACPA-ND	5V Adjustable Output CMOS Step Down Switching Regulator	8-Dip	6.86	5.18	3.32
MAX638ACSA-ND	5V Adjustable Output CMOS Step Down Switching Regulator	8-SOIC	7.10	5.36	3.44
MAX641ACSA-ND	Fixed Output 10W CMOS Step-Up Switching Regulator	8-SOIC	7.10	5.36	3.15
MAX660CPA-ND	100mA CMOS Monolithic Voltage Converter	8-Dip	6.94	5.24	3.50
MAX660CSA-ND	100mA CMOS Monolithic Voltage Converter	8-SOIC	7.29	5.50	3.68
MAX662ACPA-ND	12V Supply for Flash Memory	8-Dip	4.80	3.62	2.32
MAX662ACSA-ND	12V Supply for Flash Memory	8-SOIC	4.90	3.70	2.37
MAX663CPA-ND	CMOS +5V/Adjustable Micropower Positive Voltage Regulator	8-Dip	4.21	3.18	2.03
MAX663CSA-ND	CMOS +5V/Adjustable Micropower Positive Voltage Regulator	8-SOIC	4.64	3.50	2.24
MAX664CSA-ND	Dual Mode™ 5V/Programmable Micropower Voltage Regulator	8-SOIC	5.64	4.26	2.73
MAX665CPA-ND	CMOS +8V/Switched-Capacitor Voltage Converter	8-Dip	9.94	7.50	4.81
MAX666CPA-ND	CMOS +5V/Adjustable Volt. Reg. with Low Battery Detector	8-Dip	4.88	3.68	2.36
MAX666CSA-ND	CMOS +5V/Adjustable Volt. Reg. with Low Battery Detector	8-SOIC	5.35	4.04	2.59
MAX666ESA-ND	CMOS +5V/Adjustable Volt. Reg. with Low Battery Detector	8-SOIC	8.32	6.28	4.02
MAX667CPA-ND	+5V/Programmable Low Dropout Voltage Regulator	8-Dip	5.49	4.14	2.76
MAX667CSA-ND	+5V/Programmable Low Dropout Voltage Regulator	8-SOIC	5.72	4.32	2.88
MAX667EPA-ND	+5V/Programmable Low Dropout Voltage Regulator	8-Dip	7.13	5.38	3.59
MAX667ESA-ND	+5V/Programmable Low Dropout Voltage Regulator	8-SOIC	7.39	5.58	3.72
MAX668EUB-ND	1.8V to 28V Input, PWM Step-Up Controller	10-µMAX	5.43	4.10	2.46
MAX680CPA-ND	+5V to ±10V Voltage Converter	8-Dip	4.48	3.38	2.17
MAX680CSA-ND	+5V to ±10V Voltage Converter	8-SOIC	4.90	3.70	2.38
MAX687CSA-ND	3.3V High Accuracy Low Dropout Reg. with Auto Shutdown	8-SOIC	4.35	3.28	2.10
MAX688CSA-ND	3.3V High Accuracy Low Dropout Regulator	8-SOIC	4.35	3.28	2.10
MAX690ACPA-ND	Microprocessor WDT Reset Circuit	8-Dip	6.94	5.24	3.36
MAX690ACSA-ND	Microprocessor WDT Reset Circuit	8-SOIC	7.29	5.50	3.53
MAX690CPA-ND	Microprocessor WDT Reset Circuit	8-Dip	7.23	5.46	3.50
MAX690EPA-ND	Microprocessor WDT Reset Circuit	8-Dip	10.49	7.92	5.08
MAX691ACPE-ND	Microprocessor WDT Battery Switchover/Reset Gen., 200nS	16-Dip	7.84	5.92	3.80
MAX691CPE-ND	Microprocessor WDT Battery Switchover/Reset Gen., 200nS	16-Dip	7.84	5.92	3.80
MAX691CWE-ND	Microprocessor WDT Battery Switchover/Reset Gen., 200nS	16-SOIC	8.64	6.52	4.18
MAX691EWE-ND	Microprocessor WDT Battery Switchover/Reset Gen., 200nS	16-SOIC	12.53	9.46	6.06
MAX692ACPA-ND	Microprocessor Supervisory Circuit	8-Dip	6.94	5.24	3.36
MAX692ACSA-ND	Microprocessor Supervisory Circuit	8-SOIC	7.29	5.50	3.53

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MAX692CPA-ND	Microprocessor Supervisory Circuit	8-Dip	7.23	5.46	3.50
MAX693ACPE-ND	Microprocessor Supervisory Circuit	16-Dip	7.84	5.92	3.80
MAX693CPE-ND	Microprocessor Supervisory Circuit	16-Dip	7.84	5.92	3.80
MAX693CWE-ND	Microprocessor Supervisory Circuit	16-SOIC	8.64	6.52	4.18
MAX694CPA-ND	Microprocessor WDT/Battery Switchover/ Reset Gen., Min. Reset Pulse Width, 140ms	8-Dip	7.23	5.46	3.50
MAX695CPE-ND	Microprocessor WDT/Battery Switchover/Reset Gen.	16-Dip	7.84	5.92	3.80
MAX695CWE-ND	Microprocessor WDT/Battery Switchover/Reset Gen.	16-SOIC	8.64	6.52	4.18
MAX696CPE-ND	Microprocessor Supervise Circuit with Battery Switchover	16-Dip	7.84	5.92	3.78
MAX699CPA-ND	Low Cost Power-On Reset and WDT Controller	8-Dip	4.93	3.72	2.38
MAX699CWE-ND	Low Cost Power-On Reset and WDT Controller	16-SOIC	5.33	4.02	2.58
MAX700CSA-ND	Adjustable-Threshold Power-Supply Monitor with Reset	8-SOIC	5.19	3.92	2.62
MAX701CPA-ND	Power Supply Monitor with Reset	8-Dip	4.72	3.56	2.37
MAX701CSA-ND	Power Supply Monitor with Reset	8-SOIC	4.72	3.56	2.37
MAX701EPA-ND	Power Supply Monitor with Reset	8-Dip	6.12	4.62	2.72
MAX701ESA-ND	Power Supply Monitor with Reset	8-SOIC	6.12	4.62	3.08
MAX703CPA-ND	Low Cost, Microprocessor Supervisory Circuit with Battery Backup, 4.65V Reset	8-Dip	6.10	4.60	2.95
MAX703CSA-ND	Low Cost, Microprocessor Supervisory Circuit with Battery Backup, 4.65V Reset	8-SOIC	6.10	4.60	2.95
MAX704CPA-ND	Low Cost, µP Supervisory Circuit with Battery Backup, 4.4V Reset	8-Dip	6.10	4.60	2.95
MAX704CSA-ND	Low Cost, µP Supervisory Circuit with Battery Backup, 4.4V Reset	8-SOIC	6.10	4.60	2.95
MAX705CPA-ND	Low Cost, µP Supervisory Circuit with Battery Backup, WDT Output, 4.65V Reset	8-Dip	5.46	4.12	2.64
MAX705CSA-ND	Low Cost, µP Supervisory Circuit with Battery Backup, WDT Output, 4.65V Reset	8-SOIC	5.46	4.12	2.64
MAX705ESA-ND	Low Cost, µP Supervisory Circuit with Battery Backup, WDT Output, 4.65V Reset	8-SOIC	7.10	5.36	3.43
MAX706CPA-ND	Microprocessor Supervisory Circuit	8-Dip	5.46	4.12	2.64
MAX706CSA-ND	Microprocessor Supervisory Circuit	8-SOIC	5.46	4.12	2.64
MAX706SCPA-ND	Microprocessor Supervisory Circuit	8-Dip	5.91	4.46	2.86
MAX706SCSA-ND	Microprocessor Supervisory Circuit	8-SOIC	5.91	4.46	2.86
MAX706PCSA-ND	Microprocessor Supervisory Circuit	8-SOIC	5.91	4.46	2.86
MAX707CPA-ND	Low-Cost, Microprocessor Supervisory Circuit, Active-High Reset, 4.65V Reset	8-Dip	4.90	3.70	2.37
MAX707CSA-ND	Low-Cost, Microprocessor Supervisory Circuit, Active-High Reset, 4.65V Reset	8-SOIC	4.90	3.70	2.37
MAX708CPA-ND	Low-Cost, Microprocessor Supervisory Circuit, Active-High Reset, 4.4V Reset	8-Dip	4.90	3.70	2.37
MAX708CSA-ND	Low-Cost, Microprocessor Supervisory Circuit, Active-High Reset, 4.4V Reset	8-SOIC	4.90	3.70	2.37
MAX709RCSA-ND	Power Supply Monitor, 2.63V Reset	8-SOIC	2.86	2.16	1.39
MAX709MCPA-ND	Power Supply Monitor, 4.40V Reset	8-Dip	2.65	2.00	1.28
MAX709LCPA-ND	Power Supply Monitor, 4.65V Reset	8-Dip	2.65	2.00	1.28
MAX709LCSA-ND	Power Supply Monitor, 4.65V Reset	8-SOIC	2.86	2.16	1.39
MAX709TCPA-ND	Power Supply Monitor, 3.08V Reset	8-Dip	2.65	2.00	1.28
MAX710ESE-ND	3.3V or 5V Output Step Up/Down DC/DC Converter	16-SOIC	7.61	5.74	3.38
MAX712CPE-ND	Battery Fast Charge Controller for NiMH Battery	16-Dip	7.71	5.82	3.73
MAX712CSE-ND	Battery Fast Charge Controller for NiMH Battery	16-SOIC	8.08	6.10	3.92
MAX713CPE-ND	3-Out Battery Fast Charge Controller for NiCad/NiMH Battery	16-Dip	7.71	5.82	3.73
MAX713CSE-ND	3-Out Battery Fast Charge Controller for NiCad/NiMH Battery	16-SOIC	8.08	6.10	3.92
MAX722CSE-ND	+3.3V LCD Power Supply Regulator	16-SOIC	11.55	8.72	5.60
MAX724CCK-ND	5A, Step Down, PWM, Switch Mode DC/DC Regulator	TO-220-5	11.71	8.84	6.32
MAX730ACSA-ND	5V, Step Down, Current Mode PWM DC/DC Converter	8-SOIC	5.57	4.20	2.47
MAX732CPA-ND	+12V Step Up Current Mode PWM Regulator for Flash Memory	8-Dip	6.52	4.92	3.16
MAX732CWE-ND	+12V Step-Up Current Mode PWM Regulator for Flash Memory	16-SOIC	6.84	5.16	3.31
MAX734CPA-ND	+12V, 120mA Supply for Flash Memory	8-Dip	5.01	3.78	2.42
MAX734CSA-ND	+12V, 120mA Supply for Flash Memory	8-SOIC	5.54	4.18	2.68
MAX738ACWE-ND	5V, Step-Down, PWM, DC/DC Converter	16-SOIC	6.70	5.06	2.98
MAX749CPA-ND	Digitally Adjustable LCD Bias Supply	8-Dip	6.49	4.90	3.14
MAX749CSA-ND	Digitally Adjustable LCD Bias Supply	8-SOIC	6.76	5.10	3.27
MAX750ACSA-ND	Adjustable Step-Down Current Mode PWM Regulator	8-SOIC	5.57	4.20	2.69
MAX751CPA-ND	+5V Step Up Current Mode PWM DC/DC Converter	8-Dip	5.51	4.16	2.67
MAX752CPA-ND	Adjustable Step-Up Current Mode PWM Regulator	8-Dip	7.37	5.56	3.57
MAX755CPA-ND	Adj., Neg. Output, Inverting, Current Mode PWM Regulator	8-Dip	4.85	3.66	2.35
MAX756CPA-ND	High-Efficiency Step-Up DC/DC Converter	8-Dip	4.80	3.62	2.33
MAX756CSA-ND	High-Efficiency Step-Up DC/DC Converter	8-SOIC	5.38	4.06	2.60
MAX758ACPA-ND	Adjustable Step-Down Current Mode PWM Regulator	8-Dip	6.41	4.84	3.10
MAX759CWE-ND	Adjustable Inverting Current Mode PWM	16-SOIC	7.10	5.36	3.44
MAX759CPD-ND	Adjustable Inverting Current Mode PWM	14-Dip	6.78	5.12	3.27
MAX761CPA-ND	12V Adj. High-Efficiency Step-Up DC/DC Converter	8-Dip	5.43	4.10	2.63
MAX761CSA-ND	12V Adj. High-Efficiency Step-Up DC/DC Converter	8-SOIC	5.99	4.52	2.90
MAX761ESA-ND	12V Adj. High-Efficiency Step-Up DC/DC Converter ***NEW!***	8-SOIC	8.14	6.14	3.69
MAX764CSA-ND	High-Efficiency, Low IQ, DC/DC Inverter	8-SOIC	6.10	4.60	2.70
MAX765CPA-ND	–12V or Adj., High-Eff., Low IQ DC/DC Inverter	8-Dip	5.99	4.52	2.90
MAX765ESA-ND	–12V or Adj., High-Eff., Low IQ DC/DC Inverter	8-SOIC	8.80	6.64	3.91
MAX766CPA-ND	–15V DC/DC Inverter	8-Dip	5.99	4.52	2.90
MAX786CAI-ND	Dual Output Power Supply Controller	28-SSOP	11.05	8.34	4.92
MAX791CPE-ND	High Perform Microprocessor Supervisory Circuit	16-Dip	8.48	6.40	4.10
MAX791CSE-ND	High Perform Microprocessor Supervisory Circuit	16-SOIC	8.90	6.72	4.31
MAX793TCSE-ND	3V, Microprocessor Supervisory Circuit	16-SOIC	8.56	6.46	3.79
MAX797CSE-ND	Step Down, PWM Controller with Sync. Rectifier for CPU with Low Noise	16-SOIC	9.41	7.10	4.56
MAX800LCPE-ND	µP Supervisory Circuit with 4.65V Reset, Chip Enable, WD	16-Dip	9.28	7.00	4.50
MAX809LEUR-TCT-ND	4.63V, Microprocessor Reset Circuit	SOT-23	2.12	1.60	1.40
MAX809LEUR-TTR-ND	4.63V, Microprocessor Reset Circuit	SOT-23		3200.00/2,500	
MAX811LEUS-TCT-ND	4.63V, Voltage Monitor	SOT-143-4	2.15	1.62	1.42
MAX811LEUS-TTR-ND	4.63V, Voltage Monitor	SOT-143-4		3240.00/2,500	
MAX811REUS-TCT-ND	2.63V, Voltage Monitor	SOT-143-4	2.15	1.62	1.42
MAX811REUS-TTR-ND	2.63V, Voltage Monitor	SOT-143-4		3240.00/2,500	
MAX811SEUS-TCT-ND	2.93V, Voltage Monitor	SOT-143-4	2.15	1.62	1.42
MAX811SEUS-TTR-ND	2.93V, Voltage Monitor	SOT-143-4		3240.00/2,500	
MAX811TEUS-TCT-ND	3.08V, Voltage Monitor	SOT-143-4	2.15	1.62	1.42
MAX811TEUS-TTR-ND	3.08V, Voltage Monitor	SOT-143-4		3240.00/2,500	
MAX813LCPA-ND	Low Cost Microprocessor Supervisor Circuit	8-Dip	3.47	2.62	1.79
MAX813LCSA-ND	Low Cost Microprocessor Supervisor Circuit	8-SOIC	3.47	2.62	1.79
MAX825LEUK-TCT-ND	4.63V, Microprocessor Supervisory Circuit	SOT-23-5	2.76	2.08	1.82
MAX825LEUK-TTR-ND	4.63V, Microprocessor Supervisory Circuit	SOT-23-5		4160.00/2,500	
MAX837EUS-TCT-ND	4-Pin Micropower Voltage Monitor	SOT-143-4	2.15	1.62	1.42
MAX837EUS-TTR-ND	4-Pin Micropower Voltage Monitor	SOT-143-4		3240.00/2,500	
MAX856CSA-ND	3.3V/5V or Adj. Output, Step-Up DC/DC Converter	8-SOIC	4.13	3.12	1.83

(Continued)

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Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MAX860ISA-ND	50mA, Frequency Selectable, Switched-Cap Volt. Converter	8-SOIC	3.74	2.82	1.66
MAX865EUA-ND	Compact, Dual-Output Charge Pump	8-µMAX	3.60	2.72	1.60
MAX872CPA-ND	10µA, Low Dropout, +2.5V Precision Volt. Ref	8-Dip	5.09	3.84	2.46
MAX872ESA-ND	10µA, Low Dropout, +2.5V Precision Volt. Ref	8-SOIC	6.63	5.00	2.94
MAX873ACSA-ND	2.5V, Low-Power, Low-Drift, Precision Volt. Ref.	8-SOIC	13.86	10.46	6.15
MAX874CPA-ND	10µA, Low Dropout, +4.096V Precision Volt. Ref	8-Dip	5.09	3.84	2.46
MAX876BCPA-ND	Low Power, Low-Drift, +10V Precision Volt. Ref	8-Dip	7.39	5.58	3.58
MAX882CSA-ND	5V/3.3V Adjustable Low Dropout Linear Regulator	8-SOIC	4.11	3.10	1.83
MAX882ESA-ND	5V/3.3V Adjustable Low Dropout Linear Regulator	8-SOIC	5.22	3.94	2.53
MAX883CSA-ND	5V or Adj., LDO, Low IQ, 200mA Linear Regulator	8-SOIC	4.11	3.10	1.83
MAX901BCSE-ND	Quad High Speed Low Power, Voltage Comp	16-SOIC	12.40	9.36	6.00
MAX902CSD-ND	Dual High Speed Low Power, Voltage Comp	14-SOIC	10.26	7.74	4.97
MAX907CPA-ND	Dual High Speed Ultra Low Power, Single +5V, TTL Comp	8-Dip	4.27	3.22	2.07
MAX907CSA-ND	Dual High Speed Ultra Low Power, Single +5V, TTL Comp	8-SOIC	4.27	3.22	2.07
MAX908CPD-ND	Quad, High Speed, Ultra LP, Single +5V, TTL Comp	14-Dip	7.42	5.60	3.60
MAX913CPA-ND	Ultra-Fast, Low Power Precision TTL Comparator	8-Dip	6.39	4.82	2.83
MAX913CSA-ND	Ultra-Fast, Low Power Precision TTL Comparator	8-SOIC	6.36	4.80	2.83
MAX921CSA-ND	Low Power Comparator with Reference	8-SOIC	3.98	3.00	1.92
MAX921ESA-ND	Low Power Comparator with Reference	8-SOIC	4.61	3.48	2.23
MAX922CSA-ND	Dual Ultra Low Power, Single Supply Comparator	8-SOIC	3.76	2.84	1.83
MAX923CSA-ND	Dual Ultra LP Single Supply Comparator with 1% Precision with Reference	8-SOIC	4.88	3.68	2.37
MAX924CSE-ND	Quad Ultra LP Single Supply Comparator with 1% Precision with Reference	16-SOIC	5.64	4.26	2.74
MAX931CPA-ND	Ultra Low Power Comparator	8-Dip	2.46	1.86	1.20
MAX932CSA-ND	Dual Ultra LP Single Supply Comparatpr with 2% Precision with Reference	8-SOIC	3.15	2.38	1.53
MAX934CSE-ND	Quad Ultra LP Single Supply Comparator with 2% Precision with Reference	16-SOIC	2.99	2.26	1.45
MAX941CSA-ND	Single, 3V/5V, Single Supply, 75nS, Rail-to-Rail Input Comparator	8-SOIC	3.45	2.60	1.68
MAX942CSA-ND	Dual, 3V/5V, Single Supply, 75nS, Rail-to-Rail Input Comparator	8-SOIC	3.71	2.80	1.80
MAX944CSD-ND	Quad, 3V/5V, Single Supply, 75nS, Rail-to-Rail Input Comparator	14-SOIC	6.15	4.64	2.98
MAX961ESA-ND	+3V/+5V, Beyond-the-Rails Comparator	8-SOIC	6.63	5.00	2.94
MAX964EEE-ND	Quad, Ultra HS, +3V/+5V, Beyond-the-Rails Comparator	16-QSOP	15.13	11.42	6.72
MAX971CSA-ND	Single, Ultra LP, Open-Output Comparator with 1% Accuracy	8-SOIC	3.95	2.98	1.91
MAX975ESA-ND	+3V/+5V Dual Speed Comparator with Auto Standby	8-SOIC	5.17	3.90	2.50
MAX975EUA-ND	+3V/+5V Dual Speed Comparator with Auto Standby	8-µMAX	5.17	3.90	2.50
MAX987EUK-TCT-ND	HS, Micropower, Low Volt., R/R I/O Comparator	SOT-23-5	2.52	1.90	1.67
MAX987EUK-TTR-ND	HS, Micropower, Low Volt., R/R I/O Comparator	SOT-23-5		3800.00/2,500	
MAX1044CPA-ND	CMOS Switchcap Voltage Converter	8-Dip	2.68	2.02	1.35
MAX1110CAP-ND	2.7V, 8-Bit 8-Channel Serial ADC with Reference	20-SSOP	5.38	4.06	2.61
MAX1110CPP-ND	2.7V, 8-Bit 8-Channel Serial ADC with Reference	20-Dip	5.38	4.06	2.61
MAX1202BCAP-ND	5V, 12-Bit 8-Channel Serial ADC with 3V Digital Interface	20-SSOP	18.31	13.82	8.87
MAX1202BCPP-ND	5V, 12-Bit 8-Channel Serial ADC with 3V Digital Interface	20-Dip	18.31	13.82	8.87
MAX1232CPA-ND	Microprocessor Monitor	8-Dip	3.52	2.66	1.82
MAX1232CSA-ND	Microprocessor Monitor	8-SOIC	3.52	2.66	1.82
MAX1232EPA-ND	Microprocessor Monitor High Temperature	8-Dip	4.40	3.32	2.28
MAX1232ESA-ND	Microprocessor Monitor High Temperature	8-SOIC	4.58	3.46	2.37
MAX1241ACSA-ND	2.7V Low Power 12-Bit Single Channel Serial ADC	8-SOIC	14.07	10.62	6.24
MAX1241AESA-ND	2.7V Low Power 12-Bit Single Channel Serial ADC	8-SOIC	16.88	12.74	7.49
MAX1241BCPA-ND	2.7V Low Power 12-Bit Single Channel Serial ADC	8-Dip	11.74	8.86	5.68
MAX1241BCSA-ND	2.7V Low Power 12-Bit Single Channel Serial ADC	8-SOIC	11.74	8.86	5.68
MAX1243BCPA-ND	2.7V Low Power 10-Bit Single Channel Serial ADC	8-Dip	7.08	5.34	3.43
MAX1243BCSA-ND	2.7V Low Power 10-Bit Single Channel Serial ADC	8-SOIC	7.08	5.34	3.43
MAX1247ACEE-ND	2.7V Low Power 12-Bit, 4-Channel Serial ADC	16-QSOP	22.87	17.26	10.15
MAX1247BEEE-ND	2.7V Low Power 12-Bit, 4-Channel Serial ADC	16-QSOP	19.48	14.70	9.43
MAX1247BCEE-ND	2.7V Low Power 12-Bit, 4-Channel Serial ADC	16-QSOP	15.00	11.32	7.25
MAX1247BCPE-ND	2.7V Low Power 12-Bit, 4-Channel Serial ADC	16-Dip	15.00	11.32	7.25
MAX1249BCEE-ND	2.7V Low Power 10-Bit, 4-Channel Serial ADC	16-QSOP	10.20	7.70	4.94
MAX1249BCPE-ND	2.7V Low Power 10-Bit, 4-Channel Serial ADC	16-Dip	11.13	8.40	5.39
MAX1270ACNG-ND	Multirange, +5V, 8-Channel Serial 12-Bit ADC	24-Dip	30.77	23.22	13.65
MAX1270BCAI-ND	Multirange, +5V, 8-Channel Serial 12-Bit ADC ***NEW!***	28-SSOP	24.62	18.58	11.15
MAX1406CPE-ND	230KBPS, 3 Transmitters/3 Receivers, ESD Protected	16-Dip	3.07	2.32	1.36
MAX1406CWE-ND	230KBPS, 3 Transmitters/3 Receivers, ESD Protected	16-SOIC	3.07	2.32	1.36
MAX1480ACPI-ND	Isolated RS-485/RS-422 Data Interface	28-Dip	26.18	19.76	11.32
MAX1480BCPI-ND	Isolated RS-485/RS-422 Data Interface	28-Dip	25.02	18.88	11.80
MAX1480BEPI-ND	Isolated RS-485/RS-422 Data Interface	28-Dip	32.49	24.52	15.34
MAX1482CPD-ND	Full Duplex, Slew Rate Ltd, LP RS-485 Transceiver	14-Dip	2.81	2.12	1.36
MAX1482CSD-ND	Full Duplex, Slew Rate Ltd, LP RS-485 Transceiver	14-SOIC	2.81	2.12	1.36
MAX1487CPA-ND	2.5 MBPS RS-485/RS-422 Transceiver	8-Dip	2.81	2.12	1.36
MAX1487CSA-ND	2.5 MBPS RS-485/RS-422 Transceiver	8-SOIC	2.81	2.12	1.36
MAX1488ECSD-ND	RS-232 Quad Driver, ESD-Protected	14-SOIC	2.17	1.64	1.05
MAX1488EEPD-ND	RS-232 Quad Driver, ESD-Protected	14-Dip	3.10	2.34	1.50
MAX1490ACPG-ND	Complete, Isolated RS-485/RS-422 Data Interface	24-Dip	26.18	19.76	11.56
MAX1490BCPG-ND	Complete, Isolated RS-485/RS-422 Data Interface	24-Dip	25.02	18.88	11.05
MAX1490BEPG-ND	Complete, Isolated RS-485/RS-422 Data Interface	24-Dip	32.52	24.54	14.36
MAX1602EEE-ND	Single-Ch., CardBus and Power Switching Network	16-QSOP	5.78	4.36	2.57
MAX1617AMEE-ND	Remote/Local Temp. Sensor with SMBus Serial Interface	16-QSOP	10.12	7.64	4.49
MAX1617MEE-ND	Remote/Local Temp. Sensor with SMBus Serial Interface	16-QSOP	10.12	7.64	4.49
MAX1623EAP-ND	Sync. Rectification, Low Voltage, Step-Down Regulator	20-SSOP	11.74	8.86	5.20
MAX1626ESA-ND	3.3V/5V, High-Eff. Step-Down DC/DC Controller	8-SOIC	4.61	3.48	2.06
MAX1627ESA-ND	Adj., High-Eff. Step-Down DC/DC Controller	8-SOIC	4.61	3.48	2.06
MAX1644EAE-ND	Sync. Rectification, Step-Down Regulator	16-SSOP	10.02	7.56	4.45
MAX1649CSA-ND	5V, High-Eff. LDO Step-Down DC/DC Controller	8-SOIC	4.96	3.74	2.19
MAX1649ESA-ND	5V, High-Eff. LDO Step-Down DC/DC Controller	8-SOIC	6.23	4.70	2.77
MAX1655EEE-ND	High-Eff., PWM Step-Down DC/DC Controller	16-QSOP	9.54	7.20	4.24
MAX1658ESA-ND	350mA, 16.5V Input, LDO Linear Regulator ***NEW!***	8-SOIC	5.06	3.82	2.30
MAX1659ESA-ND	Low Dropout Linear Regulator	8-SOIC	5.06	3.82	2.24
MAX1660EEE-ND	Digitally Controlled Fuel-Gauge Interface	16-QSOP	7.23	5.46	3.21
MAX1668MEE-ND	Multi Channel Remote/Local Temperature Sensor	16-QSOP	9.86	7.44	4.37
MAX1672EEE-ND	Step-Up/Down DC/DC Converter	16-QSOP	6.84	5.16	3.03
MAX1673ESA-ND	Regulator, 125mA Output, Charge-Pump DC/DC Inverter	8-SOIC	5.33	4.02	2.36
MAX1674EUA-ND	Compact, High-Eff., Step-Up DC/DC Converter	8-µMAX	5.06	3.82	2.24
MAX1675EUA-ND	Step-Up DC/DC Converter	8-UMAX	5.06	3.82	2.24
MAX1676EUB-ND	Compact, High-Eff., Step-Up DC/DC Converter	10-µMAX	5.43	4.10	2.41
MAX1681ESA-ND	125mA, Switched-Capacitor Voltage Converter	8-SOIC	5.33	4.02	2.36
MAX1684EEE-ND	300KHz, 14V Input, 1A, PWM Step-Down Converter	16-QSOP	8.56	6.46	3.79
MAX1685EEE-ND	600KHz, 14V Input, 1A, PWM Step-Down Converter	16-QSOP	8.56	6.46	3.79
MAX1692EUB-ND	Step-Down Regulator	10-UMAX	6.31	4.76	2.80
MAX1709ESE-ND	4A, Low-Noise, High-Freq. Step-Up DC/DC Converter	16-SOIC	9.73	7.34	4.32
MAX1724EZK50-TCT-ND	5V, Step-Up DC/DC Converter	SOT-23-5	3.63	2.74	2.40
MAX1724EZK50-TTR-ND	5V, Step-Up DC/DC Converter	SOT-23-5		5480.00/2,500	
MAX1737EEI-ND	Stand-Alone Switch-Mode Lithium-Ion Battery Charger Controller	28-QSOP	7.76	5.86	3.45
MAX1758EAI-ND	Stand-Alone Switch-Mode Lithium-Ion Battery Charger with Internal 28V Switch	28-SSOP	9.59	7.24	4.26
MAX1759EUB-ND	Buck/Boost Regulating Charge Pump	10-µMAX	6.33	4.78	2.81
MAX1760EUB-ND	0.8A, Low-Noise, 1MHz, Step-Up DC/DC Converter	10-µMAX	6.97	5.26	3.09
MAX1771CPA-ND	12V or Adj. Out Step-Up DC/DC Converter 90% Efficient	8-Dip	4.45	3.36	2.15
MAX1771CSA-ND	12V or Adj. Out Step-Up DC/DC Converter 90% Efficient	8-SOIC	4.88	3.68	2.16
MAX1771ESA-ND	12V or Adj. Out Step-Up DC/DC Converter 90% Efficient	8-SOIC	6.65	5.02	2.95
MAX1775EEE-ND	Dual Output Step-Down DC/DC Converter	16-QSOP	8.32	6.28	3.69
MAX1790EUA-ND	Low Noise Step-Up DC/DC Converter	8-µMAX	6.86	5.18	3.05
MAX1792EUA15-ND	1.5V or Adj., 500mA LDO Linear Regulator	8-µMAX	3.18	2.40	1.41
MAX1797EUA-ND	Low Supply Current, Step-Up DC/DC Converter	8-µMAX	9.96	7.52	4.42
MAX1818EUT33-TCT-ND	3.3V or Adj., 500mA LDO Linear Regulator	SOT-23-6	3.15	2.38	2.09
MAX1818EUT33-TTR-ND	3.3V or Adj., 500mA LDO Linear Regulator	SOT-23-6		4760.00/2,500	
MAX1831EEE-ND	3A, 1MHz, Low-Voltage Step-Down Regulator	16-QSOP	11.29	8.52	5.01
MAX1856EUB-ND	Wide Input Range, Sync. PWM SLIC Power Supply	10-µMAX	4.27	3.22	1.90
MAX3082CPA-ND	10Mbps, High Speed, Slew-Rate Limited RS-485/RS-422 Transceiver	8-Dip	2.99	2.26	1.33
MAX3082CSA-ND	10Mbps, High Speed, Slew-Rate Limited RS-485/RS-422 Transceiver	8-SOIC	2.99	2.26	1.33
MAX3082ESA-ND	10Mbps, High Speed, Slew-Rate Limited RS-485/RS-422 Transceiver	8-SOIC	3.74	2.82	1.66
MAX3086CSD-ND	10Mbps, High Speed, Slew-Rate Limited RS-485/RS-422 Transceiver	14-SOIC	2.99	2.26	1.33
MAX3088CSA-TCT-ND	10Mbps, High Speed, Slew-Rate Limited RS-485/RS-422 Transceiver	8-SOIC	3.18	2.40	2.10
MAX3088CSA-TTR-ND	10Mbps, High Speed, Slew-Rate Limited RS-485/RS-422 Transceiver	8-SOIC		4800.00/2,500	
MAX3094ECSE-ND	10Mbps, 3V, LP Quad RS-422/RS-485 Receiver	16-SOIC	3.02	2.28	1.34
MAX3095CPE-ND	10Mbps, 5V, Quad RS-422/RS-485 Receiver, ESD Protected	16-Dip	3.02	2.28	1.34
MAX3095EPE-ND	10Mbps, 5V, Quad RS-422/RS-485 Receiver, ESD Protected	16-Dip	4.29	3.24	1.91
MAX3096CEE-ND	10Mbps, 3V, Quad RS-422/RS-485 Receiver, ESD Protected	16-QSOP	3.02	2.28	1.34
MAX3096CSE-ND	10Mbps, 3V, Quad RS-422/RS-485 Receiver, ESD Protected	16-SOIC	3.02	2.28	1.34
MAX3097ECSE-ND	32Mbps, 3V-5.5V, Triple RS-422/RS-485 Receiver, ESD Protected	16-SOIC	8.75	6.60	3.89
MAX3100CEE-ND	SPI/Microwire-Compatible UART	16-QSOP	7.00	5.28	3.10
MAX3100CPD-ND	SPI/Microwire-Compatible UART	14-Dip	7.00	5.28	3.10
MAX3100EEE-ND	SPI/Microwire-Compatible UART	16-QSOP	9.99	7.54	4.43
MAX3100EPD-ND	SPI/Microwire-Compatible UART	14-Dip	9.99	7.54	4.43
MAX3110ECNI-ND	SPI/Microwire-Compatible UART and ESD Protected RS-232 Transceiver	28-Dip	11.61	8.76	5.16
MAX3110ECWI-ND	SPI/Microwire-Compatible UART and ESD Protected RS-232 Transceiver	28-SOIC	11.61	8.76	5.16
MAX3111ECWI-ND	SPI/Microwire-Compatible UART and ESD Protected RS-232 Transceiver	28-SOIC	11.61	8.76	5.16
MAX3111EEWI-ND	SPI/Microwire-Compatible UART and ESD Protected RS-232 Transceiver	28-SOIC	16.62	12.54	7.37
MAX3140CEI-ND	SPI/Microwire-Compatible UART with Integrated True Fail-Safe RS-485/RS-422 Transceiver	28-QSOP	9.99	7.54	4.44
MAX3162EAI-ND	3V to 5.5V, Two Transceiver Two Receiver RS-232 Interface and Single RS-485/422 Transceiver	28-SSOP	19.29	14.56	8.57
MAX3209ECUU-ND	12V, Dual RS-232 Serial Port with Low-Power Standby for Motherboards/Desktops ***NEW!***	38-TSSOP	5.72	4.32	2.77
MAX3218CAP-ND	1.8V to 4.25V, RS-232 Transceiver with AutoShutdown	20-SSOP	4.74	3.58	2.10
MAX3221CAE-ND	3V to 5.5V, RS-232 Transceiver with AutoShutdown	16-SSOP	2.84	2.14	1.37
MAX3221EAE-ND	3V to 5.5V, RS-232 Transceiver with AutoShutdown	16-SSOP	4.05	3.06	1.96
MAX3221ECAE-ND	3V to 5.5V, 250kbps, RS-232 Transceiver w/AutoShutdown, ESD Protected	16-SSOP	3.26	2.46	1.58
MAX3221EEAE-ND	3V to 5.5V, 250kbps, RS-232 Transceiver w/AutoShutdown, ESD Protected	16-SSOP	4.66	3.52	2.26
MAX3222CPN-ND	3V to 5.5V, Low Power, True RS-232 Transceiver	18-Dip	4.19	3.16	2.02
MAX3223EAP-ND	3V to 5.5V, RS-232 Transceiver w/AutoShutdown	20-SSOP	5.41	4.08	2.62
MAX3223EEAP-ND	3V to 5.5V, 250kbps, RS-232 Transceiver w/AutoShutdown, ESD Protected	20-SSOP	7.21	5.44	3.49
MAX3223EEPP-ND	3V to 5.5V, 250kbps, RS-232 Transceiver w/AutoShutdown, ESD Protected	20-Dip	7.21	5.44	3.49
MAX3224CAP-ND	3V to 5.5V, 1Mbps, RS-232 Transceiver with AutoShutdown	20-SSOP	4.19	3.16	2.02
MAX3224ECAP-ND	3V to 5.5V, 1Mbps, RS-232 Transceiver with AutoShutdown, ESD Protected	20-SSOP	5.04	3.80	2.44
MAX3226EEAE-ND	3V to 5.5V, 1Mbps, RS-232 Transceiver with AutoShutdown, ESD Protected	16-SSOP	4.66	3.52	2.26
MAX3232CSE-ND	3V to 5.5V, True RS-232 Transceiver up to 1Mbps	16-SOIC	4.19	3.16	2.02
MAX3232CUE-ND	3V to 5.5V, True RS-232 Transceiver up to 1Mbps	16-TSSOP	4.16	3.14	1.85
MAX3232ECAE-ND	3V to 5.5V, True RS-232 Transceiver, ESD Protected	16-SSOP	5.04	3.80	2.44
MAX3232ECPE-ND	3V to 5.5V, True RS-232 Transceiver, ESD Protected	16-Dip	5.04	3.80	2.44
MAX3232ECWE-ND	3V to 5.5V, True RS-232 Transceiver, ESD Protected	16-SOIC	5.04	3.80	2.44
MAX3232EEAE-ND	3V to 5.5V, True RS-232 Transceiver, ESD Protected	16-SSOP	7.21	5.44	3.49
MAX3233ECPP-ND	3V to 3.6V, 250kbps, Dual RS-232 Transceiver, ESD Protected	20-Dip	8.80	6.64	4.25
MAX3233ECWP-ND	3V to 3.6V, 250kbps, Dual RS-232 Transceiver, ESD Prot.	20-SOIC	8.80	6.64	4.25
MAX3233EEWP-ND	3V to 3.6V, 250kbps, Dual RS-232 Transceiver, ESD Prot.	20-SOIC	12.22	9.22	5.91
MAX3235ECWP-ND	4.5V to 5.5V, 250kbps, Dual RS-232 Transceiver, ESD Prot.	20-SOIC	8.11	6.12	3.92
MAX3235EEWP-ND	4.5V to 5.5V, 250kbps, Dual RS-232 Transceiver, ESD Prot.	20-SOIC	11.24	8.48	5.44
MAX3237CAI-ND	3V to 5.5V, True RS-232 Transceiver	28-SSOP	7.53	5.68	3.65
MAX3237EAI-ND	3V to 5.5V, True RS-232 Transceiver	28-SSOP	10.76	8.12	5.21
MAX3237EEAI-ND	3V to 5.5V, True RS-232 Transceiver, ESD Prot.	28-SSOP	11.98	9.04	5.79
MAX3238ECAI-ND	3V to 5.5V, 250kbps RS-232 Transceiver, ESD Prot.	28-SSOP	8.75	6.60	4.23
MAX3241CAI-ND	3V to 5.5V, LP True RS-232 Transceiver	28-SSOP	7.53	5.68	3.65
MAX3241EAI-ND	3V to 5.5V, LP True RS-232 Transceiver	28-SSOP	10.76	8.12	5.21
MAX3241ECAI-ND	3V to 5.5V, LP True RS-232 Transceiver, ESD Prot.	28-SSOP	8.75	6.60	4.23
MAX3241EEAI-ND	3V to 5.5V, LP True RS-232 Transceiver, ESD Prot.	28-SSOP	11.98	9.04	5.79
MAX3243CAI-ND	3V to 5.5V, RS-232 Transceiver with AutoShutdown	28-SSOP	7.53	5.68	3.65
MAX3243EAI-ND	3V to 5.5V, RS-232 Transceiver with AutoShutdown	28-SSOP	10.76	8.12	5.21
MAX3243ECAI-ND	3V to 5.5V, RS-232 Transceiver with AutoShutdown, ESD Protection	28-SSOP	8.75	6.60	4.23
MAX3244ECAI-ND	3V to 5.5V, RS-232 Transceiver with AutoShutdown, ESD Protection	28-SSOP	8.75	6.60	4.23
MAX3244ECWI-ND	3V to 5.5V, RS-232 Transceiver with AutoShutdown, ESD Protection	28-SOIC	8.75	6.60	4.23
MAX3245ECAI-ND	3V to 5.5V, RS-232 Transceiver with AutoShutdown, ESD Protection	28-SSOP	9.54	7.20	4.23

(Continued)

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Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MAX3245EEWI-ND	3V to 5.5V, RS-232 Transceiver with AutoShutdown, ESD Protection	28-SOIC	13.06	9.86	5.79
MAX3291EPD-ND	5Mbps to 10Mbps, RS-485/RS-422 Transceiver	14-Dip	9.51	7.18	4.22
MAX3292ESD-ND	Prog. up to 10Mbps, RS-485/RS-422 Transceiver	14-SOIC	9.51	7.18	4.22
MAX3311CUB-ND	460kbps, 1µA Supply Current RS-232 Transceiver	10-µMAX	2.60	1.96	1.15
MAX3311ECUB-ND	460kbps, 1µA Supply Current RS-232 Transceiver, ESD Prot.	10-µMAX	2.92	2.20	1.29
MAX3311EEUB-ND	460kbps, 1µA Supply Current RS-232 Transceiver, ESD Prot.	10-µMAX	3.79	2.86	1.68
MAX3313CUB-ND	460kbps, 1µA Supply Current RS-232 Transceiver	10-µMAX	2.60	1.96	1.15
MAX3313ECUB-ND	460kbps, 1µA Supply Current RS-232 Transceiver, ESD Prot.	10-µMAX	2.92	2.20	1.29
MAX3319ECAE-ND	2.5V, 1µA, 460kbps, RS-232 Transceiver	16-SSOP	5.49	4.14	2.44
MAX3320TEAP-ND	3V to 5.5V, True RS-232 Transceiver with AutoShutdown	20-SSOP	6.49	4.90	2.89
MAX3371EXT-TCT-ND	1µA, 2Mbps, Low Voltage Level Translator	SC70-6	2.20	1.66	1.46
MAX3371EXT-TTR-ND	1µA, 2Mbps, Low Voltage Level Translator	SC70-6		3320.00/2,500	
MAX3386ECUP-ND	3V, 250kbps, RS-232 Transceiver, ESD Protected	20-TSSOP	5.70	4.30	2.75
MAX3387ECUG-ND	3V, 250kbps, RS-232 Transceiver, Auto Shutdown, ESD Protected	24-TSSOP	7.34	5.54	3.25
MAX3387EEUG-ND	3V, 250kbps, RS-232 Transceiver, AutoShutdown, ESD Protected	24-TSSOP	8.75	6.60	3.88
MAX3471EUA-ND	1.6µA, RS-485/RS-422, Half-Duplex Differential Transceiver	8-µMAX	5.19	3.92	2.31
MAX3483ECSA-ND	3V to 3.6V, 250kbps and Slew Rate Limited True RS-485/RS-422 Transceiver, ESD Protected	8-SOIC	4.32	3.26	2.09
MAX3483EESA-ND	3V to 3.6V, 250kbps and Slew Rate Limited True RS-485/RS-422 Transceiver, ESD Protected	8-SOIC	5.46	4.12	2.64
MAX3490CSA-ND	3.3V Powered RS-485/422 Transceiver	8-SOIC	3.82	2.88	1.84
MAX3491ECSD-ND	3V to 3.6V, 12Mbps and Slew Rate Limited True RS-485/RS-422 Transceiver, ESD Protected	14-SOIC	4.32	3.26	2.09
MAX3491EESD-ND	3V to 3.6V, 12Mbps and Slew Rate Limited True RS-485/RS-422 Transceiver, ESD Protected	14-SOIC	5.46	4.12	2.64
MAX4003EUA-ND	100MHz to 2500MHz, 45dB RF Detector	8-µMAX	2.46	1.86	1.09
MAX4018EEE-ND	High Speed, Triple Op Amp with Rail-to-Rail Output	16-QSOP	4.77	3.60	2.12
MAX4020ESD-ND	High Speed, Quad Op Amp with Rail-to-Rail Output	14-SOIC	5.43	4.10	2.41
MAX4051ACPE-ND	8-Ch., Low-Voltage, CMOS Analog Mux	16-Dip	4.37	3.30	2.11
MAX4051ACSE-ND	8-Ch., Low-Voltage, CMOS Analog Mux	16-SOIC	4.05	3.06	1.96
MAX4052ACEE-ND	Dual 4-Ch., Low-Voltage, CMOS Analog Mux/Switch **NEW!**	16-QSOP	4.82	3.64	2.34
MAX4052AEEE-ND	Dual 4-Ch., Low-Voltage, CMOS Analog Mux/Switch	16-QSOP	6.28	4.74	3.04
MAX4066CPD-ND	Low-Voltage, Quad, SPST, CMOS Analog Switch	14-Dip	2.28	1.72	1.10
MAX4107ESA-ND	300MHz, Ultra-Low Noise Op Amp	8-SOIC	3.76	2.84	1.67
MAX4109ESA-ND	225MHz, Ultra-Low Distortion Op Amp	8-SOIC	3.76	2.84	1.67
MAX4121CSA-ND	330MHz Multiplexer/Crosspoint Building Block IC	8-SOIC	5.25	3.96	2.54
MAX4123ESA-ND	Single, 5MHz, Single Supply Op Amp with Shutdown	8-SOIC	2.60	1.96	1.26
MAX4125ESA-ND	Single, 10 V/µs, Single Supply Op Amp with Shutdown	8-SOIC	2.60	1.96	1.26
MAX4126ESA-ND	Dual, 5MHz, Single Supply Op Amp	8-SOIC	3.74	2.82	1.81
MAX4127ESD-ND	Dual, 5MHz, Single Supply Op Amp with Shutdown	14-SOIC	4.43	3.34	2.14
MAX4128ESA-ND	Dual, 10 V/µs, Single Supply Op Amp	8-SOIC	3.74	2.82	1.81
MAX4128EUA-ND	Dual, 10 V/µs, Single Supply Op Amp	8-µMAX	3.98	3.00	1.77
MAX4129ESD-ND	Quad, 5MHz, Single Supply Op Amp	14-SOIC	6.36	4.80	3.08
MAX4131ESA-ND	Single, 10MHz, Single Supply Op Amp with Shutdown	8-SOIC	2.60	1.96	1.26
MAX4132ESA-ND	Dual, 10MHz, Single Supply Op Amp	8-SOIC	3.74	2.82	1.81
MAX4134ESD-ND	Quad, 10MHz, Single Supply Op Amp	14-SOIC	6.36	4.80	3.08
MAX4144ESD-ND	HS, Low-Distortion, Diff. Line Receiver	14-SOIC	6.36	4.80	2.83
MAX4145ESD-ND	HS, Low-Distortion, Diff. Line Receiver	14-SOIC	6.36	4.80	2.83
MAX4147ESD-ND	300MHz, Low Power, High Output Current, Diff. Line Driver	14-SOIC	6.63	5.00	2.94
MAX4162ESA-ND	10V, Micropower, R/R I/O Op Amp	8-SOIC	2.65	2.00	1.18
MAX4163ESA-ND	10V, Micropower, R/R I/O Dual Op Amp	8-SOIC	3.31	2.50	1.47
MAX4172ESA-ND	High-Side Current Sense Amplifier	8-SOIC	3.84	2.90	1.87
MAX4172EUA-ND	High-Side Current Sense Amplifier	8-µMAX	3.52	2.66	1.71
MAX4173FESA-ND	Voltage-Output, High-Side Current-Sense Amp	8-SOIC	1.88	1.42	.84
MAX4173HESA-ND	Voltage-Output, High-Side Current-Sense Amp	8-SOIC	1.88	1.42	.84
MAX4173TESA-ND	Voltage-Output, High-Side Current-Sense Amp	8-SOIC	1.88	1.42	.84
MAX4194ESA-ND	Variable-Gain Precision Instrumentation Amp	8-SOIC	4.03	3.04	1.78
MAX4218ESD-ND	Triple, 300MHz, Single Supply, Rail-to-Rail Op Amp **NEW!**	14-SOIC	7.90	5.96	3.58
MAX4220EEE-ND	High-Speed Single Supply Rail-to-Rail Quad Op Amp	16-QSOP	10.49	7.92	5.08
MAX4220ESD-ND	High-Speed Single Supply Rail-to-Rail Quad Op Amp	14-SOIC	10.49	7.92	5.08
MAX4222ESD-ND	HS, Single Supply, Gain of 2, Closed-Loop R/R Buffer	14-SOIC	9.01	6.80	4.00
MAX4242ESA-ND	Dual 1.8V, Beyond-the-Rails Op Amp	8-SOIC	3.45	2.60	1.53
MAX4310ESA-ND	HS, LP, Dual Video Mux Amp	8-SOIC	5.51	4.16	2.45
MAX4311ESD-ND	HS, LP, Quad Video Mux Amp	14-SOIC	7.39	5.58	3.28
MAX4314ESD-ND	HS, LP, Quad Video Mux Amp	14-SOIC	7.39	5.58	3.28
MAX4372TEUK-TCT-ND	Micropower, High-Side Current-Sense Amp	SOT-23-5	1.88	1.42	1.25
MAX4372TEUK-TTR-ND	Micropower, High-Side Current-Sense Amp	SOT-23-5		2840.00/2,500	
MAX4373FEUA-ND	Micropower, High-Side Current-Sense Amp/Comparator/Ref.	8-µMAX	2.94	2.22	1.31
MAX4373TESA-ND	Micropower, High-Side Current-Sense Amp/Comparator/Ref.	8-SOIC	2.94	2.22	1.31
MAX4373TEUA-ND	Micropower, High-Side Current-Sense Amp/Comparator/Ref.	8-µMAX	2.94	2.22	1.31
MAX4374HEUB-ND	Micropower, High-Side Current-Sense Amp/Comparator/Ref.	10-µMAX	3.84	2.90	1.70
MAX4420CPA-ND	High-Speed 6A MOSFET Driver, Non-Inverting	8-Dip	3.39	2.56	1.83
MAX4420ESA-ND	High-Speed 6A MOSFET Driver, Non-Inverting	8-SOIC	4.58	3.46	2.47
MAX4429CPA-ND	High-Speed 6A MOSFET Driver, Inverting	8-Dip	3.39	2.56	1.83
MAX4515CSA-ND	Low-Volt., Low-On Res., SPST, CMOS Analog N/C Switch	8-SOIC	1.46	1.10	.65
MAX4521CPE-ND	Low-Volt., SPST, 4 Normally Closed Analog Switches	16-Dip	1.72	1.30	.77
MAX4523CEE-ND	Low-Volt., SPST, 2 N/C and 2 N/O Analog Switches	16-QSOP	2.23	1.68	.99
MAX4526CSA-ND	Phase-Reversal Analog Switch	8-SOIC	5.70	4.30	2.53
MAX4533CAP-ND	Quad, R/R, Fault-Protected SPDT Analog Switch	20-SSOP	8.51	6.42	3.78
MAX4537ESE-ND	Quad, Low-Voltage, SPST Analog Switch	16-SOIC	2.84	2.14	1.26
MAX4542EUA-ND	Dual SPST Normally Closed Analog Switch	8-µMAX	1.64	1.24	.73
MAX4544CPA-ND	Dual SPDT Low-Voltage Analog Switch	8-Dip	1.56	1.18	.70
MAX4544CSA-ND	Dual SPDT Low-Voltage Analog Switch	8-SOIC	1.56	1.18	.70
MAX4544EPA-ND	Dual SPDT Low-Voltage Analog Switch	8-Dip	1.56	1.18	.70
MAX4544ESA-ND	Dual SPDT Low-Voltage Analog Switch	8-SOIC	1.56	1.18	.70
MAX4544EUT-TCT-ND	Dual SPDT Low-Voltage Analog Switch	SOT-23-6	1.67	1.26	1.11
MAX4544EUT-TTR-ND	Dual SPDT Low-Voltage Analog Switch	SOT-23-6		2520.00/2,500	
MAX4567CSE-ND	Dual SPDT Low-Volt., Bidirectional RF/Video Switch	16-SOIC	4.40	3.32	1.95
MAX4614CSD-ND	Quad SPST Low-Volt., HS CMOS Analog Switch	14-SOIC	2.33	1.76	1.04
MAX4617CUE-ND	8-Ch., High Speed, Low-Volt., CMOS Analog Mux **NEW!**	16-TSSOP	2.70	2.04	1.23
MAX4618CSE-ND	Dual 4-Ch. High Speed, Low-Volt., CMOS Analog Mux	16-SOIC	2.39	1.80	1.06
MAX4619CPE-ND	Triple SPDT, HS, Low-Volt., CMOS Analog Switch	16-Dip	2.39	1.80	1.06
MAX4619CSE-ND	Triple SPDT, HS, Low-Volt., CMOS Analog Switch **NEW!**	16-SOIC	2.39	1.80	1.08
MAX4622CSE-ND	SPDT Dual 5 Ohm Analog Switch	16-SOIC	5.25	3.96	2.33
MAX4622ESE-ND	SPDT Dual 5 Ohm Analog Switch **NEW!**	16-SOIC	5.78	4.36	2.62
MAX4624EUT-TCT-ND	1 Ohm, Low-Volt. Single-Supply SPDT Analog Switch	SOT-23-6	2.65	2.00	1.75
MAX4624EUT-TTR-ND	1 Ohm, Low-Volt. Single-Supply SPDT Analog Switch	SOT-23-6		4000.00/2,500	
MAX4625EUT-TCT-ND	1 Ohm, Low-Volt. Single-Supply SPDT Analog Switch	SOT-23-6	2.65	2.00	1.75
MAX4625EUT-TTR-ND	1 Ohm, Low-Volt. Single-Supply SPDT Analog Switch	SOT-23-6		4000.00/2,500	
MAX4626EUK-TCT-ND	0.5 Ohm, Low-Volt. Single-Supply SPST Analog Switch	SOT-23-5	2.52	1.90	1.67
MAX4626EUK-TTR-ND	0.5 Ohm, Low-Volt. Single-Supply SPST Analog Switch	SOT-23-5		3800.00/2,500	
MAX4634EUB-ND	4 Ohm, Low-Volt. 4-Ch., CMOS Analog Mux	10-µMAX	2.89	2.18	1.28
MAX4636EUB-ND	4 Ohm, Low-Volt. SPDT CMOS Analog Switch	10-µMAX	2.76	2.08	1.22

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MAX4644EUT-TCT-ND	4 Ohm, Low-Volt. SPDT CMOS Analog Switch	SOT-23-6	1.83	1.38	1.21
MAX4644EUT-TTR-ND	4 Ohm, Low-Volt. SPDT CMOS Analog Switch	SOT-23-6		2760.00/2,500	
MAX4648EUT-TCT-ND	25 Ohm, SPST Analog Switch	SOT-23-6	3.10	2.34	2.05
MAX4648EUT-TTR-ND	25 Ohm, SPST Analog Switch	SOT-23-6		4680.00/2,500	
MAX4661CAE-ND	2.5 Ohm, Quad, SPST, CMOS Analog Switch	16-SSOP	9.91	7.48	4.40
MAX4685EUB-ND	0.8 Ohm, Low Volt., Dual SPDT Analog Switch	10-µMAX	3.50	2.64	1.55
MAX4691EGE-TCT-ND	Low-Voltage, CMOS Analog 8-Ch. Mux	16-QFN	4.13	3.12	2.73
MAX4691EGE-TTR-ND	Low-Voltage, CMOS Analog 8-Ch. Mux	16-QFN		6240.00/2,500	
MAX5100AEUP-ND	2.7 to 5.5V, LP, Quad, Parallel 8-Bit DAC with R/R Voltage Output **NEW!**	20-TSSOP	8.77	6.62	3.98
MAX5102AEUE-ND	2.7 to 5.5V, LP, Dual, Parallel 8-Bit DAC with R/R Voltage Output	16-TSSOP	7.05	5.32	3.13
MAX5102BEUE-ND	2.7 to 5.5V, LP, Dual, Parallel 8-Bit DAC with R/R Voltage Output	16-TSSOP	5.88	4.44	2.61
MAX5190BEEG-ND	8-Bit, 40MHz, Current/Voltage Output DAC	24-QSOP	7.71	5.82	3.41
MAX5250BCAP-ND	5V 10-Bit Quad VOUT Serial DAC	20-SSOP	13.94	10.52	6.75
MAX5250BCPP-ND	5V 10-Bit Quad VOUT Serial DAC	20-Dip	13.94	10.52	6.75
MAX5250BEAP-ND	5V 10-Bit Quad VOUT Serial DAC	20-SSOP	18.10	13.66	8.04
MAX5251BCAP-ND	3V 10-Bit Quad VOUT Serial DAC	20-SSOP	13.94	10.52	6.75
MAX5253BCAP-ND	3V 12-Bit Quad VOUT Serial DAC	20-SSOP	31.99	24.14	15.48
MAX5258EEE-ND	5V, Low Power, 8-Bit Octal DAC with R/R Output Buffer	16-QSOP	7.90	5.96	3.50
MAX5259EEE-ND	3V, Low Power, 8-Bit Octal DAC with R/R Output Buffer	16-QSOP	7.90	5.96	3.50
MAX5352BCPA-ND	5V 12-Bit VOUT Serial DAC	8-Dip	11.85	8.94	5.73
MAX5352BCUA-ND	5V 12-Bit VOUT Serial DAC	8-µMAX	11.85	8.94	5.73
MAX5353BCUA-ND	3.3V 12-Bit VOUT Serial DAC	8-µMAX	11.85	8.94	5.73
MAX5354CPA-ND	5V 10-Bit VOUT Serial DAC	8-Dip	7.61	5.74	3.69
MAX5354CUA-ND	5V 10-Bit VOUT Serial DAC	8-µMAX	7.61	5.74	3.69
MAX5355CUA-ND	3.3V 10-Bit VOUT Serial DAC	8-µMAX	8.16	6.16	3.96
MAX5401EKA-TCT-ND	256-Tap SOT-PoT, Low Drift Digital Potentiometer	SOT-23-8	2.46	1.86	1.63
MAX5401EKA-TTR-ND	256-Tap SOT-PoT, Low Drift Digital Potentiometer	SOT-23-8		3720.00/2,500	
MAX5402EUA-ND	256-Tap, Digital Potentiometer	8-µMAX	2.73	2.06	1.21
MAX6002EUR-TCT-ND	2.5V, Low-Power, LDO Voltage Reference	SOT-23	1.14	.86	.76
MAX6002EUR-TTR-ND	2.5V, Low-Power, LDO Voltage Reference	SOT-23		1720.00/2,500	
MAX6012AEUR-TCT-ND	1.247V, Precision, Low-Power, LDO Voltage Ref.	SOT-23	4.37	3.30	2.89
MAX6012AEUR-TTR-ND	1.247V, Precision, Low-Power, LDO Voltage Ref.	SOT-23		6600.00/2,500	
MAX6120ESA-ND	Low-Cost, Micropower, 1.2V Precision, 3-Terminal Volt. Ref.	8-SOIC	2.52	1.90	1.23
MAX6192AESA-ND	2.5V, Precision, Micropower, LDO Voltage Ref.	8-SOIC	6.28	4.74	2.78
MAX6225AEPA-ND	Low-Drift, Low-Noise, 2.5V Precision Voltage Ref.	8-Dip	13.70	10.34	6.64
MAX6225AESA-ND	Low-Drift, Low-Noise, 2.5V Precision Voltage Ref.	8-SOIC	13.70	10.34	6.64
MAX6225BCSA-ND	Low-Drift, Low-Noise, 2.5V Precision Voltage Ref.	8-SOIC	5.99	4.52	2.65
MAX6225BEPA-ND	Low-Drift, Low-Noise, 2.5V Precision Voltage Ref.	8-Dip	6.31	4.76	3.06
MAX6225BESA-ND	Low-Drift, Low-Noise, 2.5V Precision Voltage Ref.	8-SOIC	6.31	4.76	3.06
MAX6241ACPA-ND	Low-Drift, Low-Noise, 4.096V Precision Voltage Ref.	8-Dip	12.32	9.30	5.47
MAX6241AEPA-ND	Low-Drift, Low-Noise, 4.096V Precision Voltage Ref.	8-Dip	13.70	10.34	6.64
MAX6241AESA-ND	Low-Drift, Low-Noise, 4.096V Precision Voltage Ref.	8-SOIC	13.70	10.34	6.64
MAX6241BEPA-ND	Low-Drift, Low-Noise, 4.096V Precision Voltage Ref.	8-Dip	6.31	4.76	3.06
MAX6241BESA-ND	Low-Drift, Low-Noise, 4.096V Precision Voltage Ref.	8-SOIC	6.31	4.76	3.06
MAX6250ACSA-ND	Low-Drift, Low-Noise, 5.0V Precision Voltage Ref.	8-SOIC	12.32	9.30	5.47
MAX6250AEPA-ND	Low-Drift, Low-Noise, 5.0V Precision Voltage Ref.	8-Dip	13.70	10.34	6.64
MAX6250AESA-ND	Low-Drift, Low-Noise, 5.0V Precision Voltage Ref.	8-SOIC	13.70	10.34	6.64
MAX6250BCPA-ND	Low-Drift, Low-Noise, 5.0V Precision Voltage Ref.	8-Dip	5.99	4.52	2.65
MAX6250BCSA-ND	Low-Drift, Low-Noise, 5.0V Precision Voltage Ref.	8-SOIC	5.99	4.52	2.65
MAX6250BEPA-ND	Low-Drift, Low-Noise, 5.0V Precision Voltage Reference	8-Dip	6.31	4.76	3.06
MAX6250BESA-ND	Low-Drift, Low-Noise, 5.0V Precision Voltage Reference	8-SOIC	6.31	4.76	3.06
MAX6301CSA-ND	5V, Low Power, Micropower, Supervisory Circuit	8-SOIC	3.82	2.88	1.69
MAX6303CSA-ND	5V, Low Power, Micropower, Supervisory Circuit	8-SOIC	3.82	2.88	1.69
MAX6314US46D3-TCT-ND	4.63V Reset Circuit	SOT-143	2.36	1.78	1.56
MAX6314US46D3-TTR-ND	4.63V Reset Circuit	SOT-143		3560.00/2,500	
MAX6315US29D2-TCT-ND	2.93V Open-Drain Reset Circuit	SOT-143	2.36	1.78	1.56
MAX6315US29D2-TTR-ND	2.93V Open-Drain Reset Circuit	SOT-143		3560.00/2,500	
MAX6315US44D1-TCT-ND	4.39V Open-Drain Reset Circuit	SOT-143	2.15	1.62	1.42
MAX6315US44D1-TTR-ND	4.39V Open-Drain Reset Circuit	SOT-143		3240.00/2,500	
MAX6320PUK29CYTCT-ND	2.93V Microprocessor Supervisory Circuit	SOT-23-5	2.76	2.08	1.82
MAX6320PUK29CYTTR-ND	2.93V Microprocessor Supervisory Circuit	SOT-23-5		4160.00/2,500	
MAX6320PUK46CYTCT-ND	4.63V Microprocessor Supervisory Circuit	SOT-23-5	2.76	2.08	1.82
MAX6320PUK46CYTTR-ND	4.63V Microprocessor Supervisory Circuit	SOT-23-5		4160.00/2,500	
MAX6336US23D3-TCT-ND	2.3V, Ultra Low-Volt., LP, Reset Circuit	SOT-143-4	2.52	1.90	1.67
MAX6336US23D3-TTR-ND	2.3V, Ultra Low-Volt., LP, Reset Circuit	SOT-143-4		3800.00/2,500	
MAX6338KUB-ND	Quad Voltage Monitor	10-µMAX	6.49	4.90	2.87
MAX6338LUB-ND	Quad Voltage Monitor	10-µMAX	6.49	4.90	2.87
MAX6338OUB-ND	Quad Voltage Monitor	10-µMAX	6.49	4.90	2.87
MAX6348UR46-TCT-ND	4.63V, Ultra Low-Power Microprocessor Reset Circuit	SOT-23	2.36	1.78	1.56
MAX6348UR46-TTR-ND	4.63V, Ultra Low-Power Microprocessor Reset Circuit	SOT-23		3560.00/2,500	
MAX6369KA-TCT-ND	Pin-Selectable Watchdog Timer	SOT-23-8	2.33	1.76	1.55
MAX6369KA-TTR-ND	Pin-Selectable Watchdog Timer	SOT-23-8		3520.00/2,500	
MAX6373KA-TCT-ND	Pin-Selectable Watchdog Timer	SOT-23-8	2.33	1.76	1.55
MAX6373KA-TTR-ND	Pin-Selectable Watchdog Timer	SOT-23-8		3520.00/2,500	
MAX6651EEE-ND	SMBus/I2C Compatible Interface	16-QSOP	7.79	5.88	3.33
MAX6954AAX-ND	4-Wire Interfaced, 2.7V to 5.5V, LED Display Driver with I/O Expander and Key Scan	36-SSOP	24.04	18.14	11.3
MAX6954APL-ND	4-Wire Interfaced, 2.7V to 5.5V, LED Display Driver with I/O Expander and Key Scan	40-Dip	24.04	18.14	11.3
MAX6955AAX-ND	2-Wire Interfaced, 2.7V to 5.5V, LED Display Driver with I/O Expander and Key Scan	36-SSOP	24.04	18.14	11.3
MAX6955APL-ND	2-Wire Interfaced, 2.7V to 5.5V, LED Display Driver, with I/O Expander and Key Scan	40-Dip	24.04	18.14	11.3
MAX6956ANI-ND	2-Wire Interfaced, 2.5V to 5.5V, 20-Port or 28-Port, LED Display Driver and I/O Expander	28-Dip	8.16	6.16	3.8
MAX6956AAI-ND	2-Wire Interfaced, 2.5V to 5.5V, 20-Port or 28-Port, LED Display Driver and I/O Expander	28-SSOP	8.16	6.16	3.8
MAX6957ANI-ND	4-Wire Interfaced, 2.5V to 5.5V, 20-Port and 28-Port, LED Display Driver and I/O Expander	28-Dip	8.16	6.16	3.8
MAX6957AAI-ND	4-Wire Interfaced, 2.5V to 5.5V, 20-Port and 28-Port, LED Display Driver and I/O Expander	28-SSOP	8.16	6.16	3.8
MAX7219CNG-ND	Serial Input 8-Digit LED Driver Multiplexed	24-Dip	10.81	8.16	5.4
MAX7219CWG-ND	Serial Input 8-Digit LED Driver Multiplexed	24-SOIC	10.81	8.16	5.4
MAX7219EWG-ND	Serial Input 8-Digit LED Driver Multiplexed	24-SOIC	14.05	10.60	6.2
MAX7221CWG-ND	Serially Interfaced, 8-Digit LED Display Driver	24-SOIC	10.81	8.16	5.4
MAX7645BCPP-ND	CMOS 12-Bit Buffered Multiplying DAC	20-Dip	15.77	11.90	7.6
MAX8211CPA-ND	Programmable Voltage Detector, Non-Inverting	8-Dip	3.45	2.60	1.6
MAX8211CSA-ND	Programmable Voltage Detector, Non-Inverting	8-SOIC	3.50	2.64	1.7
MAX8211ESA-ND	Programmable Voltage Detector, Non-Inverting	8-SOIC	5.27	3.98	2.5

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Digi-Key No.	Description	Pkg.	Price Each★ 1	25	100
3212CPA-ND	Programmable Voltage Detector, Inverting	8-Dip	3.45	2.60	1.73
3212CSA-ND	Programmable Voltage Detector, Inverting	8-SOIC	3.02	2.28	1.52
3213ACPE-ND	Five Universal Voltage Monitors with Open-Drain Outputs	16-Dip	7.23	5.46	3.50
3214ACPE-ND	Five Universal Voltage Monitors with Active Pull-Ups	16-Dip	7.23	5.46	3.50
3881EUT50-TCT-ND	12V, Ultra Low IQ, LDO Linear Regulator with POK ***NEW!***	SOT-23-6	4.19	3.16	2.77
3881EUT50-TTR-ND	12V, Ultra Low IQ, LDO Linear Regulator with POK ***NEW!***	SOT-23-6		6320.00/2,500	
74AJN-ND	Industry-Standard, Complete 12-Bit ADC	28-Dip	31.72	23.94	17.10
226KN-ND	CMOS, Quad, 8-Bit DAC with Voltage Output Amp	20-Dip	27.37	20.66	14.75
524JN-ND	CMOS 8-Bit Buffer DAC	16-Dip	5.86	4.42	3.15
528JCWP-ND	CMOS Dual DAC 8-Bit Buffered	20-SOIC	8.80	6.64	4.74
533JCWE-ND	CMOS 10-Bit D/A Converter	16-SOIC	6.60	4.98	3.55
548BQ-ND	CMOS 12-Bit Current-Output, Multiplying DAC	20-Dip	23.74	17.92	10.54
1210CSA-ND	Nonvolatile RAM Controller	8-SOIC	5.83	4.40	2.94
OP07EP-ND	Low Offset Voltage Op Amp	8-Dip	5.64	4.26	3.05

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Digi-Key No.	Description	Pkg.	Price Each★ 1	25
2C887-ND	Real Time Clock with RAM, 128 Byte	24-Dip	8.96	6.76
8B20-ND	Programmable Resolution 1-Wire® Digital Thermometer	TO-92	5.04	3.80
8B20Z-ND	Programmable Resolution 1-Wire® Digital Thermometer	8-SOIC	5.04	3.80
8S20-ND	High Precision 1-Wire® Digital Thermometer	TO-92	5.04	3.80
8S20Z-ND	High Precision 1-Wire® Digital Thermometer	8-SOIC	5.04	3.80
1Q43AT-ND	5V, Quad E1 Framer	128-TQFP	148.53	112.10
1Q352-ND	3.3V, T1 Transceiver	256-BGA	189.13	142.74
1Q352N-ND	3.3V, T1 Transceiver, Ind. Temp.	256-BGA	217.51	164.16
1S07AE-ND	SCSI Terminator	20-TSSOP	4.11	3.10
1S07AS-ND	SCSI Terminator	16-SOIC	3.76	2.84
1T07E-ND	SCSI Terminator	20-TSSOP	3.66	2.76
1T09S-ND	Plug and Play SCSI Terminator, 2%	28-SOIC	6.36	4.80
2KHZ/DIP-ND	32.768kHz TCXO	14-Dip	10.15	7.66
2KHZN/DIP-ND	32.768kHz TCXO, Ind. Temp.	14-Dip	11.69	8.82
2KHZ/WBGA/CT-ND	32.768kHz TCXO	36-BGA	10.26	7.74
2KHZ/WBGA/TR-ND	32.768kHz TCXO	36-BGA		3412.50/750
6S-ND	Dual 3V/5V, Analog Temperature Sensor	8-SOIC	1.83	1.38
5S-ND	2-Wire Digital Temperature Sensor, LM75-Compatible	8-SOIC	2.01	1.52
100LZ-20-ND	5-Tap Delay Line, 20nS	8-SOIC	6.97	5.26
100LZ-75-ND	5-Tap Delay Line, 75nS	8-SOIC	6.97	5.26
100LZ-100-ND	5-Tap Delay Line, 100nS	8-SOIC	6.97	5.26
100M-25-ND	5-Tap Delay Line, 25nS	8-Dip	5.64	4.26
100M-50-ND	5-Tap Delay Line, 50nS	8-Dip	5.64	4.26
100Z-20-ND	5-Tap Delay Line, 20nS	8-SOIC	6.33	4.78
100Z-35-ND	5-Tap Delay Line, 35nS	8-SOIC	6.33	4.78
100Z-40-ND	5-Tap Delay Line, 40nS	8-SOIC	6.33	4.78
100Z-50-ND	5-Tap Delay Line, 50nS	8-SOIC	6.33	4.78
100Z-100-ND	5-Tap Delay Line, 100nS	8-SOIC	6.33	4.78
100Z-200-ND	5-Tap Delay Line, 200nS	8-SOIC	6.33	4.78
100Z-250-ND	5-Tap Delay Line, 250nS	8-SOIC	6.33	4.78
210-ND	Nonvolatile Controller Chip	8-Dip	4.85	3.66
210N-ND	Nonvolatile Controller Chip, Ind. Temp.	8-Dip	5.70	4.30
210S-ND	Nonvolatile Controller Chip	16-SOIC	5.22	3.94
210SN-ND	Nonvolatile Controller Chip, Ind. Temp.	16-SOIC	6.41	4.84
211-ND	Nonvolatile Controller x 8 Chip	20-Dip	33.52	25.30
211S-ND	Nonvolatile Controller x 8 Chip	20-SOIC	37.76	28.50
213B-ND	SmartSocket 16K/64K	28-Dip	22.66	17.10
213C-ND	SmartSocket 256K	28-Dip	22.66	17.10
213D-ND	SmartSocket 256K/1M	32-Dip	26.42	19.94
216C-ND	SmartWatch/RAM, 64K/256K 5V	28-Dip	38.21	28.84
216D-ND	SmartWatch/RAM, 256K/1M 5V	32-Dip	41.90	31.62
216E-ND	SmartWatch/ROM, 64K, 256K, 1M 5V	28-Dip	38.21	28.84
218S-ND	Nonvolatile Controller Chip	8-SOIC	13.20	9.96
220AB-120-ND	Nonvolatile SRAM, 16K, 5%, 120nS	24-Dip	16.17	12.20
220AB-150-ND	Nonvolatile SRAM, 16K, 5%, 150nS	24-Dip	15.77	11.90
220AB-200-ND	Nonvolatile SRAM, 16K, 5%, 200nS	24-Dip	13.91	10.50
220AD-120-ND	Nonvolatile SRAM, 16K, 10%, 120nS	24-Dip	16.17	12.20
225AB-85-ND	Nonvolatile SRAM, 64K, 5%, 85nS	28-Dip	20.19	15.24
225AB-150-ND	Nonvolatile SRAM, 64K, 5%, 150nS	28-Dip	19.72	14.88
225AB-200-ND	Nonvolatile SRAM, 64K, 5%, 200nS	28-Dip	14.71	11.10
225AD-85-ND	Nonvolatile SRAM, 64K, 10%, 85nS	28-Dip	20.19	15.24
225AD-150-ND	Nonvolatile SRAM, 64K, 10%, 150nS	28-Dip	19.72	14.88
225AD-200-ND	Nonvolatile SRAM, 64K, 10%, 200nS	28-Dip	19.72	14.88
230AB-70-ND	Nonvolatile SRAM, 256K, 5%, 70nS	28-Dip	27.27	20.58
230AB-100-ND	Nonvolatile SRAM, 256K, 5%, 100nS	28-Dip	26.63	20.10
230AB-120-ND	Nonvolatile SRAM, 256K, 5%, 120nS	28-Dip	26.63	20.10
230AB-200-ND	Nonvolatile SRAM, 256K, 5%, 200nS	28-Dip	26.63	20.10
230Y-70-ND	Nonvolatile SRAM, 256K, 10%, 70nS	28-Dip	27.27	20.58
230Y-70IND-ND	Nonvolatile SRAM, 256K, 10%, 70nS, Ind. Temp.	28-Dip	22.13	16.70
230Y-100-ND	Nonvolatile SRAM, 256K, 10%, 100nS	28-Dip	20.80	15.70
230Y-120-ND	Nonvolatile SRAM, 256K, 10%, 120nS	28-Dip	20.80	15.70
230Y-150-ND	Nonvolatile SRAM, 256K, 10%, 150nS	28-Dip	26.63	20.10
230Y-200-ND	Nonvolatile SRAM, 256K, 10%, 200nS	28-Dip	20.80	15.70
231S-20-ND	Power Monitor Chip, 20nS	16-SOIC	10.07	7.60
231-20N-ND	Power Monitor Chip, 20nS, Ind. Temp.	8-Dip	9.54	7.20
231-35-ND	Power Monitor Chip, 35nS	8-Dip	8.29	6.26
232-ND	MicroMonitor Chip	8-Dip	2.09	1.58
232N-ND	MicroMonitor Chip, Ind. Temp.	8-Dip	2.60	1.96
232LP-ND	Low Power MicroMonitor Chip	8-Dip	2.25	1.70
232LPS-ND	Low Power MicroMonitor Chip	16-SOIC	2.76	2.08
232LPS-2-ND	Low Power MicroMonitor Chip	8-SOIC	2.25	1.70
232LPSN-2-ND	Low Power MicroMonitor Chip, Ind. Temp.	8-SOIC	2.60	1.96
232S-ND	MicroMonitor Chip	16-SOIC	2.76	2.08
232SN-ND	MicroMonitor Chip, Ind. Temp.	16-SOIC	3.18	2.40
233-5-ND	5V, EconoReset, 5%	TO-92	1.38	1.04
233-10-ND	5V, EconoReset, 10%	TO-92	1.38	1.04
233A-10-ND	3.3V, EconoReset, 10%	TO-92	1.38	1.04
233A-15-ND	3.3V, EconoReset, 15%	TO-92	1.38	1.04
233AZ-10-ND	3.3V, EconoReset, 10%	SOT-223	2.25	1.70
233AZ-15-ND	3.3V, EconoReset, 15%	SOT-223	2.41	1.82
233D-5-ND	5V, EconoReset, No Pushbutton Reset, 5%	TO-92	1.38	1.04
233D-10-ND	5V, EconoReset, No Pushbutton Reset, 10%	TO-92	1.38	1.04
233D-15-ND	5V, EconoReset, No Pushbutton Reset, 15%	TO-92	1.38	1.04
233DZ-5-ND	5V, EconoReset, No Pushbutton Reset, 5%	SOT-223	2.25	1.70
233DZ-10-ND	5V, EconoReset, No Pushbutton Reset, 10%	SOT-223	2.25	1.70
233DZ-15-ND	5V, EconoReset, No Pushbutton Reset, 15%	SOT-223	2.41	1.82
233M-55-ND	5V, EconoReset	TO-92	1.38	1.04
233MS-3-ND	3.3V, EconoReset	8-SOIC	2.89	2.18
233MS-5-ND	5V, EconoReset	8-SOIC	2.89	2.18
233Z-5-ND	EconoReset, 5%	SOT-223	2.25	1.70
233Z-10-ND	EconoReset, 10%	SOT-223	2.41	1.82
233Z-15-ND	EconoReset, 15%	SOT-223	2.41	1.82
DS1236-5-ND	MicroManager™ Chip, 5%	16-Dip	10.57	7.98
DS1236-10-ND	MicroManager™ Chip, 10%	16-Dip	10.57	7.98
DS1236AS-5-ND	MicroManager™ Chip, 5%	16-SOIC	12.35	9.32
DS1236AS-10-ND	MicroManager™ Chip, 10%	16-SOIC	12.35	9.32
DS1236S-10-ND	MicroManager™ Chip, 10%	16-SOIC	12.35	9.32
DS1238-10-ND	MicroManager™ Chip, 10%	16-Dip	10.57	7.98
DS1238AS-5-ND	MicroManager™ Chip, 5%	16-SOIC	12.35	9.32
DS1239S-5-ND	MicroManager™ Chip, 5%	16-SOIC	12.35	9.32
DS1243Y-120-ND	Nonvolatile SRAM with Phantom Clock, 64K, 120nS	28-Dip	44.31	33.44
DS1244Y-70-ND	Nonvolatile SRAM with Phantom Clock, 256K, 70nS	28-Dip	52.10	39.32
DS1245AB-120-ND	Nonvolatile SRAM, 1024K, 5%, 120nS	32-Dip	37.44	28.26
DS1245Y-100-ND	Nonvolatile SRAM, 1024K, 10%, 100nS	32-Dip	37.44	28.26
DS1245Y-120-ND	Nonvolatile SRAM, 1024K, 10%, 120nS	32-Dip	37.44	28.26
DS1245Y-70IND-ND	Nonvolatile SRAM, 1024K, 10%, 70nS, Ind. Temp.	32-Dip	40.12	30.28
DS1245YP-100-ND	Nonvolatile SRAM, 1024K, 10%, 100nS	34-PCM	29.87	22.54
DS1249Y-70-ND	Nonvolatile SRAM, 2048K, 10%, 70nS	32-Dip	67.68	51.08
DS1250WP-150-ND	3.3V, Nonvolatile SRAM, 4096K, 150nS	34-PCM	110.32	83.26
DS1250Y-100-ND	Nonvolatile SRAM, 4096K, 100nS	32-Dip	117.90	88.98
DS1259-ND	Battery Manager Chip	16-Dip	11.82	8.92
DS1259S-ND	Battery Manager Chip	16-SOIC	14.20	10.72
DS1260-100-ND	Smart Battery, 1000MAH @ 3V	16-Dip	24.17	18.24
DS1267-010-ND	Dual Digital Potentiometer Chip, 10K	14-Dip	8.32	6.28
DS1267-050-ND	Dual Digital Potentiometer Chip, 50K	14-Dip	8.32	6.28
DS1267-100-ND	Dual Digital Potentiometer Chip, 100K	14-Dip	8.32	6.28
DS1267E-10-ND	Dual Digital Potentiometer Chip, 10K	20-TSSOP	10.34	7.80
DS1267E-100-ND	Dual Digital Potentiometer Chip, 100K	20-TSSOP	10.34	7.80
DS1267S-010-ND	Dual Digital Potentiometer Chip, 10K	16-SOIC	9.57	7.22
DS1267S-050-ND	Dual Digital Potentiometer Chip, 50K	16-SOIC	9.57	7.22
DS1267S-100-ND	Dual Digital Potentiometer Chip, 100K	16-SOIC	9.57	7.22
DS1283S-ND	Watchdog Timekeeper Chip	28-SOIC	11.00	8.30
DS1283SN-ND	Watchdog Timekeeper Chip, Ind. Temp.	28-SOIC	12.67	9.56
DS1284-ND	Watchdog Timekeeper Chip	28-Dip	13.14	9.92
DS1284Q-ND	Watchdog Timekeeper Chip	28-PLCC	14.10	10.64
DS1284QN-ND	Watchdog Timekeeper Chip, Ind. Temp.	28-PLCC	14.60	11.02
DS1286-ND	Watchdog Timekeeper Chip	28-Dip	26.31	19.86
DS1302-ND	Trickle Charge Timekeeping Chip, 300mil.	8-Dip	3.31	2.50
DS1302N-ND	Trickle Charge Timekeeping Chip, Ind. Temp.	8-Dip	4.13	3.12
DS1302S-16-ND	Trickle Charge Timekeeping Chip, 300mil.	16-SOIC	6.81	5.14
DS1302SN-ND	Trickle Charge Timekeeping Chip, Ind. Temp.	8-SOIC	4.13	3.12
DS1302Z-ND	Trickle Charge Timekeeping Chip, 150mil.	8-SOIC	3.31	2.50
DS1305-ND	Serial Alarm Real-Time Clock, 300mil.	16-Dip	5.06	3.82
DS1305E-ND	Serial Alarm Real-Time Clock, 173mil.	20-TSSOP	5.06	3.82
DS1305EN-ND	Serial Alarm Real-Time Clock, Ind. Temp.	20-TSSOP	5.59	4.22
DS1306E-ND	Serial Alarm Real-Time Clock, 4.4mil.	20-TSSOP	5.06	3.82
DS1306EN-ND	Serial Alarm Real-Time Clock, Ind. Temp.	20-TSSOP	5.59	4.22
DS1307-ND	Serial Real-Time Clock, 64 x 8, 100mil.	8-Dip	3.74	2.82
DS1307Z-ND	Serial Real-Time Clock, 64 x 8, 150mil.	8-SOIC	3.29	2.48
DS1307ZN-ND	Serial Real-Time Clock, 64 x 8, Ind. Temp.	8-SOIC	4.13	3.12
DS1312S-ND	Nonvolatile Controller with Lithium Battery Monitor, 300mil.	16-SOIC	15.32	11.56
DS1312S-2-ND	Nonvolatile Controller with Lithium Battery Monitor, 150mil.	8-SOIC	12.19	9.20
DS1314S-ND	Nonvolatile Controller with Lithium Battery Monitor, 3V, 300mil.	16-SOIC	12.51	9.44
DS1314S-2-ND	Nonvolatile Controller with Lithium Battery Monitor, 3V, 150mil.	8-SOIC	16.01	12.08
DS1315-5-ND	5V, Phantom Time Chip, 300mil.	16-Dip	15.61	11.78
DS1315EN-33-ND	3.3V, Phantom Time Chip, Ind. Temp.	20-TSSOP	20.51	15.48
DS1315S-5-ND	5V, Phantom Time Chip, 300mil.	16-SOIC	18.13	13.68
DS1315SN-5-ND	5V, Phantom Time Chip, Ind. Temp. +B200	16-SOIC	20.51	15.48
DS1321-ND	Flexible Nonvolatile Controller with Lithium Battery Monitor, 5V	16-Dip	10.15	7.66
DS1321S-ND	Flexible Nonvolatile Controller with Lithium Battery Monitor, 5V	16-SOIC	10.15	7.66
DS1345WP-150-ND	3.3V, Nonvolatile SRAM with Battery Monitor, 1024K	34-PCM	32.86	24.80
DS1384FP-12-ND	Watchdog Timekeeping Controller, 120nS	44-PQFP	17.70	13.36
DS1386-32-120-ND	RAMified Watchdog Timekeeper, 256K	32-Dip	54.64	41.24
DS1486-120-ND	RAMified Watchdog Timekeeper, 1024K	32-Dip	64.79	48.90
DS1501WE-ND	3.3V, Y2KC Watchdog Real-Time Clock	28-TSOP	12.08	9.12
DS1501WEN-ND	3.3V, Y2KC Watchdog Real-Time Clock, Ind. Temp.	28-TSOP	13.89	10.48
DS1511W-ND	3.3V, Y2KC Watchdog Real-Time Clock	28-Dip	20.86	15.74
DS1602-ND	Elapsed Time Counter	8-Dip	5.19	3.92
DS1602S-ND	Elapsed Time Counter	8-SOIC	5.91	4.46
DS1603-ND	Elapsed Time Counter Module	7-SIP	14.20	10.72
DS1609S-50-ND	Dual Port RAM, 50nS	24-SOIC	8.82	6.66
DS1620-ND	Digital Thermometer and Thermostat, 300mil.	8-Dip	6.97	5.26
DS1620S-ND	Digital Thermometer and Thermostat, 208mil.	8-SOIC	6.97	5.26
DS1621-ND	Digital Thermometer and Thermostat, 300mil.	8-Dip	4.61	3.48
DS1621S-ND	Digital Thermometer and Thermostat, 150mil.	8-SOIC	4.61	3.48
DS1624-ND	Digital Thermometer and Memory, 300mil.	8-Dip	9.04	6.82
DS1624S-ND	Digital Thermometer and Memory, 208mil.	8-SOIC	9.04	6.82
DS1629S-ND	2-Wire Digital Thermometer and Real Time Clock, 150mil.	8-SOIC	7.76	5.86
DS1642-100-ND	Nonvolatile Timekeeping RAM, 100nS	24-Dip	25.25	19.06
DS1643-100-ND	Nonvolatile Timekeeping RAM, 100nS, 700mil.	28-Dip	26.34	19.88
DS1644-120-ND	Nonvolatile Timekeeping RAM, 120nS	28-Dip	34.56	26.08
DS1644P-120-ND	Nonvolatile Timekeeping RAM, 120nS	34-PCM*	35.96	27.14
DS1646-120-ND	Nonvolatile Timekeeping RAM, 120nS	32-Dip	54.93	41.46
DS1646P-120-ND	Nonvolatile Timekeeping RAM+B228, 120nS	34-PCM*	51.22	38.66
DS1666S-10-ND	Audio Digital Resistor	16-SOIC	4.72	3.56
DS1669-10-ND	Dallastat™ Electronic Digital Rheostat, 10K	8-Dip	6.81	5.14
DS1669-100-ND	Dallastat™ Electronic Digital Rheostat, 100K	8-Dip	6.81	5.14
DS1669S-10-ND	Dallastat™ Electronic Digital Rheostat, 10K	8-SOIC	7.18	5.42
DS1669S-50-ND	Dallastat™ Electronic Digital Rheostat, 50K	8-SOIC	7.18	5.42
DS1669S-100-ND	Dallastat™ Electronic Digital Rheostat, 100K	8-SOIC	7.18	5.42
DS1672S-33-ND	3.3V, Serial Timekeeping Chip	8-SOIC	3.07	2.32
DS1682S-ND	Total-Elapsed-Time Recorder with Alarm	8-SOIC	4.96	3.74
DS1685-5-ND	5V, Real-Time Clock	24-Dip	6.07	4.58

*DS9034PCX Powercap required, order DS9034PCX-ND

(Continued)

DALLAS SEMICONDUCTOR — SPECIALIZED INTEGRATED CIRCUITS *(Continued)*

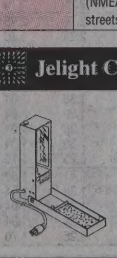
Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25
DS1685E-3-ND	3V/5V, Real-Time Clock	24-TSSOP	6.44	4.86
DS1685QN-5-ND	5V, Real-Time Clock, Ind. Temp.	28-PLCC	7.90	5.96
DS1685S-5-ND	5V, Real-Time Clock	24-SOIC	6.41	4.84
DS1687-5-ND	5V, Real-Time Clock	24-Dip	9.38	7.08
DS1688S-ND	3V/5V, Serialized Real-Time Clock with NV RAM Control	28-SOIC	9.38	7.08
DS1689S-ND	3V/5V, Serialized Real-Time Clock with NV RAM Control	28-SOIC	9.38	7.08
DS1693-ND	3V/5V, Serialized Real-Time Clock Module with NV RAM Control	28-Dip	19.82	14.96
DS1705EPA-ND	5V, MicroMonitor, 5%	8-Dip	2.25	1.70
DS1705ESA-ND	5V, MicroMonitor, 10%	8-SOIC	2.25	1.70
DS1706ESA-ND	5V, MicroMonitor, 10%	8-SOIC	2.25	1.70
DS1706LEPA-ND	5V, MicroMonitor, 5%	8-Dip	2.25	1.70
DS1706LESA-ND	5V, MicroMonitor, 5%	8-SOIC	2.25	1.70
DS1706SESA-ND	3.3V, MicroMonitor, 10%	8-SOIC	2.25	1.70
DS1706TESA-ND	3.3V, MicroMonitor, 5%	8-SOIC	2.25	1.70
DS1707ESA-ND	5V, MicroMonitor, 5%	8-SOIC	2.04	1.54
DS1708ESA-ND	5V, MicroMonitor, 5%	8-SOIC	2.25	1.70
DS1708SESA-ND	3.3V, MicroMonitor, 10%	8-SOIC	2.25	1.70
DS1708TESA-ND	3.3V, MicroMonitor, 5%	8-SOIC	2.25	1.70
DS1721S-ND	2-Wire Digital Thermometer and Thermostat	8-SOIC	3.87	2.92
DS1721U-ND	2-Wire Digital Thermometer and Thermostat	8-SOP	3.87	2.92
DS1722S-ND	2-Wire Digital Thermometer and Thermostat	8-SOIC	2.60	1.96
DS1722U-ND	2-Wire Digital Thermometer and Thermostat	8-MSOP	2.65	2.00
DS1742W-120-ND	3.3V, Y2KC Nonvolatile Timekeeping RAM, 120nS	24-Dip	30.87	23.30
DS1742W-150-ND	3.3V, Y2KC Nonvolatile Timekeeping RAM, 150nS	24-Dip	29.52	22.28
DS1743-70-ND	5V, Y2KC Nonvolatile Timekeeping RAM, 70nS	28-Dip	40.86	30.84
DS1743-100-ND	5V, Y2KC Nonvolatile Timekeeping RAM, 100nS	28-Dip	38.58	29.12
DS1743P-100-ND	5V, Y2KC Nonvolatile Timekeeping RAM, 100nS	34-PCM*	28.73	21.68
DS1743WP-120-ND	3.3V, Y2KC Nonvolatile Timekeeping RAM, 120nS	34-PCM*	31.01	23.40
DS1744-70-ND	5V, Y2KC Nonvolatile Timekeeping RAM, 70nS	28-Dip	48.28	36.44
DS1746WP-120-ND	3.3V, Y2KC Nonvolatile Timekeeping RAM, 120nS	34-PCM*	52.50	39.62
DS1780E-ND	CPU Peripheral Monitor	24-TSSOP	5.04	3.80
DS1801E-014-ND	Dual Audio Taper Potentiometer	14-TSSOP	7.50	5.66
DS1803E-010-ND	Addressable Dual Digital Potentiometer	14-TSSOP	6.86	5.18
DS1803Z-010-ND	Addressable Dual Digital Potentiometer, 10K, 150mil.	16-SOIC	6.39	4.82
DS1803Z-050-ND	Addressable Dual Digital Potentiometer, 50K, 150mil.	16-SOIC	6.39	4.82
DS1803Z-100-ND	Addressable Dual Digital Potentiometer, 100K, 150mil.	16-SOIC	6.39	4.82
DS1804-010-ND	Nonvolatile Trimmer Potentiometer, 10K, 300mil.	8-Dip	3.10	2.34
DS1804-100-ND	Nonvolatile Trimmer Potentiometer, 100K, 300mil.	8-Dip	3.10	2.34
DS1804Z-010-ND	Nonvolatile Trimmer Potentiometer, 10K, 150mil.	8-SOIC	3.23	2.44
DS1804Z-050-ND	Nonvolatile Trimmer Potentiometer, 50K, 150mil.	8-SOIC	3.23	2.44
DS1804Z-100-ND	Nonvolatile Trimmer Potentiometer, 100K, 150mil.	8-SOIC	3.23	2.44
DS1806E-050-ND	Digital Sextet Potentiometer, 50K	20-TSSOP	12.08	9.12
DS1810-5-ND	5V, EconoReset with Push-Pull Output, 5%	TO-92	1.11	.84
DS1810-10-ND	5V, EconoReset with Push-Pull Output, 10%	TO-92	1.11	.84
DS1811-5-ND	5V, EconoReset with Open Drain Output, 5%	TO-92	1.11	.84
DS1811-10-ND	5V, EconoReset with Open Drain Output, 10%	TO-92	1.11	.84
DS1811-15-ND	5V, EconoReset with Open Drain Output, 15%	TO-92	1.11	.84
DS1812-5-ND	5V, EconoReset with Active High Push-Pull Output, 5%	TO-92	1.11	.84
DS1812-10-ND	5V, EconoReset with Active High Push-Pull Output, 10%	TO-92	1.11	.84
DS1813-5-ND	5V, EconoReset with Pushbutton, 5%	TO-92	1.11	.84
DS1813-10-ND	5V, EconoReset with Pushbutton, 10%	TO-92	1.11	.84
DS1815-10-ND	3.3V, EconoReset with Push-Pull Output, 10%	TO-92	1.11	.84
DS1818-10-ND	3.3V, EconoReset with Pushbutton, 10%	TO-92	1.11	.84
DS1821-ND	Programmable Digital Thermostat and Thermometer	3-PR35	5.75	4.34
DS1821S-ND	Programmable Digital Thermostat and Thermometer	8-SOIC	5.75	4.34
DS1822-ND	Econo 1-Wire® Digital Thermometer	TO-92	3.87	2.92
DS1831S-ND	Multi-Supply Micromonitor	16-SOIC	6.76	5.10
DS1832S-ND	3.3V, MicroMonitor Chip	8-SOIC	1.86	1.40
DS1833-5-ND	5V, Microprocessor EconoReset, 5%	TO-92	1.80	1.36
DS1833-10-ND	5V, Microprocessor EconoReset, 10%	TO-92	1.80	1.36
DS1833Z-5-ND	5V, Microprocessor EconoReset, 5%	SOT-223	3.15	2.38
DS1833Z-10-ND	5V, Microprocessor EconoReset, 10%	SOT-223	3.15	2.38
DS1834AS-ND	Dual Microprocessor EconoReset with Pushbutton	8-Dip	2.41	1.82
DS1834AU-ND	Dual Microprocessor EconoReset with Pushbutton	8-MSOP	2.60	1.96
DS1834S-ND	Dual Microprocessor EconoReset with Pushbutton	8-SOIC	2.41	1.82
DS1844S-010-ND	Quad Digital Potentiometer	20-SOIC	5.78	4.36
DS1845E-010-ND	Dual Nonvolatile Potentiometer and Memory, 10K	14-TSSOP	4.24	3.20
DS1845E-100-ND	Dual Nonvolatile Potentiometer and Memory, 100K	14-TSSOP	4.24	3.20
DS1866Z-ND	2.7-5.5V, Log Trimmer Potentiometer	8-Dip	2.94	2.22
DS1867-10-ND	Dual Digital Potentiometer with EEPROM, 10K	14-Dip	8.80	6.64
DS1867-50-ND	Dual Digital Potentiometer with EEPROM, 50K	14-Dip	8.80	6.64
DS1867-100-ND	Dual Digital Potentiometer with EEPROM, 100K	14-Dip	8.80	6.64
DS1867E-10-ND	Dual Digital Potentiometer with EEPROM, 10K	20-TSSOP	9.99	7.54
DS1867S-10-ND	Dual Digital Potentiometer with EEPROM, 10K	16-SOIC	9.73	7.34
DS1868-10-ND	Dual Digital Potentiometer Chip, 10K	14-Dip	5.59	4.22
DS1868E-10-ND	Dual Digital Potentiometer Chip, 10K	20-TSSOP	6.78	5.12
DS1868S-10-ND	Dual Digital Potentiometer Chip, 10K	16-SOIC	5.88	4.44
DS1869-10-ND	3V, Dallastat™ Electronic Digital Rheostat, 10K	8-Dip	5.64	4.26
DS1869S-10-ND	3V, Dallastat™ Electronic Digital Rheostat, 10K	8-SOIC	5.88	4.44
DS1869S-50-ND	3V, Dallastat™ Electronic Digital Rheostat, 50K	8-SOIC	5.88	4.44
DS2016-100-ND	3V/5V, 2K x 8, Operation Static RAM	24-Dip	11.13	8.40
DS2108S-ND	Differential SCSI Switchable Terminator	24-SOIC	14.68	11.08
DS2118MB-ND	Ultra2 LVD/SE SCSI Terminator	36-SSOP	7.45	5.62
DS2119ME-ND	Ultra3 LVD/SE SCSI Terminator	28-TSSOP	3.13	2.36
DS2141AQ-ND	5V, T1 Framer Controller	44-PLCC	50.99	38.48
DS2143Q-ND	5V, E1 Framer Controller	44-PLCC	50.99	38.48
DS2151QB-ND	5V, T1 Single Chip Transceiver	44-PLCC	77.65	58.60
DS2151QNB-ND	5V, T1 Single Chip Transceiver, Ind. Temp.	44-PLCC	89.31	67.40
DS2152L-ND	Enhanced T1 Single-Chip Transceiver	100-LQFP	68.98	52.06
DS2152LN-ND	Enhanced T1 Single-Chip Transceiver, Ind. Temp.	100-LQFP	79.26	59
DS2153Q-A7-ND	5V, E1 Single-Chip Transceiver	44-PLCC	77.65	58
DS2154L-ND	5V, Enhanced E1 Single Chip Transceiver	100-LQFP	68.98	52
DS2165Q-ND	5V, ADPCM Processor 16/24/32kpbs	24-PLCC	41.55	31
DS2172T-ND	Bit Error Rate Tester (BERT), 8-Bit	32-TQFP	18.26	13
DS2175-ND	T1/CEPT Elastic Store	16-Dip	24.41	18
DS2175S-ND	T1/CEPT Elastic Store	16-SOIC	26.82	20
DS2176-ND	T1 Receive Buffer	24-Dip	28.33	21
DS2176Q-ND	T1 Receive Buffer	28-PLCC	31.14	23
DS2180A-ND	T1 Transceiver	40-Dip	33.47	25
DS2180AQ-ND	T1 Transceiver	44-PLCC	38.37	28
DS2180AQN-ND	T1 Transceiver, Ind. Temp.	44-PLCC	44.65	33
DS2181A-ND	CEPT Primary Rate Transceiver	40-Dip	58.78	44
DS2181AQ-ND	CEPT Primary Rate Transceiver	44-PLCC	64.58	49
DS2187-ND	Receive Line Interface	18-Dip	34.74	26
DS2187S-ND	Receive Line Interface	20-SOIC	38.13	28
DS2188-ND	T1/CEPT Jitter Attenuator	16-Dip	16.87	11
DS2188S-ND	T1/CEPT Jitter Attenuator	16-SOIC	17.62	13
DS2252T-128-16-ND	Secure Microcontroller Module, 128K	40-SIMM	201.40	152
DS2282/8722282000-ND	T1 FDL Controller/Monitor Stik	30-SIP	118.83	89
DS2401-ND	Silicon Serial Number, 48-Bit, One-Wire	TO-92	1.86	1
DS2401P-ND	Silicon Serial Number, 48-Bit, One-Wire	6-TSOC	2.01	1
DS2401X1CT-ND	Silicon Serial Number, 48-Bit, One-Wire	6-CSP	1.03	
DS2401X1TR-ND	Silicon Serial Number, 48-Bit, One-Wire	6-CSP	5850.00/10,	
DS2401Z-ND	Silicon Serial Number, 48-Bit, One-Wire	SOT-223	2.28	1
DS2404B-ND	EconoRAM Time Chip	16-SSOP	11.08	8
DS2404S-001-ND	EconoRAM Time Chip	16-SOIC	10.57	7
DS2405-ND	Addressable Switch, Open Drain	TO-92	2.23	1
DS2405Z-ND	Addressable Switch, Open Drain	SOT-223-4	2.41	1
DS2406P-ND	Dual Addressable Switch Plus 1K-Bit Memory	6-TSOC	6.78	5
DS2417P-ND	1-Wire™ Time Chip with Interrupt	6-TSOC	2.70	2
DS2430A-ND	256-Bit 1-Wire™ EEPROM	TO-92	3.39	2
DS2430AP-ND	256-Bit 1-Wire™ EEPROM	6-TSOC	3.52	2
DS2432P-ND	1K-Bit Protected 1-Wire™ EEPROM	6-TSOC	6.25	4
DS2436B-ND	Battery Identification/Monitor Chip	TO-92	3.74	2
DS2436Z-ND	Battery Identification/Monitor Chip	8-SOIC	3.74	2
DS2438Z-ND	Smart Battery Monitor	8-SOIC	3.87	2
DS2450S-ND	1-Wire™ Quad A/D Converter	8-SOIC	8.72	6
DS2480B-ND	Serial 1-Wire™ Line Driver with Load Sensor	8-SOIC	6.84	5
DS2502S-ND	1K-Bit Add-Only Memory	8-SOIC	4.61	3
DS2505-ND	16K-Bit Add-Only Memory	TO-92	4.37	3
DS2505P-ND	16K-Bit Add-Only Memory	6-TSOC	4.37	3
DS5001FP-16-ND	128K Soft Microprocessor Chip	80-MQFP	35.25	26
DS9034PC-ND	PowerCap Module without Crystal	Powercap Module	7.58	5
DS9034PCX-ND	PowerCap Module with Crystal	Powercap Module	9.86	7
DS9502P-ND	ESD Protection Diode	6-TSOC	1.03	
DS9503P-ND	ESD Protection Diode with Resistor	6-TSOC	1.11	
DS12885Q-ND	Real-Time Clock with RAM, 128 Byte	28-PLCC	8.03	6
DS12885S-ND	Real-Time Clock with RAM, 128 Byte	24-SOIC	7.74	5
DS12887-ND	Real-Time Clock with RAM, 128 Byte	24-Dip	8.96	6
DS12887A-ND	Real-Time Clock with RAM, 128 Byte	24-Dip	8.96	6
DS14285Q-ND	Real-Time Clock with NV RAM Control	28-PLCC	8.03	6
DS14287-ND	Real-Time Clock with NV RAM Control	24-Dip	11.26	8
DS17285S-3-ND	3V, Real-Time Clock Chip	24-SOIC	9.01	6
DS17287-5-ND	5V, Real-Time Clock with Battery and Crystal	24-Dip	14.79	11
DS17887-5-ND	5V, Real-Time Clock	24-Dip	22.34	16
DS18030-010-ND	Addressable Dual Digital Potentiometer	16-Dip	5.88	4
DS21352L-ND	3.3V, T1 Single Chip Transceiver	100-LQFP	55.04	41
DS21352LN-ND	3.3V, T1 Single Chip Transceiver	100-LQFP	63.20	47
DS21354L-ND	3.3V, E1 Single Chip Transceiver	100-LQFP	55.04	41

★DS9034PCX Powercap required; order DS9034PCX-ND

RAYMING corporation — RF TRANSMITTER A RECEIVER BOAR

Digi-Key Part No.	Description	Price Each 1	25
RE-01-ND	Decoder Motherboard utilizing the HT-12D Decoder IC; 3.2" x 2.4" (81.28mm x 60.96mm). Designed for use with the RE-66 Receiver. Operating Voltage: 12 VDC	21.00	18.75
RE-66-ND	Serial Data Output 310 MHz LC AM Receiver Board. 1.188" x 2.375" (30.18mm x 60.33mm). Operating Voltage: 5VDC	14.00	12.50
DK-ER102J-ND	DKER-102 GPS Developer's Kit is the easiest way to experiment and test GPS for your application. This kit contains everything you need to start receiving GPS data right out of the box. Add your own off-the-shelf mapping software (NMEA compatible) to pinpoint your exact position on earth in relation to the streets depicted from your mapping software.	159.99	—

Jelight Company, Inc. — CHIPhERASE



• Operating intensity is at least 25% greater than competitive systems for inc throughput • Excellent uniformity ensures fast and complete erasure • Quick load/ trays for EPROMs • All metal housing • Heavy duty construction for ruggedness may be stacked to save space • Safety interlock to prevent accidental UV exposure drawer for processing loaded PC boards

JEL10-ND (Holds 12 ICs) **$11**

JEL20-ND (Holds 20 ICs, with 60 min. Dial Timer) **$18**

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FLASH MEMORY

Toshiba

Key No.	Description	Pkg.	Price Each★ 1	25	100
TVT160AFT-70-ND	16M-Bit 3V CMOS (2M x 8 / 1M x 16) Top Boot Block	48-TSOP	3.32	3.00	2.66
TVB160AFT-70-ND	16M-Bit 3V CMOS (2M x 8 / 1M x 16) Bottom Boot Block	48-TSOP	4.50	3.60	2.80
TC64BFT-ND	64M-Bit 3V NAND (8M x 8)	44-TSOP	9.00	7.20	6.08
TC7VM6B2ATG-65-ND	64M-Bit 3V NOR CMOS (8M x 8 / 4M x 16) Bottom Boot Block	48-TSOP	8.66	7.80	6.92
TC7VM6T2ATG-65-ND	64M-Bit 3V NOR CMOS (8M x 8 / 4M x 16) Top Boot Block	48-TSOP	8.66	7.80	6.92
TC7VM72A1FT-ND	128M-Bit 3.3V NAND (16M x 8)	48-TSOP	8.50	6.80	5.74
TC7VM7B2ATG-65-ND	128M-Bit 3V NOR CMOS (16M x 8 / 8M x 16) Bottom Boot Block	56-TSOP	13.74	12.38	10.98
TC7VM7T2ATG-65-ND	128M-Bit 3V NOR CMOS (16M x 8 / 8M x 16) Top Boot Block	56-TSOP	13.74	12.38	10.98
TC7VG02A1FT-ND	1-Gbit 3.3V NAND (128M x 8)	48-TSOP	18.00	16.80	15.60

SRAM

Toshiba

Key No.	Description	Pkg.	Price Each★ 1	25	100
TC7001AF-70L-ND	4M-Bit SRAM (512K x 8)	32-SOP	4.13	3.85	3.58
TC7001AFT-70L-ND	4M-Bit SRAM (512K x 8)	32-TSOP	5.50	4.40	3.72
TC7EM208AFGN55L-ND	4M-Bit SRAM (512K x 8) ***NEW!***	32-SOP	4.95	3.96	3.08
TC7EM208ATGN55L-ND	4M-Bit SRAM (512K x 8) ***NEW!***	32-TSOP	4.95	3.96	3.08
TC7EM216ASGV70L-ND	4M-Bit SRAM (256K x 16) ***NEW!***	44-TSOP	8.00	6.40	5.40
TC7EM216ATGN55L-ND	4M-Bit SRAM (256K x 16) ***NEW!***	54-TSOP	8.00	6.40	5.40
TC7V800FT55M-ND	8M-Bit SRAM (512K x 16)	48-TSOP	8.33	7.50	6.65
TC7BM416AFTN55-ND	16M-Bit SRAM (1M x 16)	48-TSOP	14.58	13.13	11.64
TC7EM416AXGN55-ND	16M-Bit SRAM (1M x 16)	48-BGA	16.50	15.40	14.30

EPROMS OTP (One Time Programmable)

Fairchild Semiconductor

Key No.	Description	Pkg.	Price Each★ 1	25	100
LV010T250-ND	1Meg (128Kx8) Low Voltage Eprom 250nS OTP	32-TSOP	9.98	8.40	7.62

Serial EEPROMs

Microchip Technology

Key No.	Description	Pkg.	Price Each★ 1	25	100
AT001-ND	PICSEE™ Introduction Design Kit	—	330.00	—	—
AT002-ND	SEEPROM Designer's Development Kit	—	98.96	—	—
AT24ROM1-KIT-ND	Digi-Key® Low-Density Serial EEPROM Kit	—	17.95	—	—
AT24ROM2-KIT-ND	Digi-Key® Mid-Density Serial EEPROM Kit	—	17.95	—	—
AT24ROM3-KIT-ND	Digi-Key® High-Density Serial EEPROM Kit	—	19.95	—	—
AT24ROM4-KIT-ND	Digi-Key® Combo-Density Serial EEPROM Kit	—	29.95	—	—

2 Wire Interface

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AT24C00/P-ND	16x8 CMOS Serial EEPROM 2.5V	8-Dip	.36	.32	.27
AT24C00/SN-ND	16x8 CMOS Serial EEPROM 2.5V	8-SOIC	.38	.32	.27
AT24C01/P-ND	16x8 CMOS Serial EEPROM 5V	8-Dip	.36	.32	.27
AT24C01-I/P-ND	16x8 CMOS Serial EEPROM, Ind. Temp. 5V	8-Dip	.36	.32	.27
AT24C01-I/SN-ND	16x8 CMOS Serial EEPROM, Ind. Temp. 5V	8-SOIC	.38	.32	.27
AT24C01-I/ST-ND	16x8 CMOS Serial EEPROM, Ind. Temp. 5V	8-TSSOP	.43	.39	.33
AT24C01B/P-ND	1K (128x8) CMOS Serial EEPROM 2.5V	8-Dip	.45	.35	.30
AT24C01B-I/P-ND	1K (128x8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-Dip	.45	.35	.30
AT24C01B/SN-ND	1K (128x8) CMOS Serial EEPROM 2.5V	8-SOIC	.48	.35	.30
AT24C01B-I/SN-ND	1K (128x8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	.48	.35	.30
AT24C01BT-I/OTCT-ND	1K (128x8) CMOS Serial EEPROM, Ind. Temp. 2.5V ***NEW!***	SOT-23-5	.53	.48	.43
AT24C01BT-I/OTTR-ND	1K (128x8) CMOS Serial EEPROM, Ind. Temp. 2.5V ***NEW!***	SOT-23-5		900.00/3,000	
AT24C01BT-I/SNCT-ND	1K (128x8) CMOS Serial EEPROM, Ind. Temp. 2.5V ***NEW!***	8-SOIC	.53	.48	.43
AT24C01BT-I/SNTR-ND	1K (128x8) CMOS Serial EEPROM, Ind. Temp. 2.5V ***NEW!***	8-SOIC		990.00/3,300	
AT24C01C/P-ND	1K (128x8) CMOS Serial EEPROM 5V (fast byte write)	8-Dip	.63	.45	.38
AT24C01C/SN-ND	1K (128x8) CMOS Serial EEPROM 5V (fast byte write)	8-SOIC	.65	.45	.38
AT24C02T-I/MCCT-ND	2K (256x8) CMOS Serial EEPROM, Ind. Temp. 2.2V	8-DFN	.92	.83	.75
AT24C02T-I/MCTR-ND	2K (256x8) CMOS Serial EEPROM, Ind. Temp. 2.2V	8-DFN		1815.00/3,300	
AT24C02B/P-ND	2K (256x8) CMOS Serial EEPROM 2.5V	8-Dip	.50	.42	.35
AT24C02B-I/P-ND	2K (256x8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-Dip	.50	.42	.35
AT24C02B/SN-ND	2K (256x8) CMOS Serial EEPROM 2.5V	8-SOIC	.54	.42	.35
AT24C02B-I/SN-ND	2K (256x8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	.54	.42	.35
AT24C02B/ST-ND	2K (256x8) CMOS Serial EEPROM 2.5V	8-TSSOP	.56	.48	.41
AT24C02B-I/ST-ND	2K (256x8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-TSSOP	.56	.48	.41
AT24C02C/P-ND	2K (256x8) CMOS Serial EEPROM 5V (fast byte write)	8-Dip	.68	.45	.38
AT24C02C/SN-ND	2K (256x8) CMOS Serial EEPROM 5V (fast byte write)	8-SOIC	.70	.45	.38
AT24C04B/P-ND	4K (512x8) CMOS Serial EEPROM 2.5V	8-Dip	.54	.42	.35
AT24C04B-I/P-ND	4K (512x8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-Dip	.54	.42	.35
AT24C04B/SN-ND	4K (512x8) CMOS Serial EEPROM 2.5V	8-SOIC	.56	.42	.35
AT24C04B-I/SN-ND	4K (512x8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	.56	.42	.35
AT24C04B/ST-ND	4K (512x8) CMOS Serial EEPROM 2.5V	8-TSSOP	.59	.48	.41
AT24C04B-I/ST-ND	4K (512x8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-TSSOP	.59	.48	.41
24LC08B/P-ND	8K (1Kx8) CMOS Serial EEPROM 2.5V	8-Dip	.63	.48	.41
24LC08B-I/P-ND	8K (1Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-Dip	.63	.48	.41
24LC08B/SN-ND	8K (1Kx8) CMOS Serial EEPROM 2.5V	8-SOIC	.65	.48	.41
24LC08B-I/SN-ND	8K (1Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	.65	.48	.41
24LC08B/ST-ND	8K (1Kx8) CMOS Serial EEPROM 2.5V	8-TSSOP	.68	.55	.46
24LC08B-I/ST-ND	8K (1Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-TSSOP	.68	.55	.46
24LC16B/P-ND	16K (2Kx8) CMOS Serial EEPROM 2.5V	8-Dip	.63	.51	.44
24LC16B-I/P-ND	16K (2Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-Dip	.63	.51	.44
24LC16B-I/ST-ND	16K (2Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-TSSOP	.70	.58	.49
24LC16B/SN-ND	16K (2Kx8) CMOS Serial EEPROM 2.5V	8-SOIC	.65	.51	.44
24LC16B-E/SN-ND	16K (2Kx8) CMOS Serial EEPROM 2.5V	8-SOIC	.81	.61	.52
24LC16B-I/SN-ND	16K (2Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	.65	.51	.44
24LC32A/P-ND	32K (4Kx8) CMOS Serial EEPROM 2.5V	8-Dip	.86	.68	.57
24LC32A-I/P-ND	32K (4Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-Dip	.86	.68	.57
24LC32A-I/SM-ND	32K (4Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	.90	.68	.57
24LC32A/SN-ND	32K (4Kx8) CMOS Serial EEPROM 2.5V	8-SOIC	.88	.68	.57
24LC32A-I/SN-ND	32K (4Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	.88	.68	.57
24LC32A-I/ST-ND	32K (4Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-TSSOP	.92	.74	.62
24AA65/P-ND	64K (8Kx8) Smart CMOS Serial EEPROM 1.8V	8-Dip	2.76	2.54	2.15
24AA65/SM-ND	64K (8Kx8) Smart CMOS Serial EEPROM 1.8V	8-SOIC	2.59	2.54	2.15
24LC64-I/P-ND	64K (8Kx8) CMOS Serial EEPROM, Ind Temp. 2.5V	8-Dip	.99	.80	.68
24LC64-I/SM-ND	64K (8Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	1.04	.80	.68
24LC64-I/SN-ND	64K (8Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	1.01	.80	.68
24LC64-I/ST-ND	64K (8Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-TSSOP	1.08	.87	.74
24LC65/P-ND	64K (8Kx8) Smart CMOS Serial EEPROM 2.5V	8-Dip	2.70	2.54	2.15
24LC65-I/P-ND	64K (8Kx8) Smart CMOS Serial EEPROM, Ind. Temp 2.5V	8-Dip	2.70	2.54	2.15
24LC65/SM-ND	64K (8Kx8) Smart CMOS Serial EEPROM 2.5V	8-SOIC	2.76	2.54	2.15
24LC65-I/SM-ND	64K (8Kx8) Smart CMOS Serial EEPROM, Ind. Temp 2.5V	8-SOIC	2.76	2.54	2.15
24C65/P-ND	64K (8Kx8) Smart CMOS Serial EEPROM 5V	8-Dip	2.76	2.54	2.15
24C65/SM-ND	64K (8Kx8) Smart CMOS Serial EEPROM 5V	8-SOIC	2.59	2.54	2.15
24LC128-I/P-ND	128K (16Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-Dip	1.55	1.22	1.04
24LC128-I/SN-ND	128K (16Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	1.60	1.22	1.04
24LC128-I/ST-ND	128K (16Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-TSSOP	1.71	1.35	1.15
24LC256-E/P-ND	256K (32Kx8) CMOS Serial EEPROM 2.5V	8-Dip	2.43	1.83	1.55
24LC256-I/P-ND	256K (32Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-Dip	2.25	1.74	1.47
24LC256-I/SM-ND	256K (32Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	2.30	1.74	1.47
24LC256-I/SN-ND	256K (32Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	2.27	1.74	1.47
24LC256-I/ST-ND	256K (32Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-TSSOP	2.48	1.80	1.69
24LC256-I/MF-ND	256K (32Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-DFN	2.75	2.51	2.13
24LC256T-I/SNCT-ND	256K (32Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V ***NEW!***	8-SOIC	2.83	2.53	2.28
24LC256T-I/SNTR-ND	256K (32Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V ***NEW!***	8-SOIC		4851.00/3,300	
24FC515-I/P-ND	512K (64Kx8) CMOS Serial EEPROM 2.5V	8-Dip	4.68	4.56	3.87
24FC515-I/SM-ND	512K (64Kx8) CMOS Serial EEPROM 2.5V	8-SOIC	4.73	4.56	3.87
24LC515-I/P-ND	512K (64x8) CMOS Serial EEPROM 2.5V	8-Dip	4.62	4.50	3.82
24LC515-I/SM-ND	512K (64x8) CMOS Serial EEPROM 2.5V	8-SOIC	4.68	4.50	3.82
24LC21/P-ND	1K Dual Mode DDC™/DDC2™ for Monitors	8-Dip	.65	.61	.52
24LC21/SN-ND	1K Dual Mode DDC™/DDC2™ for Monitors	8-SOIC	.61	.56	.47

SPI Serial EEPROMS

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
25LC040/P-ND	4K (512x8) CMOS Serial EEPROM 2.5V	8-Dip	.79	.77	.65
25LC040/SN-ND	4K (512x8) CMOS Serial EEPROM 2.5V	8-SOIC	.81	.77	.65
25C040/SN-ND	4K (512x8) CMOS Serial EEPROM 5V	8-SOIC	.81	.77	.65
25AA080/P-ND	8K (1Kx8) CMOS Serial EEPROM 1.8V	8-Dip	1.21	1.13	.95
25AA080/SN-ND	8K (1Kx8) CMOS Serial EEPROM 1.8V	8-SOIC	1.27	1.13	.95
25AA080A-I/MS-ND	8K (1Kx8) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-MSOP	1.10	.87	.74
25AA080A-I/P-ND	8K (1Kx8) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-Dip	.99	.84	.71
25AA080A-I/SN-ND	8K (1Kx8) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-SOIC	1.04	.80	.68
25AA080A-I/ST-ND	8K (1Kx8) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-TSSOP	1.10	.87	.74
25AA080B-I/MS-ND	8K (1Kx8) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-MSOP	1.10	.87	.74
25AA080B-I/P-ND	8K (1Kx8) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-Dip	.99	.84	.71
25AA080B-I/SN-ND	8K (1Kx8) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-SOIC	1.04	.80	.68
25AA080B-I/ST-ND	8K (1Kx8) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-TSSOP	1.10	.87	.74
25LC080/P-ND	8K (1Kx8) CMOS Serial EEPROM 2.5V	8-Dip	1.21	1.13	.95
25LC080/SN-ND	8K (1Kx8) CMOS Serial EEPROM 2.5V	8-SOIC	1.27	1.13	.95
25LC080A-I/MS-ND	8K (1Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-MSOP	1.10	.87	.74
25LC080A-I/P-ND	8K (1Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-Dip	.99	.84	.71
25LC080A-I/SN-ND	8K (1Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	1.04	.80	.68
25LC080A-I/ST-ND	8K (1Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-TSSOP	1.10	.87	.74
25C080/P-ND	8K (1Kx8) CMOS Serial EEPROM 5V	8-Dip	1.21	1.13	.95
25C080/SN-ND	8K (1Kx8) CMOS Serial EEPROM 5V	8-SOIC	1.27	1.13	.95
25C080-I/SN-ND	8K (1Kx8) CMOS Serial EEPROM, Ind. Temp. 5V	8-SOIC	1.27	1.13	.95
25AA160A-I/MS-ND	16K (2Kx8) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-MSOP	1.10	.90	.76
25AA160A-I/P-ND	16K (2Kx8) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-Dip	.99	.87	.74
25AA160A-I/SN-ND	16K (2Kx8) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-SOIC	1.04	.84	.71
25AA160A-I/ST-ND	16K (2Kx8) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-TSSOP	1.10	.90	.76
25AA160B-I/MS-ND	16K (2Kx8) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-MSOP	1.10	.90	.76
25AA160B-I/P-ND	16K (2Kx8) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-Dip	.99	.87	.74
25AA160B-I/SN-ND	16K (2Kx8) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-SOIC	1.04	.84	.71
25AA160B-I/ST-ND	16K (2Kx8) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-TSSOP	1.10	.90	.76
25LC160/P-ND	16K (2Kx8) CMOS Serial EEPROM 2.5V	8-Dip	1.15	1.13	.95
25LC160/SN-ND	16K (2Kx8) CMOS Serial EEPROM 2.5V	8-SOIC	1.18	1.13	.95
25LC160A-I/MS-ND	16K (2Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-MSOP	1.10	.90	.76
25LC160A-I/P-ND	16K (2Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-Dip	.99	.87	.74
25LC160A-I/SN-ND	16K (2Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	1.04	.84	.71
25LC160A-I/ST-ND	16K (2Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-TSSOP	1.10	.90	.76
25LC160B-I/MS-ND	16K (2Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-MSOP	1.10	.90	.76
25LC160B-I/P-ND	16K (2Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-Dip	.99	.87	.74
25LC160B-I/SN-ND	16K (2Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	1.04	.84	.71
25LC160B-I/ST-ND	16K (2Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-TSSOP	1.10	.90	.76

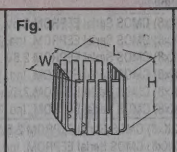
★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

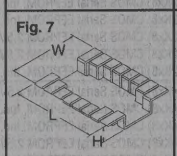
Aavid's Ultrastick is a unique phase-change thermal interface material that surpasses grease in thermal performance and long-term stability. This solid, silicone free, paraffin based thermal compound changes phase at 60°C, with a concurrent volumetric expansion that fills gaps between the mating surfaces. One-cost effective application leaves a thin, film like deposit, providing excellent heat transfer and low interface thermal resistance.

Features:

- Thermal resistance 20% lower than thermal grease, with significant long-term reliability benefits
- Excellent heat transfer properties, consistent at mounting pressures from less than 5 psi to more than 200 psi
- No run-out, migration, dry-out, or flaking that can occur with typical thermal grease
- Non-toxic and inert
- Electrically nonconductive
- Easy to use and dry to the touch after application, reducing labor costs
- Each bar covers approximately 1,000 in²

HS243-ND.....$17.13





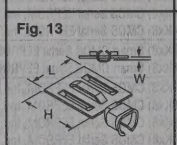


Fig.	Description	Dimensions – Inch (mm) L x W x H	Thermal Resist. °C/W	Digi-Key Part No.	Price Each 1	10	100	Mfg. Part No.
1	TO-3, Compact Heat Sink, 5W, Black	1.88 x 1.40 x .50 (47.75 x 35.56 x 12.70)	11.5	HS148-ND	.80	.72	.56	501303B000
1	TO-3, Compact Heat Sink, 7W, Black	1.88 x 1.40 x .75 (47.75 x 35.56 x 19.05)	8.3	HS149-ND	.88	.79	.62	501403B000
1	TO-3, With Wave-On Mounts, 9W, Black	1.88 x 1.40 x .75 (45.97 x 35.56 x 19.05)	8.3	HS267-ND	2.63	2.37	1.84	501403B001
1	TO-3, Compact Heat Sink, 8.5W, Black	1.88 x 1.40 x 1.00 (47.75 x 35.56 x 25.40)	6.3	HS248-ND	1.23	1.11	.86	501503B000
1	TO-3, With Wave-On Mounts, 9W, Black	1.88 x 1.40 x 1.00 (45.97 x 35.56 x 25.4)	6.3	HS269-ND	2.40	2.16	1.68	501503B001
1	TO-3, Compact Heat Sink, 9.5W, Black	1.88 x 1.40 x 1.25 (47.75 x 35.56 x 31.75)	5.4	HS110-ND	1.23	1.11	.86	501603B000
1	TO-3, Compact, 9W, Gold	1.88 x 1.40 x 1.25 (45.97 x 35.56 x 31.75)	5.4	HS270-ND	1.15	1.04	.81	501603C000
2	TO-3, Expandable Collar Type (Can be used with Fig. 1), Black	1.54 x 1.125 x .87 (39.12 x 28.58 x 22.10)	22.0	HS236-ND	.90	.81	.63	579103B000
3	TO-3, 25W, Black	1.81 x 1.81 x 1.25 (45.97 x 45.97 x 31.75)	5.4	HS103-1.25-ND	4.73	4.26	3.31	568303B000
3	TO-3, 17W, Black	1.81 x 1.81 x .50 (45.97 x 45.97 x 12.70)	12.5	HS103-0.5-ND	4.71	4.25	3.30	568003B000
3	TO-3, Free/Forced Air No Holes,12W, Black	1.83 x 1.83 x .50 (46.48 x 46.48 x 12.7)	5.4	HS291-ND	4.78	4.30	3.35	568000B000
3	TO-3, Free or Forced Air Cooling, 12W, Black	1.83 x 1.83 x .75 (46.48 x 46.48 x 19.05)	5.4	HS293-ND	4.73	4.26	3.31	568103B000
3	TO-3, Free or Forced Air Cooling, 12W, Black	1.81 x 1.81 x 1.00 (45.97 x 45.97 x 25.4)	5.4	HS294-ND	4.73	4.26	3.31	568203B000
4	TO-3, Power Cooler, 50W, Black	3.00 x 4.125 x 1.00 (76.20 x 104.78 x 25.40)	5.4	HS117-ND	7.00	6.30	4.90	198540B000
5	TO-3, Space Saver, 6W, Black	1.63 x 1.29 x .75 (41.40 x 32.77 x 19.05)	5.4	HS140-ND	1.50	1.35	1.05	502203B000
5	TO-3, Space Saver, 8W, Black	1.63 x 1.29 x 1.00 (41.40 x 32.77 x 25.40)	5.4	HS141-ND	2.05	1.85	1.44	502303B000
5	TO-3, Space Saver, 12W, Black	1.63 x 1.29 x 1.250 (41.40 x 32.77 x 31.75)	5.4	HS142-ND	1.88	1.69	1.32	502403B000
6	TO-3, Heatsink, Fold-Back Fins, No Holes, 10W, Black	1.83 x 1.83 x 1.00 (16.26 x 16.26 x 25.4)	5.4	HS296-ND	2.83	2.55	1.98	569000B000
6	TO-3, Fold-Back Fins, 20W, Black	1.83 x 1.83 x 1.31 (46.48 x 46.48 x 33.27)	5.4	HS110-3-ND	1.38	1.24	.97	569003B000
6	TO-3, Fold-Back Fins, 10W, Gold	1.83 x 1.83 x 1.31 (46.48 x 46.48 x 33.27)	5.4	HS298-ND	1.35	1.22	.95	569003C000
7	TO-3, Universal Hole Pattern, Low Profile, Black	2.00 x 1.75 x .375 (50.80 x 44.45 x 9.53)	7.0	HS228-ND	.95	.86	.67	506007B000
8	TO-3, Slanted Fin, 10W, Black	1.81 x 1.81 x .50 (45.97 x 45.97 x 12.7)	3.5	HS260-ND	2.05	1.85	1.44	500103B000
8	TO-3, Slanted Fin, 12W, Black	1.81 x 1.81 x 1.25 (45.97 x 45.97 x 31.75)	2.5	HS264-ND	1.98	1.78	1.39	500403B000
8	TO-3, Slanted Fin, 14W, Black	2.5 x 2.5 x .90 (63.50 x 63.50 x 22.86)	4.9	HS265-ND	2.48	2.23	1.74	500503B000
9	TO-5, High Performance, 2W, Black	.75 dia x .25 (19.05 dia x 6.35)	56.0	HS101-ND	1.05	.95	.74	323005B000
9	TO-5, Press-On, 1W, Black	.5 dia x .25 (127 dia x 6.35)	56.0	HS253-ND	1.60	1.44	1.12	320205B000
9	TO-5, Press-On, High Performance, 1W, Black	.50 dia x .375 (12.70 dia x 9.52)	30.0	HS259-ND	1.20	1.08	.84	326005B000
10	TO-5, Snap-On Cooler, 1.5W, Black	.83 x .395 x .50 (21.08 x 10.03 x 12.70)	38.0	HS217-ND	.39	.28	.20	578205B000
10	TO-5, Snap-On Cooler, 2W, Black	.83 x .395 x .75 (21.08 x 10.03 x 19.05)	35.0	HS218-ND	.46	.33	.23	578305B000
11	TO-5, Dual Fin Press-Fit Heat Sink, Black	.75 dia x .40 (19.05 dia x 10.16)	56.0	HS242-ND	2.38	2.14	1.67	322505B000
11	TO-5, Press-On, 1.25W, Black	.75 dia x .25 (19.05 dia x 6.35)	40.0	HS257-ND	2.40	2.16	1.68	322605B000
11	TO-5, Press-On, 1.25W, Gold	.75 dia x .25 (19.05 dia x 6.35)	40.0	HS258-ND	2.35	2.12	1.65	322605C000
11	TO-92 and TO-18, Press Fit, 1W, Black	.50 dia x .235 (12.70 dia x 5.97)	100.0	HS100-ND	1.23	1.11	.86	322400B000
12	TO-5, 2 Pc Part for Max Dissipation, 1W, Gold	.625 dia x .271 (15.88 dia x 6.88)	22.0	HS254-ND	6.98	6.28	4.89	321127C000
12	TO-39, 2 Pc Part for Max Dissipation, 2W, Black	.75 dia x .290 (19.05 dia x 7.37)	20.0	HS255-ND	10.88	9.79	7.62	321527B000
13	TO-92, Press Fit Heat Sink, For Standard or Modified Pkg, Black	.60 x .05 x .50 (15.24 x 1.27 x 12.70)	64.0	HS251-ND	.42	.30	.21	575200B000
15	TO-126, Vertical Mount Clip-On Cooler, Black	.775 x .32 x .52 (19.69 x 8.13 x 13.21)	26.0	HS216-ND	.42	.30	.21	577500B000
16	TO-202, Compact Clip-On Heat Sink, Black	.58 x .80 x .25 (14.73 x 20.32 x 6.35)	28.0	HS247-ND	.53	.38	.27	574004B000
17	TO-202, Low Profile Heat Sink, Black	.52 x .375 x .75 (13.21 x 9.53 x 19.05)	27.2	HS214-ND	.42	.30	.21	577304B000
17	TO-202, Low Profile Heat Sink, Black	.52 x .50 x .75 (13.21 x 12.70 x 19.05)	24.0	HS215-ND	.42	.30	.21	577404B000
19	TO-218, Power Cooler, With Pins, 10W, Black	1.38 x .50 x 2.00 (35.05 x 12.70 x 50.80)	8.3	HS185-ND	1.23	1.11	.86	513201B025
19	TO-218, Power Cooler, With Pins, 20W, Black	1.65 x 1.00 x 1.50 (41.91 x 25.40 x 38.10)	3.7	HS187-ND	1.58	1.42	1.11	529801B025
20	TO-218, Quick Attach, With Pins, 12W, Black	1.95 x .50 x 1.97 (49.53 x 12.70 x 50.04)	6.5	HS134-ND	1.28	1.15	.90	592201B034
19	TO-218, Vertical Power, 10W, With Pins, Black	1.65 x 1.0 x 2.5 (41.91 x 25.4 x 63.5)	2.5	HS277-ND	1.75	1.58	1.23	530001B025
21	TO-218, Twisted High Rise Fins, With Kool Clip, Black	1.75 x .50 x 1.75 (44.45 x 12.70 x 44.45)	6.3	HS109-ND	1.75	1.58	1.23	530101B001
18	TO-218, Slide-On, Vertical PC Mount, With Standard Tabs, Black	1.00 x .50 x 1.22 (25.40 x 12.70 x 30.99)	11.5	HS234-ND	1.43	1.29	1.00	566010B034
3	TO-220, Dual Mount Power Cooler, Black	1.81 x 1.81 x 1.25 (45.97 x 45.97 x 31.75)	5.5	HS135-ND	5.70	5.13	3.99	568322B000
6	TO-220, Dual Mount Power Cooler, 20W, Black	1.83 x 1.83 x 1.31 (46.48 x 46.48 x 33.27)	5.5	HS110-220-ND	1.70	1.53	1.19	569022B000
14	TO-202, Clip-On Cooler, 5W, Black	.90 x 1.02 x .39 (22.86 x 25.91 x 9.91)	16.8	HS119-ND	.56	.40	.28	574204B000
17	TO-220, Compact Heat Sink, Black	.52 x .25 x .75 (13.21 x 6.35 x 19.05)	32.0	HS105-ND	.39	.28	.20	577002B000
17	TO-220, Compact Heat Sink, Black	.52 x .375 x .75 (13.21 x 9.53 x 19.05)	25.9	HS106-ND	.32	.23	.16	577102B000
17	TO-220, Compact Heat Sink, Black	.52 x .50 x .75 (13.21 x 12.70 x 19.05)	24.4	HS107-ND	.35	.25	.18	577202B000
17	TO-220, Low Profile, 2.5W, Gold	.75 x .75 x .375 (19.05 x 19.05 x 9.52)	24.0	HS272-ND	.33	.30	.23	507302C000
17	TO-220, Low Profile, Low Cost Cooler, 2.5W, Black	.75 x .75 x .375 (19.05 x 19.05 x 9.53)	24.0	HS115-ND	.39	.28	.20	507302B000
17	TO-220, 2 Hole Pattern Comp. Sink, Black	1.00 x .50 x 1.18 (25.40 x 12.70 x 29.97)	16.7	HS230-ND	.51	.40	.30	530613B000
17	TO-220, Horizontal/Vertical Mount, 4.5W, Black	1 x 1.18 x .50 (25.4 x 29.97 x 12.7)	16.7	HS278-ND	.43	.39	.30	530614B000
17	TO-220, Horizontal/Vertical Mount, 3.7W, Gold	1 x .71 x .5 (25.4 x 18.03 x 12.7)	20.3	HS279-ND	.30	.27	.21	530714C000
17	TO-220, Compact Heat Sink, With Tabs, Black	.52 x .25 x .75 (13.21 x 6.35 x 19.05)	32.0	HS212-ND	.60	.43	.30	577002B046
17	TO-220, Compact Heat Sink, With Tabs, Black	.52 x .375 x .75 (13.21 x 9.53 x 19.05)	25.9	HS213-ND	.60	.43	.30	577102B046
17	TO-220, Low Cost Vertical Mount, With Front Tabs, Black	1.00 x .50 x 1.18 (25.40 x 12.70 x 29.97)	13.6	HS206-ND*	2.58	2.32	1.81	575002T000
17	TO-220, Low Cost Vertical Mount, With Center Tabs, Black	1.00 x .50 x 1.18 (25.40 x 12.70 x 29.97)	13.6	HS186-ND*	2.75	2.48	1.93	523002T000
17	TO-220, Vertical Mount With Black Tabs	1.00 x .50 x 1.18 (25.40 x 12.70 x 29.97)	13.0	HS194-ND	.48	.38	.28	563002B000
17	TO-220, Vertical Mount With Black Tabs	1.00 x .50 x .95 (25.40 x 12.70 x 24.13)	16.6	HS207-ND	.60	.47	.35	576602B000
17	TO-220, Vertical Mount With Pre-Tinned Tabs, Black	1.00 x .50 x .95 (25.40 x 12.70 x 24.13)	16.6	HS208-ND*	2.55	2.30	1.79	576602T000
19	TO-220, Power Cooler, 9.0W, Screw Mount, Gold	1.5 x 1.375 x 1.00 (38.1 x 34.93 x 25.4)	13.4	HS282-ND	1.20	1.08	.84	531002C000
19	TO-220, Power Cooler, With Pins, Heavy Duty, Black	1.38 x .50 x 1.00 (35.05 x 12.70 x 25.40)	13.4	HS190-ND	1.20	1.08	.84	531002B025
19	TO-220, Power Cooler, 9.0W, Black	1.38 x .5 x 1.50 (35.05 x 12.7 x 38.10)	10.4	HS284-ND	1.18	1.06	.83	531102B000
19	TO-220, Power Cooler, With Pins, Heavy Duty, Black	1.38 x .50 x 1.50 (35.05 x 12.70 x 38.10)	10.4	HS191-ND	1.28	1.15	.90	531102B025
19	TO-220, Power Cooler, With Pins, 2-Sided Mount, Black	1.38 x .50 x 1.50 (35.05 x 12.70 x 38.10)	11.0	HS184-ND	1.08	.97	.76	513102B025
19	TO-220, Power Cooler, With Pins, 2-Sided Mount, Black	1.65 x 1.00 x 1.50 (41.91 x 25.40 x 38.10)	3.7	HS188-ND	1.55	1.40	1.09	529802B025

* Dielectric Coating Unless otherwise noted, all heat sinks are black anodized aluminum.

(Cont

Fig. 19

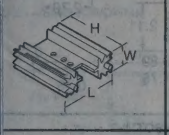


Fig. 20

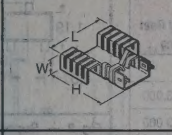


Fig. 21

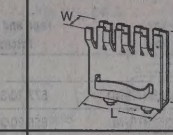


Fig. 22

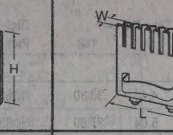


Fig. 23

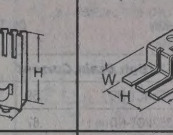


Fig. 24

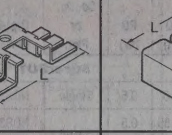


Fig. 25

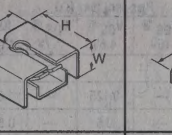


Fig. 26

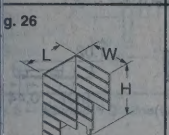


Fig. 27

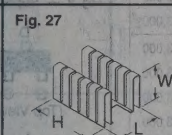


Fig. 28

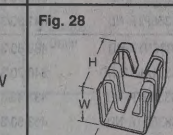


Fig. 29

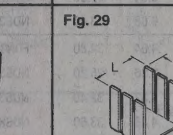


Fig. 30

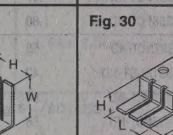


Fig. 31

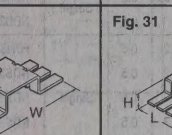


Fig. 32

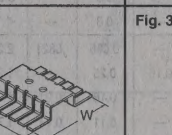


Fig. 33

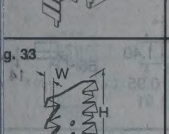


Fig. 34

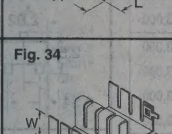


Fig. 35

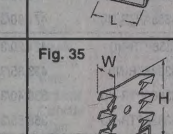
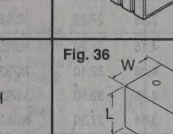


Fig. 36



Shown with optional PC Pins

Fig. 37

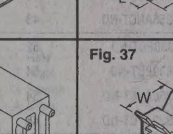


Fig. 38

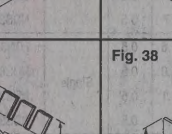
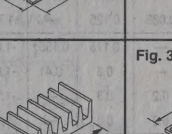


Fig. 39



Description	Dimensions – Inch (mm) L x W x H	Thermal Resist. °C/W	Digi-Key Part No.	Price Each 1	10	100	Mfg. Part No.
TO-220, Power Cooler, Black	1.38 x .50 x 1.00 (35.05 x 12.70 x 25.40)	13.4	HS231-ND	1.10	.99	.77	531002B00000
TO-220, Power Cooler, Screw Mount, Gold	1.38 x .50 x 1.50 (35.05 x 12.70 x 38.10)	10.4	HS131-ND	1.40	1.26	.98	531102C00000
TO-220, Power Cooler, With Pins, Gold	1.38 x .50 x 1.50 (35.05 x 12.70 x 38.10)	10.4	HS131-P-ND	1.68	1.51	1.18	531102C02500
TO-220, Power Cooler, Screw Mount, Gold	1.38 x .50 x 2.00 (35.05 x 12.70 x 50.80)	8.3	HS132-ND	1.43	1.29	1.00	531202C00000
TO-220, Power Cooler, With Pins, Gold	1.38 x .50 x 2.00 (35.05 x 12.70 x 50.80)	8.3	HS132-P-ND	1.70	1.53	1.19	531202C02500
TO-220, Power Cooler, 9.0W, Black	1.38 x .50 x 2.00 (35.05 x 12.7 x 50.8)	8.3	HS287-ND	1.33	1.20	.93	531202B00000
TO-220, Power Cooler, With Pins, Black	1.38 x .50 x 2.00 (35.05 x 12.70 x 50.80)	8.3	HS241-ND	1.38	1.24	.97	531202B02500
TO-220, Vertical Power, 10W, Screw Mount, Black	1.65 x 1.0 x 1.5 (41.91 x 25.4 x 38.1)	2.5	HS276-ND	1.38	1.24	.97	529802B00000
TO-220, Power Cooler, With Pins, Black	1.65 x 1.00 x 2.00 (41.91 x 25.40 x 50.80)	3.4	HS229-ND	1.83	1.65	1.28	529902B02500
TO-220, Power Cooler, With Pins, 9.0W, Black	1.38 x .50 x 2.5 (35.05 x 12.7 x 63.5)	8.0	HS290-ND	1.43	1.29	1.00	531302B02500
TO-220, Power Cooler, Screw Mount, Gold	1.38 x .50 x 2.50 (35.05 x 12.70 x 63.50)	8.0	HS133-ND	1.70	1.53	1.19	531302C00000
TO-220, Power Cooler, With Pins, Gold	1.38 x .50 x 2.50 (35.05 x 12.70 x 63.50)	8.0	HS133-P-ND	1.60	1.44	1.12	531302C02500
TO-220, Power Cooler, With Pins, Black	1.65 x 1.00 x 2.50 (41.91 x 25.40 x 63.50)	3.8	HS239-ND	1.75	1.58	1.23	530002B02500
TO-220, Staggered High Rise Fins, With Kool Clip, Black	1.75 x .50 x 1.75 (44.45 x 12.70 x 44.45)	16.8	HS151-ND	1.75	1.58	1.23	530402B00150
TO-220, Twisted High Rise Fins, With Kool Clip, Black	1.75 x .50 x 1.75 (44.45 x 12.70 x 44.45)	6.3	HS152-ND	1.75	1.58	1.23	530102B00150
TO-220, Dual Mount, With Kool Clip, Black	1.75 x .50 x 1.75 (44.45 x 12.70 x 44.45)	4.4	HS249-ND	1.95	1.76	1.37	530162B00162
TO-220, 2W Extended Cap For HS112 and HS114, Black	1.75 x .70 x .50 (17.78 x 44.45 x 12.70)	15.6	HS113-ND	.42	.30	.21	507102B00000
TO-220, Vertical Mount Clip-On Cooler, With 1 Mount Hole, Black	.75 x .86 x .395 (19.05 x 21.84 x 10.03)	23.2	HS111-ND	.39	.28	.20	574102B00000
TO-220, Vertical Mount Clip-On Cooler, Black	.86 x .395 x .75 (21.84 x 10.03 x 19.05)	21.2	HS198-ND	.39	.28	.20	574502B00000
TO-220, Horizontal Mount Clip-On, PC Mount, With Std. Tabs, Blk	.86 x .395 x .75 (21.84 x 10.03 x 19.05)	23.2	HS197-ND	.84	.66	.49	574402B03200
TO-220, Vertical Mount Clip-On, PC Mount, w/Long Tabs, Black	.86 x .395 x .75 (21.84 x 10.03 x 19.05)	21.2	HS200-ND	.53	.48	.37	574502B03300
TO-220, Vertical Mount Clip-On, PC Mount, w/Long Tabs, Black	.86 x .395 x 1.375 (21.84 x 10.03 x 34.93)	16.0	HS204-ND	.73	.66	.51	574902B03300
TO-220, Vertical Mount Clip-On, PC Mount, w/Stepped Tabs, Black	.86 x .395 x .75 (21.84 x 10.03 x 19.05)	21.2	HS201-ND	.57	.45	.34	574502B03700
TO-220, Vertical Mount Clip-On, PC Mount, w/Stepped Tabs, Black	.86 x .395 x .69 (21.84 x 10.03 x 17.53)	21.6	HS203-ND	.68	.61	.48	574602B03700
TO-220, Vertical Mount Clip-On, PC Mount, w/Standard Tabs, Black	.86 x .395 x 1.375 (21.84 x 10.03 x 34.93)	16.0	HS205-ND	1.00	.90	.70	574902B04300
TO-220, Snap Down, 5W, Black	.75 x 1.12 x .435 (19.05 x 28.45 x 11.05)	16.9	HS116-ND	.51	.40	.30	575102B00000
TO-220, Snap-Down With Built-In Clip, For Standard TO-220s, Black	.975 x .44 x .75 (24.77 x 11.18 x 19.05)	16.8	HS220-ND	.46	.33	.23	579302B00000
TO-220, Snap-Down With Built-In Clip, For Tapered TO-220s, Black	.975 x .44 x .75 (24.77 x 11.18 x 19.05)	16.8	HS221-ND	.53	.38	.27	579402B00000
TO-220, High Performance PC Mount, With Tabs, Black	1.00 x 1.00 x 1.675 (25.40 x 25.40 x 42.55)	10.0	HS222-ND	1.00	.90	.70	590102B03600
TO-220, SlimLine High Performance, Horizontal Mount, Black	1.00 x .787 x 1.45 (25.40 x 19.99 x 36.83)	12.4	HS193-ND	.65	.59	.46	551002B00000
TO-220, Slide-On, Horizontal PC Mount, With Tabs, Black	.50 x .50 x .75 (12.70 x 12.70 x 19.05)	18.8	HS150-ND	.55	.50	.39	576802B03100
TO-220, Slide-On, 5W, Black	.50 x .50 x .75 (12.70 x 12.70 x 19.05)	18.8	HS121-ND	.53	.38	.27	576802B00000
TO-220, Slide-On, 5W, Black	.50 x .50 x .60 (12.70 x 12.70 x 15.24)	26.8	HS333-ND	.68	.49	.34	591202B00000
TO-220, Slide-On, Vertical PC Mount, With Wide Tabs, Black	.50 x .50 x .75 (12.70 x 12.70 x 19.05)	18.8	HS209-ND	.58	.52	.41	576802B03700
TO-220, Slide-On, Vertical PC Mount, With Long Tabs, Black	.50 x .50 x .75 (12.70 x 12.70 x 19.05)	18.8	HS210-ND	.60	.47	.35	576802B03900
TO-220, Slide-On, Vertical PC Mount, With Standard Tabs, Black	.50 x .50 x .75 (12.70 x 12.70 x 19.05)	18.8	HS211-ND	.58	.52	.41	576802B04100
TO-220, Slide-On, Vertical PC Mount, With Surelock Tabs, Black	.57 x .50 x .75 (14.48 x 12.70 x 19.05)	26.8	HS223-ND	.73	.66	.51	591302B02800
TO-220, Slide-On, Vertical PC Mount, With Standard Tabs, Black	.75 x .50 x .50 (19.05 x 12.70 x 12.70)	18.8	HS122-ND	.53	.48	.37	576802B04000
TO-220, Slide-On, Vertical PC Mount, With SureLock Tabs, Black	.95 x 1.00 x 1.22 (24.13 x 25.40 x 30.99)	11.5	HS240-ND	1.48	1.33	1.04	566010B02800
TO-220, Economy Power Cooler, Lightweight, Black	1.00 x .50 x .71 (25.40 x 12.70 x 18.03)	20.3	HS189-ND	.42	.30	.21	530714B00000
TO-220, Power Cooler, 10W, Black	.78 x .85 x 1.45 (19.81 x 21.59 x 36.83)	6.4	HS104-2-ND	.57	.45	.34	504222B00000
TO-220, Power Cooler, 6W, Black	.70 x .70 x .85 (17.78 x 17.78 x 21.59)	15.6	HS104-1-ND	.46	.33	.23	504102B00000
TO-220, Basic Manual Attachment, Low Profile, Black	.70 x 1.75 x .380 (17.78 x 44.45 x 9.65)	15.6	HS112-ND	.39	.28	.20	507002B00000
TO-220, Dual Basic Manual Attachment, Horizontal Mount, Black	1.45 x 1.75 x .375 (36.83 x 44.45 x 9.53)	9.6	HS114-ND	.70	.50	.35	507222B00000
TO-220, Twisted Fin, Vertical PC Mount, Black	1.00 x .50 x 1.18 (25.40 x 12.70 x 29.97)	13.4	HS120-ND	.78	.70	.55	593002B03400
TO-220, Twisted Fin, With Surelock Tabs and Kool Clip, Black	1.00 x .50 x 1.18 (25.40 x 12.70 x 29.97)	13.0	HS232-ND	1.28	1.15	.90	534202B02853
TO-220, Twisted Fin, Vertical, With Tabs and Kool Clip, Black	1.00 x .50 x 1.18 (25.40 x 12.70 x 29.97)	13.0	HS233-ND	1.50	1.35	1.05	534202B33453
TO-220, Spacesaver, Vertical Mount, With Tabs, Black	1.38 x .50 x 2.00 (35.05 x 12.70 x 50.80)	10.0	HS225-ND	.90	.81	.63	593202B03500
TO-220, Spacesaver, Vertical Mount, With Kool Clip/Tabs, Black	1.38 x .48 x 2.00 (35.05 x 12.19 x 50.80)	10.4	HS192-ND	.95	.86	.67	534302B03553
TO-220, Dual Basic Manual Attachment, Vertical Mount, Black	1.48 x .50 x 1.03 (37.59 x 12.70 x 26.16)	13.2	HS219-ND	.95	.86	.67	578622B03200
TO-220, Spacesaver Vertical Mount, With Tabs, Black	.875 x .25 x 1.25 (22.23 x 6.35 x 31.75)	22.0	HS224-ND	.73	.66	.51	592502B03400
TO-220, Spacesaver Vert. Mnt, With Kool Clip-SureLock Tabs, Blk	1.38 x .50 x 2.00 (35.05 x 12.70 x 50.80)	8.8	HS238-ND	1.30	1.17	.91	594302B02853
TO-220, Vertical Mount, 1W, Black	.64 x .64 x 1.00 (16.26 x 16.26 x 25.4)	17.4	HS300-ND	1.35	1.22	.95	581002B00000
TO-220, Vertical Mount, 2.5W, With Pins, Black	.64 x .64 x 1.00 (16.26 x 16.26 x 25.4)	17.4	HS301-ND	1.38	1.24	.97	581002B02500
TO-220, Vertical Mount, 2.5W, With Pins, Gold	.64 x .64 x 1.00 (16.26 x 16.26 x 25.4)	17.4	HS302-ND	1.90	1.71	1.33	581002C02500
TO-220, Vertical Mount, 2.5W, Black	.64 x .64 x 1.5 (16.26 x 16.26 x 50.8)	16.8	HS303-ND	1.33	1.20	.93	581102B00000
TO-220, Vertical Mount, 2.5W, With Pins, Black	.64 x .64 x 1.5 (16.26 x 16.26 x 50.8)	16.8	HS304-ND	1.43	1.29	1.00	581102B02500
TO-220, Vertical Mount, 2.5W, With Pins, Black	.64 x .64 x 2.00 (16.26 x 16.26 x 50.8)	12.8	HS305-ND	1.93	1.74	1.35	581202B02500
Dip Cooler, 14 or 16 Pin IC, Slide-On, Black	.887 x .60 x .41 (22.53 x 15.24 x 10.41)	38.0	HS179-ND	.45	.36	.27	580200B00000
Dip Cooler, 24 Pin IC, Slide-On, Black	1.46 x 1.008 x .58 (37.08 x 25.60 x 14.73)	20.0	HS182-ND	.70	.63	.49	580500B00000
Dip Cooler, 14-16 Pin, Glue-On, Black	.73 x .25 x .19 (18.54 x 6.35 x 4.83)	62.5	HS227-ND	.65	.59	.46	501200B00000
Dip Cooler, 24 Pin IC, Glue-On, Black	1.25 x .53 x .19 (31.75 x 13.47 x 4.83)	44.0	HS273-ND	.73	.66	.51	508500B00000
Dip Cooler, 40 Pin IC, Glue-On, Black	2.0 x .53 x .19 (50.8 x 13.47 x 4.83)	28.0	HS274-ND	1.38	1.24	.97	508700B00000

ectric Coating Unless otherwise noted, all heat sinks are black anodized aluminum.

Description	Dimensions – Inch (mm) L x W x H	Digi-Key Part No.	Cut Tape Price Each 1	10	Tape & Reel Pricing† 250	500	Mfg. Part No.
SMT D2 Pak Heat Sink, Autoinsertable, Pretinned	1.03x.50x.40 (26.16x12.70x10.16)	HS123CT-ND	.65	.59	107.25	195.00	573300D00010
SMT D3 Pak Heat Sink, Autoinsertable, Pretinned	1.22x.50x.40 (30.99x12.70x10.16)	HS124CT-ND	.68	.61	111.38	202.50	573400D00010

Tape and Reel Part Number, change the CT to TR.

FAIRCHILD SEMICONDUCTOR

Surface Mount Power MOSFETS

Fig.	Type	V_{DS} (V)	R_{DS} (on) Max (Ω) V_{GS} @ 10V	V_{GS} @ 4.5V	V_{GS} @ 2.7V	I_D (A)	P_D (W)	Config. or Pkg.	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Pricing
SuperSOT™-3 High Drain Current														
1	N-Chan.	30	—	0.125	—	1.6	0.5	Single	NDS355NCT-ND	.59	4.44	33.30	NDS355NTR-ND	577.20/3,000
1	P-Chan.*	-20	—	0.5	—	-0.85	0.5	Single	NDS352PCT-ND	.67	5.04	37.80	NDS352PTR-ND	655.20/3,000
		-20	—	0.3	—	-1.1	0.5		NDS356PCT-ND	.80	6.68	53.40	NDS356PTR-ND	1041.30/3,000
2	N-Chan.	30	—	0.065	.082†	2.2	0.5	Single	FDN337NCT-ND	.58	4.64	34.80	FDN337NTR-ND	469.80/3,000
		30	0.16	0.25	—	1.2	0.5		NDS351ANCT-ND	.42	3.36	25.20	NDS351ANTR-ND	340.20/3,000
		20	—	0.16	0.21	1.3	0.5		NDS331NCT-ND	.54	4.32	32.40	NDS331NTR-ND	437.40/3,000
		20	—	0.11	0.14	1.7	0.5		NDS335NCT-ND	.56	4.48	33.60	NDS335NTR-ND	453.60/3,000
		30	0.085	0.125	—	1.7	0.5		NDS355ANCT-ND	.48	3.63	27.23	NDS355ANTR-ND	471.90/3,000
2	P-Chan.*	-20	—	0.115	0.155†	-1.6	0.5	Single	FDN338PCT-ND	.52	4.16	31.20	FDN338PTR-ND	421.20/3,000
		-20	—	0.3	0.41	-1.0	0.5		NDS332PCT-ND	.54	4.28	32.10	NDS332PTR-ND	433.35/3,000
		-30	0.2	0.3	—	-1.1	0.5		NDS356APCT-ND	.54	4.08	30.60	NDS356APTR-ND	530.40/3,000
		-30	0.3	0.5	—	-0.9	0.5		NDS352APCT-ND	.46	3.64	27.30	NDS352APTR-ND	368.55/3,000
SOT-23 (TO236AB)														
1	N-Chan.	25	—	0.45	0.6	0.68	0.35	Single	FDV303NCT-ND	.47	3.78	25.92	FDV303NTR-ND	367.20/3,000
		25	—	4.0	5.0	0.22	0.35		FDV301NCT-ND	.39	3.06	21.56	FDV301NTR-ND	264.60/3,000
		50	3.5	6.0	—	0.22	0.36		BSS138CT-ND	.36	2.70	18.72	BSS138TR-ND	216.00/3,000
		60	7.5	—	—	0.115	0.2		2N7002NCT-ND	.25	1.88	13.00	2N7002NTR-ND	150.00/3,000
		60	2	—	—	0.28	0.3		NDS7002ACT-ND	.39	3.15	21.60	NDS7002ATR-ND	306.00/3,000
		100	6	—	—	0.17	0.36		BSS123NCT-ND	.36	2.70	18.72	BSS123NTR-ND	216.00/3,000
1	P-Chan.*	-25	—	1.1	1.5	-0.46	0.35	Single	FDV304PCT-ND	.52	4.16	31.20	FDV304PTR-ND	421.20/3,000
		-25	—	10.0	13.0	-0.12	0.35		FDV302PCT-ND	.34	2.69	18.92	FDV302PTR-ND	232.20/3,000
		-50	10	—	—	-0.13	0.3		BSS84CT-ND	.34	2.55	17.68	BSS84TR-ND	204.00/3,000
		-60	5	7.5	—	-0.18	0.36		NDS0605CT-ND	.40	3.20	21.96	NDS0605TR-ND	311.10/3,000
		-60	10	—	—	-0.12	0.36		NDS0610CT-ND	.38	2.94	20.68	NDS0610TR-ND	253.80/3,000
SuperSOT™-6 (SOT-6)														
3	N-Chan.	30	0.06	0.09	—	3.2	1.6	Single	NDC651NCT-ND	.78	5.88	44.10	NDC651NTR-ND	764.40/3,000
4		50	2	—	—	0.35	0.5	Dual	NDC7002NCT-ND	.57	4.26	31.95	NDC7002NTR-ND	553.80/3,000
3	P-Chan.*	-30	0.11	0.18	—	-2.4	1.6	Single	NDC652PCT-ND	.81	6.06	45.45	NDC652PTR-ND	787.80/3,000
4		-50	5	—	—	-0.22	0.5	Dual	NDC7003PCT-ND	.59	4.44	33.30	NDC7003PTR-ND	577.20/3,000
4	N-Chan.	50	2	—	—	0.35	0.5	Compl.	NDC7001CCT-ND	.67	5.01	37.58	NDC7001CTR-ND	651.30/3,000
	P-Chan.*	-50	5	—	—	-0.22	0.5							
Power MOSFET (SO-8)														
6		30	0.015	0.02	—	10.0	2.5	Single	NDS8410CT-ND	1.35	11.25	90.00	—	—
7		30	0.037	0.055	—	5.3	2.0	Dual	NDS8936CT-ND	1.27	10.60	84.80	NDS8936TR-ND	1378.00/2,500
5		30	0.028	0.042	—	7.3	2.5	Single	NDS9410ACT-ND	.85	6.36	47.70	NDS9410ATR-ND	689.00/2,500
7		30	0.05	0.08	—	5.0	2.0	Dual	NDS9936CT-ND	1.01	8.40	67.20	NDS9936TR-ND	1092.00/2,500
7	N-Chan.	30	0.08	0.11	—	3.7	2.0	Dual	NDS9956ACT-ND	.90	7.48	59.80	NDS9956ATR-ND	971.75/2,500
7		50	0.3	0.5	—	2.0	2.0	Dual	NDS9959CT-ND	.83	6.88	55.00	NDS9959TR-ND	893.75/2,500
6		30	0.008	0.010	—	13.0	2.5	Single	FDS6670ACT-ND	1.53	12.20	91.50	FDS6670ATR-ND	1952.00/2,500
6		30	0.0095	0.013	—	12.5	2.5	Single	FDS6680ACT-ND	1.24	10.35	82.80	FDS6680ATR-ND	1345.50/2,500
7		50	0.130	—	0.200	3.0	2.0	Dual	SI9955DYCT-ND	.99	7.41	55.58	SI9955DYTR-ND	802.75/2,500
7		60	0.1	0.2	—	3.5	2.0	Dual	NDS9945CT-ND	1.26	10.50	84.00	NDS9945TR-ND	1365.00/2,500
6		-20	—	0.035	0.05	-6.7	2.5	Single	NDS8434CT-ND	1.35	11.25	90.00	NDS8434TR-ND	1462.50/2,500
5		-20	0.1	0.16	—	-4.3	2.5	Single	NDS9405CT-ND	1.62	12.98	97.35	NDS9405TR-ND	2076.80/2,500
6		-30	0.06	0.115	—	-5.3	2.5	Single	NDS9430CT-ND	1.12	9.35	74.80	NDS9430TR-ND	1215.50/2,500
7		-20	0.1	0.19	—	-3.5	2.0	Dual	NDS9947CT-ND	1.38	11.53	92.20	NDS9947TR-ND	1498.25/2,500
7	P-Chan.*	-30	0.085	0.1	—	-4.0	2.0	Dual	NDS8947CT-ND	1.50	11.98	89.85	NDS8947TR-ND	1916.80/2,500
5		-30	0.13	0.2	—	-3.6	2.5	Single	NDS9400ACT-ND	1.17	9.73	77.80	NDS9400ATR-ND	1264.25/2,500
6		-30	0.05	0.09	—	-5.3	2.5	Single	NDS9435ACT-ND	.90	6.72	50.40	NDS9435ATR-ND	728.00/2,500
7		-30	0.13	0.2	—	-2.9	2.0	Dual	NDS9953ACT-ND	1.16	9.70	77.60	NDS9953ATR-ND	1261.00/2,500
6		-60	0.15	0.24	—	-3.3	2.5	Single	NDS9407CT-ND	1.01	8.43	67.40	NDS9407TR-ND	1095.25/2,500
7		-60	0.25	0.5	—	-2.3	2.0	Dual	NDS9948CT-ND	1.16	9.70	77.60	NDS9948TR-ND	1261.00/2,500
PowerSOT (SOT-223)														
8	N-Chan.	30	0.05	0.08	—	5.5	3.0	Single	NDT451NCT-ND	1.09	9.08	72.60	—	—
		30	0.037	0.055	—	7.1	3.0		NDT451ANCT-ND	.81	6.78	54.20	NDT451ANTR-ND	880.75/2,500
		30	0.028	0.042	—	8.0	3.0		NDT453NCT-ND	1.17	9.78	78.20	NDT453NTR-ND	1270.75/2,500
		30	0.015	0.02	—	11.5	3.0		NDT455NCT-ND	1.59	12.68	95.10	NDT455NTR-ND	2028.80/2,500
		60	0.12	—	—	3.7	3.0		NDT3055CT-ND	.72	5.40	40.50	NDT3055TR-ND	585.00/2,500
		60	—	0.15	—	3.5	3.0		NDT3055LCT-ND	.75	5.64	42.30	NDT3055LTR-ND	611.00/2,500
8	P-Chan.*	-30	0.035	0.05	—	-7.3	3.0	Single	NDT456PCT-ND	1.53	12.22	91.65	NDT456PTR-ND	1955.20/2,500
		-30	0.065	0.1	—	-5.0	3.0		NDT452APCT-ND	.92	7.65	61.20	NDT452APTR-ND	994.50/2,500
		-60	0.3	0.5	—	-2.5	3.0		NDT2955CT-ND	.72	5.43	40.73	NDT2955TR-ND	588.25/2,500

* V_{GS} are negative for P-Channel devices. † V_{GS} @ 2.5V

Fig. 1 — SOT-23 (TO-236AB)

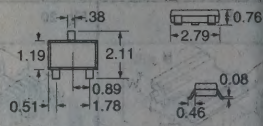
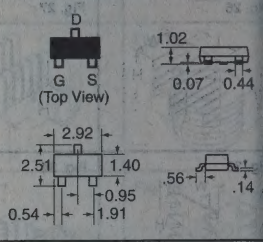


Fig. 2 — SuperSOT™-3



SuperSOT™-6

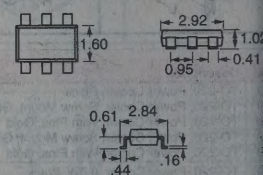


Fig. 3

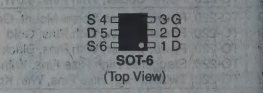


Fig. 4

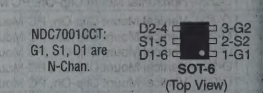


Fig. 5

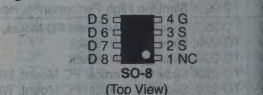


Fig. 6

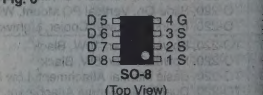


Fig. 7

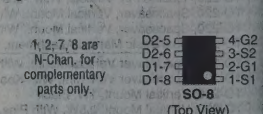
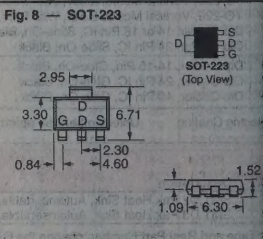


Fig. 8 — SOT-223



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N and P Channel Surface Mount HEXFETs

Electrical characteristics at 25°C unless otherwise noted.
Dimensions shown in mm

. 1 — SMD-220/D²Pak

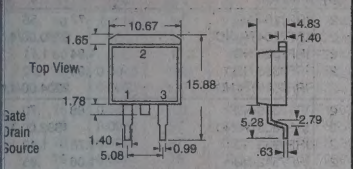


Fig. 2 — DPak

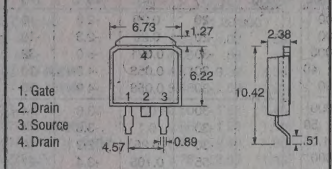


Fig. 3 — Micro-3™ (SOT-23)

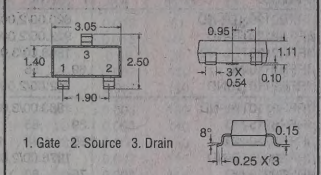
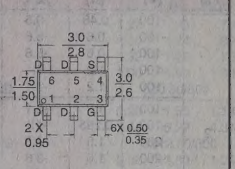
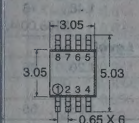


Fig. 4 — Micro-6™/TSOP-6 Surface Mount

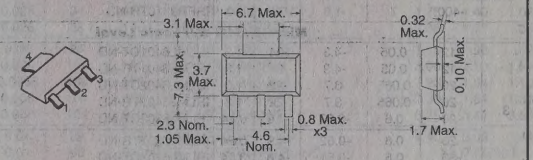


. 5 — Micro-8™ Outline

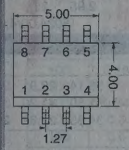


	A	B	C
	1. Source	1. Anode	1. Source 1
	2. Source	2. Anode	2. Gate 1
	3. Source	3. Source	3. Source 2
	4. Gate	4. Gate	4. Gate 2
	5. Drain	5. Cathode	5. Drain 2
	6. Drain	6. Cathode	6. Drain 2
	7. Drain	7. Drain	7. Drain 1
	8. Drain	8. Drain	8. Drain 1

Fig. 6 — SOT-223



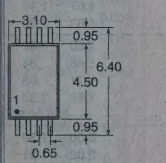
. 7 — SO-8/SOIC-8



	A	B	C	D	E
	1. Source 1	1. Anode	1. Anode/Source	1. Source	Q1 Source 1 — Pwr 8 Vin
	2. Gate 1	2. Anode	2. Anode/Source	2. Source	Q1 Gate 2 — Pwr 7 Vin
	3. Source 2	3. Source	3. Anode/Source	3. Source	PGND 3 — Pwr 6 Vout
	4. Gate 2	4. Gate	4. Gate	4. Gate	Q2 Gate 4 — Pwr 5 Vout
	5. Drain 2	5. Drain	5. Cathode/Drain	5. Drain	Top View
	6. Drain 2	6. Drain	6. Cathode/Drain	6. Drain	
	7. Drain 1	7. Drain	7. Cathode/Drain	7. Drain	
	8. Drain 1	8. Drain	8. Cathode/Drain	8. Drain	

	F	G	H	I
	1. Anode	1. Source 1	1. Anode	1. Source 2
	2. Source	2. Gate 1	2. Anode	2. Gate 2
	3. Source	3. Source 2	3. Source	3. Source 1
	4. Gate	4. Gate 2	4. Gate	4. Gate 1
	5. Drain	5. Drain	5. Drain	5. Drain 1
	6. Drain	6. Drain	6. Drain	6. Drain 1
	7. Drain	7. Drain	7. Cathode	7. Cathode 2
	8. Drain	8. Drain	8. Cathode	8. Cathode 2

. 8 — 8-TSSOP



1. Drain 1
2. Source 1
3. Source 1
4. Gate 1
5. Gate 2
6. Source 2
7. Source 2
8. Drain 2

Fig. 9 — FlipFET™

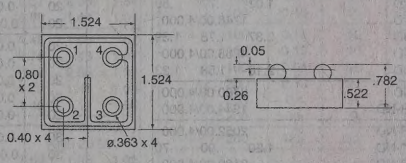
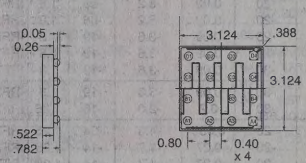


Fig. 10 — FlipFET™



. 11 — SOT-227

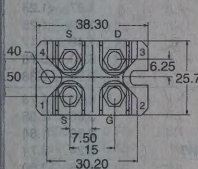
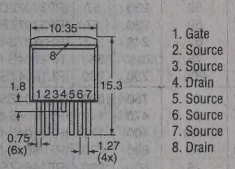


Fig. 12 — *NEW!* D²Pak-7



1. Gate
2. Source
3. Source
4. Drain
5. Source
6. Source
7. Source
8. Drain

Fig. 13 — DirectFET™

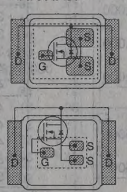
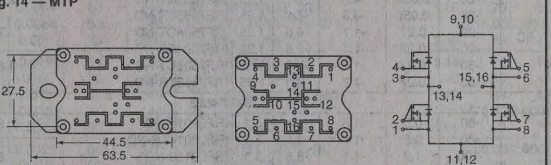


Fig. 14 — MTP



VDS (V)	RDS (on) (Ω)	ID Cont. (A) 25°C	IDM (A)	PD Max. (W)	Digi-Key Part No.	Price Each 1	10	100
P-CHANNEL TYPES								
SMD-220/D²Pak								
-55	0.02	-74	-260	200	IRF4905S-ND	3.55	2.62	2.17
-55	0.02	-74	-260	200	IRF4905STRL-ND	3456.00/800		
-55	0.06	-31	-110	110	IRF5305S-ND	1.98	1.58	1.13
-55	0.1	-19	-68	68	IRF9Z34NS-ND	1.05	.84	.61
-55	0.1	-19	-68	68	IRF9Z34NSTRL-ND	453.60/800		
-55	0.175	-12	-48	45	IRF9Z24NS-ND	1.52	1.22	.88
-60	0.14	-18	-72	88	IRF9Z34S-ND	1.30	1.04	.75
-60	0.14	-18	-72	88	IRF9Z34STRL-ND	561.60/800		
-60	0.28	-11	-44	60	IRF9Z24S-ND	1.00	.80	.58
-60	0.28	-11	-44	60	IRF9Z24STRR-ND	432.00/800		
-60	0.5	-6.7	-27	43	IRF9Z14S-ND	1.40	1.12	.80
-100	0.06	-40	-140	200	IRF5210S-ND	2.57	1.82	1.50
-100	0.06	-40	-140	200	IRF5210STRL-ND	1597.60/800		
-100	0.06	-40	-140	200	IRF5210STRR-ND	1156.00/800		
-100	0.117	-23	-76	140	IRF9540NS-ND	1.36	.97	.80
-100	0.117	-23	-76	140	IRF9540NSTRL-ND	610.40/800		
-100	0.2	-14	-56	79	IRF9530NS-ND	.76	.62	.44
-100	0.2	-19	-72	150	IRF9540S-ND	1.70	1.36	.97
-100	0.2	-19	-72	150	IRF9540STRL-ND	1468.80/800		
-100	0.3	-12	-48	88	IRF9530S-ND	1.25	1.00	.72
-100	0.3	-12	-48	88	IRF9530STRL-ND	540.00/800		
-100	0.48	-6.8	-27	48	IRF9520NS-ND	1.52	1.22	.87
-100	1.2	-4	-16	43	IRF9510S-ND	.92	.74	.53

Fig.	VDS (V)	RDS (on) (Ω)	ID Cont. (A) 25°C	IDM (A)	PD Max. (W)	Digi-Key Part No.	Price Each 1	10	100
	-150	0.29	-13	-44	110	IRF6215S-ND	1.20	.96	.69
	-150	0.29	-13	-44	110	IRF6215STRR-ND	518.40/800		
1	-200	0.5	-11	-44	125	IRF9640S-ND	1.78	1.42	1.02
	-200	0.5	-11	-44	125	IRF9640STRL-ND	767.20/800		
	-200	0.8	-6.5	-26	74	IRF9630S-ND	2.33	1.86	1.33
	-200	1.5	-3.5	-14	40	IRF9620S-ND	2.15	1.72	1.23
	-200	3	-1.8	-7	20	IRF9610S-ND	1.58	1.26	.90
	DPak (TO-252AA)								
	-50	0.28	-9.9	—	—	IRFR9020-ND	.94	.75	.54
	-50	0.28	-9.9	—	—	IRFR9020TR-ND	1012.00/2,000		
	-50	0.5	-5.3	—	—	IRFR9010-ND	.70	.56	.41
	-50	0.5	-5.3	—	—	IRFR9010TR-ND	756.00/2,000		
	-55	0.065	-31	-110	110	IRFR5305-ND	1.20	.85	.70
	-55	0.065	-31	-110	110	IRFR5305TR-ND	1336.00/2,000		
	-55	0.11	-18	-64	57	IRFR5505-ND	1.33	1.06	.76
2	-55	0.175	-11	-44	38	IRFR9024N-ND	1.03	.66	.50
	-55	0.175	-11	-44	38	IRFR9024NTR-ND	802.00/2,000		
	-60	0.28	-8.8	-35	42	IRFR9024-ND	1.25	.82	.63
	-60	0.28	-8.8	-35	42	IRFR9024TR-ND	1032.00/2,000		
	-60	0.5	-5.1	-20	25	IRFR9014-ND	.70	.56	.41
	-60	0.5	-5.1	-20	25	IRFR9014TR-ND	1188.00/2,000		
	-60	0.5	-5.1	-20	25	IRFR9014TRL-ND	1782.00/3,000		
	-100	0.205	-13	-52	66	IRFR5410-ND	.69	.55	.42
	-100	0.48	-6.5	-26	40	IRFR9120N-ND	.72	.51	.42

† Lead Free/RoHS Compliant

(Continued)

N and P Channel Surface Mount HEXFETs *(Cont.)*

Fig.	VDS (V)	RDS (on) (Ω)	ID Cont. (A) 25°C	IDM (A)	PD Max. (W)	Digi-Key Part No.	Price Each 1	10	100
2	-100	0.48	-6.5	-26	40	IRFR9120NTR-ND		820.00/2,000	
	-100	0.6	-5.6	-22	42	IRFR9120TR-ND		912.00/2,000	
	-100	0.6	-5.6	-22	42	IRFR9120TRL-ND		1368.00/3,000	
	-100	1.2	-3.1	-12	25	IRFR9110-ND	.69	.55	.40
	-100	1.2	-3.1	-12	25	IRFR9110TR-ND		742.00/2,000	
	-100	1.2	-3.1	-12	25	IRFR9110TRL-ND		1863.00/3,000	
	-150	0.295	-13	-44	110	IRFR6215-ND	1.39	.85	.59
	-200	1.5	-3.6	-14	42	IRFR9220-ND	1.85	1.48	1.06
	-200	1.5	-3.6	-14	42	IRFR9220TR-ND		1976.00/2,000	
	-200	3	-1.9	-7.6	25	IRFR9210-ND	.75	.60	.45
	-200	3	-1.9	-7.6	25	IRFR9210TR-ND		810.00/2,000	
	-250	3	-2.7	-11	50	IRFR9214-ND	.85	.68	.49
	-400	7	-1.8	-7.2	50	IRFR9310-ND	.82	.66	.47
	-400	7	-1.8	-7.2	50	IRFR9310TR-ND		916.00/2,000	
Micro-3 (SOT-23) Logic Level									
3	-12	0.05	-4.3	-34	1.3	IRLML6401CT-ND	.42	.32	.25
	-12	0.05	-4.3	-34	1.3	IRLML6401TR-ND		588.00/3,000	
	-20	0.065	-3.7	-22	1.3	IRLML6402CT-ND	.42	.32	.25
	-20	0.065	-3.7	-22	1.3	IRLML6402TR-ND		585.00/3,000	
	-20	0.6	-0.62	-4.9	0.54	IRLML6302CT-ND	.32	.24	.19
	-20	0.6	-0.62	-4.9	0.54	IRLML6302TR-ND		441.00/3,000	
	-30	0.6	-0.61	-4.8	0.54	IRLML5103CT-ND	.33	.25	.20
	-30	0.6	-0.61	-4.8	0.54	IRLML5103TR-ND		459.00/3,000	
Micro-6 (TSOP-6) Logic Level									
4	-20	0.05	-5.6	-45	2	IRLMS6802CT-ND	.72	.54	.42
	-20	0.05	-5.6	-45	2	IRLMS6802TR-ND		987.00/3,000	
	-20	0.2	-2.3	-13	1.7	IRLMS6702CT-ND	.94	.56	.44
	-20	0.2	-2.3	-13	1.7	IRLMS6702TR-ND		985.92/3,000	
	-30	0.2	-2.3	-13	1.7	IRLMS5703CT-ND	.70	.42	.33
	-30	0.2	-2.3	-13	1.7	IRLMS5703TR-ND		739.44/3,000	
Micro-6 (TSOP-6)									
4	-20	0.065	-4.4	-20	2	SI3443DVCT-ND	.68	.54	.48
	-20	0.065	-4.4	-20	2	SI3443DVTR-ND		1122.00/3,000	
Micro-8									
5A	-30	0.026	-7.0	-28	1.79	IRF7726CT-ND	1.24	.72	.60
	-30	0.026	-7.0	-28	1.79	IRF7726TR-ND		1996.00/4,000	
Micro-8 Logic Level									
5A	-20	0.02	-8.2	-66	1.8	IRF7663CT-ND	1.02	.77	.60
	-20	0.02	-8.2	-66	1.8	IRF7663TR-ND		1748.00/4,000	
	-20	0.09	-3.6	-19	1.8	IRF7604CT-ND	2.37	1.78	1.39
	-20	0.09	-3.6	-19	1.8	IRF7604TR-ND		4268.00/4,000	
	-30	0.09	-3.6	-19	1.8	IRF7606CT-ND	2.10	1.58	1.23
	-30	0.09	-3.6	-19	1.8	IRF7606TR-ND		3780.00/4,000	
	-30	0.2	-2.0	-16	1.25	IRF7526D1TR-ND		1944.00/4,000	
5B	-20	0.055	-4.3	-34	1.25	IRF7534D1TR-ND		2052.00/4,000	
	-20	0.27	-1.7	-14	1.25	IRF7524D1CT-ND	1.20	.90	.70
	-20	0.27	-1.7	-14	1.25	IRF7524D1TR-ND		2160.00/4,000	
Micro-8 Dual Logic Level									
5C	-20	0.055	-4.3	-34	1.25	IRF7555CT-ND	2.10	1.58	1.23
	-20	0.055	-4.3	-34	1.25	IRF7555TR-ND		3780.00/4,000	
	-20	0.27	-1.7	-9.6	1.25	IRF7504CT-ND	.78	.59	.46
	-20	0.27	-1.7	-9.6	1.25	IRF7504TR-ND		1404.00/4,000	
	-30	0.27	-1.7	-9.6	1.25	IRF7506CT-ND	1.89	1.42	1.11
	-30	0.27	-1.7	-9.6	1.25	IRF7506TR-ND		3404.00/4,000	
SOT-223									
6	-60	0.5	-1.8	-14	3.1	IRFL9014-ND	.91	.60	.47
	-60	0.5	-1.8	-14	3.1	IRFL9014TR-ND		925.00/2,500	
	-100	1.2	-1.1	-8.8	3.1	IRFL9110-ND	.80	.64	.46
	-100	1.2	-1.1	-8.8	3.1	IRFL9110TR-ND		797.50/2,500	
SOIC-8									
7D	-12	0.007	-16	-65	2.5	IRF7410-ND	1.55	1.08	.84
	-12	0.014	-11.5	-46	2.5	IRF7420-ND	2.11	1.48	1.12
	-12	0.020	±9.5	±76	2.5	IRF7233-ND	2.83	2.26	1.70
	-20	0.0082	-15	-60	2.5	IRF7425-ND	2.18	1.24	1.01
	-20	0.06	-5.4	-43	2.5	IRF7207-ND	1.95	1.56	1.17
	-30	0.013	-11	-47	2.5	IRF7424-ND	2.01	1.14	.93
	-30	0.02	-5.6	-45	1	IRF7416-ND	1.22	.87	.72
	-30	0.02	-5.6	-45	1	IRF7416TR-ND		2544.00/4,000	
	-40	0.015	-10.5	-43	2.5	IRF7240-ND	3.86	2.76	2.24
SOIC-8 Logic Level									
7D	-12	0.005	-16	-100	2.5	IRF7210-ND	3.13	2.50	1.78
	-14	0.012	-11	-88	2.5	IRF7220-ND	2.83	2.26	1.61
	-14	0.012	-11	-88	2.5	IRF7220TR-ND		2216.00/4,000	
	-20	0.04	-6.7	-27	2.5	IRF7404-ND	.88	.71	.51
	-20	0.04	-6.7	-27	2.5	IRF7404TR-ND		1896.00/4,000	
	-20	0.06	-5.3	-21	1.6	IRF7204CT-ND	2.34	1.76	1.37
	-20	0.06	-5.3	-21	1.6	IRF7204TR-ND		3900.00/4,000	
	-30	0.02	-30	-50	2.5	SI4435DY-ND	1.50	1.20	.85
	-30	0.02	-30	-50	2.5	SI4435DYTR-ND		3240.00/4,000	
	-30	0.045	-5.8	-23	2.5	IRF7406-ND	1.15	.93	.67
	-30	0.07	-5.3	—	2.5	IRF7205-ND	1.11	.74	.58
	-30	0.07	-5.3	—	2.5	IRF7205TR-ND		1790.29/4,000	
7H	-20	0.058	-5.3	-43	2.0	IRF7322D1-ND	1.13	.90	.68
SOIC-8 Dual Logic Level									
7A	-12	0.017	-9.2	-37	2	IRF7329-ND	1.37	.72	.65
	-20	0.018	-9	-71	2	IRF7324-ND	2.83	2.26	1.61
	-20	0.058	-5.3	-21	2	IRF7314-ND	.97	.69	.57
	-20	0.058	-5.3	-21	2	IRF7314TR-ND		2176.00/4,000	
	-20	0.09	-4.3	-17	2	IRF7304-ND	.88	.70	.50
	-20	0.09	-4.3	-17	2	IRF7304TR-ND		1436.00/4,000	
7A	-20	0.25	-2.3	-10	2	IRF7104-ND	.77	.55	
	-20	0.25	-2.3	-10	2	IRF7104TR-ND		3780.00/4,0	
	-30	0.021	-8.0	-32	2	IRF7328-ND	1.94	1.11	
	-30	0.058	-4.9	-30	2	IRF7316-ND	.98	.70	
	-30	0.058	-4.9	-30	2	IRF7316TR-ND		2204.00/4,0	
	-30	0.1	-3.6	-14	2	IRF7306-ND	.88	.70	
	-30	0.1	-3.6	-14	2	IRF7306TR-ND		1892.00/4,0	
	-30	0.25	-2.3	-10	2	IRF9953-ND	1.75	1.40	
	-55	0.105	-3.4	-27	2	IRF7342-ND	1.06	.85	
	-55	0.105	-3.4	-27	2	IRF7342TR-ND		2296.00/4,0	
7H	-20	0.18	-2.9	-23	2	IRF7324D1-ND	2.83	2.26	
SOIC-8 "Fetky™" Mosfet and Schottky Diode									
7H	-30	0.062	-4.7	-38	2	IRF7321D2-ND	1.48	1.18	
	-30	0.062	-4.7	-38	2	IRF7321D2TR-ND		3188.00/4,0	
SOIC-8 "Fetky™" Mosfet and Schottky Diode Logic Level									
7B	-20	0.09	-4.1	-18	2	IRF7422D2-ND	1.20	.85	
TSOP-6									
4	-20	0.065	-4.4	-20	2.0	SI3443DV-ND	1.08	.65	
TSSOP Dual-8									
8	-12	0.04	±4.3	-17	1.0	IRF7756-ND	1.47	.84	
	-20	0.03	±4.7	±38	1.0	IRF7750CT-ND	3.24	2.43	
	-20	0.03	±4.7	±38	1.0	IRF7750TR-ND		5832.00/4,0	
FlipFET™									
9	-20	0.065	±5.1	±35	2.2	IRF6100CT-ND	1.08	.65	
10	-20	0.036	±7.1	±40	3.0	IRF6150CT-ND	2.95	2.06	
	-20	0.036	±7.1	±40	3.0	IRF6150TR-ND		5024.00/4,0	
N-CHANNEL TYPES									
SOT-227									
11	100	0.0065	180	720	480	FB180SA10-ND	36.14	28.91	2
	500	0.08	57	228	625	FA57SA50LC-ND	51.50	41.20	3
	500	0.13	38	150	500	FA38SA50LC-ND	34.85	27.89	2
SMD-220/D²Pak									
1	20	0.006	110	440	120	IRF3711S-ND	1.78	1.01	
	20	0.006	92	380	79	IRF3711ZS-ND	1.85	1.22	
	20	0.006	92	380	79	IRF3711ZCS-ND	1.93	1.27	
	20	0.008	67	260	57	IRF3704ZCS-ND	1.67	1.10	
	20	0.0085	77	280	88	IRF3706S-ND	1.63	1.30	
	20	0.011	50	200	45	IRL3715ZCS-ND	1.60	.91	
	20	0.011	50	200	45	IRL3715ZS-ND	1.48	.84	
	20	0.016	36	140	35	IRL3714ZS-ND	1.71	.98	
	20	0.016	36	140	35	IRL3714ZSCTL-ND	1.86	1.33	
	20	0.016	36	140	35	IRL3714ZSTRL-ND		636.00/800	
	30	0.006	105	420	110	IRL8113S-ND	2.00	1.30	
	30	0.0063	87	350	79	IRF3709ZS-ND	2.02	1.31	
	30	0.0065	150	600	140	IRL7833S-ND	2.67	1.52	
	30	0.009	90	360	120	IRF3709S-ND	2.07	1.18	
	30	0.012	62	248	87	IRF3708S-ND	1.63	1.30	
	30	0.095	59	230	57	IRF3707ZCS-ND	1.87	1.23	
	30	0.095	59	230	57	IRF3707ZS-ND	1.89	1.25	
	30	0.125	62	248	87	IRF3707S-ND	1.46	1.17	
	40	0.002	75	1080	330	IRF2804S-ND	5.20	3.78	
	40	0.0031	200	790	230	IRL1404ZS-ND	3.54	2.36	
	40	0.0037	75	750	220	IRF1404ZS-ND	2.53	1.78	
	40	0.0055	75	470	140	IRF4104S-ND	3.06	2.08	
	40	0.009	100	400	170	IRF1104S-ND	2.30	1.84	
	55	0.0033	75	890	130	IRF3805S-ND ***NEW!***	5.24	3.74	
	55	0.005	75	600	230	IRF1405ZS-ND	4.28	3.00	
	55	0.005	131	680	200	IRF1405S-ND	4.23	3.38	
	55	0.007	75	440	170	IRF3205ZS-ND	3.87	2.62	
	55	0.075	75	360	140	IRF1010ZS-ND	2.91	1.98	
	55	0.008	86	340	130	IRL3705ZS-ND	2.35	1.59	
	55	0.008	110	390	200	IRF3205S-ND	3.84	2.72	
	55	0.008	110	390	200	IRF3205STRL-ND		3024.00/80	
	55	0.011	61	240	91	IRFZ48ZS-ND	2.08	1.35	
	55	0.011	84	290	170	IRF1010NS-ND	3.63	2.90	
	55	0.0135	51	204	80	IRLZ44ZS-ND	1.91	1.37	
	55	0.0136	51	200	82	IRFZ46ZS-ND	1.95	1.26	
	55	0.0139	51	200	80	IRFZ44ZS-ND	1.97	1.26	
	55	0.016	64	210	140	IRFZ48NS-ND	1.45	1.16	
	55	0.016	64	210	140	IRFZ48NSTRL-ND		624.00/800	
	55	0.016	64	210	140	IRFZ48NSTRR-ND		740.00/800	
	55	0.02	53	180	120	IRFZ46NS-ND	1.80	1.44	
	55	0.022	49	160	110	IRFZ44NS-ND	1.20	.96	
	55	0.022	49	160	110	IRFZ44NSTRL-ND		539.20/800	
	55	0.04	29	100	68	IRFZ34NS-ND	1.00	.80	
	55	0.04	29	100	68	IRFZ34NSTRL-ND		432.00/800	
	55	0.04	29	100	68	IRFZ34NSTRR-ND		432.00/800	
	55	0.07	17	68	45	IRFZ24NS-ND	1.15	.92	
	60	0.0085	75	340	140	IRF1010EZS-ND	2.89	1.96	
	60	0.012	57	230	92	IRFZ44VZS-ND	2.08	1.35	
	60	0.012	72	290	150	IRFZ48VS-ND	1.70	.97	
	60	0.012	83	330	170	IRF1010ES-ND	3.88	3.10	
	60	0.0165	55	220	115	IRFZ44VS-ND	1.44	.78	
	60	0.023	48	192	110	IRFZ44ES-ND	1.15	.82	
	60	0.023	48	192	110	IRFZ44ESTRR-ND		744.00/800	
	60	0.028	50	200	150	IRFZ44S-ND	1.53	1.22	

† Lead Free/RoHS Compliant

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N and P Channel Surface Mount HEXFETs *(Cont.)*

Fig.	VDS (V)	RDS (on) (Ω)	ID Cont. (A) 25°C	IDM (A)	PD Max. (W)	Digi-Key Part No.	Price Each 1	10	100
	60	0.028	50	200	150	IRFZ44STRR-ND	971.20/800		
	60	0.1	17	68	60	IRFZ24S-ND	1.02	.82	.59
	60	0.2	10	40	43	IRFZ14S-ND	1.08	.86	.61
	75	0.0045	180	720	330	IRFS3207-ND ***NEW!***	4.57	3.32	2.66
	75	0.0063	130	510	250	IRFS3307-ND ***NEW!***	3.45	2.50	1.93
	75	0.0078	100	520	3.8	IRF1407S-ND	2.60	1.81	1.40
	75	0.0088	97	390	190	IRFS3507-ND ***NEW!***	2.86	1.98	1.50
	75	0.0088	97	390	190	IRFS3507PBF-ND† ***NEW!***	3.27	2.40	1.80
	75	0.0094	75	350	170	IRF2807ZS-ND	3.78	2.56	1.98
	75	0.013	71	280	150	IRF2807S-ND	4.44	3.06	2.43
	100	0.0070	140	550	330	IRFS4310-ND ***NEW!***	5.17	3.76	3.01
	100	0.01	96	380	250	IRFS4410-ND ***NEW!***	3.74	2.71	2.09
	100	0.014	73	290	190	IRFS4610-ND ***NEW!***	3.24	2.38	1.79
	100	0.014	73	290	190	IRFS4610PBF-ND† ***NEW!***	3.24	2.38	1.79
	100	0.025	57	180	200	IRF3710S-ND	2.30	1.63	1.35
	100	0.025	57	180	200	IRF3710STRR-ND	2700.00/800		
	100	0.025	59	236	200	IRFS59N10D-ND	2.52	2.02	1.52
	100	0.0265	36	140	92	IRF540ZS-ND	2.19	1.42	1.14
	100	0.036	42	140	160	IRF1310NS-ND	1.64	1.31	.94
	100	0.036	42	140	160	IRF1310NSTRL-ND	708.00/800		
	100	0.052	33	110	140	IRF540NS-ND	1.40	1.12	.81
	100	0.052	33	110	140	IRF540NSTRL-ND	1013.60/800		
	100	0.052	33	110	140	IRF540NSTRR-ND	604.80/800		
	100	0.077	28	110	150	IRF540S-ND	1.46	1.17	.83
	100	0.077	28	110	150	IRF540STRL-ND	629.60/800		
	100	0.077	28	110	150	IRF540STRR-ND	629.60/800		
	100	0.11	17	80	79	IRF530NS-ND	1.01	.81	.59
	100	0.11	17	80	79	IRF530NSTRL-ND	296.80/800		
	100	0.11	17	80	79	IRF530NSTRR-ND	296.80/800		
	100	0.16	14	56	88	IRF530S-ND	1.06	.85	.62
	100	0.16	14	56	88	IRF530STRR-ND	604.00/800		
	100	0.2	9.7	38	48	IRF520NS-ND	.81	.65	.47
	100	0.54	5.6	20	43	IRF510S-ND	.72	.58	.41
	100	0.6	6.8	-27	60	IRF9520S-ND	1.75	1.40	1.00
	100	0.6	6.8	-27	60	IRF9520STRL-ND	392.00/800		
	150	0.042	43	150	200	IRF3415S-ND	2.71	1.92	1.59
	150	0.042	43	150	200	IRF3415STRL-ND	680.80/800		
	150	0.045	41	164	200	IRF3515S-ND	2.78	2.23	1.59
	150	0.045	41	164	200	IRFS41N15D-ND	2.57	2.06	1.54
	150	0.056	33	130	170	IRFS33N15D-ND	1.80	1.44	1.08
	150	0.082	21	84	94	IRF3315S-ND	1.49	1.06	.87
	150	0.09	23	92	136	IRFS23N15D-ND	1.78	1.43	1.07
	200	0.082	31	124	200	IRFS31N20D-ND	3.19	2.55	1.92
	200	0.1	24	96	170	IRFS23N20D-ND	1.80	1.44	1.08
	200	0.15	18	72	150	IRF640NS-ND	1.46	1.17	1.03
	200	0.15	18	72	150	IRF640NSTRL-ND	1036.00/800		
	200	0.15	18	72	150	IRF640NSTRR-ND	1099.20/800		
	200	0.17	16	64	140	IRFS17N20D-ND	1.69	1.35	1.02
	200	0.3	9.3	37	82	IRF630NS-ND	1.72	1.38	1.21
	200	0.3	9.3	37	82	IRF630NSTRL-ND	459.20/800		
	200	0.8	5.2	18	50	IRF620S-ND	1.65	1.32	.95
	200	1.5	3.3	10	36	IRF610S-ND	1.40	1.12	.81
	250	0.24	14	56	150	IRF644NS-ND	1.73	1.00	.83
	250	0.28	14	56	125	IRF644S-ND	3.24	2.30	1.89
	250	0.28	14	56	125	IRF644STRL-ND	656.80/800		
	250	0.45	8.1	—	74	IRF634S-ND	1.34	.95	.79
	250	1.1	4.4	—	50	IRF624S-ND	1.63	1.16	.96
	250	2	2.7	8	36	IRF614S-ND	1.40	1.12	.81
	300	0.75	6.1	24	74	IRF737LCS-ND	1.97	1.58	1.19
	400	0.55	10	40	125	IRF740AS-ND	2.45	1.96	1.40
	400	0.55	10	—	125	IRF740S-ND	1.51	1.08	.89
	400	0.55	10	40	125	IRF740STRL-ND	680.80/800		
	400	1	5.5	—	74	IRF730S-ND	1.61	1.14	.94
	400	1	5.5	22	74	IRF730AS-ND	1.68	1.34	.95
	400	1.8	3.3	—	50	IRF720S-ND	.91	.65	.53
	400	3.6	2	6	36	IRF710S-ND	.76	.61	.44
	500	0.52	11	44	170	IRFS11N50A-ND	1.85	1.48	1.05
	500	0.85	8	—	125	IRF840S-ND	2.02	1.43	1.18
	500	0.85	8	32	125	IRF840AS-ND	1.66	1.33	.95
	500	1.4	5	20	74	IRF830AS-ND	1.23	.98	.70
	500	1.5	4.5	—	74	IRF830S-ND	1.34	.95	.79
	500	3	2.5	—	50	IRF820S-ND	1.08	.77	.63
	500	3	2.5	10	50	IRF820AS-ND	1.22	.98	.73
	600	0.75	9.2	37	170	IRFS9N60A-ND	2.05	1.64	1.23
	600	1.2	6.2	25	125	IRFBC40AS-ND	4.00	3.20	2.29
	600	1.2	6.2	25	130	IRFBC40LCS-ND	3.76	3.01	2.26
	600	1.2	6.2	25	130	IRFBC40S-ND	1.98	1.59	1.13
	600	2.2	3.6	14	74	IRFBC30AS-ND	2.75	2.20	1.57
	600	2.2	3.6	14	74	IRFBC30S-ND	2.75	2.20	1.58
	600	4.4	2.2	8.0	50	IRFBC20S-ND	2.35	1.88	1.41
	800	6.5	1.8	—	54	IRFBE20S-ND	2.00	1.60	1.20
	900	3.7	3.6	—	125	IRFBF30S-ND	3.22	2.58	1.94
	900	8	1.7	6.8	54	IRFBF20S-ND	1.98	1.58	1.39
						NEW! D²Pak-7 NEW!			
2	40	0.0016	160	1360	330	IRF2804S-7P-ND	5.61	3.93	3.37
2	55	0.0026	160	1000	300	IRF3805S-7P-ND	6.47	4.63	3.70
2	55	0.0049	120	590	230	IRF1405ZS-7P-ND	3.40	2.51	1.94
						SMD-220/D²Pak Logic Level			
	20	0.014	54	210	71	IRL3715S-ND	1.27	.75	.57
	20	0.02	36	140	47	IRL3714S-ND	1.11	.65	.50
	20	0.01	85	340	110	IRL3402S-ND	2.28	1.82	1.37
	20	0.009	77	308	87	IRF3704S-ND	1.63	1.30	1.14
	20	0.013	61	240	89	IRL3102S-ND	1.22	.98	.70
	20	0.016	48	190	69	IRL3202S-ND	1.55	1.24	.89
	20	0.02	39	160	57	IRL3302S-ND	1.32	1.06	.76
	20	0.007	110	420	140	IRL3502S-ND	1.90	1.52	1.33
	20	0.007	110	420	140	IRL3502STRL-ND	820.80/800		
	20	0.004	180	720	210	IRL3716S-ND	2.28	1.56	1.18
	30	0.006	140	470	200	IRL3803S-ND	7.44	5.27	4.34
	30	0.006	140	470	200	IRL3803STRL-ND	3212.80/800		
	30	0.007	116	400	170	IRL2203NS-ND	2.25	1.80	1.29
	30	0.007	116	400	170	IRL2203NSTRL-ND	972.00/800		
	30	0.014	54	220	70	IRL3103D1S-ND	4.43	3.10	2.49
	30	0.014	64	220	110	IRL3103S-ND	3.12	2.21	1.82
	30	0.014	64	220	110	IRL3103STRL-ND	1417.60/800		
	30	0.026	34	140	68	IRL3303D1S-ND	1.75	1.40	1.05
	30	0.026	38	140	68	IRL3303S-ND	2.35	1.67	1.38
	30	0.04	24	96	45	IRL2703S-ND	1.15	.92	.69
	40	0.004	160	640	3.8	IRL1404S-ND	3.00	2.10	1.64
	40	0.0065	130	520	200	IRL1004S-ND	1.93	1.54	1.10
	40	0.008	104	416	167	IRL1104S-ND	2.30	1.84	1.38
	55	0.008	104	360	200	IRL2505S-ND	6.75	5.41	3.86
	55	0.01	89	310	170	IRL3705NS-ND	4.40	3.09	2.49
	55	0.01	89	310	170	IRL3705NSTRL-ND	1737.60/800		
1	55	0.022	47	160	110	IRLZ44NS-ND	1.23	.98	.70
1	55	0.022	47	160	110	IRLZ44NSTRL-ND	449.60/800		
1	55	0.022	47	160	110	IRLZ44NSTRR-ND	529.60/800		
	55	0.035	30	110	68	IRLZ34NS-ND	1.05	.84	.60
	55	0.035	30	110	68	IRLZ34NSTRL-ND	451.20/800		
	55	0.06	18	72	45	IRLZ24NS-ND	1.10	.88	.63
	60	0.1	14	56	42	IRLR024-ND	.90	.72	.52
	60	0.2	10	40	43	IRLZ14S-ND	1.15	.92	.66
	60	0.028	50	200	150	IRLZ44S-ND	1.38	1.10	.79
	60	0.028	50	200	150	IRLZ44STRR-ND	594.00/800		
	100	0.026	55	190	200	IRL2910S-ND	6.25	5.00	3.57
	100	0.044	36	120	140	IRL540NS-ND	2.25	1.80	1.29
	100	0.044	36	120	140	IRL540NSTRL-ND	620.80/800		
	100	0.077	28	110	150	IRL540S-ND	1.30	1.04	.75
	100	0.1	17	60	79	IRL530NS-ND	1.01	.81	.58
	100	0.1	17	60	79	IRL530NSTRL-ND	437.60/800		
	100	0.1	17	80	79	IRL530NSTRR-ND	460.80/800		
	100	0.16	15	60	88	IRL530STRR-ND	367.20/800		
	100	0.18	10	35	48	IRL520NS-ND	.88	.70	.50
	100	0.18	10	35	48	IRL520NSTRL-ND	348.80/800		
	100	0.54	5.6	18	43	IRL510S-ND	.94	.76	.66
	200	0.18	17	68	125	IRL640S-ND	1.67	1.34	.96
	200	0.4	9	36	74	IRL630S-ND	1.96	1.57	1.12
	200	0.4	9	36	74	IRL630STRL-ND	846.40/800		
	200	0.8	5.2	21	50	IRL620S-ND	1.72	1.38	.99
						DPak			
	20	0.006	110	440	2.5	IRFR3711-ND	1.78	1.01	.82
	20	0.006	93	370	79	IRFR3711Z-ND	1.69	1.12	.85
	20	0.0084	60	240	48	IRFR3704Z-ND	1.25	.70	.60
	20	0.0084	60	240	48	IRFR3704ZTR-ND	1016.00/2,000		
	20	0.009	75	300	90	IRFR3704-ND	1.46	.79	.71
	20	0.009	75	280	88	IRFR3706-ND	1.44	.78	.70
	20	0.02	36	31	140	IRLR3714-ND	.92	.55	.41
	20	0.015	37	144	35	IRLR3714ZCTL-ND	1.40	.88	.63
	20	0.015	37	144	35	IRLR3714ZTRL-ND	1470.00/3,000		
	30	0.0065	86	340	79	IRFR3709Z-ND	1.61	.92	.76
	30	0.0065	86	340	79	IRFR3709ZTR-ND	1268.00/2,000		
	30	0.012	61	244	87	IRFR3708-ND	1.44	.78	.70
	30	0.013	61	244	87	IRFR3707-ND	1.44	.78	.70
	30	0.031	33	120	57	IRFR3303-ND	.88	.70	.51
	30	0.031	33	120	57	IRFR3303TR-ND	946.00/2,000		
	40	0.0055	42	480	140	IRFR4104-ND	2.60	1.68	1.36
	40	0.009	42	310	90	IRFR3504Z-ND	1.69	1.11	.85
	50	0.1	15	—	—	IRFR020-ND	1.25	1.00	.72
	50	0.1	15	—	—	IRFR020TR-ND	958.00/2,000		
	50	0.1	15	—	—	IRFR020TRL-ND	2196.00/3,000		
2	50	0.2	8.2	33	25	IRFR010-ND	1.06	.85	.65
2	55	0.0075	42	360	140	IRFR1010Z-ND ***NEW!***	2.25	1.56	1.18
2	55	0.012	42	360	130	IRLR3705Z-ND ***NEW!***	2.76	1.92	1.45
	55	0.057	26	80	79	IRLR4343-ND	1.44	.95	.71
	55	0.057	26	80	79	IRLR4343CTL-ND	1.44	1.03	.72
	55	0.057	26	80	79	IRLR4343TRL-ND	1722.00/3,000		
	55	0.0135	60	240	110	IRLR2905Z-ND	1.73	1.24	1.09
	55	0.0145	42	240	110	IRFR2905Z-ND	2.21	1.47	1.11
	55	0.016	56	220	110	IRFR2405-ND	1.59	.92	.77
	55	0.025	30	120	48	IRFR4105Z-ND	1.23	.81	.62
	55	0.027	44	160	107	IRFR1205-ND	2.64	1.87	1.54
	55	0.027	44	160	107	IRFR1205TR-ND	2870.00/2,000		
	55	0.045	27	100	68	IRFR4105-ND	2.63	2.10	1.50
	55	0.058	16	64	35	IRLR024Z-ND	1.17	.84	.74
	55	0.075	14	68	38	IRFR024N-ND	.68	.49	.40
	55	0.075	17	68	38	IRFR024NTR-ND	776.00/2,000		
	55	0.075	17	68	38	IRFR024NTRL-ND	1053.00/3,000		
	60	0.075	14	68	45	IRFR024-ND	.89	.71	.52
	60	0.075	17	68	45	IRFR024TR-ND	972.00/2,000		
	60	0.2	7.7	31	25	IRFR014TR-ND	730.00/2,000		
	75	0.016	42	210	110	IRFR2307Z-ND ***NEW!***	1.81	1.26	.95
	75	0.022	42	180	110	IRFR2607Z-ND ***NEW!***	1.50	1.05	.79
	75	0.026	42	170	110	IRFR2407-ND	1.59	.92	.77
	100	0.018	42	220	140	IRFR3710Z-ND	2.20	1.50	1.16

† Lead Free/RoHS Compliant

(Continued)

B

B

Fig.	VDS (V)	RDS (on) (Ω)	ID Cont. (A) 25°C	IDM (A)	PD Max. (W)	Digi-Key Part No.	Price Each 1	10	100
	100	0.039	31	125	110	IRFR3410-ND	1.37	.98	.71
	100	0.115	16	60	79	IRFR3910-ND	.94	.67	.55
	100	0.115	16	60	79	IRFR3910TR-ND		1038.00/2,000	
	100	0.115	16	60	79	IRFR3910TRL-ND		1581.00/3,000	
	100	0.190	8.7	35	35	IRFR120Z-ND	1.16	.75	.56
	100	0.21	9.4	38	48	IRFR120N-ND	1.15	.74	.56
	100	0.21	9.4	38	48	IRFR120NTR-ND		882.00/2,000	
	100	0.21	9.4	38	48	IRFR120NTRL-ND		1296.00/3,000	
	100	0.27	7.7	31	42	IRFR120IR-ND	1.64	1.05	.79
	100	0.27	7.7	31	42	IRFR120TR-ND		1260.00/2,000	
	100	0.27	7.7	31	42	IRFR120TRL-ND		1257.00/3,000	
	100	0.54	4.3	17	25	IRFR110TR-ND		1080.00/2,000	
	150	0.125	18	72	110	IRFR18N15D-ND	1.46	1.17	.88
	150	0.18	14	56	86	IRFR13N15D-ND	1.68	.95	.78
	200	0.235	13	52	110	IRFR13N20D-ND	1.60	1.28	1.02
2	200	0.38	9.4	38	86	IRFR9N20D-ND	1.44	1.16	.87
	200	0.6	5	20	43	IRFR220N-ND	.80	.64	.48
	200	1.5	2.6	10	25	IRFR210-ND	.63	.51	.37
	250	0.26	14	56	144	IRFR12N25D-ND	2.24	1.57	1.19
	250	1.1	3.8	15	42	IRFR224-ND	.74	.59	.42
	250	1.1	3.8	15	42	IRFR224TR-ND		796.00/2,000	
	250	1.1	3.8	15	42	IRFR224TRL-ND		1194.00/3,000	
	250	2	2.2	8.8	25	IRFR214-ND	1.05	.84	.60
	400	1.8	3.1	12	42	IRFR320-ND	.88	.70	.50
	400	1.8	3.1	12	42	IRFR320TR-ND		946.00/2,000	
	400	3.6	1.7	6	25	IRFR310-ND	.98	.78	.56
	400	3.6	1.7	6	25	IRFR310TR-ND		1040.00/2,000	
	500	3	2.4	8	42	IRFR420-ND	.88	.70	.51
	500	3	2.4	8	42	IRFR420TR-ND		952.00/2,000	
	600	4.4	2	8	42	IRFRC20-ND	1.20	.96	.69
	600	4.4	2	8	42	IRFRC20TR-ND		1324.00/2,000	
	600	7	1.4	5.6	36	IRFR1N60A-ND	.73	.58	.41
						DPak Logic Level			
	20	0.011	49	200	40	IRLR3715Z-ND	1.17	.77	.59
	20	0.014	54	210	71	IRLR3715-ND	1.43	.85	.63
	20	0.015	37	144	35	IRLR3714Z-ND	1.20	.68	.58
	20	0.015	37	144	35	IRLR3714ZTR-ND		958.00/2,000	
	30	0.01	65	260	75	IRLR7821-ND	1.20	.78	.60
	30	0.01	65	260	75	IRLR7821TR-ND		876.00/2,000	
	30	0.0033	161	620	140	IRLR7843-ND	2.75	1.56	1.36
	30	0.0038	161	620	140	IRLR7843TR-ND		2232.00/2,000	
	30	0.0045	140	560	140	IRLR7833-ND	1.69	1.09	.83
	30	0.0045	140	560	140	IRLR7833TR-ND		2130.00/2,000	
	30	0.0045	140	560	140	IRLR7833TRL-ND		3150.00/3,000	
	30	0.0045	140	560	140	IRLR7833TRR-ND		3150.00/3,000	
	30	0.006	94	380	89	IRLR8113-ND	2.48	1.62	1.24
	30	0.006	94	380	89	IRLR8113TR-ND		1810.00/2,000	
	30	0.012	44	196	62	IRLR8503-ND	2.88	2.30	1.73
	30	0.0138	43	170	40	IRLR7807Z-ND	1.19	.69	.54
	30	0.0138	43	170	40	IRLR7807ZTR-ND		906.00/2,000	
	30	0.019	55	220	107	IRLR3103TR-ND		1404.00/2,000	
	30	0.031	35	140	68	IRLR3303-ND	1.00	.80	.58
	30	0.031	35	140	68	IRLR3303TR-ND		1810.00/2,000	
2	30	0.045	23	96	45	IRLR2703-ND	.79	.64	.46
	30	0.079	91	363	115	IRLR8103V-ND	1.78	1.01	.82
	55	0.027	42	160	110	IRLR2905TR-ND		1404.00/2,000	
	55	0.027	42	160	110	IRLR2905-ND	1.25	.89	.73
	55	0.027	42	160	110	IRLR2905TRL-ND		4224.00/3,000	
	55	0.04	28	110	68	IRLR2705-ND	1.73	1.12	.85
	55	0.065	17	72	45	IRLR024N-ND	1.25	.80	.61
	55	0.065	17	72	45	IRLR024NTR-ND		962.00/2,000	
	55	0.2	7.7	31	25	IRLR014-ND	.68	.55	.39
	60	0.1	14	56	42	IRLR024TR-ND		972.00/2,000	
	60	0.2	7.7	31	25	IRLR014N-ND	.63	.51	.38
	60	0.2	7.7	31	25	IRLR014TR-ND		756.00/2,000	
	60	0.1	14	56	42	IRLR024-ND	.90	.72	.52
	100	0.105	17	60	79	IRLR3410-ND	1.00	.80	.58
	100	0.105	17	60	79	IRLR3410TR-ND		1080.00/2,000	
	100	0.185	11	35	48	IRLR120N-ND	.84	.60	.49
	100	0.185	11	35	48	IRLR120NTR-ND		1060.00/2,000	
	100	0.185	11	35	48	IRLR120NTRL-ND		1560.00/3,000	
	100	0.27	7.7	31	42	IRLR120-ND	1.29	.83	.62
	100	0.27	7.7	31	42	IRLR120TR-ND		972.00/2,000	
	100	0.54	4.3	17	25	IRLR110-ND	1.08	.86	.61
	100	0.54	4.3	17	25	IRLR110TR-ND		702.00/2,000	
	100	0.54	4.3	17	25	IRLR110TRL-ND		1053.00/3,000	
						Micro-3 (SOT-23) Logic Level			
	20	0.045	4.2	33	1.25	IRLML2502CT-ND	.45	.34	.27
	20	0.045	4.2	33	1.25	IRLML2502TR-ND		630.00/3,000	
3	20	0.25	1.2	7.4	540	IRLML2402CT-ND	.39	.30	.23
	20	0.25	1.2	7.4	540	IRLML2402TR-ND		546.00/3,000	
	30	0.25	1.2	7.3	540	IRLML2803CT-ND	.39	.30	.23
	30	0.25	1.2	7.3	540	IRLML2803TR-ND		549.00/3,000	
						Micro-6 (TSOP-6) Logic Level			
	20	0.03	6.5	20	2.0	IRLMS2002CT-ND	.76	.57	.45
	20	0.03	6.5	20	2.0	IRLMS2002TR-ND		1050.00/3,000	
4	20	0.1	3.2	18	1.7	IRLMS1902CT-ND	.43	.33	.26
	20	0.1	3.2	18	1.7	IRLMS1902TR-ND		579.00/3,000	
	30	0.1	3.2	18	1.7	IRLMS1503CT-ND	.46	.35	.27
	30	0.1	3.2	18	1.7	IRLMS1503TR-ND		624.00/3,000	
						Micro-6 (TSOP-6)			
4	150	1.2	0.9	7	2.0	IRF5802TRCT-ND	.99	.52	.43
	150	1.2	0.9	7	2.0	IRF5802TRTR-ND		1010.16/3,000	

Fig.	VDS (V)	RDS (on) (Ω)	ID Cont. (A) 25°C	IDM (A)	PD Max. (W)	Digi-Key Part No.	Price Each 1	10	100
						Micro-8 Logic Level			
	20	0.03	6.5	50	1.8	IRF7607TR-ND		2592.00/4,000	
	20	0.035	5.7	30	1.8	IRF7601CT-ND	2.16	1.62	1.2
	20	0.035	5.7	30	1.8	IRF7601TR-ND		3888.00/4,000	
5A	20	0.135	2.4	19	1.3	IRF7521D1TR-ND		2160.00/4,000	
	30	0.035	5.6	30	1.8	IRF7603CT-ND	.98	.74	.5
	30	0.035	5.6	30	1.8	IRF7603TR-ND		1696.00/4,000	
	30	0.11	2.7	21	1.25	IRF7523D1TR-ND		1944.00/4,000	
						Micro-8 Dual Logic Level			
	20	0.135	2.4	19	1.25	IRF7501CT-ND	1.89	1.42	1.1
5C	20	0.135	2.4	19	1.25	IRF7501TR-ND		3404.00/4,000	
	30	0.135	2.4	14	1.25	IRF7503CT-ND	1.31	.98	.7
	30	0.135	2.4	14	1.25	IRF7503TR-ND		2264.00/4,000	
						SOT-223			
	55	0.045	3.7	30	1	IRFL4105-ND	1.75	1.40	1.0
	55	0.045	3.7	30	1	IRFL4105CT-ND	2.10	1.58	1.2
	55	0.045	3.7	30	1	IRFL4105TR-ND		2187.50/2,500	
	55	0.0575	5.1	41	1	IRFL024Z-ND	1.50	.96	.7
	55	0.075	2.8	11.2	2.1	IRFL024N-ND	.72	.58	.4
	55	0.16	1.9	15	2.1	IRFL014N-ND	.61	.49	.3
	60	0.2	2.7	22	3.1	IRFL014-ND	.86	.56	.4
	60	0.2	2.7	22	3.1	IRFL014TR-ND		832.50/2,500	
6	60	0.22	1.6	6.4	2.1	IRFL1006-ND	.80	.64	.4
	100	0.2	1.6	13	1	IRFL4310-ND	1.50	1.20	.9
	100	0.2	1.6	13	1	IRFL4310CT-ND	1.29	.97	.7
	100	0.2	1.6	13	1	IRFL4310TR-ND		1430.00/2,500	
	100	0.54	1.5	12	3.1	IRFL110-ND	.76	.61	.4
	100	0.54	1.5	12	3.1	IRFL110TR-ND		1022.50/2,500	
	200	1.5	0.96	7.7	3.1	IRFL210-ND	.65	.52	.3
	200	1.5	0.96	7.7	3.1	IRFL210TR-ND		875.00/2,500	
	250	2	0.79	6.3	3.1	IRFL214-ND	1.40	1.12	.8
						SOT-223 Logic Level			
	30	0.031	4.6	37	1	IRLL3303CT-ND	2.25	1.69	1.3
	30	0.031	4.6	37	1	IRLL3303TR-ND		2468.03/2,500	
	30	0.045	3.9	16	1	IRLL2703-ND	1.75	1.40	1.0
	55	0.04	3.8	30	2.1	IRLL2705-ND	1.75	1.40	1.0
	55	0.04	3.8	30	1	IRLL2705CT-ND	2.10	1.58	1.2
	55	0.04	3.8	30	1	IRLL2705TR-ND		2312.70/2,500	
	55	0.060	5.0	40	1.0	IRLL024Z-ND	1.40	.79	.5
6	55	0.065	3.1	12	2.1	IRLL024N-ND	.80	.64	.4
	55	0.14	2	16	2.1	IRLL014N-ND	.68	.54	.3
	55	0.14	2	16	2.1	IRLL014NTR-ND		1040.00/2,500	
	60	0.2	2.7	22	3.1	IRLL014-ND	.78	.62	.4
	60	0.2	2.7	22	3.1	IRLL014TR-ND		1842.50/2,500	
	100	0.54	1.5	12	3.1	IRLL110-ND	.60	.48	.3
	100	0.54	1.5	12	3.1	IRLL110TR-ND		850.00/2,500	
						SO-8			
	20	0.0134	10	82	2.0	IRF8910-ND	1.04	.65	.4
7A	20	0.0183	8.9	71	2.0	IRF8915-ND	1.36	.85	.5
	20	0.03	7.0	28	2.0	IRF7331-ND	1.37	.72	.4
	50	0.13	3.0	25	2.4	IRF7103Q-ND	.90	.53	.3
7C	30	0.0017	8.3	66	2.5	IRF7807VD2-ND	1.40	.80	.5
	20	0.009	12	100	2.5	IRF7459-ND	.66	.53	.4
	20	0.035	6.8	54	2.5	IRF7402-ND	1.63	1.30	.9
	20	.0044	20	160	2.5	IRF3717-ND	3.99	2.06	1.3
	30	0.0036	21	170	2.5	IRF7831-ND	2.30	1.31	1.0
	30	0.0036	21	170	2.5	IRF7831TR-ND		3576.00/4,000	
	30	0.004	20	160	2.5	IRF7832-ND	2.61	1.75	1.3
	30	0.004	20	160	2.5	IRF7832CT-ND	2.65	1.89	1.3
	30	0.004	20	160	2.5	IRF7832TR-ND		3904.00/4,000	
	30	0.0045	19	160	2.5	IRF7834-ND	1.87	1.24	.9
	30	0.005	18	150	3.1	IRF7822-ND	2.75	1.92	1.5
	30	0.006	16.6	133	2.5	IRF8113-ND	1.76	1.02	.8
	30	0.006	16.6	133	2.5	IRF8113TR-ND		2736.00/4,000	
	30	0.007	13.3	100	2.5	IRF7809AV-ND	1.45	.84	.6
	30	0.007	16	120	2.5	IRF7805Z-ND	1.61	1.06	.8
	30	0.008	14	110	2.5	IRF7458-ND	1.69	1.35	1.0
	30	0.008	14	110	2.5	IRF7477-ND	1.59	.92	.6
	30	0.0091	13.6	100	2.5	IRF7821-ND	1.64	1.07	.8
	30	0.0091	13.6	100	2.5	IRF7821TR-ND		2408.00/4,000	
7D	30	0.01	13	100	2.5	IRF7413Z-ND	1.75	1.15	.8
	30	0.011	10.8	100	2.5	IRF7811AV-ND	1.33	.70	.4
	30	0.011	13	100	2.5	IRF7805A-ND	1.81	1.03	.7
	30	0.011	13	100	2.5	IRF7805-ND	1.55	.99	.7
	30	0.011	13	100	2.5	IRF7805TR-ND		2392.00/4,000	
	30	0.014	11	88	2.5	IRF7807Z-ND	1.08	.71	.5
	30	0.017	8.3	66	2.5	IRF7807V-ND	1.19	.64	.4
	30	0.025	8.3	66	2.5	IRF7807A-ND	1.23	.66	.4
	30	0.03	7	37	2.5	IRF9410-ND	1.80	1.44	1.1
	40	0.010	14	110	2.5	IRF7484Q-ND	1.98	1.26	1.0
	40	0.013	10	83	2.5	IRF7471-ND	1.68	.96	.6
	40	0.013	10	85	1.6	IRF7470-ND	1.20	.96	.6
	40	0.017	9.0	73	2.5	IRF7469-ND	1.44	.78	.5
	60	0.026	4.2	56	2.5	IRF7478-ND	1.29	.68	.4
	80	0.015	9.3	74	2.5	IRF7493-ND	2.38	1.58	1.1
	100	0.022	7.3	58	2.5	IRF7495-ND	1.91	1.27	.8
	100	0.022	7.3	58	2.5	IRF7495PBF-ND† ***NEW!***	2.07	1.30	1.0
	100	0.022	7.3	58	2.5	IRF7495TRPBFCT-ND† ***NEW!***	2.01	1.30	1.0
	100	0.022	7.3	58	2.5	IRF7495TRPBFTR-ND† ***NEW!***		3188.00/4,000	
	100	0.026	6.9	55	2.5	IRF7473-ND	1.74	.99	.7

† Lead Free/RoHS Compliant

(Continu

N and P Channel Surface Mount HEXFETs *(Cont.)*

VDS (V)	RDS (on) (Ω)	ID Cont. (A) 25°C	IDM (A)	PD Max. (W)	Digi-Key Part No.	Price Each 1	10	100
100	0.06	4.5	36	2.5	IRF7452-ND	1.64	1.32	.99
150	0.044	5.2	42	3.0	IRF7494-ND	1.83	1.20	.92
150	0.044	5.2	42	3.0	IRF7494TRCT-ND	1.97	1.48	1.15
150	0.044	5.2	42	3.0	IRF7494TRTR-ND		3520.00/4,000	
150	0.09	3.6	29	2.5	IRF7451-ND	2.33	1.63	1.24
150	0.28	1.9	15	2.5	IRF7465-ND	1.67	.95	.79
200	0.079	3.7	30	2.5	IRF7492-ND	1.83	1.20	.92
200	0.079	3.7	30	2.5	IRF7492TRTR-ND		2864.00/4,000	
200	0.17	2.5	20	2.5	IRF7450-ND	2.24	1.57	1.19
200	0.73	1.2	10	2.5	IRF7464-ND	1.23	.98	.74
250	0.23	2.2	17	2.5	IRF7453-ND	1.67	.95	.79
300	0.4	1.6	13	2.5	IRF3000-ND	.83	.66	.50
20	0.0134	10	83	2.0	IRF9910-ND	1.94	1.22	.88
SO-8 Logic Level								
20	0.029	6.6	26	2.0	IRF7311-ND	1.03	.74	.61
20	0.029	6.6	26	2.0	IRF7311TR-ND		2208.00/4,000	
20	0.05	5.2	21	2.0	IRF7301-ND	.90	.72	.52
20	0.05	5.2	21	2.0	IRF7301TR-ND		1944.00/4,000	
30	0.029	6.5	30	2.5	IRF7313-ND	1.96	1.34	1.07
30	0.029	6.5	30	2.5	IRF7313TR-ND		3348.00/4,000	
30	0.05	4.9	20	2.0	IRF7303-ND	.97	.78	.56
30	0.05	4.9	20	2.0	IRF7303TR-ND		1980.00/4,000	
20	0.1	3.5	14	2.0	IRF7101-ND	2.14	1.41	1.08
20	0.1	3.5	14	2.0	IRF7101TR-ND		3360.00/4,000	
30	0.1	3.5	16	2.0	IRF9956-ND	1.63	1.30	.93
50	0.13	3.0	10	2.0	IRF7103-ND	1.04	.69	.53
50	0.13	3.0	10	2.0	IRF7103TR-ND		1648.00/4,000	
55	0.05	4.7	38	2.0	IRF7341-ND	1.41	.93	.71
55	0.05	4.7	38	2.0	IRF7341TR-ND		2296.00/4,000	
20	0.01	12	100	2.5	IRF7460-ND	1.63	1.30	.98
20	0.0065	16	130	2.5	IRF7456-ND	1.25	1.00	.72
20	0.0065	16	130	2.5	IRF7456TR-ND		2972.00/4,000	
20	0.007	15	120	2.5	IRF7457-ND	1.93	1.54	1.16
20	0.022	8.7	35	2.5	IRF7401-ND	.90	.72	.52
20	0.022	8.7	35	2.5	IRF7401TR-ND		1932.00/4,000	
28	0.012	11.4	100	2.5	IRF7811A-ND	3.00	2.04	1.61
28	0.012	11.4	100	2.5	IRF7811ATR-ND		3696.00/4,000	
30	0.0075	15	120	2.5	IRF7455-ND	1.53	1.22	.87
30	0.0075	15	120	2.5	IRF7455TR-ND		3296.00/4,000	
30	0.008	14	110	2.5	IRF7463-ND	1.40	1.12	.80
30	0.009	±12.5	±50	2.5	SI4420DY-ND	3.18	2.54	1.91
30	0.009	14	109	3.1	IRF7811W-ND	1.08	.86	.65
30	0.011	13	58	2.5	IRF7413-ND	1.32	.90	.72
30	0.011	13	58	2.5	IRF7413TR-ND		2248.00/4,000	
30	0.012	11	90	2.5	IRF7467-ND	1.88	1.50	1.13
30	0.0125	11	90	2.5	IRF7466-ND	1.88	1.50	1.13
30	0.0135	10	50	2.5	SI4410DY-ND	1.08	.87	.62
30	0.022	8.5	34	2.5	IRF7403-ND	.90	.72	.52
30	0.022	8.5	34	2.5	IRF7403TR-ND		1832.00/4,000	
30	0.03	7.3	58	2.5	IRF7201-ND	1.13	.75	.58
30	0.03	7.3	58	2.5	IRF7201TR-ND		1800.00/4,000	
40	0.015	9.4	75	2.5	IRF7468-ND	2.00	1.60	1.20
30	0.029	6.5	52	2.0	IRF7353D2-ND	1.33	1.06	.80
SO-8 "Fetky™" Mosfet and Schottky Diode								
30	0.028	6.2	48	2.0	IRF7901D1-ND	2.50	2.00	1.50
30	0.035	5.8	33	2.5	IRF7421D1-ND	1.08	.77	.63
30	0.029	6.5	52	2.0	IRF7353D1-ND	.86	.69	.47
30	0.029	6.5	52	2.0	IRF7353D1TR-ND		2432.00/4,000	
DirectFET™								
20	0.002	150	250	2.0	IRF6609CT-ND	3.23	2.16	1.73
20	0.002	150	250	2.0	IRF6609TR-ND		6662.40/4,800	
20	0.0025	32	260	2.8	IRF6691CT-ND	4.17	2.98	2.39
20	0.0025	32	260	2.8	IRF6691TR-ND		9120.00/4,800	

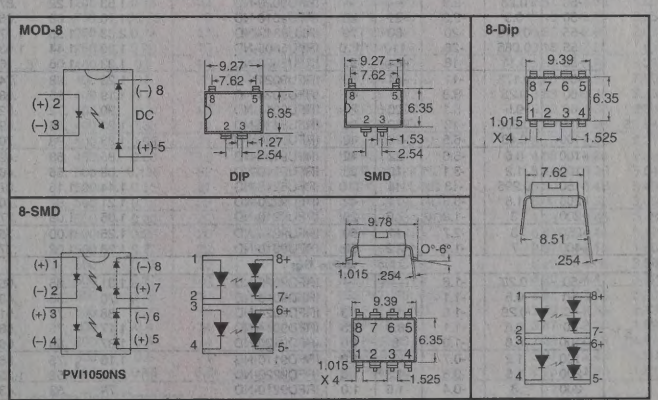
Fig.	VDS (V)	RDS (on) (Ω)	ID Cont. (A) 25°C	IDM (A)	PD Max. (W)	Digi-Key Part No.	Price Each 1	10	100
13A	20	0.0027	27	220	2.8	IRF6620CT-ND	2.47	1.68	1.28
	20	0.0027	27	220	2.8	IRF6620TR-ND		4742.40/4,800	
	20	0.0057	16	120	2.1	IRF6623CT-ND	1.74	1.15	.87
	20	0.0057	16	120	2.1	IRF6623TR-ND		3216.00/4,800	
	30	0.002	150	210	2.8	IRF6618CT-ND	3.68	2.46	2.04
	30	0.002	150	210	2.8	IRF6618TR-ND		7742.40/4,800	
	30	0.0033	24	190	2.8	IRF6612CT-ND	2.72	1.84	1.43
	30	0.0033	24	190	2.8	IRF6612TR-ND		5419.20/4,800	
	30	0.0033	27	220	3.6	IRF6607CT-ND	3.42	2.37	1.92
	30	0.0033	27	220	3.6	IRF6607TR-ND		7435.20/4,800	
	30	0.0039	28	200	3.6	IRF6603CT-ND	3.22	2.23	1.81
	30	0.0039	28	200	3.6	IRF6603TR-ND		7012.80/4,800	
	30	0.0062	14	120	2.1	IRF6617CT-ND	5.35	3.03	1.96
	30	0.0062	14	120	2.1	IRF6617TR-ND		6475.20/4,800	
	30	0.009	55	100	2.1	IRF6608CT-ND	2.38	1.56	1.32
	30	0.009	55	100	2.1	IRF6608TR-ND		5078.40/4,800	
	40	0.0041	150	180	89	IRF6613TR1CT-ND ***NEW!***	3.08	2.27	1.76
	40	0.0041	150	180	89	IRF6613TR1TR-ND ***NEW!***		1512.00/1,000	
13B	30	0.0115	12	92	2.3	IRF6604CT-ND	2.46	1.69	1.34
	30	0.0115	12	92	2.3	IRF6604TR-ND		5116.80/4,800	
MTP									
14	500	0.21	31	124	1140	19MT050XF-ND	55.50	45.00	37.50
Dual N- and P- Channel									
Micro-8 Logic Level									
5C	30/ -30	0.11/ -0.2	2.7/ -2.0	21/ -16	1.25	IRF7509CT-ND	.78	.59	.45
	30/ -30	0.11/ -0.2	2.7/ -2.0	21/ -16	1.25	IRF7509TR-ND		1404.00/4,000	
	20/ -20	.135/ -.27	2.4/ -1.7	19/ -14	1.25	IRF7507CT-ND	2.10	1.58	1.23
	20/ -20	.135/ -.27	2.4/ -1.7	19/ -14	1.25	IRF7507TR-ND		3780.00/4,000	
SO-8									
7A	30/ -30	0.029/ -0.058	6.5/ -4.9	30/ -30	2	IRF7319-ND	2.88	2.30	1.64
	20/ -20	0.029/ -0.058	6.6/ -5.3	26/ -21	2	IRF7317-ND	1.03	.82	.59
	20/ -20	0.029/ -0.058	6.6/ -5.3	26/ -21	2	IRF7317TR-ND		6212.00/4,000	
SO-8 Logic Level									
7A	20/ -20	0.05/ -0.090	5.2/ -4.3	21/ -17	2	IRF7307-ND	.88	.70	.50
	20/ -20	0.05/ -0.090	5.2/ -4.3	21/ -17	2	IRF7307TR-ND		1780.00/4,000	
	25/ -25	.10/ -.25	3.5/ -2.3	14/ -10	2.0	IRF7105-ND	1.03	.68	.53
	30/ -30	0.05/ -0.10	4.0/ -3.0	16/ -12	1.4	IRF7309-ND	.95	.76	.55
	30/ -30	0.05/ -0.10	4.0/ -3.0	16/ -12	1.4	IRF7309TR-ND		1788.00/4,000	
	30/ -30	0.10/ -0.25	3.5/ -2.3	16/ -10	2	IRF9952-ND	1.83	1.46	1.04
	55/ -55	0.043/ -0.056	4.7/ -3.4	38/ -27	2	IRF7343-ND	1.25	1.00	.72
	55/ -55	0.043/ -0.056	4.7/ -3.4	38/ -27	2	IRF7343TR-ND		2700.00/4,000	
7G	30/ -30	0.029/ -0.058	7.3/ -5.3	30/ -30	2.5	IRF7389-ND	2.64	2.12	1.51
	30/ -30	0.045/ -0.090	5.8/ -4.3	46/ -34	2.5	IRF7379-ND	3.00	2.40	1.71

† Lead Free/RoHS Compliant

hotovoltaic olators

The PhotoVoltaic isolator (PVI) generates an electrically isolated DC voltage upon receipt of a DC input signal. The PVI is ideally suited for driving power MOSFETs, IGBTs or sensitive gate SCRs to form solid state relays.

Input Circuit Imin (mA)	Imax (mA)	Output Circuit Vout (dc)	Imin (µA)	Ton/Toff Max.	Package	Digi-Key Part No.	Price Each 1	10	100
5.0	40	8.0	10	5/0.25ms	8-Dip	PVI5013R-ND	6.02	4.30	3.44
5.0	40	8.0	10	5/0.25ms	8-SMD	PVI5013RS-ND	6.10	4.36	3.49
5.0	40	40	10	2.5/0.5ms	8-Dip	PVI5033R-ND	6.77	4.80	3.82
5.0	40	40	10	2.5/0.5ms	8-SMD	PVI5033RS-ND	6.82	4.84	3.85
2.0	50	8.0	10	3/0.22ms	MOD-8-Dip	PVI5050N-ND	4.65	3.26	2.54
2.0	50	8.0	10	3/0.22ms	MOD-8-Dip	PVI5080N-ND	4.45	3.18	2.58
2.0	50	8.0	10	16/.22ms	8-Dip	PVI1050N-ND	6.05	4.51	3.76
2.0	50	8.0	10	3/0.22ms	8-SMD	PVI1050NS-ND	6.10	4.40	3.66
2.0	50	8.0	10	3/0.22ms	MOD-8-SMD	PVI5050NS-ND	4.71	3.30	2.57
2.0	50	8.0	10	3/0.22ms	MOD-8-SMD	PVI5080NS-ND	4.43	3.06	2.58



N and P Channel HEXFETs

Electrical characteristics at 25°C unless otherwise no
Dimensions shown in

Fig. 1 — TO-220AB

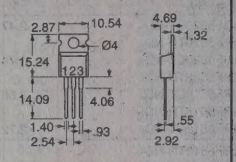


Fig. 2 — TO-220 Fullpak

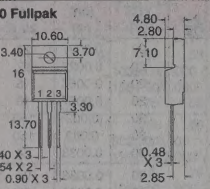


Fig. 3 — TO-247AC

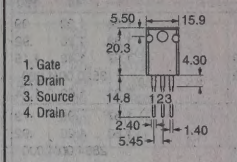


Fig. 4 — TO-262

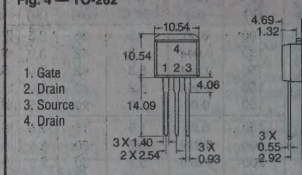


Fig. 5 — I-Pak

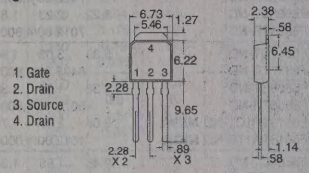


Fig. 6 — 4-Pin Dip (HEXDIP®)

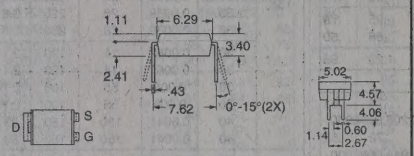


Fig. 7 — Super-220™

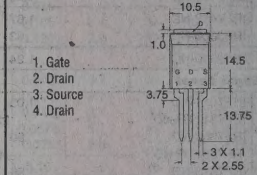


Fig. 8 — TO-220-5

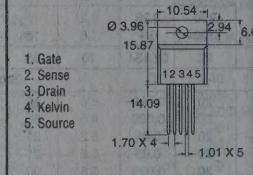


Fig.	VDS (V)	RDS (on) (Ω)	ID Cont. (A) 25°C	IDM (A)	PD Max. (W)	Digi-Key Part No.	Price Each 1	10	100
P-CHANNEL TYPES									
TO-220AB									
	-50	0.28	-9.7	—	—	IRF9Z20-ND	1.18	.95	.68
	-50	0.14	-18	—	—	IRF9Z30-ND	1.28	1.03	.74
	-55	0.02	-64	-260	150	IRF4905-ND	3.21	2.36	1.95
	-55	0.06	-31	-110	110	IRF5305-ND	1.84	1.21	.94
	-55	0.1	-17	-68	56	IRF9Z34N-ND	1.72	1.14	.89
	-55	0.175	-12	-48	45	IRF9Z24N-ND	.93	.66	.55
	-60	0.28	-11	-44	60	IRF9Z24-ND	.99	.79	.57
	-60	0.5	-6.7	-27	43	IRF9Z14-ND	.91	.65	.54
	-100	0.06	-35	-140	150	IRF5210-ND	1.91	1.33	1.07
1	-100	0.117	-19	-76	94	IRF9540N-ND	2.02	1.38	1.09
	-100	0.2	-13	-56	75	IRF9530N-ND	1.19	.85	.70
	-100	0.48	-6.8	-27	48	IRF9520N-ND	1.04	.83	.63
	-100	1.2	-3	-12	20	IRF9510-ND	1.16	.75	.58
	-150	0.29	-11	-44	83	IRF6215-ND	2.09	1.37	1.05
	-200	0.5	-6.1	-24	40	IRFI9640G-ND	2.66	2.13	1.60
	-200	0.5	-11	-44	125	IRF9640-ND	1.90	1.31	1.04
	-200	0.8	-6.5	-26	75	IRF9630-ND	1.56	1.05	.82
	-200	1.5	-3.5	-14	40	IRF9620-ND	.89	.63	.52
	-200	3	-1.75	-7	20	IRF9610-ND	.82	.59	.49
	-200	3	-1.9	—	—	IRFI9610G-ND	1.45	1.16	.87
TO-220 Fullpak									
	-55	0.015	-14	-60	33	IRLIB9343-ND	2.48	1.65	1.25
	-60	0.14	-12	-48	42	IRFI9Z34G-ND	2.03	1.63	1.17
	-60	0.5	-5.3	-21	27	IRFI9Z14G-ND	1.15	.92	.69
2	-100	0.3	-7.7	-31	42	IRFI9530G-ND	1.78	1.43	1.02
	-100	0.117	-13	-44	48	IRFI9540G-ND	3.25	2.60	1.86
	-200	0.8	-4.3	-17	35	IRFI9630G-ND	2.22	1.78	1.28
	-200	1.5	-3	-12	30	IRFI9620G-ND	2.00	1.60	1.14
	-250	1	-4.1	-16	35	IRFI9634G-ND	2.03	1.62	1.22
TO-247AC									
	-100	0.117	-23	-76	140	IRFP9140N-ND	2.99	2.39	1.71
3	-100	0.2	-21	—	180	IRFP9140-ND	2.67	1.89	1.56
	-200	0.5	-12	—	150	IRFP9240-ND	3.81	2.70	2.23
TO-262									
	-55	0.02	-74	-260	200	IRF4905L-ND	2.45	1.96	1.40
	-55	0.06	-31	-110	3.8	IRF5305L-ND	2.00	1.60	1.20
	-55	0.1	-19	-68	3.8	IRF9Z34NL-ND	2.15	1.72	1.29
	-55	0.28	-12	-48	3.8	IRF9Z24NL-ND	1.52	1.22	.92
	-60	0.5	-6.7	-27	3.7	IRF9Z14L-ND	1.42	1.14	.86
	-100	0.06	-40	-140	3.8	IRF5210L-ND	3.70	2.96	2.22
4	-100	0.11	-23	-76	3.8	IRF9540NL-ND	2.93	2.34	1.76
	-100	0.2	-14	-56	3.8	IRF9530NL-ND	2.02	1.62	1.22
	-100	1.2	-4.0	-16	43	IRF9510L-ND	1.46	1.17	.88
	-150	0.29	-13	-44	3.8	IRF6215L-ND	1.75	1.40	1.05
	-200	0.5	-11	-44	125	IRF9640L-ND	3.10	2.48	1.87
	-200	0.8	-6.5	-26	74	IRF9630L-ND	2.09	1.68	1.26
	-200	3	-1.8	-7	20	IRF9610L-ND	1.42	1.14	.85
I-Pak									
	-50	0.28	-9.9	—	—	IRFU9020-ND	1.53	1.22	.87
	-50	0.5	-5.3	-21	25	IRFU9010-ND	1.10	.88	.66
	-55	0.015	-20	-60	79	IRLU9343-ND	2.33	1.55	1.17
	-55	0.065	-28	-110	110	IRFU5305-ND	1.80	1.44	1.03
	-55	0.11	-18	-64	57	IRFU5505-ND	1.33	1.06	.76
	-55	0.175	-11	-44	38	IRFU9024N-ND	1.23	.98	.74
	-60	0.28	-8.8	-35	42	IRFU9024-ND	1.19	.95	.68
	-60	0.5	-5.1	-20	25	IRFU9014-ND	.90	.72	.52
5	-100	0.205	-13	-52	66	IRFU5410-ND	1.23	.66	.59
	-100	0.48	-6.5	-26	40	IRFU9120N-ND	1.23	.98	.70
	-100	0.6	-5.6	-22	42	IRFU9120-ND	.85	.68	.49
	-100	1.2	-3.1	-12	25	IRFU9110-ND	.69	.55	.40
	-150	0.295	-13	-44	110	IRFU6215-ND	1.44	1.16	.87
	-200	1.5	-3.6	-14	42	IRFU9220-ND	1.21	.97	.70
	-200	3	-1.9	-7.6	25	IRFU9210-ND	1.35	1.08	.77
	-250	3	-2.7	-11	50	IRFU9214-ND	1.25	1.00	.75
	-400	7	-1.8	-7.2	50	IRFU9310-ND	1.28	1.02	.77
4-Pin Dip									
	-50	0.28	-1.6	—	—	IRFD9020-ND	1.31	.85	.65
	-50	0.5	-1.1	—	—	IRFD9010-ND	.70	.56	.40
	-60	0.28	-1.6	-13	1.3	IRFD9024-ND	.88	.71	.51
6	-60	0.5	-1.1	-8.8	1.3	IRFD9014-ND	1.17	.75	.56
	-100	0.6	-1.0	-8	1.0	IRFD9120-ND	1.37	.89	.68
	-100	1.2	-0.7	-3	1.0	IRFD9110-ND	1.16	.75	.56
	-200	1.5	-0.6	-4.8	1.0	IRFD9220-ND	2.14	1.52	1.25
	-200	3	-0.4	-1.6	1.0	IRFD9210-ND	.74	.53	.43

Fig.	VDS (V)	RDS (on) (Ω)	ID Cont. (A) 25°C	IDM (A)	PD Max. (W)	Digi-Key Part No.	Price Each 1	10
N-CHANNEL TYPES								
TO-220AB								
	20	0.006	92	380	79	IRF3711Z-ND	1.73	1.11
	20	0.006	110	440	120	IRF3711-ND	1.84	1.05
	20	0.0085	77	280	88	IRF3706-ND	1.55	1.24
	20	0.011	50	200	45	IRL3715Z-ND	1.61	1.04
	20	0.014	54	210	71	IRL3715-ND	1.56	.92
	20	0.016	36	140	35	IRL3714Z-ND	1.54	1.02
	20	0.02	36	140	47	IRL3714-ND	.94	.56
	20	0.09	77	308	87	IRF3704-ND	1.40	1.12
	30	0.0028	210	1000	230	IRF3703-ND	4.87	3.37
	30	0.006	105	420	110	IRL8113-ND	1.95	1.26
	30	0.006	140	470	2000	IRL3803-ND	3.35	2.38
	30	0.009	90	360	120	IRF3709-ND	1.78	1.01
	30	0.0095	59	230	57	IRF3707Z-ND	1.40	.90
	40	0.0023	280	1080	330	IRF2804-ND	3.33	2.22
	40	0.0037	75	750	220	IRF1404Z-ND	2.35	1.65
	40	0.0031	75	790	230	IRL1404Z-ND	3.34	2.34
	40	0.0055	75	470	140	IRF4104-ND	3.12	2.02
	40	0.009	100	400	170	IRF1104-ND	2.43	1.94
	50	0.2	7.2	29	20	IRFZ10-ND	1.12	.90
	50	0.028	35	—	—	IRFZ40-ND	1.51	1.21
	50	0.05	30	—	—	IRFZ30-ND	1.25	1.00
	55	0.0033	75	890	130	IRF3805-ND **NEW!**	5.18	3.70
	55	0.005	75	600	230	IRF1405Z-ND	4.82	3.38
	55	0.0053	169	680	330	IRF1405-ND	4.13	3.30
	55	0.0075	75	360	140	IRF1010Z-ND	2.94	1.90
	55	0.007	75	440	170	IRF3205Z-ND	2.03	1.38
	55	0.008	75	340	130	IRL3705Z-ND	2.37	1.54
	55	0.008	75	560	330	IRF3305-ND	3.19	1.96
	55	0.008	98	390	150	IRF3205-ND	2.87	2.09
	55	0.011	61	240	91	IRFZ48Z-ND	1.89	1.21
	55	0.012	85	290	130	IRF1010N-ND	2.06	1.46
	55	0.0135	51	204	80	IRLZ44Z-ND	1.81	1.19
	55	0.0136	51	200	82	IRFZ46Z-ND	1.76	1.12
	55	0.0139	51	200	80	IRFZ44Z-ND	1.83	1.21
	55	0.016	64	210	94	IRFZ48N-ND	1.64	1.16
	55	0.02	46	180	88	IRFZ46N-ND	1.58	1.06
	55	0.022	41	160	83	IRLZ44N-ND	1.74	1.15
1	55	0.024	49	160	83	IRFZ44N-ND	1.66	1.09
	55	0.04	26	100	56	IRFZ34N-ND	1.24	.81
	55	0.074	18	72	45	IRLZ24N-ND	1.26	.82
	60	0.0085	75	340	140	IRF1010EZ-ND	1.64	1.16
	60	0.009	115	360	270	IRFB4215-ND	3.25	2.00
	60	0.012	57	230	92	IRFZ44VZ-ND	1.89	1.21
	60	0.012	72	290	150	IRFZ48V-ND	1.05	.84
	60	0.012	84	330	200	IRF1010E-ND	2.75	1.95
	60	0.0165	55	220	115	IRFZ44V-ND	.98	.78
	60	0.018	50	290	190	IRFZ48R-ND	2.21	1.43
	60	0.028	48	192	110	IRFZ44E-ND	2.12	1.39
	60	0.028	50	200	150	IRFZ44R-ND	1.84	1.05
	60	0.042	28	112	68	IRFZ34E-ND	1.25	.89
	60	0.05	30	120	88	IRFZ34-ND	1.25	1.00
	60	0.2	10	40	36	IRFZ14-ND	1.11	.70
	75	0.0045	180	720	330	IRFB3207-ND **NEW!**	4.51	3.28
	75	0.0045	180	720	330	IRFB3207PBF-ND† **NEW!**	4.51	3.28
	75	0.0063	130	510	250	IRFB3307-ND **NEW!**	3.39	2.46
	75	0.0063	130	510	250	IRFB3307PBF-ND† **NEW!**	3.39	2.46
	75	0.0075	142	570	380	IRF1607-ND	4.31	3.08
	75	0.0078	130	520	330	IRF1407-ND	2.60	1.81
	75	0.0088	97	390	190	IRFB3507-ND **NEW!**	3.21	2.36
	75	0.0088	97	390	190	IRFB3507PBF-ND† **NEW!**	3.21	2.36
	75	0.009	75	350	170	IRF2807Z-ND	3.77	2.56
	75	0.013	71	280	150	IRF2807-ND	3.38	2.32
	100	0.007	140	550	330	IRFB4310-ND **NEW!**	5.21	3.72
	100	0.01	96	380	250	IRFB4410-ND **NEW!**	3.68	2.67
	100	0.01	96	380	250	IRFB4410PBF-ND† **NEW!**	1.46	.92
	100	0.014	73	290	190	IRFB4610-ND **NEW!**	3.18	2.34
	100	0.014	73	290	190	IRFB4610PBF-ND† **NEW!**	3.18	2.34
	100	0.025	59	236	200	IRFB59N10D-ND	2.43	1.95
	100	0.0265	36	140	92	IRF540Z-ND	1.52	.99
	100	0.028	46	180	150	IRF3710-ND	3.09	2.23
	100	0.036	36	140	120	IRF1310N-ND	2.01	1.43
	100	0.052	27	110	94	IRF540NIR-ND	1.74	1.16
	100	0.077	28	110	150	IRF540IR-ND	1.38	.93
	100	0.11	15.0	60	63	IRF530NIR-ND	.86	.56
	100	0.2	9.7	38	48	IRF520N-ND	.88	.71

† Lead Free/RoHS Compliant

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N and P Channel HEXFETs *(Cont.)*

Fig.	VDS (V)	RDS (on) (Ω)	ID Cont. (A) 25°C	IDM (A)	PD Max. (W)	Digi-Key Part No.	Price Each 1	10	100
	100	0.27	9.2	37	60	IRF520IR-ND	1.33	1.06	.93
	100	0.6	4.0	16	20	IRF510-ND	1.08	.68	.50
	150	0.032	60	250	2.4	IRFB61N15D-ND	3.63	2.55	1.98
	150	0.042	37	150	150	IRF3415-ND	3.19	2.26	1.87
	150	0.045	41	164	200	IRFB41N15D-ND	2.45	1.97	1.48
	150	0.056	33	130	170	IRFB33N15D-ND	1.80	1.44	1.08
	150	0.082	21	84	94	IRF3315-ND	1.42	1.01	.83
	150	0.09	23	92	136	IRFB23N15D-ND	1.60	1.28	.96
	200	0.04	56	220	380	IRFB260N-ND	3.90	2.73	2.13
	200	0.082	31	124	200	IRFB31N20D-ND	2.41	1.93	1.45
	200	0.1	24	96	170	IRFB23N20D-ND	1.91	1.53	1.15
	200	0.15	18	72	150	IRF640N-ND	1.99	1.30	1.00
	200	0.17	16	64	140	IRFB17N20D-ND	1.46	1.17	.88
	200	0.3	9.3	37	82	IRF630N-ND	1.05	.84	.74
	200	0.8	5	20	40	IRF620IR-ND	1.14	.74	.57
	200	1.5	2.5	10	20	IRF610-ND	.65	.46	.38
	250	0.24	14	56	150	IRF644N-ND	1.45	.84	.70
	250	0.28	14	56	125	IRF644-ND	1.72	1.19	.95
	250	0.45	8.1	32	74	IRF634-ND	1.08	.86	.62
	250	1.1	4.4	14	50	IRF624-ND	1.06	.69	.53
	250	2	2.7	8	36	IRF614-ND	1.15	.92	.66
	300	0.45	9.3	37	96	IRFB9N30A-ND	1.33	1.06	.64
	300	0.75	6.1	24	74	IRF737LC-ND	1.28	1.03	.77
	400	0.55	10	40	125	IRF740IR-ND	2.03	1.37	1.07
	400	0.55	10	40	125	IRF740A-ND	1.86	1.26	.98
	400	0.55	10	40	125	IRF740LC-ND	2.43	1.95	1.46
	400	1	5.5	22	74	IRF730IR-ND	1.59	1.04	.80
	400	1	5.5	22	74	IRF730A-ND	1.15	.92	.66
1	400	1.8	3	12	40	IRF720-ND	1.33	.85	.64
	400	3.6	1.5	6	20	IRF710-ND	1.11	.70	.53
	450	0.63	8.8	35	125	IRF744-ND	1.83	1.47	1.05
	450	1.2	4.9	20	74	IRF734-ND	1.90	1.52	1.08
	500	0.26	17	68	220	IRFB18N50K-ND	4.37	3.03	2.55
	500	0.285	17	68	280	IRFB16N50K-ND	5.22	3.73	2.99
	500	0.45	14	56	250	IRFB13N50A-ND	3.69	2.59	2.02
	500	0.52	11	44	170	IRFB11N50A-ND	1.73	1.38	.97
	500	0.85	8	28	125	IRF840LC-ND	2.80	2.24	1.60
	500	0.85	8	32	125	IRF840IR-ND	2.05	1.38	1.08
	500	0.85	8	32	125	IRF840A-ND	1.56	1.25	.89
	500	1.4	5	20	74	IRF830A-ND	1.53	1.22	.87
	500	1.5	4.5	18	75	IRF830IR-ND	1.50	.99	.76
	500	3	2.5	10	40	IRF820IR-ND	.89	.64	.53
	500	3	2.5	10	50	IRF820A-ND	1.26	1.01	.76
	600	0.75	9.2	37	170	IRFB9N60A-ND	1.70	1.36	.97
	600	1.2	6.2	25	125	IRFBC40-ND	1.66	1.33	.95
	600	1.2	6.2	25	125	IRFBC40A-ND	1.65	1.32	.94
	600	1.2	6.2	25	130	IRFBC40LC-ND	3.95	3.16	2.37
	600	2.2	3.6	14	74	IRFBC30-ND	1.15	.82	.68
	600	2.2	3.6	14	74	IRFBC30A-ND	2.98	2.02	1.59
	600	4.4	2.2	6.8	50	IRFBC20-ND	1.99	1.42	1.17
	650	0.93	8.5	21	167	IRFB9N65A-ND	2.18	1.75	1.27
	800	3	4.1	—	125	IRFBE30-ND	2.24	1.53	1.21
	800	6.5	1.8	—	54	IRFBE20-ND	1.88	1.33	1.10
	900	3.7	3.6	—	125	IRFBF30-ND	3.33	2.37	1.95
	900	8	1.7	—	54	IRFBF20-ND	1.41	1.01	.83
	1000	5	3.1	—	125	IRFBG30-ND	2.04	1.45	1.19
	1000	11	1.4	—	54	IRFBG20-ND	1.64	1.17	.96
						TO-220AB Logic Level			
	20	0.007	110	420	140	IRL3502-ND	2.70	2.16	1.54
	20	0.01	85	340	110	IRL3402-ND	2.15	1.72	1.29
	20	0.013	61	240	89	IRL3102-ND	1.70	1.36	.97
	20	0.016	48	190	69	IRL3202-ND	1.42	1.14	.82
	20	0.02	39	160	57	IRL3302-ND	1.45	1.16	.84
	30	0.006	120	470	150	IRL3803-ND	3.35	2.38	1.96
	30	0.007	116	400	130	IRL2203N-ND	2.90	1.97	1.55
	30	0.012	62	248	87	IRF3708-ND	1.40	1.12	.84
	30	0.0125	62	248	87	IRF3707-ND	1.40	1.12	.84
	30	0.014	64	220	89	IRL3103D1-ND	3.60	2.55	2.10
	30	0.014	64	220	110	IRL3103-ND	1.63	1.16	.96
	30	0.026	34	140	68	IRL3303D1-ND	1.50	1.20	.90
	30	0.026	38	140	68	IRL3303-ND	1.82	1.30	1.07
	30	0.04	24	96	45	IRL2703-ND	.70	.56	.42
	40	0.004	160	640	200	IRL1404-ND	2.20	1.76	1.32
	40	0.0065	130	520	200	IRL1004-ND	3.67	2.94	2.10
	40	0.008	104	416	167	IRL1104-ND	2.30	1.84	1.38
	55	0.008	104	360	200	IRL2505-ND	6.50	5.20	3.71
	55	0.01	89	310	130	IRL3705N-ND	2.60	1.85	1.52
	60	0.028	50	200	150	IRLZ44-ND	1.77	1.17	.91
	60	0.2	10	40	43	IRLZ14-ND	1.17	.74	.55
	100	0.026	55	190	200	IRL2910-ND	4.26	3.41	2.44
	100	0.044	36	120	94	IRL540N-ND	2.02	1.36	1.06
	100	0.1	15	60	63	IRL530N-ND	1.53	.99	.75
	100	0.18	10	35	47	IRL520N-ND	.71	.51	.42
	100	0.54	5.6	16	43	IRL510-ND	1.19	.75	.55
	150	0.166	12	48	80	IRL3215-ND	.92	.74	.56
	200	0.18	17	68	125	IRL640-ND	2.02	1.37	1.07
	200	0.4	9	36	74	IRL630-ND	1.88	1.50	1.07
	200	0.8	5.2	21	50	IRL620-ND	1.45	1.16	.83
						TO-220 Fullpak			
	30	0.006	76	470	63	IRLI3803-ND	7.08	5.02	4.13
	30	0.007	61	400	47	IRLI2203N-ND	3.72	2.64	2.17
	55	0.008	58	360	63	IRLI2505-ND	6.70	5.36	4.02
	55	0.008	64	390	63	IRFI3205-ND	6.36	4.51	3.71
	55	0.01	52	310	58	IRLI3705N-ND	3.72	2.64	2.17
	55	0.012	49	290	58	IRFI1010N-ND	3.36	2.38	1.96
	55	0.016	36	210	42	IRFIZ48N-ND	1.74	1.24	1.02
	55	0.02	33	180	45	IRFIZ46N-ND	1.89	1.34	1.11
2	55	0.022	30	160	45	IRLIZ44N-ND	1.85	1.31	1.08
	55	0.024	31	160	45	IRFIZ44N-ND	1.55	1.10	.91
	55	0.035	22	110	37	IRLIZ34N-ND	1.49	1.06	.87
	55	0.04	19	100	21	IRFIZ34N-ND	1.20	.85	.70
	55	0.042	19	80	39	IRLIB4343-ND	2.48	1.65	1.25
	55	0.06	14	72	26	IRLIZ24N-ND	1.44	1.02	.84
	55	0.07	13	—	26	IRFIZ24N-ND	1.08	.77	.63
	60	0.042	21	100	37	IRFIZ34E-ND	1.63	1.16	.96
	60	0.05	20	80	42	IRFIZ34G-ND	1.43	1.14	.81
	60	0.082	30	120	48	IRFIZ44G-ND	2.35	1.88	1.20
	60	0.1	14	56	37	IRFIZ24G-ND	1.44	1.16	.83
	60	0.2	8	32	27	IRFIZ14G-ND	1.08	.87	.63
	100	0.036	22	140	45	IRFI1310N-ND	2.24	1.59	1.31
	100	0.044	20	120	42	IRLI540N-ND	1.97	1.40	1.15
	100	0.052	20	110	42	IRFI540N-ND	1.69	1.20	.99
	100	0.077	17	68	48	IRFI540G-ND	1.95	1.56	1.11
	100	0.1	11	60	33	IRLI530N-ND	1.80	1.17	.89
	100	0.11	11	60	33	IRFI530N-ND	1.37	.97	.80
	100	0.16	9.7	39	42	IRFI530G-ND	1.55	1.24	.89
	100	0.16	9.7	39	42	IRLI530G-ND	1.56	1.25	.89
	100	0.18	7.7	35	27	IRLI520N-ND	1.20	.85	.70
	100	0.27	7.2	29	37	IRLI520G-ND	1.18	.95	.68
	100	0.54	4.5	18	27	IRFI510G-ND	1.20	.96	.68
	200	0.18	9.8	39	40	IRFI640G-ND	2.04	1.63	1.17
	100	0.2	7.2	38	27	IRFI520N-ND	1.22	.87	.72
	200	0.4	5.9	24	35	IRFI630G-ND	1.53	1.22	.88
	200	0.8	4.1	16	30	IRFI620G-ND	1.13	.91	.65
	200	0.8	4.1	16	30	IRLI620G-ND	1.58	1.26	.90
	250	0.28	7.9	32	40	IRFI644G-ND	3.23	2.58	1.84
	250	0.45	5.6	22	35	IRFI634G-ND	1.63	1.30	.93
	250	1.1	3.4	14	30	IRFI624G-ND	1.58	1.26	.90
2	250	2	2.1	8.4	23	IRFI614G-ND	1.25	1.00	.71
	400	0.55	5.4	22	40	IRFI740G-ND	2.09	1.68	1.26
	400	0.55	5.7	23	40	IRFI740GLC-ND	2.54	2.04	1.53
	400	1	3.7	15	35	IRFI730G-ND	1.55	1.24	.89
	400	1.8	2.6	10	30	IRFI720G-ND	1.60	1.28	1.12
	450	0.63	4.9	20	40	IRFI744G-ND	2.49	2.00	1.43
	450	1.2	3.4	14	35	IRFI734G-ND	2.50	2.00	1.50
	500	0.29	6.7	27	45	IRFIB8N50K-ND	6.35	4.87	3.50
	500	0.52	6.6	44	60	IRFIB7N50A-ND	2.18	1.74	1.24
	500	0.85	4.6	18	40	IRFI840G-ND	2.32	1.86	1.33
	500	0.85	4.5	18	40	IRFI840GLC-ND	2.77	2.22	1.59
	500	1.5	3.1	12	35	IRFI830G-ND	1.61	1.29	.92
	500	3	2.1	8.4	30	IRFI820G-ND	2.25	1.80	1.29
	600	0.75	5.5	37	60	IRFIB6N60A-ND	2.15	1.72	1.23
	600	1.2	3.5	14	40	IRFIBC40G-ND	2.55	2.04	1.46
	600	1.2	3.5	14	40	IRFIBC40GLC-ND	4.07	3.26	2.45
	600	2.2	2.5	10	35	IRFIBC30G-ND	2.60	2.08	1.49
	600	4.4	1.7	6.8	30	IRFIBC20G-ND	2.20	1.76	1.26
	650	0.93	5.1	21	60	IRFIB5N65A-ND	2.55	2.04	1.47
	800	3	2.1	8.5	35	IRFIBE30G-ND	2.30	1.84	1.32
	800	6.5	1.4	5.6	30	IRFIBE20G-ND	2.38	1.91	1.37
	900	3.7	1.9	7.6	35	IRFIBF30G-ND	3.28	2.63	1.88
	900	8	1.2	4.8	30	IRFIBF20G-ND	1.87	1.50	1.08
						TO-220 Fullpak Logic Level			
	60	0.2	8.0	32	27	IRLIZ14G-ND	1.19	.96	.72
2	60	0.028	30	120	48	IRLIZ44G-ND	2.25	1.80	1.28
	100	0.026	31	190	63	IRLI2910-ND	4.00	3.20	2.40
	200	0.18	9.9	40	40	IRLI640G-ND	2.16	1.73	1.24
	200	0.4	6.2	25	35	IRLI630G-ND	1.62	1.30	.93
						SUPER TO-220 Logic Level			
7	30	0.005	179	720	270	IRLBA3803P-ND	4.08	3.26	2.45
	40	0.004	185	740	300	IRLBA1304P-ND	7.15	5.72	4.29
						TO-220-5 Current Sense			
	60	0.028	50	210	150	IRCZ44-ND	2.71	2.17	1.55
	100	0.077	28	110	150	IRC540-ND	2.68	2.14	1.53
	100	0.16	14	56	88	IRC530-ND	2.20	1.76	1.26
	200	0.18	18	72	125	IRC640-ND	4.06	3.25	2.32
	200	0.4	9.0	36	74	IRC630-ND	2.55	2.04	1.53
8	250	0.28	14.0	56	125	IRC644-ND	2.43	1.95	1.46
	250	0.45	8.1	32	74	IRC634-ND	2.35	1.88	1.41
	400	0.55	10.0	40	125	IRC740-ND	2.99	2.40	1.80
	400	1	5.5	22	74	IRC730-ND	2.88	2.31	1.73
	500	0.85	8.0	32	125	IRC840-ND	3.65	2.92	2.19
	500	1.5	4.5	18	74	IRC830-ND	2.48	1.98	1.49
						TO-247AC			
	30	0.0028	210	1000	230	IRFP3703-ND	5.58	3.86	3.25
	55	0.008	98	390	150	IRFP064N-ND	13.20	9.35	7.70
	55	0.012	72	290	130	IRFP054N-ND	1.84	1.35	1.11
	55	0.016	64	210	140	IRFP048N-ND	4.37	3.10	2.55
	55	0.024	49	180	100	IRFP044N-ND	2.63	1.82	1.46
	55	0.0053	95	640	310	IRFP1405-ND	5.63	3.86	3.34
	60	0.009	70	520	300	IRFP064-ND	13.77	11.02	7.88
	60	0.014	70	360	230	IRFP054-ND	3.74	2.99	2.14
	75	0.0045	209	840	470	IRFP2907-ND	6.60	4.76	3.96
	100	0.025	57	180	200	IRFP3710-ND	6.25	5.00	3.57
	100	0.036	39	140	140	IRFP150N-ND	1.56	1.11	.91
	100	0.052	27	110	94	IRFP140N-ND	2.30	1.63	1.35
	100	0.055	41	160	230	IRFP150-ND	3.20	2.31	1.89
	150	0.042	43	150	200	IRFP3415-ND	3.45	2.41	1.86
	200	0.04	50	200	300	IRFP260N-ND	5.23	3.73	3.04
	200	0.075	30	120	214	IRFP250N-ND	3.48	2.78	2.44
	200	0.18	20	—	150	IRFP240-ND	2.57	1.82	1.50
	250	0.075	38	—	280	IRFP264-ND	5.16	3.89	3.25
	250	0.14	23	92	190	IRFP254-ND	3.55	2.85	2.03
	250	0.28	15	—	150	IRFP244-ND	3.16	2.25	1.85
3	400	0.2	23	92	280	IRFP360-ND	5.53	3.92	3.23
	400	0.2	23	92	280	IRFP360LC-ND	12.25	9.80	7.00
	400	0.3	16	64	190	IRFP350-ND	3.83	2.78	2.28
	400	0.3	16	64	190	IRFP350LC-ND	5.83	4.67	3.50
	400	0.35	14	56	190	IRFP354-ND	6.20	4.96	3.54
	400	0.55	11	—	150	IRFP340-ND	3.78	2.68	2.21
	450	0.63	9.5	38	150	IRFP344-ND	4.08	3.26	2.33
	500	0.135	32	130	460	IRFP32N50K-ND	8.40	6.05	5.04
	500	0.15	31	124	460	IRFP31N50L-ND	9.00	6.48	5.40
	500	0.19	23	92	370	IRFP23N50L-ND	6.00	4.32	3.60
	500	0.23	22	88	277	IRFP22N50A-ND	4.33	3.46	2.45
	500	0.27	20	80	280	IRFP460A-ND	5.54	4.44	3.17
	500	0.27	20	80	280	IRFP460IR-ND	2.87	2.15	1.80
	500	0.27	20	80	280	IRFP460LC-ND	5.08	4.06	3.56
	500	0.27	20	80	280	IRFP460P-ND	6.20	4.47	3.72
	500	0.28	16	64	220	IRFP17N50L-ND	4.81	3.33	2.80
	500	0.4	14	—	190	IRFP450IR-ND	3.69	2.65	2.16
	500	0.4	14	56	190	IRFP450A-ND	3.47	2.78	1.99
	500	0.4	14	56	190	IRFP450LC-ND	7.09	5.68	4.97
	500	0.6	11	44	180	IRFP448-ND	3.31	2.65	1.90
	500	0.85	8.8	—	150	IRFP440-ND	2.76	1.96	1.61

† Lead Free/RoHS Compliant

Infineon technologies Mosfet

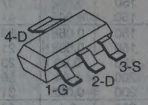
Package	Type	Vds (V)	RDS (on) Ω	ID (A)	ID Pulse (A)	Ptot (W)	Digi-Key Part No.	Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Size	Pricing	Infineon Part No.
SOT-223	P-CH	-60	0.8	-1.17	-4.68	1.8	BSP315PINCT-ND	.73	.59	.44	BSP315PINTR-ND	1,000	259.00	BSP315P-E6327
SOT-23	P-CH	-60	8	-0.17	-0.68	0.36	BSS84PINCT-ND	.37	.26	.18	BSS84PINTR-ND	3,000	55.00/M	BSP84P-E6327
SOT-143	N-CH	12	—	0.3	—	200	BF998INCT-ND*	.42	.33	.24	BF998INTR-ND*	3,000	130.00/M	BF998E6327
SOT-223	N-CH	50	0.3	1.8	7.2	1.8	BSP295INCT-ND	.97	.78	.59	BSP295INTR-ND	1,000	335.27	BSP295E6327
TO-220AB	N-CH	50	0.12	15.5	62	50	BTS115AIN-ND	4.18	2.91	2.39	—	—	—	BTS115A
SOT-23	N-CH	60	3.5	0.23	0.88	0.36	BSS138NEINCT-ND	.34	.24	.17	BSS138NEINTR-ND	3,000	51.15/M	BSS138NE6327
SOT-23	N-CH	100	6	0.17	0.68	0.36	BSS119INCT-ND	.54	.44	.33	BSS119INTR-ND	3,000	162.90/M	BSS119E6327
SOT-223	N-CH	100	6	0.38	0.68	1.7	BSP123INCT-ND	.55	.44	.33	BSP123INTR-ND	1,000	178.65	BSP123E6327
SOT-223	N-CH	100	0.8	1	4	1.8	BSP296INCT-ND	.97	.78	.59	BSP296INTR-ND	1,000	335.27	BSP296E6327
SOT-23	N-CH	100	6	0.17	0.68	0.36	BSS123INCT-ND	.36	.25	.17	BSS123INTR-ND	3,000	53.96/M	BSS123E6327
TO-220AB	N-CH	100	0.1	22	88	95	BTS121AIN-ND	5.46	4.00	3.26	—	—	—	BTS121A
TO-220AB	N-CH	100	0.085	21	84	75	BUZ21IN-ND	1.15	1.05	.97	—	—	—	BUZ21
TO-220AB	N-CH	200	0.13	21	84	125	BUZ30AIN-ND	2.16	1.40	1.10	—	—	—	BUZ30A
TO-220AB	N-CH	200	0.4	7	28	40	BUZ73IN-ND	1.14	.72	.53	—	—	—	BUZ73
SOT-223	N-CH	240	20	0.2	0.6	1.7	BSP129INCT-ND	.91	.79	.61	BSP129INTR-ND	1,000	377.71	BSP129E6327
SOT-223	N-CH	240	8	0.32	1.28	1.7	BSP88INCT-ND	.75	.61	.46	BSP88INTR-ND	1,000	268.16	BSP88E6327
SOT-23	N-CH	240	16	0.1	0.4	0.36	BSS131INCT-ND	.46	.36	.26	BSS131INTR-ND	3,000	109.12/M	BSS131E6327
SOT-89	N-CH	240	6	0.29	1.16	1	BSS87INCT-ND	.88	.71	.53	BSS87INTR-ND	1,000	311.84	BSS87E6327
TO-220AB	N-CH	800	3	3.6	14.5	100	BUZ80AIN-ND	4.21	2.91	2.37	—	—	—	BUZ80A

* Dual

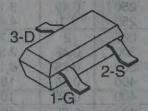
Cool MOS™ Power

Package	Type	Vds (V)	RDS (on) Ω	ID (A)	ID Pulse (A)	Ptot (W)	Digi-Key Part No.	Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Size	Pricing	Infineon Part No.
	P-CH	-60	0.3	-8.8	-35.2	42	SPP08P06PIN-ND	1.08	.68	.50	—	—	—	SPP08P06P
	P-CH	-60	0.13	-18.6	-74.4	80	SPP18P06PIN-ND	1.54	1.00	.73	—	—	—	SPP18P06P
	N-CH	560	0.95	4.5	13.5	50	SPP04N50C3IN-ND	1.64	1.02	.78	—	—	—	SPP04N50C3
TO-220AB	N-CH	560	0.6	7.6	22.8	83	SPP08N50C3IN-ND	2.04	1.35	1.04	—	—	—	SPP08N50C3
	N-CH	560	0.38	11.6	34.8	125	SPP12N50C3IN-ND	2.70	1.78	1.44	—	—	—	SPP12N50C3
	N-CH	560	0.28	16	48	160	SPP16N50C3IN-ND	3.25	2.17	1.77	—	—	—	SPP16N50C3
	N-CH	560	0.19	21	63	208	SPP21N50C3IN-ND	3.95	2.73	2.22	—	—	—	SPP21N50C3
	N-CH	560	0.95	4.5	13.5	31	SPA04N50C3IN-ND	1.64	1.02	.78	—	—	—	SPA04N50C3
	N-CH	560	0.6	7.6	22.8	32	SPA08N50C3IN-ND	2.21	1.48	1.17	—	—	—	SPA08N50C3
TO-220FP	N-CH	560	0.38	11.6	34.8	33	SPA12N50C3IN-ND	2.76	1.87	1.52	—	—	—	SPA12N50C3
	N-CH	560	0.28	16	48	34	SPA16N50C3IN-ND	3.45	2.31	1.88	—	—	—	SPA16N50C3
	N-CH	560	0.19	21	63	34.5	SPA21N50C3IN-ND	4.08	2.82	2.30	—	—	—	SPA21N50C3
	N-CH	560	3	1.8	5.4	25	SPD02N50C3INCT-ND	1.10	.88	.66	SPD02N50C3INTR-ND	2,500	352.94/M	SPD02N50C3
D-PAK	N-CH	560	1.4	3.2	9.6	38	SPD03N50C3INCT-ND	1.12	.98	.75	SPD03N50C3INTR-ND	2,500	433.26/M	SPD03N50C3
	N-CH	560	0.95	4.5	13.5	50	SPD04N50C3INCT-ND	1.41	1.23	.95	SPD04N50C3INTR-ND	2,500	535.95/M	SPD04N50C3
	N-CH	560	0.6	7.6	22.8	83	SPD08N50C3INCT-ND	1.71	1.43	1.20	SPD08N50C3INTR-ND	2,500	798.00/M	SPD08N50C3
	N-CH	560	0.38	11.6	34.8	125	SPW12N50C3IN-ND	3.68	2.54	2.07	—	—	—	SPW12N50C3
TO-247	N-CH	560	0.28	16	48	160	SPW16N50C3IN-ND	4.23	2.95	2.42	—	—	—	SPW16N50C3
	N-CH	560	0.19	21	63	208	SPW21N50C3IN-ND	5.01	3.55	2.92	—	—	—	SPW21N50C3
	N-CH	650	3	1.8	5.4	25	SPP02N60C3IN-ND	1.17	.75	.54	—	—	—	SPP02N60C3
	N-CH	650	1.4	3.2	9.6	38	SPP03N60C3IN-ND	1.44	.93	.70	—	—	—	SPP03N60C3
	N-CH	650	1.4	3.2	5.7	38	SPP03N60S5IN-ND	1.44	.93	.70	—	—	—	SPP03N60S5
	N-CH	650	0.95	4.5	13.5	50	SPP04N60C3IN-ND	1.67	1.07	.82	—	—	—	SPP04N60C3
	N-CH	650	0.6	7.3	21.9	83	SPP07N60C3IN-ND	2.18	1.46	1.15	—	—	—	SPP07N60C3
TO-220AB	N-CH	650	0.6	7.3	14.6	83	SPP07N60S5IN-ND	2.18	1.46	1.15	—	—	—	SPP07N60S5
	N-CH	650	0.38	11	33	125	SPP11N60C3IN-ND	2.87	1.95	1.53	—	—	—	SPP11N60C3
	N-CH	650	0.38	11	22	125	SPP11N60S5IN-ND	2.87	1.95	1.53	—	—	—	SPP11N60S5
	N-CH	650	0.19	20.7	62.1	208	SPP20N60C3IN-ND	4.38	3.05	2.51	—	—	—	SPP20N60C3
	N-CH	650	0.19	20	40	208	SPP20N60S5IN-ND	4.38	3.05	2.51	—	—	—	SPP20N60S5
	N-CH	650	3	1.8	5.4	25	SPB02N60C3INCT-ND	1.12	.98	.75	SPB02N60C3INTR-ND	1,000	458.24	SPB02N60C3
	N-CH	650	1.4	3.2	9.6	38	SPB03N60C3INCT-ND	1.44	1.26	.97	SPB03N60C3INTR-ND	1,000	577.95	SPB03N60C3
D2-PAK	N-CH	650	0.95	4.5	13.5	50	SPB04N60C3INCT-ND	1.74	1.52	1.17	SPB04N60C3INTR-ND	1,000	744.00	SPB04N60C3
	N-CH	650	0.6	7.3	21.9	83	SPB07N60C3INCT-ND	1.98	1.66	1.39	SPB07N60C3INTR-ND	1,000	958.00	SPB07N60C3
	N-CH	650	0.38	11	33	125	SPB11N60C3INCT-ND	2.78	2.32	1.95	SPB11N60C3INTR-ND	1,000	1321.00	SPB11N60C3
TO-262AB	N-CH	650	0.6	7.3	21.9	83	SPI07N60C3IN-ND	2.18	1.46	1.15	—	—	—	SPI07N60C3
	N-CH	650	0.38	11	33	125	SPI11N60C3IN-ND	2.62	2.18	1.84	—	—	—	SPI11N60C3
	N-CH	650	0.95	4.5	13.5	31	SPA04N60C3IN-ND	1.72	1.10	.84	—	—	—	SPA04N60C3
TO-220FP	N-CH	650	0.38	11	33	33	SPA11N60C3IN-ND	3.02	2.05	1.61	—	—	—	SPA11N60C3
	N-CH	650	0.19	20.7	62.1	34.5	SPA20N60C3IN-ND	4.60	3.21	2.63	—	—	—	SPA20N60C3
	N-CH	650	3	1.8	5.4	25	SPD02N60C3INCT-ND	1.05	.91	.70	SPD02N60C3INTR-ND	2,500	405.72/M	SPD02N60C3
	N-CH	650	1.4	3.2	9.6	38	SPD03N60C3INCT-ND	1.23	1.07	.83	SPD03N60C3INTR-ND	2,500	468.97/M	SPD03N60C3
D-PAK	N-CH	650	0.95	4.5	13.5	50	SPD04N60C3INCT-ND	1.44	1.25	.96	SPD04N60C3INTR-ND	2,500	546.49/M	SPD04N60C3
	N-CH	650	0.6	7.3	21.9	83	SPD07N60C3INCT-ND	1.83	1.53	1.29	SPD07N60C3INTR-ND	2,500	855.00/M	SPD07N60C3
	N-CH	650	0.6	7.3	14.6	83	SPD07N60S5INCT-ND	1.83	1.53	1.29	SPD07N60S5INTR-ND	2,500	855.00/M	SPD07N60S5
	N-CH	650	0.19	20.7	62.1	208	SPW20N60C3IN-ND	5.45	3.99	3.25	—	—	—	SPW20N60C3
TO-247	N-CH	650	0.19	20	40	208	SPW20N60S5IN-ND	5.45	3.99	3.25	—	—	—	SPW20N60S5
	N-CH	650	0.07	47	141	415	SPW47N60C3IN-ND	12.35	9.50	7.96	—	—	—	SPW47N60C3
	N-CH	800	2.7	2	6	42	SPP02N80C3IN-ND	1.58	.99	.75	—	—	—	SPP02N80C3
	N-CH	800	1.3	4	12	63	SPP04N80C3IN-ND	2.10	1.36	1.07	—	—	—	SPP04N80C3
TO-220AB	N-CH	800	0.9	6	18	83	SPP06N80C3IN-ND	2.51	1.70	1.32	—	—	—	SPP06N80C3
	N-CH	800	0.65	8	24	104	SPP08N80C3IN-ND	2.86	1.94	1.53	—	—	—	SPP08N80C3
	N-CH	800	0.45	11	33	156	SPP11N80C3IN-ND	3.52	2.43	1.98	—	—	—	SPP11N80C3

SOT-223



SOT-23



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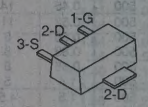

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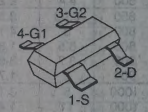
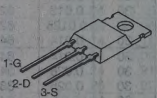
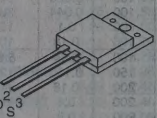


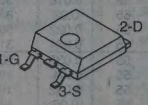
TO-220AB



TO-220FP



D-PAK / D2-PAK



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ckage	Type	Vds (V)	RDS (on) Ω	ID (A)	ID Pulse (A)	Ptot (W)	Digi-Key Part No.	Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Size	Pricing	Infineon Part No.
-220AB	N-CH	800	0.29	17	51	208	SPP17N80C3IN-ND	5.37	3.78	3.18	—	—	—	SPP17N80C3
2-PAK	N-CH	800	0.29	17	51	208	SPB17N80C3INCT-ND	5.37	4.67	3.98	SPB17N80C3INTR-ND	1,000	2782.00	SPB17N80C3
O-247	N-CH	800	0.45	11	33	156	SPW11N80C3IN-ND	4.69	3.27	2.68	—	—	—	SPW11N80C3
	N-CH	800	0.29	17	51	208	SPW17N80C3IN-ND	6.38	4.67	3.81	—	—	—	SPW17N80C3
	N-CH	800	1.3	4	12	38	SPA04N80C3IN-ND	2.18	1.46	1.15	—	—	—	SPA04N80C3
	N-CH	800	0.9	6	18	39	SPA06N80C3IN-ND	2.59	1.71	1.38	—	—	—	SPA06N80C3
-220FP	N-CH	800	0.65	8	24	40	SPA08N80C3IN-ND	3.04	2.06	1.62	—	—	—	SPA08N80C3
	N-CH	800	0.45	11	33	41	SPA11N80C3IN-ND	3.70	2.55	2.08	—	—	—	SPA11N80C3
	N-CH	800	0.29	17	51	42	SPA17N80C3IN-ND	5.37	3.93	3.21	—	—	—	SPA17N80C3
-PAK	N-CH	800	0.9	6	18	83	SPD06N80C3INCT-ND	2.21	1.85	1.55	SPD06N80C3INTR-ND	2,500	1033.00/M	SPD06N80C3

optiMOS™ 2

ckage	Type	Vds (V)	RDS (on) mΩ	ID (A)	ID Pulse (A)	Ptot (W)	Digi-Key Part No.	Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Size	Pricing	Infineon Part No.
	N-CH	25	2.7	80	385	150	IPP03N03LAIN-ND	2.41	1.61	1.28	—	—	—	IPP03N03LA
	N-CH	25	3.9	80	385	107	IPP04N03LAIN-ND	1.73	1.11	.84	—	—	—	IPP04N03LA
220AB	N-CH	25	4.6	80	385	94	IPP05N03LAIN-ND	1.54	1.01	.76	—	—	—	IPP05N03LA
	N-CH	25	5.9	50	350	83	IPP06N03LAIN-ND	1.38	.88	.66	—	—	—	IPP06N03LA
	N-CH	25	8.9	50	350	63	IPP09N03LAIN-ND	1.14	.74	.47	—	—	—	IPP09N03LA
	N-CH	25	13.6	30	210	46	IPP14N03LAIN-ND	.95	.57	.40	—	—	—	IPP14N03LA
	N-CH	25	3.9	80	385	107	IPB04N03LAINCT-ND	1.44	1.20	1.01	IPB04N03LAINTR-ND	1,000	719.70	IPB04N03LA
	N-CH	25	4.6	80	385	94	IPB05N03LAINCT-ND	1.56	1.36	1.05	IPB05N03LAINTR-ND	1,000	625.50	IPB05N03LA
-PAK	N-CH	25	5.9	50	350	83	IPB06N03LAINCT-ND	1.36	1.19	.91	IPB06N03LAINTR-ND	1,000	545.55	IPB06N03LA
	N-CH	25	8.9	50	350	63	IPB09N03LAINCT-ND	1.10	.96	.74	IPB09N03LAINTR-ND	1,000	447.83	IPB09N03LA
	N-CH	25	13.6	30	210	46	IPB14N03LAINCT-ND	.97	.78	.59	IPB14N03LAINTR-ND	1,000	334.34	IPB14N03LA
262AB	N-CH	25	3.9	80	385	107	IPI04N03LAIN-ND	1.73	1.11	.84	—	—	—	IPI04N03LA
	N-CH	25	3.8	50	350	115	IPD04N03LAGINCT-ND	1.55	1.29	1.09	IPD04N03LAGINTR-ND	2,500	945.00/M	IPD04N03LA G
	N-CH	25	5.1	50	350	94	IPD05N03LAGINCT-ND	1.70	1.48	1.14	IPD05N03LAGINTR-ND	2,500	825.00/M	IPD05N03LA G
-PAK	N-CH	25	5.7	50	350	83	IPD06N03LAGINCT-ND	1.47	1.28	.98	IPD06N03LAGINTR-ND	2,500	713.00/M	IPD06N03LA G
	N-CH	25	8.6	50	350	63	IPD09N03LAGINCT-ND	1.16	1.01	.78	IPD09N03LAGINTR-ND	2,500	563.00/M	IPD09N03LA G
	N-CH	25	13	30	210	46	IPD13N03LAGINCT-ND	1.02	.82	.62	IPD13N03LAGINTR-ND	2,500	413.00/M	IPD13N03LA G
	N-CH	25	5.9	30	210	94	IPU06N03LAGIN-ND	1.47	1.28	.98	—	—	—	IPU06N03LA G
251AB	N-CH	25	6.5	30	210	83	IPU07N03LAIN-ND	1.35	.86	.58	—	—	—	IPU07N03LA
	N-CH	25	9.3	30	210	63	IPU09N03LAGIN-ND	1.16	1.01	.78	—	—	—	IPU09N03LA G
	N-CH	25	12.8	30	210	47	IPU13N03LAGIN-ND	1.02	.82	.62	—	—	—	IPU13N03LA G
PAK up Leads	N-CH	25	5.4	50	350	94	IPF05N03LAGINCT-ND	1.50	1.30	1.00	IPF05N03LAGINTR-ND	2,500	727.00/M	IPF06N03LA G
	N-CH	25	13.3	30	210	46	IPF13N03LAGINCT-ND	.94	.82	.63	IPF13N03LAGINTR-ND	2,500	456.00/M	IPF13N03LA G

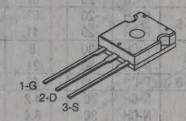
PMOS™

kage	Type	Vds (V)	RDS (on) Ω	ID (A)	ID Pulse (A)	Ptot (W)	Digi-Key Part No.	Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Size	Pricing	Infineon Part No.
PAK	P-CH	-60	0.075	-30	-120	125	SPD30P06PINCT-ND	1.69	1.42	1.19	SPD30P06PINTR-ND	2,500	790.00/M	SPD30P06
20AB	P-CH	-60	0.023	-80	-320	340	SPP80P06PIN-ND	3.96	2.74	2.23	—	—	—	SPP80P06P
PAK	P-CH	-60	0.25	-9.7	-38.8	42	SPD09P06PLINCT-ND	1.14	.91	.69	SPD09P06PLINTR-ND	2,500	367.00/M	SPD09P06PL
51AB	P-CH	-60	0.25	-9.7	-38.8	42	SPU09P06PLIN-ND	1.15	.74	.54	—	—	—	SPU09P06PL
-223	P-CH	-60	0.3	-1.9	-7.6	1.8	BSP171PE6327INCT-ND	1.00	.80	.61	BSP171PE6327INTR-ND	1,000	345.00	BSP171PE6327
-223	P-CH	-60	0.3	-1.9	-7.6	1.8	BSP170PE6327INCT-ND	.85	.69	.52	BSP170PE6327INTR-ND	1,000	303.36	BSP170PE6327
51AB	P-CH	-60	0.3	-8.8	-35.2	42	SPU08P06PIN-ND	1.16	.75	.54	—	—	—	SPU08P06P
T-23	P-CH	-60	2	-0.33	-1.32	0.36	BSS83PE6327INCT-ND	.47	.33	.23	BSS83PE6327INTR-ND	3,000	70.00/M	BSS83PE6327
20AB	P-CH	-100	0.24	-15	-60	128	SPP15P10PIN-ND	2.16	1.40	1.11	—	—	—	SPP15P10P
-223	P-CH	-100	1.8	-0.68	-2.72	1.8	BSP316PE6327INCT-ND	.78	.63	.47	BSP316PE6327INTR-ND	1,000	278.00	BSP316PE6327
T-89	P-CH	-250	12	-0.19	-0.76	1	BSS192PE6327INCT-ND	.78	.63	.47	BSS192PE6327INTR-ND	1,000	276.00	BSS192PE6327
-223	P-CH	-250	4	-0.43	-1.72	1.8	BSP317PE6327INCT-ND	.97	.85	.65	BSP317PE6327INTR-ND	1,000	396.00	BSP317PE6327
PAK	N-CH	100	.044	35	140	150	SPD35N10INCT-ND	1.41	1.23	.95	SPD35N10INTR-ND	2,500	537.37/M	SPD35N10
	N-CH	100	.17	10.5	41.2	50	SPD11N10INCT-ND	.89	.72	.54	SPD11N10INTR-ND	2,500	286.24/M	SPD11N10
PAK	N-CH	100	.044	35	140	150	SPB35N10INCT-ND	1.65	1.43	1.10	SPB35N10INTR-ND	1,000	659.85	SPB35N10
	N-CH	100	.08	21	84	90	SPB21N10INCT-ND	1.48	1.29	.99	SPB21N10INTR-ND	1,000	592.50	SPB21N10
20AB	N-CH	100	.044	35	140	150	SPP35N10IN-ND	1.58	1.02	.77	—	—	—	SPP35N10
	N-CH	100	.08	21	84	90	SPP21N10IN-ND	1.46	.95	.72	—	—	—	SPP21N10
	N-CH	60	0.12	3.1	12.4	2	—	—	—	—	BSO615NVINTR-ND*	2,500	455.00/M	BSO615NV
	N-CH	60	0.15	2.6	10.4	2	BSO615NINCT-ND*	1.11	.96	.74	BSO615NINTR-ND*	2,500	427.61/M	BSO615N
O-8	P/N-CH	-30/30	0.25/0.11	-2.3/3.4	-7.2/11.6	2/2	—	—	—	—	BSO315CINTR-ND*	2,500	473.00/M	BSO315C
	P/N-CH	-60/60	0.3/0.12	-2/3	-8/12	2/2	BSO612CVINCT-ND*	1.19	1.04	.80	BSO612CVINTR-ND*	2,500	453.30/M	BSO612CV
	P/N-CH	-60/60	0.3/0.11	-2/3.1	-8/12.4	2/2	BSO615CINCT-ND*	1.18	1.03	.79	BSO615CINTR-ND*	2,500	449.00/M	BSO615C

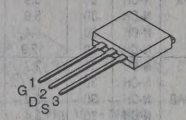
optiMOS™

kage	Type	Vds (V)	RDS (on) mΩ	ID (A)	ID Pulse (A)	Ptot (W)	Digi-Key Part No.	Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Size	Pricing	Infineon Part No.
-323	P-CH	-20	1.2	-0.39	-1.56	0.25	BSS223PWINCT-ND	.45	.33	.24	BSS223PWINTR-ND	3,000	95.00/M	BSS223PW
	P-CH	-20	550	-0.58	-2.3	0.52	BSS209PWINCT-ND	.43	.33	.24	BSS209PWINTR-ND	3,000	104.96/M	BSS209PW
-363	P-CH	-20	175	-1.5	-6	0.56	BSV236SPINCT-ND	.47	.38	.28	BSV236SPINTR-ND	10,000	132.96/M	BSV236SP
	P-CH	-20	1,200	-0.39	-1.56	0.25	BSD223PINCT-ND*	.40	.32	.23	BSD223PINTR-ND*	10,000	90.05/M	BSD223P
	P-CH	-20	8	-14.9	-59.6	2.5	BSO201SPINCT-ND	1.59	1.33	1.12	BSO201SPINTR-ND	2,500	742.70/M	BSO201SP
O-8	P-CH	-20	21	-8.2	-32.8	2	BSO203PINCT-ND	1.84	1.60	1.23	BSO203PINTR-ND	2,500	687.40/M	BSO203P
	P-CH	-20	21	-9	-36	2.35	BSO203SPINCT-ND	1.22	1.06	.82	BSO203SPINTR-ND	2,500	462.28/M	BSO203SP
	P-CH	-20	30	-7	-28	2	BSO204PINCT-ND*	1.53	1.33	1.02	BSO204PINTR-ND*	2,500	569.80/M	BSO204P

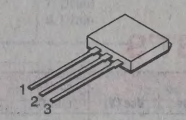
TO-247



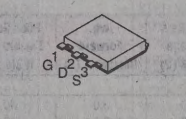
TO-251AB



TO-262AB

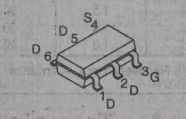


D-PAK — Bent up Leads



SOT-323

SOT-363 — Single



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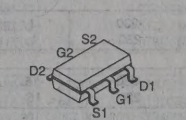


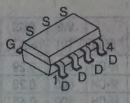
(Continued)

Infineon OptiMOS™ (Cont.)

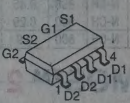
Package	Type	Vds (V)	RDS (on) mΩ	ID (A)	ID Pulse (A)	Ptot (W)	Digi-Key Part No.	Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Size	Tape & Reel Pricing	Infineon Part No.
SO-8	P-CH	-20	45	-5.7	-22.8	2	BSO207PINCT-ND*	1.25	1.09	.84	BSO207PINTR-ND*	2,500	476.52/M	BSO207P
	P-CH	-20	67	-4.7	-18.8	2	BSO211PINCT-ND*	1.00	.87	.67	BSO211PINTR-ND*	2,500	386.00/M	BSO211P
TSOP-6	P-CH	-20	67	-4.7	-18.8	2	BSL211SPINCT-ND	.66	.54	.40	BSL211SPINTR-ND	3,000	199.35/M	BSL211SP
	P-CH	-20	41	-6	-24	2	BSL207SPINCT-ND	.71	.58	.43	BSL207SPINTR-ND	3,000	238.20/M	BSL207SP
SO-8	P-CH	-30	8	-14.9	-59.6	2.5	BSO301SPINCT-ND	1.59	1.33	1.12	BSO301SPINTR-ND	2,500	742.70/M	BSO301SP
	P-CH	-30	21	-8.9	-35.6	2.35	BSO303SPINCT-ND	1.22	1.06	.82	BSO303SPINTR-ND	2,500	462.28/M	BSO303SP
TSOP-6	P-CH	-30	43	-5.5	-22	2	BSL307SPINCT-ND	.71	.58	.43	BSL307SPINTR-ND	3,000	238.20/M	BSL307SP
D-PAK	N-CH	30	4.2	100	400	150	SPD100N03S2L-INCT-ND	2.08	1.74	1.46	SPD100N03S2L-INTR-ND	2,500	971.86/M	SPD100N03S2L-04
	N-CH	30	6.4	50	200	136	SPD50N03S2L06INCT-ND	1.63	1.42	1.09	SPD50N03S2L06INTR-ND	2,500	609.56/M	SPD50N03S2L-06
	N-CH	30	6.7	30	120	136	SPD30N03S2L07INCT-ND	1.34	1.17	.90	SPD30N03S2L07INTR-ND	2,500	501.62/M	SPD30N03S2L-07
	N-CH	30	20	30	120	60	SPD30N03S2L20INCT-ND	.96	.77	.58	SPD30N03S2L20INTR-ND	2,500	309.44/M	SPD30N03S2L-20
	N-CH	30	10	30	120	100	SPD30N03S2L10INCT-ND	1.08	.94	.72	SPD30N03S2L10INTR-ND	2,500	416.59/M	SPD30N03S2L-10
D2-PAK	N-CH	30	2.7	100	400	300	SPB100N03S2L-INCT-ND	3.39	2.95	2.20	SPB100N03S2L-INTR-ND	1,000	1757.00	SPB100N03S2L-03
	N-CH	30	3	100	400	300	SPB100N03S203INCT-ND	3.39	2.95	2.20	SPB100N03S203INTR-ND	1,000	1757.00	SPB100N03S2-03
	N-CH	30	5.2	80	320	167	SPB80N03S2L05INCT-ND	1.55	1.30	1.09	SPB80N03S2L05INTR-ND	1,000	751.54	SPB80N03S2L-05
	N-CH	30	5.9	80	320	150	SPB80N03S2L06INCT-ND	1.62	1.40	1.08	SPB80N03S2L06INTR-ND	1,000	646.35	SPB80N03S2L-06
	N-CH	30	5.9	80	320	150	SPP80N03S2L-06IN-ND	1.41	.91	.68	—	—	—	SPP80N03S2L-06
	N-CH	30	8.4	73	320	107	SPB73N03S2L08INCT-ND	1.31	1.14	.88	SPB73N03S2L08INTR-ND	1,000	525.30	SPB73N03S2L-08
	N-CH	30	12.9	42	248	83	SPB42N03S2L13INCT-ND	.98	.85	.66	SPB42N03S2L13INTR-ND	1,000	398.41	SPB42N03S2L-13
TO-220AB	N-CH	30	2.7	100	400	300	SPP100N03S2L-03IN-ND	3.64	2.51	2.05	—	—	—	SPP100N03S2L-03
	N-CH	30	3	100	400	300	SPP100N03S2-03IN-ND	3.64	2.51	2.05	—	—	—	SPP100N03S2-03
	N-CH	30	5.2	80	320	167	SPP80N03S2L-05IN-ND	1.87	1.17	.91	—	—	—	SPP80N03S2L-05
	N-CH	30	8.4	73	320	107	SPP73N03S2L-08IN-ND	1.33	.84	.58	—	—	—	SPP73N03S2L-08
	N-CH	30	12.9	42	248	83	SPP42N03S2L-13IN-ND	1.04	.66	.50	—	—	—	SPP42N03S2L-13
SO-8	N-CH	30	7.8	13	52	2.5	BSO4420INCT-ND	1.23	1.07	.83	BSO4420INTR-ND	2,500	468.12/M	BSO4420
	N-CH	30	10	12.7	51	2.5	BSO4822INCT-ND	1.09	.95	.73	BSO4822INTR-ND	2,500	419.64/M	BSO4822
	N-CH	30	13	11.1	44.5	2.5	BSO4410INCT-ND	1.09	.95	.73	BSO4410INTR-ND	2,500	419.64/M	BSO4410
	N-CH	30	20	8	32	2	BSO4804INCT-ND	1.29	1.13	.87	BSO4804INTR-ND	2,500	491.77/M	BSO4804
TO-251AB	N-CH	30	10	30	120	82	SPU30N03S2L-10IN-ND	1.15	.72	.54	—	—	—	SPU30N03S2L-10
SOT-23	N-CH	55	650	0.54	2.2	0.36	BSS670S2LINCT-ND	.46	.32	.22	BSS670S2LINTR-ND	3,000	67.81/M	BSS670S2L

* Dual

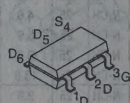
SO-8 — Single



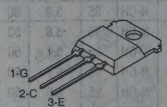
SO-8 — Dual



TSOP-6



TO-218AB



IGBT'S

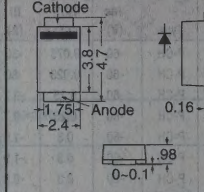
Package	Vce (V)	Vce(sat) max (V)	Ic @ 25°C (A)	Pulse Current Ic (A)	Ptot (W)	Digi-Key Part No.	Price Each 1	10	100	Infineon Part No.
TO-220AB	1200	3.2	32	64	200	BUP213IN-ND	2.46	2.25	2.08	BUP213
TO-218AB	1200	3.2	42	87	300	BUP314DIN-ND	6.64	6.09	5.62	BUP314D

TOSHIBA Schottky Barrier Rectifiers and Switching Rectifier

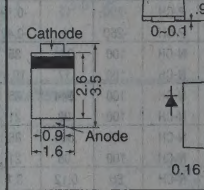
Peak Rev. Voltage VRRM (V)	Avg. Forward Current IF (A)	Peak Surge Foward Cur. IFSM (A)	Peak Fwd. Volt. VFM (V)	Repetitive Peak Rev. Current (mA)	Junction Capacitance Cj (pF)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 3,000
M-Flat (3-4E1A) Package											
30	3.0	40	.37	5.0	190	CMS01CT-ND	.48	.36	.27	CMS01TR-ND	156.00/M
30	3.0	40	.40	0.5	170	CMS02CT-ND	.48	.36	.27	CMS02TR-ND	156.00/M
30	3.0	40	.45	0.5	190	CMS03CT-ND	.48	.36	.27	CMS03TR-ND	156.00/M
30	5.0	70	.37	8.0	330	CMS04CT-ND	.48	.36	.27	CMS04TR-ND	156.00/M
30	5.0	70	.45	0.8	330	CMS05CT-ND	.48	.36	.27	CMS05TR-ND	156.00/M
30	2.0	40	.37	3.0	130	CMS06CT-ND	.55	.44	.33	CMS06TR-ND	148.50/M
30	2.0	40	.45	0.5	130	CMS07CT-ND	.48	.36	.27	CMS07TR-ND	156.00/M
30	1.0	25	.37	1.5	70	CMS08CT-ND	.45	.36	.27	CMS08TR-ND	121.50/M
30	1.0	25	.45	0.5	70	CMS09CT-ND	.48	.36	.27	CMS09TR-ND	156.00/M
40	1.0	25	.55	0.5	50	CMS10CT-ND	.48	.36	.27	CMS10TR-ND	156.00/M
40	2.0	30	.55	0.5	95	CMS11CT-ND	.55	.44	.33	CMS11TR-ND	148.50/M
S-Flat (3-2A1A) Package											
200	1.0	15	.98	0.01	—	CRH01CT-ND*†	.55	.44	.33	CRH01TR-ND*†	148.50/M
30	1.0	20	.37	1.5	40	CRS01CT-ND	.45	.36	.27	CRS01TR-ND	121.50/M
30	1.0	20	.40	0.05	40	CRS02CT-ND	.46	.37	.26	CRS02TR-ND	119.00/M
30	1.0	20	.45	0.1	40	CRS03CT-ND	.46	.37	.26	CRS03TR-ND	119.00/M
40	1.0	20	.49	0.1	47	CRS04CT-ND	.46	.37	.26	CRS04TR-ND	119.00/M
30	1.0	30	.45	0.2	60	CRS05CT-ND	.40	.32	.24	CRS05TR-ND	108.00/M
20	1.0	20	.36	1.0	60	CRS06CT-ND	.40	.32	.24	CRS06TR-ND	108.00/M
30	1.5	30	.36	1.0	90	CRS08CT-ND	.40	.32	.24	CRS08TR-ND	108.00/M
30	1.5	30	.46	0.05	90	CRS09CT-ND	.40	.32	.24	CRS09TR-ND	108.00/M
30	1.0	20	.36	1.5	60	CRS11CT-ND	.55	.44	.33	CRS11TR-ND	148.50/M

* Reverse Recovery Time — Trr 35ns † Switching type

M-Flat Pkg. (3-4E1A)



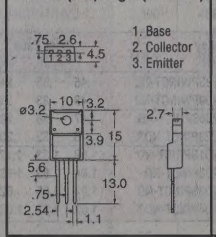
S-Flat Pkg. (3-2A1A)



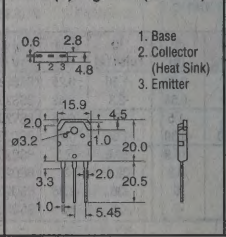
Bipolar Transistors

Type	Collector-Emitter Volt. VCEO (V)	Collector Power IC (A)	Collector Power Dissipation PC (W)	Digi-Key Part No.	Price Each 1	10	100
TO-220 (NIS) Package							
PNP	-230	-1	20	2SA1837-ND	.72	.54	.41
NPN	230	1	20	2SC4793-ND	.72	.54	.41
TO-3P(N) Package							
PNP	-230	-15	130	2SA1962-O-ND	2.48	1.98	1.54
NPN	230	15	130	2SC5242-O-ND	2.48	1.98	1.54
TO-3P(L) Package							
PNP	-200	-15	150	2SA1302-O-ND	2.48	1.98	1.54
PNP	-230	-15	150	2SA1943-O-ND	2.25	1.80	1.40
NPN	200	15	150	2SC3281-O-ND	2.48	1.98	1.54
NPN	230	15	150	2SC5200-O-ND	2.25	1.80	1.40

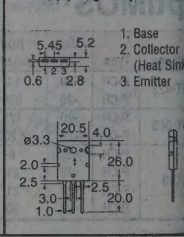
TO-220 (NIS) Pkg. (2-10R1A)



TO-3P(N) Pkg. (2-16C1A)



TO-3P(L) Pkg. (2-21F1A



More Product Available Online: www.digikey.com
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g. 1 — TO-220

	B.
Gate	1. Gate
Collector	2. Drain
Emitter	3. Source

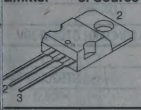


Fig. 2 — TO-247

A.	B.
1. Gate	1. Gate
2. Collector	2. Drain
3. Emitter	3. Source

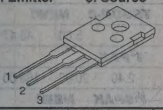


Fig. 3 — D²PAK

A.	B.
1. Gate	1. Gate
2. Collector	2. Drain
3. Emitter	3. Source

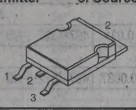


Fig. 4 — DPAK

A.	B.
1. Gate	1. Gate
2. Collector	2. Drain
3. Emitter	3. Source

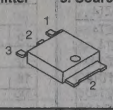


Fig. 5 — ISOTOP

A.	B.
1. Source	
2. Gate	
3. Drain	
4. Source	

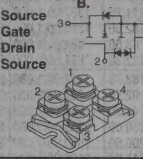


Fig. 6 — TO-220FP

A.	B.
1. Gate	1. Gate
2. Collector	2. Drain
3. Emitter	3. Source

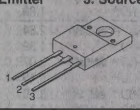
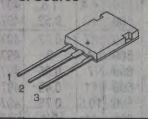


Fig. 7 — Max247™

1. Gate
2. Drain
3. Source



g. 8 — 8-SOIC

	B.	C.	D.
Source	1. Source	1. Anode	1. Gate
Gate	2. Source	2. Anode	2. N/C
Source	3. Source	3. Source	3. N/C
Gate	4. Gate	4. Gate	4. Source
Drain	5. Drain	5. Drain	5. Drain
Drain	6. Drain	6. Drain	6. Drain
Drain	7. Drain	7. Cathode	7. Drain
Drain	8. Drain	8. Cathode	8. Drain

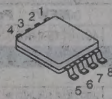


Fig. 9 — SOT23-3L

1. Gate
2. Drain
3. Source

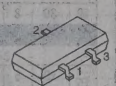


Fig. 10 — TO-92

1. Source
2. Gate
3. Drain

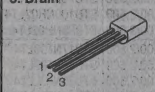


Fig. 11 — IPAK TO-251

1. Gate
2. Drain
3. Source

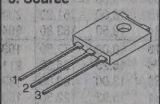


Fig. 12 — SOT23-6L

1. Drain
2. Drain
3. Gate
4. Source
5. Drain
6. Drain

Fig. 13 — SOT-223

1. Gate
2. Drain
3. Source

g. 14 — PowerSO-10

Ksource	6. Source
Ksource	7. Source
Gate	8. Source
Ksource	9. Source
Ksource	10. Source

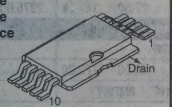


Fig. 15 — TSSOP-8

1. Drain
2. Source
3. Source
4. Gate
5. Gate
6. Source
7. Source
8. Drain

Fig. 16 — I²PAK

1. Gate
2. Drain
3. Source

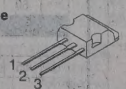


Fig. 17 — ***NEW!*** I²SPAK

1. Gate
2. Drain
3. Source

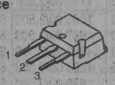


Fig. 18 — ***NEW!*** PowerFLAT™ (6 x 5)

1. Source
2. Source
3. Source
4. Gate
5. Drain
6. Drain
7. Drain
8. Drain

Fig. 19 — ***NEW!*** PowerFLAT™ (3.3 x 3.3)

1. Source
2. Source
3. Source
4. Gate
5. Drain
6. Drain
7. Drain
8. Drain

VDSS (V)	ID (A)	RDS(on) (Ω)	Digi-Key Part No.	Tube Pricing 1	10	100	Tape and Reel Pricing	Mfg. Part No.
			N-Channel					
			TO-220					
30	40	0.022	497-3187-5-ND	2.55	21.25	178.50	—	STP40NF03L
30	80	0.0045	497-4386-5-ND ***NEW!***	1.80	15.00	126.00	—	STP80NF03L
30	80	0.004	497-2676-5-ND	2.97	25.85	192.50	—	STP80NF03L-04
40	120	0.0037	497-3524-5-ND	3.78	32.90	245.00	—	STP200NF04
55	80	0.0065	497-2774-5-ND	2.31	19.25	161.70	—	STP80NF55-06
55	80	0.008	497-3202-5-ND	3.11	27.03	201.25	—	STP80NF55-08
55	80	0.008	497-4370-5-ND ***NEW!***	2.35	19.55	164.22	—	STP140NF55
60	12	0.20	497-2721-5-ND	.84	6.73	50.49	—	STP12PF06
60	16	0.1	497-2766-5-ND	.86	6.84	47.50	—	STP16NF06
60	16	0.09	497-2765-5-ND	.99	7.92	59.40	—	STP16NF06L
60	20	0.07	497-4374-5-ND ***NEW!***	1.12	9.72	74.75	—	STP20NF06
60	20	0.07	497-4375-5-ND ***NEW!***	1.12	9.72	74.75	—	STP20NF06L
60	30	0.040	497-3186-5-ND	1.50	13.00	100.00	—	STP36NF06
60	38	0.028	497-3189-5-ND	1.61	13.98	107.50	—	STP45NF06
60	50	0.018	497-2777-5-ND	1.35	11.70	90.00	—	STP55NF06
60	60	0.016	497-2770-5-ND	2.11	17.60	147.84	—	STP60NE06-16
60	60	0.016	497-2779-5-ND	1.86	16.09	123.75	—	STP60NF06
60	80	0.010	497-3201-5-ND	2.94	24.50	205.80	—	STP80NF06
75	80	0.011	497-2788-5-ND	2.10	17.50	147.00	—	STP75NF75
100	14	0.16	497-2780-5-ND	1.08	8.64	60.00	—	IRF530
100	10	0.27	497-2782-5-ND	.99	7.92	55.00	—	IRF520
100	22	0.077	497-2758-5-ND	1.16	10.08	77.50	—	IRF540
100	26	0.060	497-3185-5-ND	1.65	14.30	110.00	—	STP24NF10
100	40	0.035	497-2645-5-ND	1.54	13.33	102.50	—	STP35NF10
100	50	0.028	497-3188-5-ND	3.11	27.03	201.25	—	STP40NF10
100	80	0.023	497-4384-5-ND ***NEW!***	2.79	24.32	181.13	—	STP60NF10
100	80	0.015	497-2642-5-ND	2.79	23.25	195.30	—	STP80NF10
100	120	0.0105	497-4118-5-ND ***NEW!***	2.88	24.00	201.60	—	STP120NF10
120	40	0.032	497-4381-5-ND ***NEW!***	1.73	14.38	120.75	—	STP40NF12
200	6	0.8	497-3135-ND†	1.08	8.64	64.80	—	IRF620
200	9	0.40	497-2757-5-ND	1.22	9.72	72.90	—	IRF630
200	18	0.18	497-2759-5-ND	1.28	11.05	85.00	—	IRF640
200	18	0.125	497-4373-5-ND ***NEW!***	1.56	13.00	109.20	—	STP20N20
200	19	0.18	497-2650-5-ND	1.80	15.00	126.00	—	STP19NB20
200	40	0.045	497-4380-5-ND ***NEW!***	2.93	24.45	205.38	—	STP40N20
250	16	0.28	497-3183-5-ND	1.95	16.25	136.50	—	STP16NS25
400	3	1.8	497-3194-5-ND	1.05	9.10	70.00	—	STP5NK40Z
400	4.7	1.8	497-2675-5-ND	2.79	23.25	195.30	—	STP5NB40
400	5.4	1	497-3200-5-ND	1.43	12.35	95.00	—	STP7NK40Z
400	5.5	1	497-2736-5-ND	1.16	10.08	77.50	—	IRF730
400	10	0.55	497-2931-5-ND	2.31	19.25	161.70	—	IRF740
500	3	2.7	497-3190-5-ND	1.05	9.10	70.00	—	STP4NK50Z
500	4	3	497-2733-5-ND	1.01	8.78	67.50	—	IRF820
500	4.4	1.5	497-3195-5-ND	1.09	9.43	72.50	—	STP5NK50Z
500	4.5	1.5	497-2732-5-ND	1.09	9.43	72.50	—	IRF830
500	5.6	1.2	497-4385-5-ND ***NEW!***	1.20	10.40	80.00	—	STP6NK50Z
500	7.2	0.85	497-3203-5-ND	1.69	14.63	112.50	—	STP9NK50Z
500	8	0.85	497-2731-5-ND	1.54	13.33	102.50	—	IRF840
500	12	0.35	497-2666-5-ND	4.73	41.13	306.25	—	STP12NM50
500	20	0.25	497-2663-5-ND	5.40	47.00	350.00	—	STP20NM50
600	1.4	8	497-4377-5-ND ***NEW!***	.90	7.20	54.00	—	STP2NK60Z
600	4	2	497-3191-5-ND	1.24	10.73	82.50	—	STP4NK60Z
600	5	1.6	497-3196-5-ND	1.43	12.35	95.00	—	STP5NK60Z
600	5	2	497-2769-5-ND	1.86	16.09	123.75	—	STP5NM60
600	6	1.2	497-3198-5-ND	1.65	14.30	110.00	—	STP6NK60Z
600	7	0.95	497-4387-5-ND ***NEW!***	1.95	16.25	136.50	—	STP9NK60ZD
600	10	0.75	497-4117-5-ND ***NEW!***	2.64	22.00	184.80	—	STP10NK60Z
600	11	0.45	497-2773-5-ND	3.70	32.20	239.75	—	STP11NM60
600	11	0.45	497-4368-5-ND ***NEW!***	3.51	30.55	227.50	—	STP11NM60A

Fig.	VDSS (V)	ID (A)	RDS(on) (Ω)	Digi-Key Part No.	Tube Pricing 1	10	100	Tape and Reel Pricing	Mfg. Part No.
1B	600	11	0.45	497-3180-5-ND	5.27	45.83	341.25	—	STP11NM60FD
	600	13	0.55	497-3182-5-ND	3.24	28.20	210.00	—	STP13NK60Z
	600	14	0.42	497-4372-5-ND ***NEW!***	2.25	18.75	157.50	—	STP16NK60Z
	650	13	0.5	497-4119-5-ND ***NEW!***	2.64	22.00	184.80	—	STP16NK65Z
	650	20	0.29	497-3184-5-ND	5.40	47.00	350.00	—	STP20NM60
	650	20	0.29	497-4376-5-ND ***NEW!***	5.94	51.70	385.00	—	STP20NM60A
	800	2.5	4.5	497-4379-5-ND ***NEW!***	1.17	10.11	77.75	—	STP3NK80Z
	800	3	3.5	497-3192-5-ND	1.43	12.35	95.00	—	STP4NK80Z
	800	4	3.3	497-2781-5-ND	2.46	20.50	172.20	—	STP4NM80
	800	11	0.4	497-4369-5-ND ***NEW!***	6.44	58.80	464.80	—	STP11NM80
	900	2.1	6.5	497-4378-5-ND ***NEW!***	1.08	9.36	72.00	—	STP2NK90Z
	900	4.5	2.5	497-4383-5-ND ***NEW!***	2.76	23.00	193.20	—	STP5NK90Z
	900	5.8	2	497-3199-5-ND	2.16	18.00	151.20	—	STP6NK90Z
	900	8	1.3	497-2785-5-ND	2.58	21.50	180.60	—	STP9NK90Z
	1000	3	6	497-2641-5-ND	2.16	18.00	151.20	—	STP3NB100
	1000	3.5	3.7	497-4382-5-ND ***NEW!***	2.69	22.43	188.37	—	STP5NK100Z
				TO-247					
2B	60	80	0.010	497-3266-5-ND	2.64	22.00	184.80	—	STW80NF06
	200	34	0.075	497-2659-5-ND	3.24	28.20	210.00	—	STW34NB20
	200	40	0.045	497-4427-5-ND ***NEW!***	2.24	18.70	157.08	—	STW40N20
	250	52	0.045	497-4428-5-ND ***NEW!***	4.66	40.54	301.88	—	STW52NK25Z
	500	14	0.34	497-3260-5-ND	2.76	23.00	193.20	—	STW15NK50Z
	500	14	0.38	497-3258-5-ND	3.78	32.90	245.00	—	STW14NK50Z
	500	14.6	0.36	497-2664-5-ND	4.46	38.78	288.75	—	STW15NB50
	500	17	0.27	497-3261-5-ND	3.11	27.03	201.25	—	STW20NK50Z
	500	20	0.25	497-2717-5-ND	5.75	52.50	415.00	—	STW20NM50FD
	500	30	0.120	497-3264-5-ND	7.48	68.25	539.50	—	STW26NM50
	500	31	0.13	497-4425-5-ND ***NEW!***	6.90	63.00	498.00	—	STW29NK50Z
	500	45	0.1	497-2760-5-ND	11.39	103.95	821.70	—	STW45NM50
	500	45	0.1	497-2718-5-ND	11.00	101.75	770.00	—	STW45NM50FD
	550	14	0.35	497-3259-5-ND	5.54	48.18	358.75	—	STW14NM50
	550	20	0.25	497-3262-5-ND	5.40	47.00	350.00	—	STW20NM50
	600	10	0.75	497-3253-5-ND	4.05	35.25	262.50	—	STW10NK60Z
	600	13	0.55	497-3257-5-ND	3.78	32.90	245.00	—	STW13NK60Z
	600	14	0.42	497-3558-5-ND	3.51	30.55	227.50	—	STW16NK60Z
	600	16	0.36	497-4422-5-ND ***NEW!***	4.59	39.95	297.50	—	STW18NK60Z
	600	27	0.185	497-4424-5-ND ***NEW!***	6.90	63.00	498.00	—	STW28NK60Z
	600	30	0.135	497-3265-5-ND	7.48	68.25	539.50	—	STW26NM60
	600	30	0.145	497-4426-5-ND ***NEW!***	9.78	89.25	705.50	—	STW30NM60D
	600	45	0.11	497-2768-5-ND	10.00	92.50	700.00	—	STW45NM60
	650	20	0.29	497-3263-5-ND	5.98	54.60	431.60	—	STW20NM60
	700	20	0.285	497-3559-5-ND	5.27	45.83	341.25	—	STW20NK70Z
	800	9	0.90	497-3254-5-ND	2.92	25.38	189.00	—	STW10NK80Z
	800	10.5	0.75	497-3256-5-ND	3.19	27.73	206.50	—	STW12NK80Z
	800	11	0.4	497-4420-5-ND ***NEW!***	6.48	56.40	420.00	—	STW11NM80
	800	11	0.8	497-2789-5-ND	5.94	51.70	385.00	—	STW11NM80
	800	19	0.38	497-4423-5-ND ***NEW!***	5.59	48.65	362.25	—	STW18NK80Z
	900	8	1.3	497-2784-5-ND	2.94	24.50	205.80	—	STW9NK90Z
	900	11	0.88	497-4421-5-ND ***NEW!***	4.21	36.66	273.00	—	STW12NK90Z
	900	15	0.55	497-3557-5-ND	6.67	60.90	481.40	—	STW15NK90Z
	1000	8.3	1.38	497-3255-5-ND	5.67	49.35	367.50	—	STW11NK100Z
	1000	13	0.70	497-3556-5-ND	5.75	52.50	415.00	—	STW13NK100Z
				D²PAK					
3B	24	75	0.008	497-3515-1-ND*	1.95	16.25	136.50	878.00/1,000	STB75NH02LT4
	40	120	0.0037	497-3513-1-ND*	3.38	29.38	218.75	1663.00/1,000	STB200NF04T4
	55	80	0.008	497-3737-1-ND*	2.37	19.75	165.90	1067.00/1,000	STB80NF55-08T4
	55	80	0.008	497-4321-1-ND* ***NEW!***	2.93	24.45	205.38	1320.00/1,000	STB140NF55T4
	60	16	0.09	497-4322-1-ND* ***NEW!***	1.04	8.97	69.00	400.00/1,000	STB16NF06LT4
	75	75	0.011	497-3514-1-ND*	2.55	21.25	178.50	1148.00/1,000	STB75NF75LT4

* For Tape and Reel part number, change 1-ND to 2-ND. † Bulk packaging

(Continued)

Fig.	VDSS (V)	ID (A)	RDS(on) (Ω)	Digi-Key Part No.	Tube Pricing 1	10	100	Tape and Reel Pricing	Mfg. Part No.
	100	40	0.033	497-3736-1-ND*	2.40	20.00	168.00	1080.00/1,000	STB40NF10LT4
	100	80	0.015	497-2489-1-ND*	3.27	28.44	211.75	1337.00/1,000	STB80NF10T4
	100	120	0.0105	497-2452-1-ND*	2.81	24.44	182.00	1383.00/1,000	STB120NF10T4
	500	4.4	1.5	497-4324-1-ND* **NEW!**	1.25	10.86	83.50	484.00/1,000	STB5NK50ZT4
	500	10	0.52	497-2451-1-ND*	1.89	15.75	132.30	851.00/1,000	STB11NK50ZT4
3B	500	17	0.27	497-4323-1-ND* **NEW!**	2.84	24.68	183.75	1397.00/1,000	STB20NK50ZT4
	600	4	2	497-2486-1-ND*	1.39	12.03	92.50	537.00/1,000	STB4NK60ZT4
	600	7	0.95	497-4325-1-ND* **NEW!**	2.07	17.25	144.90	932.00/1,000	STB9NK60ZDT4
	600	11	0.45	497-3511-1-ND*	5.40	47.00	350.00	2660.00/1,000	STB11NM60FDT4
	800	10.5	0.75	497-4320-1-ND* **NEW!**	3.19	27.73	206.50	1569.00/1,000	STB12NK80ZT4
	800	11	0.4	497-4319-1-ND* **NEW!**	5.75	52.50	415.00	3188.00/1,000	STB11NM80T4
				DPAK					
	24	38	0.0135	497-3160-1-ND*	1.80	15.00	126.00	1950.00/2,500	STD38NH02LT4
	24	40	0.011	497-4104-1-ND* **NEW!**	1.43	12.35	95.00	1262.50/2,500	STD55NH2LLT4
	24	60	0.008	497-3165-1-ND*	1.50	13.00	100.00	1330.00/2,500	STD70NH02LT4
	24	60	0.0048	497-4100-1-ND* **NEW!**	2.16	18.00	151.20	2340.00/2,500	STD100NH02LT4
	24	80	0.005	497-4105-1-ND* **NEW!**	2.34	19.50	163.80	3042.00/3,000	STD95NH02LT4
	30	17	0.05	497-3155-1-ND*	1.16	10.08	77.50	1030.00/2,500	STD17NF03LT4
	30	30	0.025	497-3157-1-ND*	1.95	16.25	136.50	2112.50/2,500	STD30NF03LT4
	30	35	0.0195	497-2475-1-ND*	1.50	13.00	100.00	1330.00/2,500	STD35NF3LLT4
	30	60	0.0095	497-2476-1-ND*	1.84	15.93	122.50	1630.00/2,500	STD60NF3LLT4
	60	12	0.1	497-2487-1-ND*	.81	6.48	45.00	642.50/2,500	STD12NF06LT4
	60	12	0.1	497-3154-1-ND*	.94	8.13	62.50	832.50/2,500	STD12NF06T4
	60	24	0.07	497-4329-1-ND* **NEW!**	1.04	8.97	69.00	917.50/2,500	STD16NF06LT4
	60	35	0.028	497-4101-1-ND* **NEW!**	1.31	11.38	87.50	1165.00/2,500	STD30NF06LT4
	60	35	0.024	497-3159-1-ND*	1.58	13.65	105.00	1397.50/2,500	STD35NF06T4
	75	40	0.024	497-4334-1-ND* **NEW!**	1.29	11.21	86.25	1147.50/2,500	STD45NF75T4
4B	100	13	0.13	497-3153-1-ND*	1.20	10.40	80.00	1065.00/2,500	STD10NF10T4
	100	25	0.035	497-3156-1-ND*	1.13	9.75	75.00	997.50/2,500	STD25NF10LT4
	200	5	0.7	497-4335-1-ND* **NEW!**	1.05	9.10	70.00	930.00/2,500	STD5N20LT4
	200	18	0.125	497-4330-1-ND* **NEW!**	1.81	15.70	120.75	1605.00/2,500	STD20N20T4
	400	3	1.8	497-2477-1-ND*	1.05	9.10	70.00	930.00/2,500	STD5NK40ZT4
	500	2.3	3.3	497-4333-1-ND* **NEW!**	1.64	14.20	109.25	1452.50/2,500	STD3NK50ZT4
	500	3	2.7	497-4103-1-ND* **NEW!**	.98	8.45	65.00	865.00/2,500	STD4NK50ZT4
	500	4.4	1.5	497-3520-1-ND*	1.09	9.43	72.50	1052.50/2,500	STD5NK50ZT4
	500	7.5	0.8	497-3162-1-ND*	2.85	23.75	199.50	3087.50/2,500	STD5NM50T4
	600	1	8.5	497-2483-1-ND*	1.04	8.28	62.10	820.00/2,500	STD1NK60T4
	600	2	5	497-2485-1-ND*	1.05	9.10	70.00	930.00/2,500	STD1HNC60T4
	600	2.4	3.6	497-4102-1-ND* **NEW!**	.98	8.45	65.00	865.00/2,500	STD3NK60ZT4
	600	3	1.5	497-3161-1-ND*	1.50	13.00	100.00	1330.00/2,500	STD3NM60T4
	600	5	1	497-3163-1-ND*	2.70	22.50	189.00	2925.00/2,500	STD5NM60T4
	700	1.6	7	497-4331-1-ND* **NEW!**	1.51	13.10	100.75	1340.00/2,500	STD2NK70ZT4
	900	2.1	6.5	497-4332-1-ND* **NEW!**	1.51	13.10	100.75	1340.00/2,500	STD2NK90ZT4
				ISOTOP					
	100	180	.006	497-3166-5-ND	47.25	405.00	3591.00	—	STE180NE10
	100	220	.0055	497-3167-5-ND	35.00	300.00	2660.00	—	STE250NS10
	200	110	0.024	497-2657-5-ND	35.00	300.00	2660.00	—	STE110NS20FD
	500	53	0.08	497-2776-5-ND	30.63	262.50	2327.50	—	STE53NC50
	500	70	0.05	497-3172-5-ND	35.00	300.00	2660.00	—	STE70NM50
5A	550	48	0.1	497-3170-5-ND	20.21	173.25	1536.15	—	STE48NM50
	600	40	0.13	497-3169-5-ND	30.63	262.50	2327.50	—	STE40NC60
	600	48	0.11	497-3171-5-ND	22.75	195.00	1729.00	—	STE48NM60
	600	70	0.055	497-3173-5-ND	35.00	300.00	2660.00	—	STE70NM60
	900	26	0.3	497-3168-5-ND	44.19	378.75	3358.25	—	STE26NA90
5B	900	28	0.26	497-4336-5-ND **NEW!**	38.50	330.00	2926.00	—	STE30NK90Z
	900	40	0.18	497-4337-5-ND **NEW!**	28.88	247.50	2194.50	—	STE40NK90ZD
				TO-220FP					
	60	20	0.07	497-4340-5-ND **NEW!**	.93	7.45	55.89	—	STF20NF06
	60	23	0.028	497-4343-5-ND **NEW!**	1.58	13.65	105.00	—	STF40NF06
	60	37	0.016	497-3197-5-ND	2.40	20.00	168.00	—	STP60NF06FP
	60	50	0.018	497-3193-5-ND	2.10	17.50	147.00	—	STP55NF06FP
	200	18	0.125	497-4339-5-ND **NEW!**	1.56	13.00	109.20	—	STF20N20
	500	12	0.35	497-2665-5-ND	4.32	37.60	280.00	—	STP12NM50FP
6B	600	7	0.95	497-4346-5-ND **NEW!**	2.14	17.83	149.73	—	STF9NK60ZD
	650	11	0.45	497-3181-5-ND	5.27	45.83	341.25	—	STP11NM60FP
	650	20	0.29	497-2771-5-ND	5.67	49.35	367.50	—	STP20NM60FP
	800	2.5	4.5	497-4342-5-ND **NEW!**	1.29	11.21	86.25	—	STF3NK80Z
	800	11	0.40	497-4338-5-ND **NEW!**	3.24	28.20	210.00	—	STF11NM80
	900	3	4.2	497-4341-5-ND **NEW!**	1.38	11.96	92.00	—	STF3HNK90Z
	1000	3.5	3.7	497-4344-5-ND **NEW!**	2.14	17.83	149.73	—	STF5NK100Z
				8-SOIC					
	30	9	0.020	497-3234-1-ND*	1.65	14.30	110.00	1462.50/2,500	STS9NF30L
	30	11	0.0105	497-4121-1-ND* **NEW!**	1.08	8.64	64.80	855.00/2,500	STS11NF30L
	30	12	0.0105	497-4122-1-ND* **NEW!**	1.50	13.00	100.00	1330.00/2,500	STS12NH3LL
8B	30	12	0.009	497-3223-1-ND*	1.83	15.25	128.10	1982.50/2,500	STS12NF30L
	30	17	0.0055	497-3224-1-ND*	1.50	13.00	100.00	1330.00/2,500	STS17NF3LL
	30	25	0.0035	497-2474-1-ND*	2.10	17.50	147.00	1787.50/2,500	STS25NH3LL
	55	24	0.035	497-3317-1-ND* **NEW!**	2.28	19.00	159.60	2470.00/2,500	VNS14NV0413TR
8C	30	4	0.055	497-3227-1-ND*	1.50	12.50	105.00	1625.00/2,500	STS4DNFS30L
8D	600	0.3	8.5	497-3530-1-ND*	1.05	9.10	70.00	930.00/2,500	STS1HNK60
				Max247					
	100	140	0.011	497-3267-5-ND	13.00	120.25	910.00	—	STY140NS10
	300	60	0.045	497-4432-5-ND **NEW!**	7.29	66.57	526.22	—	STY60NK30Z
7	500	34	0.13	497-2680-5-ND	11.42	105.64	799.40	—	STY34NB50
	500	60	0.05	497-2775-5-ND	17.00	157.25	1190.00	—	STY60NM50
	600	60	0.055	497-3268-5-ND	15.56	143.93	1089.20	—	STY60NM60
	900	28	0.26	497-4431-5-ND **NEW!**	13.80	127.65	966.00	—	STY30NK90Z
				SOT23-3L					
9	60	0.20	5	497-3111-1-ND*	.52	4.00	28.80	408.00/3,000	2N7002
				TO-92					
10	60	0.35	5	497-3110-ND	.52	4.00	28.80	—	2N7000
				IPAK TO-251					
11	24	50	0.0105	497-3519-5-ND	1.50	13.00	100.00	—	STD50NH02L-1
	30	60	0.009	497-3164-5-ND	1.35	11.70	90.00	—	STD60NH03L-1

Fig.	VDSS (V)	ID (A)	RDS(on) (Ω)	Digi-Key Part No.	Tube Pricing 1	10	100	Tape and Reel Pricing	Mfg. Part No.
				PowerSO-10					
14	20	160	0.0025	497-3251-1-ND*	6.48	56.40	420.00	2016.00/600	STV160NF02L
	30	160	0.0028	497-3252-1-ND*	5.75	52.50	415.00	1950.00/600	STV160NF03L
				SOT-223					
13	60	4	0.1	497-3177-1-ND*	1.13	9.75	75.00	1596.00/4,000	STN3NF06L
	200	1	1.5	497-3176-1-ND*	1.84	15.93	122.50	2608.00/4,000	STN1N20
	600	0.25	15	497-3523-1-ND*	.72	5.76	43.20	912.00/4,000	STN1NK60Z
				NEW! TSSOP-8 NEW!					
15	30	5	0.031	497-4327-1-ND*	.72	5.80	43.47	916.00/4,000	STC5NF30V
				I²PAK					
16	40	120	0.0037	497-3512-5-ND	2.40	20.00	168.00	—	STB200NF04-1
				NEW! I²SPAK NEW!					
17	650	13	0.50	497-4098-5-ND	2.84	24.68	183.75	—	STB16NK65Z-S
				NEW! PowerFLAT™ (6 x 5) NEW!					
18	30	27	0.013	497-4114-1-ND*	1.80	15.60	120.00	1914.00/3,000	STL50NH3LL
				NEW! PowerFLAT™ (3.3 x 3.3) NEW!					
19	30	8	0.015	497-4115-1-ND*	1.58	13.65	105.00	1677.00/3,000	STL8NH3LL
				Dual N-Channel					
				TSSOP-8					
15	20	5	0.045	497-3151-1-ND*	.90	7.20	54.00	1140.00/4,000	STC5NF20V
	30	6	0.030	497-3152-1-ND*	1.50	13.00	100.00	2128.00/4,000	STC6NF30V
				8-SOIC					
8A	20	5	0.045	497-3229-1-ND*	1.80	15.00	126.00	1950.00/2,500	STS5DNF20V
	30	8	0.022	497-4399-1-ND* **NEW!**	1.43	12.35	95.00	1262.50/2,500	STS8DNH3LL
	30	8	0.020	497-2470-1-ND*	1.31	11.38	87.50	1247.50/2,500	STS8DNF3LL
	60	4	0.055	497-3226-1-ND*	2.10	17.50	147.00	2275.00/2,500	STS4DNF60L
				P-Channel					
				TO-220					
1B	55	80	0.018	497-2729-5-ND	2.46	20.50	172.20	—	STP80PF55
				NEW! D²PAK NEW!					
3B	60	16	0.125	497-4099-1-ND*	1.28	11.05	85.00	493.00/1,000	STB16PF06LT4
				DPAK					
4B	30	24	0.028	497-3158-1-ND*	1.76	15.28	117.50	1562.50/2,500	STD30PF03LT4
	60	10	0.20	497-2456-1-ND*	.86	6.84	51.30	677.50/2,500	STD10PF06T4
				8-SOIC					
8B	20	5	0.10	497-3230-1-ND*	1.08	8.64	64.80	855.00/2,500	STS5PF20L
8B	30	5	0.08	497-3231-1-ND*	1.59	13.25	111.30	1722.50/2,500	STS5PF30L
8B	30	7	0.021	497-3233-1-ND*	1.50	13.00	100.00	1330.00/2,500	STS7PF30L
8B	30	10	0.014	497-4120-1-ND* **NEW!**	1.50	13.00	100.00	1330.00/2,500	STS10PF30L
8C	20	2.5	0.25	497-3225-1-ND*	1.80	15.00	126.00	1950.00/2,500	STS2DPFS20V
				SOT23-6L					
12	20	3	0.135	497-3236-1-ND*	.90	7.20	54.00	855.00/3,000	STT4PF20V
				NEW! SOT-223 NEW!					
13	20	5	0.08	497-4364-1-ND*	1.04	8.28	62.10	1312.00/4,000	STN5PF20V
	60	2.5	0.20	497-4116-1-ND*	.86	6.84	51.30	1084.00/4,000	STN3PF06
				NEW! P-Channel with Schottky NEW!					
				8-SOIC					
8C	30	5	0.055	497-4397-1-ND*	1.65	14.30	110.00	1462.50/2,500	STS4DPFS30L
				Dual P-Channel					
				8-SOIC					
8A	30	4	0.08	497-3228-1-ND*	1.65	13.75	115.50	1787.50/2,500	STS4DPF30L
	60	3	0.12	497-4123-1-ND* **NEW!**	1.43	12.35	95.00	1262.50/2,500	STS3DPF60L
				N/P-Channel					
				8-SOIC					
8A	30	7/4	.022/.08	497-3232-1-ND*	2.10	17.50	147.00	2275.00/2,500	STS7C4F30L
8A	30	8/5	.022/.055	497-4398-1-ND* **NEW!**	1.58	13.65	105.00	1397.50/2,500	STS8C5H30L
	60	4/3	.055/.12	497-4396-1-ND* **NEW!**	1.50	13.00	100.00	1330.00/2,500	STS4C3F60L
				PowerMESH™ IGBT					
				TO-220					
1A	600	3	—	497-2653-5-ND	1.39	12.03	92.50	—	STGP3NB60F
	600	3	—	497-2652-5-ND	1.61	13.98	107.50	—	STGP3NB60FD
	600	14	—	497-4112-5-ND **NEW!**	1.69	14.63	112.50	—	STGP7NB60KD
	600	25	—	497-4113-5-ND **NEW!**	1.65	13.75	115.50	—	STGP7NC60H
	600	60	—	497-4355-5-ND **NEW!**	3.11	27.03	201.25	—	STGP20NC60V
				TO-247					
2A	600	20	2.8	497-2654-5-ND	5.94	51.70	385.00	—	STGW20NB60
	600	60	—	497-4356-5-ND **NEW!**	4.19	36.50	271.78	—	STGW20NC60V
	600	60	—	497-4357-5-ND **NEW!**	4.35	37.84	281.75	—	STGW20NC60V
	600	80	—	497-4358-5-ND **NEW!**	6.88	62.79	496.34	—	STGW40NC60V
				D²PAK					
3A	18	20	—	497-4349-1-ND* **NEW!**	3.42	29.73	221.38	1682.00/1,000	STGB10NB40L
	20	40	—	497-4351-1-ND* **NEW!**	3.73	32.43	241.50	1835.00/1,000	STGB20NB41L
	350	20	—	497-3522-5-ND	3.51	30.55	227.50	—	STGB20NB32L
	425	20	—	497-4106-1-ND* **NEW!**	3.56	31.02	231.00	1756.00/1,000	STGB10NB37L
	600	3	—	497-2449-1-ND*	1.61	13.98	107.50	624.00/1,000	STGB3NB60FD
	600	14	—	497-4107-1-ND* **NEW!**	1.80	15.00	126.00	810.00/1,000	STGB7NB60HD
	600	25	—	497-4108-1-ND* **NEW!**	1.59	13.25	111.30	716.00/1,000	STGB7NC60HD
	600	30	—	497-4350-1-ND* **NEW!**	2.07	17.25	144.90	932.00/1,000	STGB12NB60K
				DPAK					
4A	600	3	—	497-2450-1-ND*	1.39	12.03	92.50	1230.00/2,500	STGD3NB60FT
	600	6	—	497-4109-1-ND* **NEW!**	1.35	11.70	90.00	1197.50/2,500	STGD3NB60SD
	600	14	—	497-4110-1-ND* **NEW!**	1.73	14.95	115.00	1530.00/2,500	STGD7NB60KT
	600	25	—	497-4111-1-ND* **NEW!**	1.62	13.50	113.40	1755.00/2,500	STGD7NC60HT
	1200	10	—	497-4352-1-ND* **NEW!**	1.73	14.95	115.00	1530.00/2,500	STGD5NB120SZ
				TO-220FP					
6A	600	3	—	497-2651-5-ND	1.73	14.95	115.00	—	STGF3NB60FD
	600	10	—	497-4354-5-ND **NEW!**	1.50	12.50	105.00	—	STGF7NC60HD
	1200	6	—	497-4353-5-ND **NEW!**	2.07	17.25	144.90	—	STGF3NC120H

* For Tape and Reel part number, change 1-ND to 2-ND. † Bulk packaging

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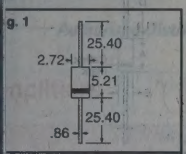
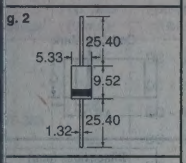
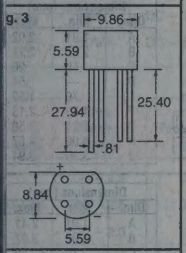
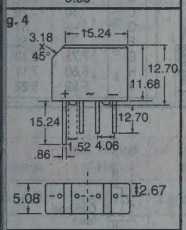
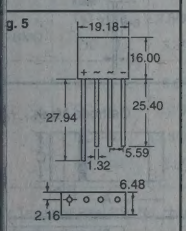
Diodes-Bridge Rectifiers

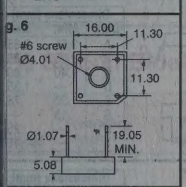


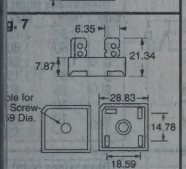


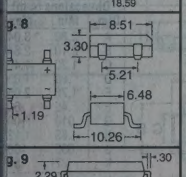


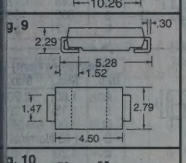












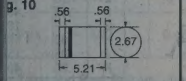


Fig.	Max. Avg. Rect. Current (A)	Max. Peak Reverse Voltage (V)	Peak Forward Surge Current 8.3ms (A)	Max. Instant. Forward Voltage (V)	Typ. Reverse Recovery Time (µS)	Oper. Junction Temp. (°C)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 1,400	5,500
Silicon Rectifiers													
1	1.0	50	30	1.1	30	-50 ~ 175	1N4001GICT-ND	—	.40	3.20	1N4001GITR-ND	—	16.00/M
		100	30	1.1	30	-50 ~ 175	1N4002GICT-ND	—	.40	3.20	1N4002GITR-ND	—	16.00/M
		200	30	1.1	30	-50 ~ 175	1N4003GICT-ND	—	.40	3.20	1N4003GITR-ND	—	16.00/M
		400	30	1.1	30	-50 ~ 175	1N4004GICT-ND	—	.40	3.20	1N4004GITR-ND	—	16.00/M
		600	30	1.1	30	-50 ~ 175	1N4005GICT-ND	—	.40	3.20	1N4005GITR-ND	—	16.00/M
		800	30	1.1	30	-50 ~ 175	1N4006GICT-ND	—	.40	3.20	1N4006GITR-ND	—	16.00/M
		1000	30	1.1	30	-50 ~ 175	1N4007GICT-ND	—	.40	3.20	1N4007GITR-ND	—	16.00/M
2	3.0	50	200	1.2	—	-50 ~ 170	1N5400GICT-ND	.32	2.31	16.80	1N5400GITR-ND	143.00/M	—
		100	200	1.2	—	-50 ~ 170	1N5401GICT-ND	.32	2.31	16.80	1N5401GITR-ND	143.00/M	—
		200	200	1.2	—	-50 ~ 170	1N5402GICT-ND	.32	2.31	16.80	1N5402GITR-ND	143.00/M	—
		400	200	1.2	—	-50 ~ 170	1N5404GICT-ND	.43	3.15	22.88	1N5404GITR-ND	143.00/M	—
		600	200	1.2	—	-50 ~ 170	1N5406GICT-ND	.32	2.31	16.80	1N5406GITR-ND	143.00/M	—
		800	200	1.2	—	-50 ~ 170	1N5407GICT-ND	.32	2.31	16.80	1N5407GITR-ND	143.00/M	—
		1000	200	1.2	—	-50 ~ 170	1N5408GICT-ND	.32	2.31	16.80	1N5408GITR-ND	143.00/M	—
Schottky Barrier Rectifiers													
1	1.0	20	25	.45	—	-65 ~ 125	1N5817GICT-ND	.45	3.30	24.00	1N5817GITR-ND	—	114.00/M
		30	25	.55	—	-65 ~ 125	1N5818GICT-ND	.45	3.30	24.00	1N5818GITR-ND	—	114.00/M
		40	25	.60	—	-65 ~ 125	1N5819GICT-ND	.45	3.30	24.00	1N5819GITR-ND	—	114.00/M
2	3.0	20	80	.475	—	-65 ~ 125	1N5820GICT-ND	.83	6.05	44.00	1N5820GITR-ND	209.00/M	—
		30	80	.500	—	-65 ~ 125	1N5821GICT-ND	.83	6.05	44.00	1N5821GITR-ND	209.00/M	—
		40	80	.525	—	-65 ~ 125	1N5822GICT-ND	.83	6.05	44.00	1N5822GITR-ND	209.00/M	—
	5.0	20	150	0.55	—	-65 ~ 125	SB520CT-ND	.39	3.30	27.50	SB520TR-ND	176.00/M	—
		30	150	0.55	—	-65 ~ 125	SB530CT-ND	.39	3.30	27.50	SB530TR-ND	176.00/M	—
		40	150	0.55	—	-65 ~ 125	SB540CT-ND	.39	3.30	27.50	SB540TR-ND	176.00/M	—
		50	150	0.67	—	-65 ~ 125	SB550CT-ND	.44	3.75	31.25	SB550TR-ND	200.00/M	—
		60	150	0.67	—	-65 ~ 125	SB560CT-ND	.44	3.75	31.25	SB560TR-ND	200.00/M	—

Fig.	Max. Avg. Rect. Current (A)	Max. Peak Reverse Voltage (V)	Peak Forward Surge Current 8.3ms (A)	Max. Instant. Forward Voltage (V)	Oper. Junction Temp. (°C)	Digi-Key Part No.	Pricing 1	10	100
Silicon and Glass Passivated Bridge Rectifiers									
3	1.5	50	50	1.0	-55 ~ 150	W005GGI-ND	.61	5.19	43.23
		100	50	1.0	-55 ~ 150	W01GGI-ND	.61	5.19	43.23
		200	50	1.0	-55 ~ 150	W02GGI-ND	.61	5.19	43.23
		400	50	1.0	-55 ~ 150	W04GGI-ND	.61	5.19	43.23
		600	50	1.0	-55 ~ 150	W06GGI-ND	.61	5.19	43.23
		800	50	1.0	-55 ~ 150	W08GGI-ND	.61	5.19	43.23
		1000	50	1.0	-55 ~ 150	W10GGI-ND	.61	5.19	43.23
4	2.0	50	30	1.1	-55 ~ 165	2KBP005M-ND	.69	5.89	—
		100	30	1.1	-55 ~ 165	2KBP01M-ND	.69	5.89	—
		200	30	1.1	-55 ~ 165	2KBP02M-ND	.69	5.89	—
		400	30	1.1	-55 ~ 165	2KBP04M-ND	.69	5.89	—
		600	30	1.1	-55 ~ 165	2KBP06M-ND	.69	5.89	—
		800	30	1.1	-55 ~ 165	2KBP08M-ND	.69	5.89	—
		1000	30	1.1	-55 ~ 165	2KBP10M-ND	.69	5.89	—
5	4.0	50	200	1.1	-50 ~ 150	KBL005-ND	1.86	16.97	155.25
		100	200	1.1	-50 ~ 150	KBL01-ND	1.90	17.34	158.63
		200	200	1.1	-50 ~ 150	KBL02-ND	1.97	17.92	163.88
		400	200	1.1	-50 ~ 150	KBL04-ND	2.07	18.86	172.50
		600	200	1.1	-50 ~ 150	KBL06-ND	2.12	19.27	176.25
		800	200	1.1	-50 ~ 150	KBL08-ND	2.16	19.68	180.00
		1000	200	1.1	-50 ~ 150	KBL10-ND	2.25	20.50	187.50
6	6.0	50	175	1.0	-55 ~ 150	GBPC6005-ND	2.45	21.04	175.30
		100	175	1.0	-55 ~ 150	GBPC601-ND	2.45	21.04	175.30
		200	175	1.0	-55 ~ 150	GBPC602-ND	2.45	21.04	175.30
		400	175	1.0	-55 ~ 150	GBPC604-ND	2.45	21.04	175.30
		600	175	1.0	-55 ~ 150	GBPC606-ND	2.45	21.04	175.30
		800	175	1.0	-55 ~ 150	GBPC608-ND	2.45	21.04	175.30
		1000	175	1.0	-55 ~ 150	GBPC610-ND	2.45	21.04	175.30
7	12	50	200	1.1	-55 ~ 150	GBPC12005-ND	3.50	30.00	250.00
		100	200	1.1	-55 ~ 150	GBPC1201-ND	3.50	30.00	250.00
		200	200	1.1	-55 ~ 150	GBPC1202-ND	3.50	30.00	250.00
		400	200	1.1	-55 ~ 150	GBPC1204-ND	3.50	30.00	250.00
		600	200	1.1	-55 ~ 150	GBPC1206-ND	3.50	30.00	250.00
		800	200	1.1	-55 ~ 150	GBPC1208-ND	3.50	30.00	250.00
		1000	200	1.1	-55 ~ 150	GBPC1210-ND	3.50	30.00	250.00
	25	50	300	1.1	-55 ~ 150	GBPC25005-ND	5.51	47.21	393.43
		100	300	1.1	-55 ~ 150	GBPC2501GI-ND	5.51	47.21	393.43
		200	300	1.1	-55 ~ 150	GBPC2502GI-ND	5.51	47.21	393.43
		400	300	1.1	-55 ~ 150	GBPC2504GI-ND	5.51	47.21	393.43
		600	300	1.1	-55 ~ 150	GBPC2506GI-ND	5.51	47.21	393.43
		800	300	1.1	-55 ~ 150	GBPC2508GI-ND	5.51	47.21	393.43
		1000	300	1.1	-55 ~ 150	GBPC2510GI-ND	5.51	47.21	393.43
	35	50	400	1.1	-55 ~ 150	GBPC35005-ND	6.37	54.59	454.90
		100	400	1.1	-55 ~ 150	GBPC3501GI-ND	6.37	54.59	454.90
		200	400	1.1	-55 ~ 150	GBPC3502GI-ND	6.37	54.59	454.90
		400	400	1.1	-55 ~ 150	GBPC3504GI-ND	6.37	54.59	454.90
		600	400	1.1	-55 ~ 150	GBPC3506GI-ND	6.37	54.59	454.90
		800	400	1.1	-55 ~ 150	GBPC3508GI-ND	6.37	54.59	454.90
		1000	400	1.1	-55 ~ 150	GBPC3510GI-ND	6.37	54.59	454.90

Fig.	Max. Avg. Rect. Current (A)	Max. Peak Rev. Voltage (V)	Peak Forward Surge Current 8.3ms (A)	Max. Instant. Forward Voltage (V)	Typ. Rev. Recovery Time (µS)	Oper. Junction Temp. (°C)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 1,500	1,800
Miniature Glass Passivated Single-Phase Surface Mount Bridge Rectifier													
8	1.0	200	50	1.1	5.0	-55 ~ 150	DF02SGICT-ND	.53	4.50	37.50	DF02SGITR-ND	259.50/M	—
		400	50	1.1	5.0	-55 ~ 150	DF04SGICT-ND	.53	4.50	37.50	DF04SGITR-ND	259.50/M	—
		600	50	1.1	5.0	-55 ~ 150	DF06SGICT-ND	.56	4.80	40.00	DF06SGITR-ND	259.50/M	—
Surface Mount Schottky Rectifier — DO-214AC													
9	1.0	20	30	0.50	0.5	-65 ~ 125	SS12GICT-ND	.35	3.00	25.00	SS12GITR-ND	—	150.00/M
		60	30	0.75	0.5	-65 ~ 125	SS16GICT-ND	.35	3.00	25.00	SS16GITR-ND	—	150.00/M
Surface Mount Schottky Barrier Rectifier — DO-213AB													
10	1.0	20	30	0.50	0.5	-55 ~ 125	SGL41-20GICT-ND	.28	2.40	20.00	SGL41-20GITR-ND	120.00/M	—
		40	30	0.50	0.5	-55 ~ 125	SGL41-40GICT-ND	.28	2.40	20.00	SGL41-40GITR-ND	120.00/M	—
		60	30	0.70	0.5	-55 ~ 150	SGL41-60GICT-ND	.28	2.40	20.00	SGL41-60GITR-ND	120.00/M	—

B

Electrical Characteristics @ 25°C unless otherwise specified.

Series	DO-41	MELF	DO-214AA	DO-214AB	R-6
Average Forward	1.0A	1.0A	2.0A	3.0A	6.0A
Current, $I_{F(AV)}$ Peak Forward Surge Current, I_{FSM}	T_A = 75°C 30A 8.3ms, half sine	T_A = 75°C 30A 8.3 ms, half sine	T_J = 75°C 70A 8.3ms, half sine, T_J = 150°C	T_J = 120°C 100A 8.3ms, half sine	T_A = 60°C 400A 8.3ms, half sine
Maximum Forward Voltage, V_F	1.1V I_{FM} = 1.0A; T_J = 25°C*	1.1V I_{FM} = 1.0A; T_J = 25°C*	1.15V I_{FM} = 1.0A; T_J = 25°C*	1.20V I_{FM} = 3.0A; T_J = 25°C†	0.95V I_{FM} = 6.0A; T_J = 25°C‡
Maximum Reverse Recovery Time, T_{rr}	—	—	2.0µs I_F=0.5A I_R=1.0A I_{rr}=0.25A	2.5µs I_F=0.5A I_R=1.0A I_{rr}=0.25A	—

Series	MINIMELF	SOD-123	SOD-323	SOT-23	SOT-323
Average Forward Current, $I_{F(AV)}$	250mA A =25°C	—	250mA	—	150mA
Peak Forward Surge Current, I_{FSM}	1.0A 8.3ms, half sine	1.0A 8.3ms, half sine	1.0A	1.0A 8.3ms, half sine	—
Maximum Forward Voltage, V_F	1.25V I_{FM}=200mA	1.25V I_{FM}=200mA	1.25V I_{FM}=200mA	.885V I_{FM}=10mA	1.0V I_{FM}=200mA
Maximum Reverse Recovery Time, T_{rr}	50nS I_F-30mA I_R=30mA I_{RR}=3.0mA	50nS I_F-30mA I_R=30mA I_{RR}=3.0mA	50nS I_F-30mA I_R=30mA I_{RR}=3.0mA	4nS I_F=10mA	50nS I_F-30mA I_R=30mA I_{RR}=3.0mA

* Pulse Test: Pulse width 300 µsec, Duty cycle 2% † Pulse Test: Pulse width 200 µsec, Duty cycle 2% ‡ Pulse Test: Pulse width 300 µsec, Duty cycle 1%

Fig.	Max. Peak Reverse Voltage	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape & Reel Pricing Size	Pricing	MCC Part No.
			DO-41 — 1 Amp Rectifier						
1	50	1N4001MSCT-ND	—	.43	3.40	1N4001MSTR-ND	5,000	17.00/M	1N4001
	100	1N4002MSCT-ND	—	.43	3.40	1N4002MSTR-ND	5,000	17.00/M	1N4002
	200	1N4003MSCT-ND	—	.43	3.40	1N4003MSTR-ND	5,000	17.00/M	1N4003
	400	1N4004MSCT-ND	—	.43	3.40	1N4004MSTR-ND	5,000	17.00/M	1N4004
	600	1N4005MSCT-ND	—	.43	3.40	1N4005MSTR-ND	5,000	17.00/M	1N4005
	800	1N4006MSCT-ND	—	.43	3.40	1N4006MSTR-ND	5,000	17.00/M	1N4006
	1000	1N4007MSCT-ND	—	.43	3.40	1N4007MSTR-ND	5,000	17.00/M	1N4007
			MELF — 1 Amp Glass Passivated Rectifier — SMT						
2	50	DL4001MSCT-ND	—	1.75	14.88	DL4001MSTR-ND	5,000	70.00/M	DL4001
	100	DL4002MSCT-ND	—	1.75	14.88	DL4002MSTR-ND	5,000	70.00/M	DL4002
	200	DL4003MSCT-ND	—	1.75	14.88	DL4003MSTR-ND	5,000	70.00/M	DL4003
	400	DL4004MSCT-ND	—	1.75	14.88	DL4004MSTR-ND	5,000	70.00/M	DL4004
	600	DL4005MSCT-ND	—	1.75	14.88	DL4005MSTR-ND	5,000	70.00/M	DL4005
	800	DL4006MSCT-ND	—	1.75	14.88	DL4006MSTR-ND	5,000	70.00/M	DL4006
	1000	DL4007MSCT-ND	—	1.75	14.88	DL4007MSTR-ND	5,000	70.00/M	DL4007
			DO-214AA — 2 Amp Silicon Rectifier — SMT						
3	50	S2AMSCT-ND	—	2.25	18.00	S2AMSTR-ND	3,000	90.00/M	S2A
	100	S2BMSCT-ND	—	2.25	18.00	S2BMSTR-ND	3,000	90.00/M	S2B
	200	S2DMSCT-ND	—	2.25	18.00	S2DMSTR-ND	3,000	90.00/M	S2D
	400	S2GMSCT-ND	—	2.25	18.00	S2GMSTR-ND	3,000	90.00/M	S2G
	600	S2JMSCT-ND	—	2.25	18.00	S2JMSTR-ND	3,000	90.00/M	S2J
	800	S2KMSCT-ND	—	2.25	18.00	S2KMSTR-ND	3,000	90.00/M	S2K
	1000	S2MMSCT-ND	—	2.25	18.00	S2MMSTR-ND	3,000	90.00/M	S2M
			DO-214AB — 3 Amp Silicon Rectifier — SMT						
4	50	S3AMSCT-ND	—	5.00	40.00	S3AMSTR-ND	3,000	200.00/M	S3A
	100	S3BMSCT-ND	—	5.00	40.00	S3BMSTR-ND	3,000	200.00/M	S3B
	200	S3DMSCT-ND	—	5.00	40.00	S3DMSTR-ND	3,000	200.00/M	S3D
	400	S3GMSCT-ND	—	5.00	40.00	S3GMSTR-ND	3,000	200.00/M	S3G
	600	S3JMSCT-ND	—	5.00	40.00	S3JMSTR-ND	3,000	200.00/M	S3J
	800	S3KMSCT-ND	—	5.00	40.00	S3KMSTR-ND	3,000	200.00/M	S3K
	1000	S3MMSCT-ND	—	5.00	40.00	S3MMSTR-ND	3,000	200.00/M	S3M
			R-6 — 6 Amp Rectifier						
5	50	6A05MSCT-ND	64	4.68	34.00	6A05MSTR-ND	500	127.50	6A05
	100	6A1MSCT-ND	64	4.68	34.00	6A1MSTR-ND	500	127.50	6A1
	200	6A2MSCT-ND	64	4.68	34.00	6A2MSTR-ND	500	127.50	6A2
	400	6A4MSCT-ND	64	4.68	34.00	6A4MSTR-ND	500	127.50	6A4
	600	6A6MSCT-ND	64	4.68	34.00	6A6MSTR-ND	500	127.50	6A6
	800	6A8MSCT-ND	64	4.68	34.00	6A8MSTR-ND	500	127.50	6A8
	1000	6A10MSCT-ND	64	4.68	34.00	6A10MSTR-ND	500	127.50	6A10
			NEW! MINIMELF — 1 Amp Small Signal Diode — Lead Free/RoHS Compliant NEW!						
6	200	BAV102TPMSCT-ND	—	2.00	16.00	BAV102TPMSTR-ND	2,500	80.00/M	BAV102-TP
	250	BAV103TPMSCT-ND	—	2.00	16.00	BAV103TPMSTR-ND	2,500	80.00/M	BAV103-TP
			NEW! SOD-123 — 1 Amp Small Signal Diode — Lead Free/RoHS Compliant NEW!						
7	120	BAV19WTPMSCT-ND	—	1.00	8.00	BAV19WTPMSTR-ND	3,000	40.00/M	BAV19W-TP
	200	BAV20WTPMSCT-ND	—	1.00	8.00	BAV20WTPMSTR-ND	3,000	40.00/M	BAV20W-TP
	250	BAV21WTPMSCT-ND	—	1.00	8.00	BAV21WTPMSTR-ND	3,000	40.00/M	BAV21W-TP
			NEW! SOD-323 — 1 Amp Small Signal Diode — Lead Free/RoHS Compliant NEW!						
8	120	BAV19WSTPMSCT-ND	—	1.00	8.00	BAV19WSTPMSTR-ND	3,000	40.00/M	BAV19WS-TP
	200	BAV20WSTPMSCT-ND	—	1.00	8.00	BAV20WSTPMSTR-ND	3,000	40.00/M	BAV20WS-TP
	250	BAV21WSTPMSCT-ND	—	1.00	8.00	BAV21WSTPMSTR-ND	3,000	40.00/M	BAV21WS-TP
			NEW! SOT-23 — 1 Amp Silicon Epitaxial Diode — Lead Free/RoHS Compliant NEW!						
9	180	MMBD1501TPMSCT-ND	—	2.00	16.00	MMBD1501TPMSTR-ND	3,000	80.00/M	MMBD1501-TP
	180	MMBD1503TPMSCT-ND	—	2.00	16.00	MMBD1503TPMSTR-ND	3,000	80.00/M	MMBD1503-TP
	180	MMBD1504TPMSCT-ND	—	2.00	16.00	MMBD1504TPMSTR-ND	3,000	80.00/M	MMBD1504-TP
	180	MMBD1505TPMSCT-ND	—	2.00	16.00	MMBD1505TPMSTR-ND	3,000	80.00/M	MMBD1505-TP
	100	MMBD4148TPMSCT-ND	—	1.00	8.00	MMBD4148TPMSTR-ND	3,000	40.00/M	MMBD4148-TP
	100	MMBD914TPMSCT-ND	—	1.00	8.00	MMBD914TPMSTR-ND	3,000	40.00/M	MMBD914-TP
			NEW! SOT-323 — 150mA Switching Diode — Lead Free/RoHS Compliant NEW!						
10	100	MMBD4148WTTPMSCT-ND	—	1.00	8.00	MMBD4148WTTPMSTR-ND	3,000	40.00/M	MMBD4148WT-TP

Fig. 1 — DO-41

Dimensions (mm)		
Dim.	Min.	Max.
A	4.22	5.21
B	2.03	2.72
C	.71	.86
D	25.40	—

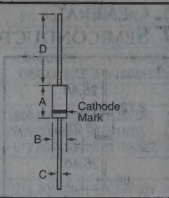


Fig. 2 — MELF, SMT

Dimensions (mm)		
Dim.	Min.	Max.
A	4.83	5.21
B	—	.56
C	2.41	2.51

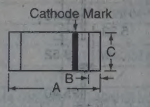


Fig. 3 — DO-214AA, SMT

Dimensions (mm)		
Dim.	Min.	Max.
A	1.91	2.92
B	2.06	2.21
C	.10	.20
D	—	.51
E	.76	1.52
F	1.65	2.13
G	5.21	5.59
H	4.06	4.57
J	3.30	3.94

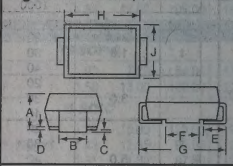


Fig. 4 — DO-214AB, SMT

Dimensions (mm)		
Dim.	Min.	Max.
A	1.91	2.41
B	2.92	3.07
C	.10	.20
D	—	.51
E	.76	1.52
G	7.75	8.13
H	6.60	7.11
J	5.59	6.22

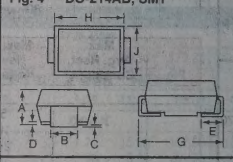


Fig. 5 — R-6

Dimensions (mm)		
Dim.	Min.	Max.
A	8.64	9.14
B	8.64	9.14
C	1.22	1.32
D	25.40	—

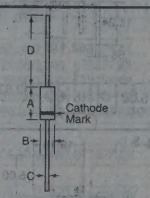


Fig. 6 — MINIMELF, SMT *NEW!*

Dimensions (mm)		
Dim.	Min.	Max.
A	3.40	3.60
B	.20	.40
C	1.40	1.50

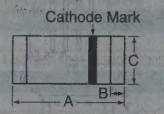


Fig. 7 — SOD-123 *NEW!*

Dimensions (mm)		
Dim.	Min.	Max.
A	3.55	3.85
B	2.55	2.85
C	1.40	1.80
D	—	1.35
E	.30	.75
G	.15	—
H	—	.25
J	—	.15

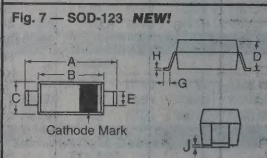


Fig. 8 — SOD-323 *NEW!*

Dimensions (mm)		
Dim.	Min.	Max.
A	2.30	2.70
B	1.60	1.80
C	1.15	1.35
D	.80	1.15
E	.25	.40
G	.10	.45
H	.10	.25
J	—	.15

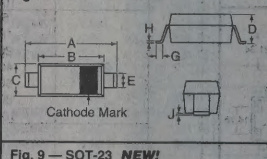


Fig. 9 — SOT-23 *NEW!*

Dimensions (mm)		
Dim.	Min.	Max.
A	2.80	3.04
B	2.10	2.64
C	1.20	1.40
D	.89	1.03
E	1.78	2.05
F	.45	.60
G	.013	.100
H	.89	1.12
J	.085	.180
K	.37	.51

Part No.	1	2	3
1501	A	—	K
1503	A	K	K/A
1504	A	A	K
1505	A	K	A
4148	A	—	K
914	K	—	A

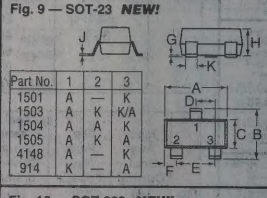
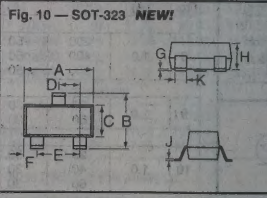


Fig. 10 — SOT-323 *NEW!*

Dimensions (mm)		
Dim.	Min.	Max.
A	1.80	2.20
B	1.15	2.20
C	2.00	1.35
D	(.65 Nominal)	
E	1.20	1.40
F	.30	.40
G	—	.10
H	.90	1.10
J	.05	.15
K	.30	.40



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RF and Microwave Products

Amplifiers

Package	Typ. Bias (V/mA)	Freq. Range (GHz)	Gain @ 2GHz (dB)	P_{1dB} @ 2GHz (dBm)	NF @ 2GHz (dB)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 3,000	Agilent Part No.
SOT-363	3/14	DC – 3.5	21.5	2.2	3.8	516-1490-1-ND	.72	6.00	48.00	516-1490-2-ND	360.00/M	ABA-31563-TR1G
	3/37	DC – 2.5	19.0	8.4	3.5	516-1491-1-ND	.78	6.50	52.00	516-1491-2-ND	390.00/M	ABA-32563-TR1G
	5/18	DC – 3.5	21.5	1.8	3.7	516-1492-1-ND	.69	5.75	46.00	516-1492-2-ND	345.00/M	ABA-51563-TR1
	5/35	DC – 3.5	21.5	9.8	3.3	516-1493-1-ND	.75	6.25	50.00	516-1493-2-ND	375.00/M	ABA-52563-TR1
	5/46	DC – 3.5	21.5	12.7	3.5	516-1494-1-ND	.93	7.75	62.00	516-1494-2-ND	465.00/M	ABA-53563-TR1
	5/79	DC – 3.4	23.0	16.1	4.4	516-1495-1-ND	.99	8.25	66.00	516-1495-2-ND	495.00/M	ABA-54563-TR1G

Package	Freq. Range (GHz)	Test Freq. (GHz)	V_{dd} (V)	I_{dd} (mA)	NF (dB)	Gain (dB)	P_{1dB} (dBm)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 3,000	Agilent Part No.
SOT-343	DC – 2.5	0.9	3.4	15.0	3.7	15.1	1.9	516-1496-1-ND	.60	5.00	40.00	516-1496-2-ND	300.00/M	ADA-4543-TR1
	DC – 2.5	0.9	3.5	35.0	4.0	17.0	13.4	516-1497-1-ND	.66	5.50	44.00	516-1497-2-ND	330.00/M	ADA-4643-TR1
	DC – 2.5	0.9	3.8	60.0	4.2	16.5	17.1	516-1498-1-ND	.72	6.00	48.00	516-1498-2-ND	360.00/M	ADA-4743-TR1
SOT-363	0.1 – 6	2.0	3.0	42.0	2.8	12.4	14.8	516-1510-1-ND	2.22	18.50	148.00	516-1510-2-ND	1110.00/M	MGA-81563-TR1
	0.1 – 6	2.0	3.0	84.0	2.2	13.2	17.3	516-1511-1-ND	2.61	21.75	174.00	516-1511-2-ND	1305.00/M	MGA-82563-TR1
	0.5 – 4	2.0	3.0	4.5	1.8	14.0	-2.0	516-1512-1-ND	2.52	21.00	168.00	516-1512-2-ND	1260.00/M	MGA-87563-TR1

Package	Freq. Range (GHz)	NF @ Freq. (dB)	Gain @ Freq. (dB)	P_{1dB} @ Freq. (dBm)	IP_3 @ Freq. (dBm)	V_{cc} (V) Min.	Device Volt. (V)	Device I (mA) Max.	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Tape and Reel* Size	Pricing	Agilent Part No.
105-SMD	0.05 – 1.3	3.6/0.5GHz	12.0/0.5GHz	17.5/0.5GHz	30.0/0.5GHz	8	5.5	80	516-1517-1-ND	3.75	31.25	250.00	500	937.50	MSA-1105-TR1
86-SMD	DC – 0.8	3.0/0.5GHz	18.5/0.5GHz	2.0/0.5GHz	14.5/0.5GHz	5	3.5	50	516-1515-1-ND	2.55	21.25	170.00	1,000	1275.00	MSA-0686-TR1
	DC – 4	3.3/1GHz	22.5/1GHz	12.5/1GHz	27.0/1GHz	10	7.8	65	516-1516-1-ND	1.95	16.25	130.00	1,000	975.00	MSA-0886-TR1
SOT-143	DC – 2.3	6.0/1GHz	11.0/1GHz	9.0/1GHz	22.0/1GHz	7	4.7	60	516-1513-1-ND	2.55	21.25	170.00	3,000	1275.00/M	MSA-0311-TR1
	DC – 0.7	3.0/0.5GHz	18.0/0.5GHz	2.0/0.5GHz	14.0/0.5GHz	5	3.3	40	516-1514-1-ND	1.80	15.00	120.00	3,000	900.00/M	MSA-0611-TR1
	DC – 0.5	3.3/0.9GHz	17.5/0.9GHz	10.0/0.9GHz	20.0/0.9GHz	5	3.6	40	516-1518-1-ND	3.15	26.25	210.00	3,000	1575.00/M	MSA-2111-TR1
	DC – 0.5	3.5/1GHz	18.4/1GHz	9.0/1GHz	23.0/1GHz	7	4.5	50	516-1519-1-ND	3.15	26.25	210.00	3,000	1575.00/M	MSA-3111-TR1

*For Tape and Reel Part No. change 1-ND to 2-ND

NPN Silicon Bipolar Transistors

Package	Frequency (GHz)	V_{ce} (V)	NF_O (dB)	G_a (dB)	P_{1dB} (dBm)	G_{1dB} (dBm)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 3,000	Agilent Part No.
SOT-23	0.9	2.7	1.0	12.5	13.0	15.0	516-1501-1-ND	.36	3.00	24.00	516-1501-2-ND	180.00/M	AT-32033-TR1
	0.9	5.0	1.0	14.5	14.5	14.5	516-1505-1-ND	.39	3.25	26.00	516-1505-2-ND	195.00/M	AT-41533-TR1
SOT-143	0.9	2.7	1.0	14.0	13.0	16.5	516-1499-1-ND	.39	3.25	26.00	516-1499-2-ND	195.00/M	AT-32011-TR1
	0.9	5.0	1.0	15.5	14.5	17.5	516-1503-1-ND	.39	3.25	26.00	516-1503-2-ND	195.00/M	AT-41511-TR1
SOT-323	0.9	2.7	1.0	15.0	13.0	15.5	516-1500-1-ND	.39	3.25	26.00	516-1500-2-ND	195.00/M	AT-32032-TR1
	0.9	5.0	1.0	15.5	14.5	14.5	516-1504-1-ND	.45	3.75	30.00	516-1504-2-ND	225.00/M	AT-41532-TR1
SOT-363	0.9	2.7	1.1	14.5	12.0	16.0	516-1502-1-ND	.51	4.25	34.00	516-1502-2-ND	255.00/M	AT-32063-TR1

HEMTs

Package	Gate Width (µm)	Freq. Range (GHz)	Test Freq. (GHz)	Vdd (V)	I_{dd} (mA)	NF_O (dB)	G_a (dB)	OIP3 (dBm)	P_{1dB} (dBm)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Tape and Reel Pricing* 3,000	Agilent Part No.
SOT-343	800	0.45 – 6	1.9	4.0	60	0.5	17.5	31.5	20.0	516-1506-1-ND	3.51	29.25	234.00	1755.00/M	ATF-34143-TR1
	800	0.45 – 6	2.0	3.0	60	0.5	16.6	36.2	20.4	516-1507-1-ND	4.23	35.25	282.00	2115.00/M	ATF-54143-TR1
	400	0.45 – 6	2.0	2.7	10	0.6	17.7	24.2	14.4	516-1508-1-ND	1.80	15.00	120.00	900.00/M	ATF-55143-TR1
MiniPak	400	0.45 – 10	2.0	2.7	10	0.5	17.5	24.1	14.6	516-1509-1-ND	1.80	15.00	120.00	900.00/M	ATF-551M4-TR1

*For Tape and Reel Part No. change 1-ND to 2-ND

B

Silicon Switching Diodes

Fig.	Forward Current If (mA)	Surge Current Ifs (A)	Rev. Volt. (Vr)	Max. For. Voltage (Vf)	Recovery Time Trr (ns)	Power Dissip. mW	Digi-Key Part No.	Cut Tape Pricing 10	100	1,000	Digi-Key Part No.	Tape & Reel Size	Pricing	Infineon Part No.
SOT-23														
1	250	0,625	250	1	50	350	BAS21INCT-ND	1.71	9.63	34.78	BAS21INTR-ND	3,000	19.80/M	BAS21E6327
	250	4.5	75	1.2	4	370	SMBD914INCT-ND	1.89	10.62	38.35	SMBD914INTR-ND	3,000	32.00/M	SMBD914E6327
	250	4.5	75	1.2	6	370	BAS16INCT-ND	1.54	8.64	31.20	BAS16INTR-ND	3,000	17.76/M	BAS16E6327
	120	0.2	40	1	0.1	250	BAS40INCT-ND	1.69	11.70	51.75	BAS40INTR-ND	3,000	45.00/M	BAS40E6327
	250	4.5	75	0.715	4	370	MMBD914LT1INCT-ND	1.89	10.62	47.20	MMBD914LT1INTR-ND	3,000	40.00/M	MMBD914LT1
	70	0.1	70	1	0.1	250	BAS70INCT-ND	1.69	11.70	51.75	BAS70INTR-ND	3,000	45.00/M	BAS70E6327
2	200	4.5	70	1.2	3	250	BAV170INCT-ND	2.02	11.34	40.95	BAV170INTR-ND	3,000	23.31/M	BAV170E6327
	200	4.5	70	1.2	6	250	BAV70INCT-ND	1.50	8.46	30.55	BAV70INTR-ND	3,000	17.39/M	BAV70E6327
	120	0.2	40	1	0.1	250	BAS4005INCT-ND	1.83	12.69	56.12	BAS4005INTR-ND	3,000	40.00/M	BAS4005E6327
	70	0.1	70	1	0.1	250	BAS7005INCT-ND	1.83	12.69	56.12	BAS7005INTR-ND	3,000	40.00/M	BAS7005E6327
3	200	4.5	70	1.2	3	330	BAV199INCT-ND	2.02	11.34	40.95	BAV199INTR-ND	3,000	23.31/M	BAV199E6327
	200	4.5	70	1.2	6	330	BAV99INCT-ND	1.50	8.46	30.55	BAV99INTR-ND	3,000	17.39/M	BAV99E6327
	200	4.5	100	1.1	15	330	SMBD7000INCT-ND	1.71	9.63	34.78	SMBD7000INTR-ND	3,000	19.80/M	SMBD7000E6327
	200	4.5	100	0.7	15	330	MMBD7000LT1INCT-ND	1.71	9.63	34.78	MMBD7000LT1INTR-ND	3,000	33.00/M	MMBD7000LT1
	120	0.2	40	1	0.1	250	BAS4004INCT-ND	1.83	12.69	56.12	BAS4004INTR-ND	3,000	40.00/M	BAS4004E6327
	70	0.1	70	1	0.1	250	BAS7004INCT-ND	1.83	12.69	56.12	BAS7004INTR-ND	3,000	40.00/M	BAS7004E6327
4	200	4.5	70	1.2	6	330	BAW56INCT-ND	1.50	8.46	30.55	BAW56INTR-ND	3,000	17.39/M	BAW56E6327
	120	0.2	40	1	0.1	250	BAS4006INCT-ND	1.83	12.69	56.12	BAS4006INTR-ND	3,000	40.00/M	BAS4006E6327
SOT-143														
6	140	—	50	1.3	6	210	BGX50AINCT-ND	2.34	16.50	75.00	BGX50AINTR-ND	3,000	61.13/M	BGX50AE6327
SOT-323														
3	250	0.8	40	0.75	—	250	BAT6404WINCT-ND	1.65	11.44	50.60	BAT6404WINTR-ND	3,000	44.00/M	BAT6404WE6327

Silicon Variable Capacitance Diodes

Package	Fig.	Reverse Voltage Vr	Forward current If (mA)	Cap. Ratio Ct2/Ct25 (pF)	Diode Cap. VR=2V (Ct) (pF)	Series Res. (rs)Ω	Digi-Key Part No.	Cut Tape Pricing 10	100	1,000	Digi-Key Part No.	Tape & Reel Size	Pricing	Infineon Part No.
SOD-323	5	30	20	6.7	15	0.55	BB535INCT-ND	2.19	15.40	70.00	BB535INTR-ND	3,000	57.00/M	BB535E7908
				10.4	29.7	0.65	BB639INCT-ND	2.81	19.80	90.00	BB639INTR-ND	3,000	81.00/M	BB639E7908
				12.4*	9.3‡	1.8	BB833INCT-ND	3.55	25.56	127.80	BB833INTR-ND	3,000	109.00/M	BB833E6327

* C_{T1}/C_{T28} ‡ V_R = 1V

Silicon Carbide Schottky Diodes

Package	Fig.	V_{RRM} (V)	Q_c (nC)	If (A)	Ptot (W)	Digi-Key Part No.	Pricing 10	100	1,000	Infineon Part No.
TO-220-2-2	7	300	23	10	65	SDT10S30IN-ND	78.02	650.13	5851.17	SDT10S30
TO-220-2-2	7	600	13	4	36.5	SDT04S60IN-ND	41.84	343.33	3004.12	SDT04S60
TO-220-2-2	7	600	21	6	57.6	SDT06S60IN-ND	65.99	545.72	4815.18	SDT06S60
TO-220-2-2	7	600	30	12	88.2	SDT12S60IN-ND	136.94	1147.75	10290.15	SDT12S60
TO-220-3-1	8	300	23	2 x 10	65	SDP20S30IN-ND	148.14	1241.80	11110.86	SPDP20S30

Silicon AF Transistors

Package	Type	Vceo	Vcbo	Ic (mA)	Hfe	Digi-Key Part No.	Cut Tape Pricing 10	100	1,000	Digi-Key Part No.	Tape & Reel Size	Pricing	Infineon Part No.
	PNP	30	30	100	20000	SMBTA64INCT-ND*	1.98	13.73	60.72	SMBTA64INTR-ND*	3,000	44.88/M	SMBTA64E6327
	NPN	45	45	100	460	BCX70KINCT-ND	1.92	10.80	39.00	BCX70KINTR-ND	3,000	32.00/M	BCX70KE6327
	NPN	45	50	100	140	BC847AINCT-ND	1.49	8.37	30.23	BC847AINTR-ND	3,000	17.21/M	BC847AE6327
	NPN	45	50	100	480	BC847CINCT-ND	1.49	8.37	30.23	BC847CINTR-ND	3,000	17.21/M	BC847CE6327
	PNP	45	50	100	480	BC857CINCT-ND	1.49	8.37	30.23	BC857CINTR-ND	3,000	17.21/M	BC857CE6327
SOT-23	NPN	60	45	500	2000	BCV47INCT-ND*	2.47	16.06	66.69	BCV47INTR-ND*	3,000	41.99/M	BCV47E6327
	PNP	60	80	500	2000	BCV46INCT-ND*	2.47	16.06	66.69	BCV46INTR-ND*	3,000	41.99/M	BCV46E6327
	NPN	80	80	500	100	SMBTA06INCT-ND	1.34	8.71	36.18	SMBTA06INTR-ND	10,000	21.85/M	SMBTA06E6433
	NPN	80	80	500	100	MMBTA06LT1INCT-ND	1.38	8.97	37.26	MMBTA06LT1INTR-ND	3,000	42.00/M	MMBTA06LT1
	PNP	80	80	500	100	SMBTA56INCT-ND	1.34	8.71	36.18	SMBTA56INTR-ND	10,000	21.85/M	SMBTA56E6433
	PNP	300	300	500	40	SMBTA92INCT-ND	1.92	12.48	51.84	SMBTA92INTR-ND	3,000	45.00/M	SMBTA92E6327
	PNP	300	300	500	40	MMBTA92LT1INCT-ND	1.91	12.42	51.57	MMBTA92LT1INTR-ND	3,000	60.00/M	MMBTA92LT1
SOT-89	PNP	80	100	1000	25	BCX5310INCT-ND	2.80	20.16	—	BCX5310INTR-ND	1,000	96.88	BCX5310E6327
	NPN	45	100	1000	25	BCX5410INCT-ND	2.80	20.16	—	BCX5410INTR-ND	1,000	96.88	BCX5410E6327
	PNP	20	25	1000	160	BCX6916INCT-ND	3.89	27.97	—	BCX6916INTR-ND	1,000	134.00	BCX6916E6327

* Darlington

Silicon RF Transistors

Package	Type	Vceo	Vcbo	Ic (mA)	Hfe	Digi-Key Part No.	Cut Tape Pricing 10	100	1,000	Digi-Key Part No.	Tape & Reel Size	Pricing	Infineon Part No.
SOT-343	NPN	4.5	15	12	90	BFP405INCT-ND	4.36	32.67	174.24	BFP405INTR-ND	3,000	163.00/M	BFP405E6327
		4.5	15	35	100	BFP420INCT-ND	4.44	33.33	177.76	BFP420INTR-ND	3,000	167.00/M	BFP420E6327
		4.5	15	100	80	BFP450INCT-ND	5.64	42.28	242.73	BFP450INTR-ND	3,000	227.00/M	BFP450E6327
		2.5	10	40	110	BFP520INCT-ND	5.64	42.28	242.73	BFP520INTR-ND	3,000	227.00/M	BFP520E6327
SOT-23	PNP	15	20	25	50	BFT92INCT-ND	3.45	25.89	138.08	BFT92INTR-ND	3,000	132.04/M	BFT92E6327

Silicon Switching Transistors

Package	Type	Vceo	Vcbo	Ic (mA)	Hfe	Digi-Key Part No.	Cut Tape Pricing 10	100	1,000	Digi-Key Part No.	Tape & Reel Size	Pricing	Infineon Part No.
	NPN	40	75	600	100	SMBT2222AINCT-ND	1.65	9.27	33.48	SMBT2222AINTR-ND	3,000	28.00/M	SMBT2222AE6327
	NPN	40	75	600	100	MMBT2222ALT1INCT-ND	1.74	9.81	35.43	MMBT2222ALT1INTR-ND	3,000	34.00/M	MMBT2222ALT1
	PNP	60	60	600	100	SMBT2907AINCT-ND	1.58	8.91	32.18	SMBT2907AINTR-ND	3,000	27.00/M	SMBT2907AE6327
	PNP	60	60	600	100	MMBT2907ALT1INCT-ND	1.55	8.73	31.53	MMBT2907ALT1INTR-ND	3,000	30.00/M	MMBT2907ALT1
SOT-23	NPN	40	60	200	100	SMBT3904INCT-ND	1.50	8.46	30.55	SMBT3904INTR-ND	3,000	25.00/M	SMBT3904E6327
	NPN	40	60	200	100	MMBT3904LT1INCT-ND	1.44	8.10	29.25	MMBT3904LT1INTR-ND	3,000	26.00/M	MMBT3904LT1
	PNP	40	40	200	100	SMBT3906INCT-ND	1.50	8.46	30.55	SMBT3906INTR-ND	3,000	25.00/M	SMBT3906E6327
	PNP	40	40	200	100	MMBT3906LT1INCT-ND	1.44	8.10	29.25	MMBT3906LT1INTR-ND	3,000	26.00/M	MMBT3906LT1
	NPN	30	30	300	20000	SMBTA14INCT-ND*	1.98	13.73	60.72	SMBTA14INTR-ND*	3,000	44.88/M	SMBTA14E6327

* Darlington

Silicon Digital Transistor

Package	Type	Vceo	Vcbo	Ic (mA)	Hfe	Digi-Key Part No.	Cut Tape Pricing 10	100	1,000	Digi-Key Part No.	Tape & Reel Size	Pricing	Infineon Part No.
SOT-23	NPN	50	50	100	30	BCR133INCT-ND	1.95	10.98	39.65	BCR133INTR-ND	3,000	33.00/M	BCR133E6327

Fig. 1

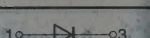


Fig. 2

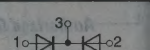


Fig. 3

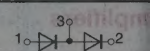


Fig. 4

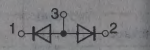


Fig. 5

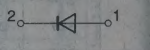


Fig. 6

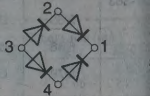


Fig. 7

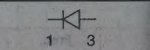
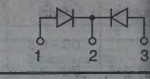
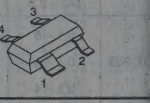


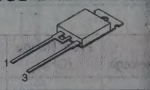
Fig. 8



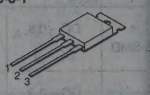
SOT-143



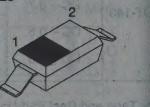
TO-220-2-2



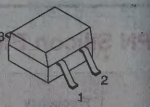
TO-220-3-1



SOD-323

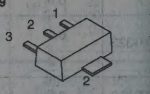


SOT-323

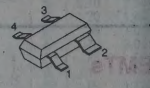


SOT-23

SOT-89



SOT-343



Transistor Pin Out

Pkg	Pin1	Pin 2	Pin 3	Pin 4
SOT-23	B	E	C	—
SOT-89	B	C	E	—
SOT-343	B	E	C	E

BCR133E6327

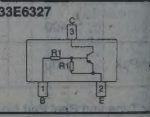


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Fig. 1 — TO-3

Fig. 2 — TO-92

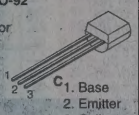


Fig. 3 — TO-218AC

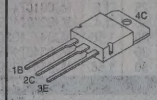


Fig. 4 — TO-220AB

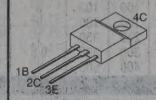


Fig. 5 — TO-220FP

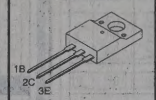


Fig. 6 — TO-225AA

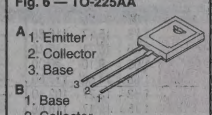


Fig. 7 — TO-264, TO-3PBL

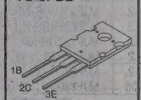


Fig. 8 — SOT-23

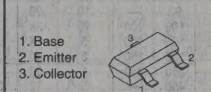


Fig. 9 — SOT-223

Fig. 10 — SOT-323

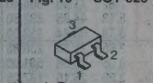


Fig. 11 — SOT-363

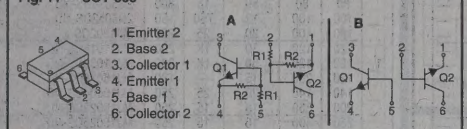


Fig. 12 — 16-SOIC

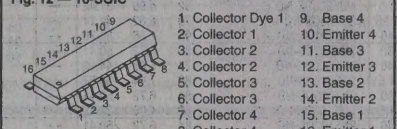


Fig. 13 — SC-59

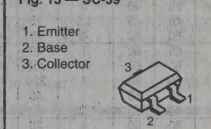


Fig. 14 — SC-74

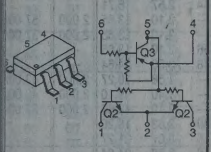


Fig. 15 — SC-75

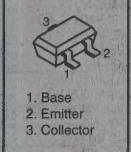


Fig. 16 — DPAK

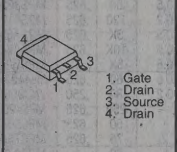


Fig. 17 — SOT-553

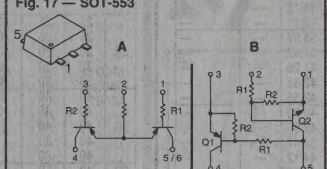


Fig. 18 — SOT-563

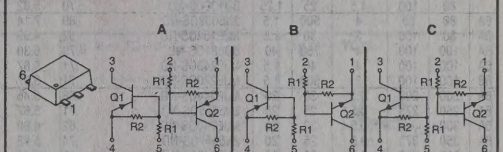


Fig.	VCEO (V)	VCB (V)	Ic (A)	HFE (Min.)	Pd (TA @ 25°C) (W)	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	Tape and Reel* Size	Tape and Reel* Pricing
						NPN					
						TO-3					
	60	100	15	20	115	2N3055OS-ND	2.10	17.50	147.00	—	—
	60	100	20	15	150	2N3772OS-ND	3.89	33.84	252.00	—	—
	60	60	30	40	200	2N5302OS-ND	4.05	35.25	262.50	—	—
	60	60	25	35	200	2N5885OS-ND	4.05	35.25	262.50	—	—
	80	80	50	15	300	2N5686OS-ND	12.88	117.60	929.60	—	—
	80	80	25	35	200	2N5886OS-ND	4.05	35.25	262.50	—	—
	80	80	60	30	300	MJ14002OS-ND	11.20	103.60	784.00	—	—
	90	90	20	20	140	2N5038OS-ND	8.28	75.60	597.60	—	—
	100	100	20	750	160	2N6284OS-ND	5.13	44.65	332.50	—	—
	120	120	30	1K	200	MJ11016OS-ND	3.65	31.80	236.85	—	—
	120	120	50	1K	300	MJ11032OS-ND	8.05	73.50	581.00	—	—
	120	200	15	—	180	MJ15015OS-ND	2.70	22.50	189.00	—	—
	140	160	16	15	150	2N3773OS-ND	3.89	33.84	252.00	—	—
	140	140	20	25	250	MJ15003OS-ND	3.78	32.90	245.00	—	—
	200	350	16	15	250	MJ15022OS-ND	4.05	35.25	262.50	—	—
	250	400	16	15	250	MJ15024OS-ND	4.05	35.25	262.50	—	—
	250	400	16	25	250	MJ21194OS-ND	4.05	35.25	262.50	—	—
	250	400	16	25	250	MJ21196OS-ND	5.81	50.53	376.25	—	—
	250	—	10	20	200	MJ15011OS-ND	4.05	35.25	262.50	—	—
						TO-92					
B	12	20	.05	25	.200	MPS5179OS-ND	.44	2.57	16.71	—	—
B	12	30	.05	20	.350	MPS3563OS-ND	.44	2.57	16.71	—	—
B	15	30	.05	20	.350	MPS918OS-ND	.44	2.57	16.71	—	—
B	15	40	0.2	20	.625	MPS2369OS-ND	.44	2.57	16.71	—	—
C	15	20	—	25	.350	MPSH17OS-ND	.44	2.57	16.71	—	—
	25	25	0.1	—	.625	MPS5172OS-ND	.36	2.10	13.65	—	—
	25	30	0.2	120	.625	2N4124OS-ND	.28	1.64	10.66	—	—
B	25	25	0.5	35	.625	MPS6560OS-ND	.36	2.45	17.00	—	—
	25	25	1	50	.625	MPS6601OS-ND	.36	2.45	17.00	—	—
	25	40	1	300	.625	MPS6521OS-ND	.36	2.45	17.00	—	—
B	25	30	0.2	120	.625	MPS4124RLRAOSCT-ND	—	2.10	13.65	2,000	57.00/M
C	25	30	—	60	.350	MPSH10RLRAOSCT-ND	—	1.93	13.36	2,000	69.00/M
B	25	30	.05	450	.625	2N5089OS-ND	.36	2.10	13.65	—	—
B	30	35	.05	350	.625	2N5088OS-ND	.36	2.10	13.65	—	—
B	30	60	0.6	50	.625	PN2222OS-ND	.29	1.69	10.99	—	—
	30	60	0.6	50	.625	MPS2222OS-ND	.28	1.64	10.66	—	—
	30	40	1	55	1	MPSW01OS-ND	.48	3.50	24.64	—	—
B	30	30	0.5	5K	.625	MPSA13RLRAOSCT-ND	—	2.10	13.65	2,000	57.00/M
	30	30	0.5	10K	.625	MPSA14RLRAOSCT-ND	—	2.10	13.65	2,000	57.00/M
	40	60	0.6	40	.625	2N4401RLRAOSCT-ND	—	1.58	10.27	2,000	43.00/M
	40	60	0.2	70	.625	2N3904RLRAOSCT-ND	—	1.40	9.10	2,000	42.00/M
	40	4.0	0.1	40	.625	MPSA20OS-ND	.36	2.10	13.65	—	—
B	40	30	1	50	.625	MPS6602OS-ND	.36	2.45	17.00	—	—
	40	50	1	25K	1	MPSW45OS-ND	.48	3.50	24.64	—	—
	40	60	2	75	.625	MPS650OS-ND	.40	2.92	20.55	—	—
B	40	75	0.6	35	.625	MPS2222ARLRAOSCT-ND	—	1.76	11.44	2,000	48.00/M
A	40	75	0.6	50	.625	P2N2222AOS-ND	.36	2.10	13.65	—	—
B	40	75	0.6	50	.625	PN2222ARLRAOSCT-ND	—	1.69	10.99	2,000	46.00/M
B	40	50	1	55	1	MPSW01AOS-ND	.48	3.50	24.64	—	—
B	40	40	0.5	20K	.625	2N6426OS-ND	.36	2.45	17.00	—	—
B	40	40	0.5	10K	.625	2N6427OS-ND	.36	2.45	17.00	—	—
B	45	45	0.2	500	.625	MPSA18RLRAOSCT-ND	—	2.10	13.65	2,000	57.00/M
A	45	50	0.8	100	.625	BC337OS-ND	.36	2.10	13.65	—	—
A	45	50	0.1	240	.625	BC547BOS-ND	.28	1.64	10.66	—	—
B	50	60	1	25K	1	MPSW45AOS-ND	.48	3.50	24.64	—	—
	50	60	1	25K	1	MPS6725OS-ND	.48	3.50	24.64	—	—
	60	60	0.5	100	.625	MPS8098RLRAOSCT-ND	—	2.45	17.00	2,000	75.00/M
B	60	60	0.5	—	.625	MPSA05RLRAOSCT-ND	—	1.31	9.24	2,000	57.00/M
	60	80	2	75	.625	MPS651RLRAOSCT-ND	—	2.92	20.55	2,000	93.00/M
	60	60	0.5	10K	.625	MPSA27RLRAOSCT-ND	—	2.10	13.65	2,000	57.00/M
B	60	60	0.5	80	1	MPSW05OS-ND	.48	3.50	24.64	—	—
A	65	80	0.1	240	.625	BC546BOS-ND	.28	1.64	10.66	—	—
	80	80	0.5	100	.625	MPS8099RLRAOSCT-ND	—	2.45	17.00	2,000	75.00/M
	80	80	0.5	80	1	MPS6717OS-ND	.48	3.50	24.64	—	—
	80	80	0.5	100	.625	MPSA06RLRAOSCT-ND	—	1.82	11.83	2,000	49.00/M
	80	80	0.5	80	1	MPSW06RLRAOSCT-ND	—	2.80	20.16	2,000	112.00/M
	80	80	0.5	10K	.625	MPSA28OS-ND	.36	2.10	13.65	—	—
2B	100	100	0.5	10K	.625	MPSA29RLRPOSCT-ND‡	—	2.10	13.65	2,000	57.00/M
	140	160	0.6	60	.625	2N5550OS-ND	.36	2.10	13.65	—	—
	160	180	0.6	80	.625	2N5551RLRAOSCT-ND	—	2.10	13.65	2,000	57.00/M
	300	300	0.5	25	.625	MPSA42RLRAOSCT-ND	—	2.23	14.50	2,000	60.00/M
	300	300	0.5	25	1	MPSW42RLRAOSCT-ND	—	2.63	18.94	2,000	105.00/M
	350	350	0.5	20	.625	2N6517OS-ND	.49	3.58	25.21	—	—
	400	500	0.3	40	.625	MPSA44RLRAOSCT-ND	—	5.43	39.10	2,000	174.00/M
						TO-218AC					
	60	60	10	1K	3.5	TIP140OS-ND	2.45	20.42	171.51	—	—
	60	100	15	20	90	TIP3055OS-ND	1.75	14.59	122.51	—	—
	100	100	10	1K	3.5	TIP142OS-ND	2.45	20.42	171.51	—	—
	100	100	25	25	125	TIP35COS-ND	2.84	24.68	183.75	—	—
3	100	100	10	40	80	TIP33COS-ND	1.75	14.59	122.51	—	—
	100	100	20	750	160	MJH6284OS-ND	4.10	35.64	265.42	—	—
	160	160	16	15	125	MJE4343OS-ND	3.78	32.90	245.00	—	—
	200	200	15	400	150	MJH11020OS-ND	3.84	33.45	249.10	—	—
	250	250	15	400	150	MJH11022OS-ND	3.84	33.45	249.10	—	—
						TO-220AB					
	40	40	3	25	2	TIP31OS-ND	.74	5.88	44.12	—	—
	60	60	3	25	2	TIP31AOS-ND	.74	5.88	44.12	—	—
	60	60	5	1K	2	TIP120OS-ND	.79	6.30	47.25	—	—
	60	60	2	1K	2	TIP110OS-ND	.95	7.56	56.70	—	—
	60	—	10	60	50	D44H8OS-ND	1.23	10.62	81.68	—	—
	60	60	8	1K	75	2N6043OS-ND	1.00	7.98	59.86	—	—
	60	70	10	20	75	MJE3055TOS-ND	1.01	8.72	67.10	—	—
	70	80	7	30	40	2N6292OS-ND	1.18	10.24	78.75	—	—
	80	—	10	60	50	D44H11OS-ND	1.23	10.62	81.68	—	—
	80	80	10	1K	2	2N6388OS-ND	1.01	8.72	67.10	—	—
	80	80	5	1K	2	TIP121OS-ND	.79	6.30	47.25	—	—
	80	80	3	25	2	TIP31BOS-ND	.74	5.88	44.12	—	—
	80	80	1	40	2	TIP29BOS-ND	.74	5.88	44.12	—	—
	80	90	15	20	1.8	2N6488OS-ND	1.12	9.71	74.68	—	—
	80	—	15	35	83	D44VH10OS-ND	1.23	10.62	81.68	—	—
	100	100	8	1K	75	2N6045OS-ND	1.00	7.98	59.86	—	—
	100	100	1	40	2	TIP29COS-ND	.74	5.88	44.12	—	—
	100	100	2	1K	2	TIP112OS-ND	.95	7.56	56.70	—	—
	100	100	5	1K	2	TIP122OS-ND	.79	6.30	47.25	—	—
4	100	100	8	1K	2	TIP102OS-ND	.96	8.34	64.18	—	—
	100	100	3	25	2	TIP31COS-ND	.74	5.88	44.12	—	—
	100	100	6	30	2	TIP41COS-ND	.95	7.56	56.70	—	—
	100	100	10	—	70	BDX33COS-ND	1.09	9.48	72.93	—	—
	120	120	8	40	2	MJE15028OS-ND	1.58	13.65	105.00	—	—
	150	150	8	40	2	MJE15030OS-ND	1.58	13.65	105.00	—	—
	200	400	7	—	60	BU406OS-ND	1.58	13.65	105.00	—	—
	250	250	8	70	8	MJE15032OS-ND	1.58	13.65	105.00	—	—
	250	350	5	10	80	2N6497OS-ND	1.34	11.64	89.53	—	—
	250	350	1	30	2	TIP47OS-ND	1.05	8.40	63.02	—	—
	300	400	1	30	2	TIP48OS-ND	1.05	8.40	63.02	—	—
	350	350	4	100	2	MJE15034OS-ND	2.52	21.00	176.40	—	—
	400	—	8	50	2	MJE5742OS-ND	1.75	14.59	122.51	—	—
	400	—	12	8	2	MJE13009OS-ND	1.79	15.55	119.60	—	—
	400	—	8	8	80	MJE13007OS-ND	1.09	9.48	72.93	—	—
	400	—	4	10	2	MJE13005OS-ND	1.09	9.48	72.93	—	—
	400	500	1	30	2	TIP50OS-ND	1.05	8.40	63.02	—	—
	400	—	5	10	75	BUL45OS-ND	1.14	9.86	75.85	—	—
	450	—	5	12	75	MJE18004OS-ND	1.18	10.24	78.75	—	—
	450	—	2	30	50	BUX85OS-ND	1.10	8.82	66.15	—	—

* For Tape and Reel Part Number change CT-ND to TR-ND
‡ For Tape and Box Part Number change CT-ND to TB-ND

(Continued)

B

Fig.	VCEO (V)	VCB (V)	IC (A)	HFE (Min.)	Pd (TA @ 25°C) (W)	Digi-Key Part No.	Pricing 1	10	100	Tape and Reel* Size	Pricing
4	450	—	8	10	125	MJE18008OS-ND	1.51	12.54	105.36	—	—
						TO-220FP					
	80	—	10	60	2	MJF44H11OS-ND	1.68	14.00	117.60	—	—
	90	—	10	20	2	MJF30550S-ND	1.75	15.17	116.68	—	—
	100	100	10	3K	2	MJF6388OS-ND	1.65	13.71	115.16	—	—
5	100	100	5	1K	2	MJF1220S-ND	1.05	9.10	70.00	—	—
	150	150	8	40	2	MJF15030OS-ND	1.68	14.00	117.60	—	—
	250	350	1	30	2	MJF470S-ND	1.53	13.27	102.10	—	—
	450	—	5	12	35	MJF18004OS-ND	1.75	15.17	116.68	—	—
						TO-225AA					
	40	40	1	40	30	2N4921OS-ND	.84	6.72	50.41	—	—
	40	40	4	40	40	MJE5210S-ND	.74	5.88	44.12	—	—
6A	25	40	5	70	1.5	MJE2000S-ND	.62	4.99	37.42	—	—
	45	45	1.5	25	1.25	BD135OS-ND	.70	5.62	42.11	—	—
	60	60	4	25	40	2N5191OS-ND	.95	7.56	56.70	—	—
	60	60	1	40	30	2N4922OS-ND	.84	6.72	50.41	—	—
	60	60	4	750	40	MJE8000S-ND	.74	5.88	44.12	—	—
6A	60	60	4	500	1.5	2N6038OS-ND	.89	7.14	53.57	—	—
	80	80	1	40	30	2N4923OS-ND	.84	6.72	50.41	—	—
	40	60	3	30	1.5	MJE1800S-ND	.62	4.99	37.42	—	—
	80	80	4	20	40	2N5192OS-ND	.84	6.72	50.41	—	—
	60	80	3	30	1.5	MJE1810S-ND	.62	4.99	37.42	—	—
6A	80	80	4	750	40	MJE8020S-ND	.74	5.88	44.12	—	—
	80	80	4	750	40	MJE8030S-ND	.74	5.88	44.12	—	—
	80	100	1.5	25	1.25	BD139OS-ND	.70	5.62	42.11	—	—
6A	80	80	4	500	1.5	2N6039OS-ND	.89	7.14	53.57	—	—
6A	80	100	3	30	1.5	MJE1820S-ND	.62	4.99	37.42	—	—
6A	100	100	4	750	40	BD681OS-ND	.79	6.30	47.25	—	—
6A	100	100	4	40	1.5	MJE2430S-ND	.71	5.67	42.55	—	—
6B	100	100	2	500	1.5	MJE2700S-ND	.71	5.67	42.55	—	—
6A	200	200	0.5	30	20	MJE3440S-ND	.68	5.46	40.96	—	—
6A	250	275	0.5	25	20	2N6550S-ND	.71	5.67	42.55	—	—
6A	300	—	0.5	30	20	MJE3400S-ND	.62	4.99	37.42	—	—
6A	350	375	0.5	25	20	2N6570S-ND	.74	5.88	44.12	—	—
6A	350	450	0.3	30	15	MJE3439OS-ND	.68	5.46	40.96	—	—
6B	400	—	1.5	8	1.4	MJE13003OS-ND	1.00	7.98	59.86	—	—
						TO-264					
	200	200	15	25	200	MJL3281AOS-ND	5.83	50.76	378.00	—	—
7	250	400	16	25	200	MJL21196OS-ND	5.83	50.76	378.00	—	—
	250	400	16	25	200	MJL21194OS-ND	5.83	50.76	378.00	—	—
	350	350	15	80	230	MJL4281AOS-ND	6.90	63.00	498.00	—	—
						SOT-23					
	15	40	0.2	40	.225	MMBT2369LT1OSCT-ND	—	1.76	11.44	3,000	41.00/M
	15	40	0.2	40	.225	MMBT2369ALT1OSCT-ND	—	1.76	11.44	3,000	41.00/M
	15	30	.05	20	.225	MMBT918LT1OSCT-ND	—	1.61	11.31	3,000	60.00/M
	25	30	.05	450	.225	MMBT5089LT1OSCT-ND	—	1.76	11.44	3,000	41.00/M
	25	30	—	60	.225	MMBTH10LT1OSCT-ND	—	1.58	10.92	3,000	49.00/M
	30	60	0.6	50	.225	MMBT2222LT1OSCT-ND	—	1.87	10.53	3,000	24.00/M
	30	35	.05	350	.225	MMBT5088LT1OSCT-ND	—	1.76	11.44	3,000	41.00/M
	30	30	0.3	5k	.225	MMBTA13LT1OSCT-ND	—	1.76	11.44	3,000	41.00/M
	30	30	0.3	10k	.225	MMBTA14LT1OSCT-ND	—	1.76	11.44	3,000	41.00/M
	30	30	0.1	110	.225	BC848ALT1OSCT-ND	—	1.66	9.36	3,000	25.00/M
	30	30	0.1	200	.225	BC848BLT1OSCT-ND	—	1.66	9.36	3,000	25.00/M
	30	30	0.1	420	.225	BC848CLT1OSCT-ND	—	2.16	12.15	3,000	30.00/M
	40	60	0.2	—	.225	MMBT3904LT3OSCT-ND	—	1.04	6.76	10,000	17.00/M
	40	75	0.6	50	.225	MMBT2222ALT1OSCT-ND	—	1.87	10.53	3,000	24.00/M
	40	60	0.2	70	.225	MMBT3904LT1OSCT-ND	—	1.47	8.28	3,000	23.00/M
	40	60	0.6	40	.225	MMBT4401LT1OSCT-ND	—	.92	5.98	3,000	25.00/M
	40	40	0.5	10k	.225	MMBT6427LT1OSCT-ND	—	1.37	9.46	3,000	43.00/M
	45	55	0.2	500	.225	MMBT6429LT1OSCT-ND	—	1.37	9.46	3,000	43.00/M
8	45	50	0.5	100	.225	BC817-16LT1OSCT-ND	—	1.16	7.54	3,000	25.00/M
	45	50	0.5	160	.225	BC817-25LT1OSCT-ND	—	1.16	7.54	3,000	25.00/M
	45	50	0.5	250	.225	BC817-40LT1OSCT-ND	—	1.21	7.87	3,000	30.00/M
	45	50	0.5	100	.225	BCX19LT1OSCT-ND	—	1.64	10.66	3,000	39.00/M
	45	50	0.1	110	.225	BC847ALT1OSCT-ND	—	1.66	9.36	3,000	25.00/M
	45	50	0.1	200	.225	BC847BLT1OSCT-ND	—	1.66	9.36	3,000	25.00/M
	45	50	0.1	420	.225	BC847CLT1OSCT-ND	—	1.94	10.89	3,000	30.00/M
	45	50	0.1	420	.225	BC850CLT1OSCT-ND	—	1.94	10.89	3,000	30.00/M
	50	60	0.2	250	.225	MMBT6428LT1OSCT-ND	—	1.37	9.46	3,000	43.00/M
	60	60	0.5	100	.225	MMBTA05LT1OSCT-ND	—	1.76	11.44	3,000	41.00/M
	60	60	0.1	250	.225	MMBT2484LT1OSCT-ND	—	1.69	10.99	3,000	40.00/M
	65	80	0.1	110	.225	BC846ALT1OSCT-ND	—	1.66	9.36	3,000	25.00/M
	65	80	0.1	200	.225	BC846BLT1OSCT-ND	—	1.47	8.28	3,000	25.00/M
	80	80	0.5	100	.225	MMBTA06LT1OSCT-ND	—	1.76	11.44	3,000	41.00/M
	80	80	0.5	100	.225	MMBT8099LT1OSCT-ND	—	1.14	8.01	3,000	43.00/M
	140	160	0.6	60	.225	MMBT5550LT1OSCT-ND	—	1.76	11.44	3,000	41.00/M
	140	160	0.6	80	.225	MMBT5551LT1OSCT-ND	—	1.76	11.44	3,000	41.00/M
	300	300	0.5	25	.225	MMBTA42LT1OSCT-ND	—	1.76	11.44	3,000	41.00/M
	350	350	0.5	20	.225	MMBT6517LT1OSCT-ND	—	2.92	21.02	3,000	105.00/M
						SOT-223					
	25	20	1	50	1.5	BCP68T1OSCT-ND	—	2.40	17.24	1,000	96.00
	30	45	3	85	1.7	MMJT9410T1OSCT-ND	—	6.72	50.41	1,000	289.00
	40	75	0.6	50	1.5	PZT2222AT1OSCT-ND	—	2.45	17.64	1,000	98.00
	60	80	2	75	0.8	PZT651T1OSCT-ND	—	2.92	21.02	1,000	117.00
9	80	90	1	1K	1.25	BSP52T1OSCT-ND	—	2.57	19.29	1,000	116.00
	80	100	1	40	1.5	BCP56T1OSCT-ND	—	2.45	17.64	1,000	98.00
	80	100	1	100	1.5	BCP56-16T1OSCT-ND	—	2.45	17.64	1,000	98.00
	300	300	0.5	25	1.5	PZTA42T1OSCT-ND	—	2.69	19.33	1,000	107.00
	300	300	0.1	50	1.5	BF720T1OSCT-ND	—	3.80	27.32	1,000	137.00
	350	400	1	40	0.8	BSP19AT1OSCT-ND	—	3.04	22.77	1,000	137.00
						SOT-323					
10	40	75	0.6	50	.150	MMBT2222AWT1OSCT-ND	—	1.39	9.04	3,000	33.00/M
	40	60	0.2	—	.150	MMBT3904WT1OSCT-ND	—	1.16	7.54	3,000	31.00/M
						SOT-363					
11B	40	60	0.2	70	.150	MBT3904DW1T1OSCT-ND	—	1.99	12.94	3,000	44.00/M
						16-SOIC					
12	40	75	0.5	50	1.0	MMPQ2222AR1OSCT-ND	—	10.62	81.68	500	271.00
	40	60	0.2	50	.800	MMPQ3904OS-ND	1.23	10.62	81.68	—	—
						SC-59					
13	50	60	0.1	210	.200	MSD601-RT1OSCT-ND	—	1.16	7.54	3,000	25.00/M
						SC-75					
15	45	50	0.1	200	.200	BC847BTT1OSCT-ND	—	1.53	9.95	3,000	27.00/M
	40	60	0.2	—	.200	MMBT3904TT1OSCT-ND	—	1.15	7.96	3,000	36.00/M

Fig.	VCEO (V)	VCB (V)	IC (A)	HFE (Min.)	Pd (TA @ 25°C) (W)	Digi-Key Part No.	Pricing 1	10	100	Tape and Reel* Size	Pricing
						DPAK					
	25	40	5	70	1.4	MJD200T4OSCT-ND	—	5.04	37.80	2,500	210.00/M
	60	70	10	20	1.75	MJD3055T4OSCT-ND	—	8.40	63.02	2,500	333.00/M
	80	—	8	60	1.75	MJD44H11T4OSCT-ND	—	6.72	50.41	2,500	266.00/M
	80	—	8	60	1.75	MJD44H11-001OS-ND	—	6.72	50.41	—	—
	100	100	6	30	1.75	MJD41CT4OSCT-ND	—	7.56	56.70	2,500	299.00/M
	100	100	8	1K	1.75	MJD122T4OSCT-ND	—	6.09	45.71	2,500	241.00/M
16	100	100	2	500	1.75	MJD112T4OSCT-ND	—	6.09	45.71	2,500	241.00/M
	100	100	2	1K	1.75	MJD112-001OS-ND	.76	6.09	45.71	—	—
	100	100	3	25	1.5	MJD31CT4OSCT-ND	—	5.37	40.29	2,500	182.00/M
	100	100	4	40	1.4	MJD243T4OSCT-ND	—	6.72	50.41	2,500	266.00/M
	250	350	1	30	1.56	MJD47T4OSCT-ND	—	6.09	45.71	2,500	241.00/M
	300	300	0.5	30	1.56	MJD340T4OSCT-ND	—	5.46	40.96	2,500	216.00/M
	400	500	1	30	1.56	MJD50T4OSCT-ND	—	6.09	45.71	2,500	241.00/M
						PNP					
						TO-3					
	60	60	25	35	200	2N5883OS-ND	3.89	33.84	252.00	—	—
	80	80	25	35	200	2N5884OS-ND	3.78	32.90	245.00	—	—
	80	80	50	15	300	2N6684OS-ND	7.82	71.40	564.40	—	—
	100	100	12	750	150	2N6052OS-ND	5.13	44.65	332.50	—	—
	100	100	30	25	200	MJ4502OS-ND	3.89	33.84	252.00	—	—
1	120	120	30	1K	200	MJ11015OS-ND	3.65	31.80	236.85	—	—
	120	120	50	1K	300	MJ11033OS-ND	8.05	73.50	581.00	—	—
	120	200	15	—	180	MJ15016OS-ND	2.89	25.15	187.25	—	—
	140	140	20	25	250	MJ15004OS-ND	3.78	32.90	245.00	—	—
	200	350	16	15	250	MJ15023OS-ND	4.05	35.25	262.50	—	—
	250	400	16	15	250	MJ15025OS-ND	4.05	35.25	262.50	—	—
	250	400	16	25	250	MJ21193OS-ND	4.05	35.25	262.50	—	—
	250	400	16	25	250	MJ21195OS-ND	5.81	50.53	376.25	—	—
						TO-92					
	25	25	0.5	80	.625	MPS3638AOS-ND	.44	2.57	16.71	—	—
	25	25	0.2	120	.625	MPS4126RLRAOSCT-ND	—	2.10	13.65	2,000	57.00/M
2B	30	30	0.5	5K	.625	MPSA63RLRAOSCT-ND	—	2.10	13.65	2,000	57.00/M
	30	30	0.5	10K	.625	MPSA64OS-ND	.36	2.10	13.65	—	—
	30	30	0.5	5K	1	MPSW63OS-ND	.48	3.50	24.64	—	—
	40	40	0.6	60	.625	2N4403RLRAOSCT-ND	—	1.58	10.27	2,000	43.00/M
	40	40	0.2	80	.250	2N3906RLRAOSCT-ND	—	1.40	9.10	2,000	46.00/M
2B	40	40	—	250	.625	MPS4250ARLRMOSCT-ND‡	—	2.10	13.65	2,000	57.00/M
	40	30	1	50	.625	MPS6652OS-ND	.39	2.63	18.20	—	—
	40	60	2	75	.625	MPS750OS-ND	.45	3.07	21.27	—	—
2B	40	50	1	60	1	MPS6727OS-ND	.48	3.50	24.64	—	—
2B	40	50	1	55	1	MPSW51AOS-ND	.48	3.50	24.64	—	—
2A	45	50	0.8	100	.625	BC327OS-ND	.28	1.64	10.66	—	—
2B	50	50	0.05	250	.625	2N5087RLRAOSCT-ND	—	2.10	13.65	2,000	57.00/M
2B	60	80	2	75	.625	MPS751RLRAOSCT-ND	—	2.56	18.00	2,000	94.00/M
	60	60	0.5	100	.600	MPSA55RLRAOSCT-ND	—	2.10	13.65	2,000	57.00/M
	60	60	0.6	100	.625	PN2907ARLRAOSCT-ND	—	1.69	10.99	2,000	46.00/M
2B	60	60	0.6	100	.625	MPS2907ARLRAOSCT-ND	—	1.87	12.16	2,000	50.00/M
	60	60	0.5	100	.625	MPS8598RLRAOSCT-ND	—	2.45	17.00	2,000	75.00/M
	60	60	0.5	10K	.625	MPSA77OS-ND	.42	2.46	15.99	—	—
	80	80	0.5	100	.625	MPS8599RLRAOSCT-ND	—	2.45	17.00	2,000	75.00/M
	80	80	0.5	100	.600	MPSA56RLRAOSCT-ND	—	2.10	13.65	2,000	57.00/M
2B	150	160	0.6	50	.625	2N5401RLRAOSCT-ND	—	2.10	13.65	2,000	57.00/M
	200	200	0.5	25	.625	MPSA92RLRAOSCT-ND	—	2.46	15.99	2,000	66.00/M
	300	300	0.5	25	1	MPSW92OS-ND	.45	3.29	23.14	—	—
2B	300	300	0.5	25	.625	MPSA93OS-ND	.42	2.46	15.99	—	—
	350	350	0.5	20	.625	2N6520RLRAOSCT-ND	—	3.50	24.64	2,000	112.00/M
						TO-218AC					
	100	100	10	1K	3.5	TIP147OS-ND	2.45	20.42	171.51	—	—
	100	100	25	25	125	TIP36COS-ND	2.84	24.68	183.75	—	—
	100	100	20	750	160	MJH6287OS-ND	4.10	35.64	265.42	—	—
3	150	150	15	400	150	MJH11017OS-ND	3.84	33.45	249.10	—	—
	160	160	16	15	125	MJE4353OS-ND	3.78	32.90	245.00	—	—
	200	200	15	400	150	MJH11019OS-ND	4.41	38.38	285.85	—	—
	250	250	15	400	150	MJH11021OS-ND	4.41	38.38	285.85	—	—
						TO-220AB					
	30	40	7	30	40	2N6111OS-ND	1.14	9.86	75.85	—	—
	40	40	3	25	2	TIP32OS-ND	.71	5.67	42.55	—	—
	40	40	1	40	2	TIP30OS-ND	.74	5.88	44.12	—	—
	40	40	6	30	2	TIP42OS-ND	1.05	8.40	63.02	—	—
	50	60	7	30	40	2N6109OS-ND	1.14	9.86	75.85	—	—
	60	60	3	25	2	TIP32AOS-ND	.71	5.67	42.55	—	—
	60	60	5	1K	2	TIP125OS-ND	1.07	8.57	64.26	—	—
	60	60	2	1K	2	TIP115OS-ND	.95	7.56	56.70	—	—
	60	60	8	1K	75	2N6040OS-ND	1.07	8.57	64.26	—	—
	60	60	10	1K	2	2N6667OS-ND	1.14	9.86	75.85	—	—
	60	—	10	60	50	D45H8OS-ND	1.23	10.62	81.68	—	—
	60	70	10	20	75	MJE2955TOS-ND	1.01	8.72	67.10	—	—
	70	80	7	30	40	2N6107OS-ND	.96	8.34	64.18	—	—
	80	—	10	60	50	D45H11OS-ND	1.23	10.62	81.68	—	—
	80	90	15	20	1.8	2N6491OS-ND	1.11	9.63	74.10	—	—
	80	80	5	1K	2	TIP126OS-ND	1.07	8.57	64.26	—	—
	80	80	3	25	2	TIP32BOS-ND	.71	5.67	42.55	—	—
4	80	—	15	35	83	D45VH10OS-ND	1.23	10.62	81.68	—	—
	100	100	15	1K	85	BDW47OS-ND	1.31	11.38	87.50	—	—
	100	100	8	1K	75	2N6042OS-ND	1.07	8.57	64.26	—	—
	100	100	2	1K	2	TIP117OS-ND	.95	7.56	56.70	—	—
	100	100	1	40	2	TIP30COS-ND	.74	5.88	44.12	—	—
	100	100	5	1K	2	TIP127OS-ND	.96	8.34	64.18	—	—
	100	100	8	1K	2	TIP107OS-ND	.96	8.34	64.18	—	—
	100	100	3	25	2	TIP32COS-ND	.71	5.67	42.55	—	—
	100	100	6	30	2	TIP42COS-ND	1.05	8.40	63.02	—	—
	120	120	8	40	2	MJE15029OS-ND	1.58	13.65	105.00	—	—
	150	150	8	40	2	MJE15031OS-ND	1.58	13.65	105.00	—	—
	250	250	8	50	2	MJE15033OS-ND	1.58	13.65	105.00	—	—
	300	—	8	15	80	MJE5850OS-ND	2.99	26.05	193.97	—	—
	300	300	1	30	2	MJE5730OS-ND	1.53	13.27	102.10	—	—
	350	—	8	15	80	MJE5851OS-ND	2.99	26.05	193.97	—	—
	350	350	4	100	2	MJE15035OS-ND	2.52	21.00	176.40	—	—
	375	375	1	30	2	MJE5731AOS-ND	1.53	13.27	102.10	—	—
	400	—	8	15	80	MJE5852OS-ND	2.99	26.05	193.97	—	—
						TO-220FP					
	100	100	10	3K	2	MJF6668OS-ND	1.84	15.93	122.50	—	—
5	100	100	5	1K	2	MJF127OS-ND	1.09	9.48	72.93	—	—
	150	150	8	40	2	MJF15031OS-ND	1.68	14.00	117.60	—	—
						TO-225AA					
6A	40	40	1	40	30	2N4918OS-ND	.84	6.72	50.41	—	—
	25	40	5	75	1.5	MJE2100S-ND	.62	4.99	37.42	—	—

* For Tape and Reel Part Number change CT-ND to TR-ND
‡ For Tape and Box Part Number change CT-ND to TB-ND

(Continue

Semiconductor™ ON Transistors (Cont.)

VCEO (V)	VCB (V)	Ic (A)	HFE (Min.)	Pd (TA @ 25°C) (W)	Digi-Key Part No.	Pricing 1	10	100	Tape and Reel* Size	Pricing
40	40	4	40	40	MJE3710S-ND	.74	5.88	44.12	—	—
40	40	4	—	1.5	2N6034OS-ND	.95	7.56	56.70	—	—
45	45	1.5	25	1.25	BD136OS-ND	.70	5.62	42.11	—	—
60	60	4	25	40	2N5194OS-ND	.95	7.56	56.70	—	—
60	60	4	750	40	MJE7000S-ND	.74	5.88	44.12	—	—
40	60	3	30	1.5	MJE1700S-ND	.62	4.99	37.42	—	—
80	80	4	20	40	2N5195OS-ND	.84	6.72	50.41	—	—
80	80	1	10	30	2N4920OS-ND	.84	6.72	50.41	—	—
60	80	3	30	1.5	MJE1710S-ND	.62	4.99	37.42	—	—
80	80	4	750	40	MJE7020S-ND	.74	5.88	44.12	—	—
80	100	1.5	25	1.25	BD140OS-ND	.70	5.62	42.11	—	—
80	80	4	500	1.5	2N6036OS-ND	.84	6.72	50.41	—	—
80	100	3	30	1.5	MJE1720S-ND	.62	4.99	37.42	—	—
100	100	4	750	40	BD682OS-ND	.79	6.30	47.25	—	—
100	100	4	40	1.5	MJE2530S-ND	.71	5.67	42.55	—	—
300	—	0.5	30	20	MJE3500S-ND	.62	4.99	37.42	—	—
					TO-264					
200	200	15	60	200	MJL1302AOS-ND	5.83	50.76	378.00	—	—
250	400	16	25	200	MJL2119505-ND	5.83	50.76	378.00	—	—
250	400	16	25	200	MJL2119305-ND	5.83	50.76	378.00	—	—
350	350	15	80	230	MJL4302AOS-ND	6.90	63.00	498.00	—	—
					SOT-23					
25	25	0.2	120	.225	MMBT4126LT1OSCT-ND	—	1.27	8.26	3,000	34.00/M
30	30	0.5	5K	.225	MMBTA63LT1OSCT-ND	—	1.76	11.44	3,000	41.00/M
30	30	0.5	10K	.225	MMBTA64LT1OSCT-ND	—	1.76	11.44	3,000	41.00/M
30	30	0.1	420	.225	BC858CLT1OSCT-ND	—	1.94	10.89	3,000	30.00/M
40	40	0.2	80	.225	MMBT3906LT1OSCT-ND	—	1.66	9.36	3,000	23.00/M
40	40	0.6	60	.225	MMBT4403LT1OSCT-ND	—	.92	5.98	3,000	25.00/M
45	50	0.5	100	.225	BCX17LT1OSCT-ND	—	1.64	10.66	3,000	39.00/M
45	50	0.1	220	.225	BC857BLT1OSCT-ND	—	1.66	9.36	3,000	25.00/M
45	50	0.5	160	.225	BC807-25LT1OSCT-ND	—	1.16	7.54	3,000	25.00/M
45	50	0.5	250	.225	BC807-40LT1OSCT-ND	—	1.21	7.87	3,000	30.00/M
50	50	0.05	250	.225	MMBT5087LT1OSCT-ND	—	1.76	11.44	3,000	41.00/M
60	60	0.6	100	.225	MMBT2907ALT1OSCT-ND	—	1.47	8.28	3,000	24.00/M
60	60	0.5	100	.225	MMBTA55LT1OSCT-ND	—	1.76	11.44	3,000	41.00/M
65	80	0.1	125	.225	BC856ALT1OSCT-ND	—	1.66	9.36	3,000	25.00/M
65	80	0.1	220	.225	BC856BLT1OSCT-ND	—	1.66	9.36	3,000	25.00/M
80	80	0.5	100	.225	MMBTA56LT1OSCT-ND	—	1.76	11.44	3,000	41.00/M
150	160	0.5	50	.225	MMBT5401LT1OSCT-ND	—	1.76	11.44	3,000	41.00/M
300	300	0.5	25	.225	MMBTA92LT1OSCT-ND	—	1.76	11.44	3,000	41.00/M
350	350	0.5	20	.225	MMBT6520LT1OSCT-ND	—	1.64	11.77	3,000	65.00/M
					SOT-223					
20	25	1	50	1.5	BCP69T1OSCT-ND	—	2.40	17.24	1,000	96.00
30	45	3	125	0.72	MMJT9435T1OSCT-ND	—	6.72	50.41	1,000	289.00
60	60	0.6	100	1.5	PZT2907AT1OSCT-ND	—	2.45	17.64	1,000	98.00
60	80	2	75	0.8	PZT751T1OSCT-ND	—	2.92	21.02	1,000	117.00
80	100	1.5	40	1.5	BCP53T1OSCT-ND	—	2.45	17.64	1,000	98.00
300	300	0.5	25	1.5	PZTA92T1OSCT-ND	—	2.69	19.33	1,000	107.00
					SOT-323					
60	60	0.6	100	.150	MMBT2907AWT1OSCT-ND	—	1.16	7.54	3,000	31.00/M
40	40	0.2	80	.150	MMBT3906WT1OSCT-ND	—	1.16	7.54	3,000	31.00/M
					Dual SOT-363					
40	40	0.2	80	.150	MBT3906DW1T1OSCT-ND	—	1.99	12.94	3,000	47.00/M
					DPAK					
25	40	5	70	1.4	MJD210T4OSCT-ND	—	5.04	37.80	2,500	210.00/M
60	70	10	20	1.75	MJD2955T4OSCT-ND	—	7.56	56.70	2,500	299.00/M
80	—	8	60	1.75	MJD45H11T4OSCT-ND	—	7.59	58.35	2,500	333.00/M
80	—	8	60	1.75	MJD45H11-001OS-ND	1.05	8.40	63.02	—	—
100	100	6	30	1.75	MJD42CT4OSCT-ND	—	7.56	56.70	2,500	299.00/M
100	100	8	1K	1.75	MJD127T4OSCT-ND	—	8.40	63.02	2,500	333.00/M
100	100	2	500	1.75	MJD117T4OSCT-ND	—	6.09	45.71	2,500	241.00/M
100	100	3	25	1.56	MJD32CT4OSCT-ND	—	5.60	42.00	2,500	191.00/M
100	100	4	40	1.4	MJD253T4OSCT-ND	—	6.72	50.41	2,500	266.00/M
300	300	0.5	30	1.56	MJD350T4OSCT-ND	—	5.67	42.55	2,500	225.00/M
					NPN/PNP					
					SOT-363					
40/-40	60/-40	0.2/-0.2	70/80	.150	MBT3946DW1T1OSCT-ND	—	1.99	12.94	3,000	47.00/M

re-Biased Transistors

VCB (V)	VCEO (V)	HFE (Min.)	R1 (K)	R2 (K)	Digi-Key Part No.	Pricing 10	100	Tape and Reel* Size	Pricing
					NPN				
					SOT-23				
50	50	35	10	10	MMUN2211LT1OSCT-ND	.92	5.98	3,000	25.00/M
50	50	60	22	22	MMUN2212LT1OSCT-ND	1.16	7.54	3,000	25.00/M
50	50	80	47	47	MMUN2213LT1OSCT-ND	1.16	7.54	3,000	25.00/M
50	50	160	4.7	∞	MMUN2216LT1OSCT-ND	1.16	7.54	3,000	25.00/M
50	50	15	4.7	4.7	MMUN2232LT1OSCT-ND	1.16	7.54	3,000	25.00/M
50	50	80	4.7	47	MMUN2233LT1OSCT-ND	.92	5.98	3,000	25.00/M
					SOT-363				
50	50	35	10	10	MUN5211DW1T1OSCT-ND	1.76	12.17	3,000	54.00/M
					SOT-323				
50	50	140	10	47	MUN5214T1OSCT-ND	1.27	8.26	3,000	34.00/M
					SC-59				
50	50	35	10	10	MUN2211T1OSCT-ND	1.21	7.87	3,000	30.00/M
50	50	60	22	22	MUN2212T1OSCT-ND	1.21	7.87	3,000	30.00/M
50	50	80	47	47	MUN2213T1OSCT-ND	1.21	7.87	3,000	30.00/M
50	50	80	10	47	MUN2214T1OSCT-ND	1.21	7.87	3,000	30.00/M
					SC-75				
50	50	80	47	47	DTC144EET1OSCT-ND	1.40	9.10	3,000	33.00/M
					SOT-563				
50	50	35	10	10	NSBC114EDXV6TOSCT-ND	4.00	28.80	4,000	136.00/M
50	50	60	22	22	NSBC124EDXV6TOSCT-ND	4.00	28.80	4,000	136.00/M
50	50	80	10	47	NSBC114YDXV6TOSCT-ND	4.00	28.80	4,000	136.00/M
50	50	160	10	∞	NSBC114TDXV6TOSCT-ND	4.00	28.80	4,000	136.00/M
50	50	3	1	1	NSBC113EDXV6TOSCT-ND	4.00	28.80	4,000	136.00/M
50	50	80	2.2	47	NSBC123JDXV6TOSCT-ND	4.00	28.80	4,000	136.00/M
					NPN/PNP				
					SC-74				
50	60	0.2	—	.325	NUS2401SNT1OSCT-ND	6.26	48.15	3,000	274.00/M
					SOT-363				
50	50	35	10	10	MUN5311DW1T1OSCT-ND	1.76	12.17	3,000	54.00/M

Fig.	VCB (V)	VCEO (V)	HFE (Min.)	R1 (K)	R2 (K)	Digi-Key Part No.	Pricing 10	100	Tape and Reel* Size	Pricing
						SOT-553				
17B	50	50	60	22	1	EMC2DXV5T1OSCT-ND	4.00	28.80	4,000	79.00/M
	50	50	20	4.7	.47	EMC5DXV5T1OSCT-ND	4.00	28.80	4,000	79.00/M
						SOT-563				
18B	50	50	35	10	10	NSBC114EPDXV6OSCT-ND	4.00	28.80	4,000	136.00/M
	50	50	60	22	22	NSBC124EPDXV6OSCT-ND	4.00	28.80	4,000	136.00/M
	50	50	80	47	47	NSBC144EPDXV6OSCT-ND	4.00	28.80	4,000	136.00/M
	50	50	80	10	47	NSBC114YPDXV6OSCT-ND	4.00	28.80	4,000	136.00/M
	50	50	160	4.7	∞	NSBC143TPDXV6OSCT-ND	4.00	28.80	4,000	136.00/M
	50	50	80	2.2	47	NSBC123JPDXV6OSCT-ND	4.00	28.80	4,000	136.00/M
						PNP Channel				
						SOT-23				
8	50	50	30	10	10	MMUN2111LT1OSCT-ND	.92	5.98	3,000	25.00/M
	50	50	80	47	47	MMUN2113LT1OSCT-ND	1.16	7.54	3,000	25.00/M
	50	50	80	10	47	MMUN2114LT1OSCT-ND	1.16	7.54	3,000	25.00/M
						SOT-323				
10	50	50	100	10	47	MUN5114T1OSCT-ND	1.27	8.26	3,000	34.00/M
						SC-59				
13	50	50	35	10	10	MUN2111T1OSCT-ND	1.21	7.87	3,000	30.00/M
						SOT-553				
17A	50	50	160	47	∞	EMA6DXV5T1OSCT-ND	4.00	28.80	4,000	79.00/M
						SOT-563				
18A	50	50	160	10	∞	NSBA114TDXV6TOSCT-ND	4.00	28.80	4,000	136.00/M
	50	50	160	4.7	∞	NSBA143TDXV6TOSCT-ND	4.00	28.80	4,000	83.00/M
	50	50	80	2.2	47	NSBA123JDXV6TOSCT-ND	4.00	28.80	4,000	136.00/M

* For Tape and Reel Part Number change CT-ND to TR-ND ‡ For Tape and Box Part Number change CT-ND to TB-ND

Transistors

Fig. 1 — TO-39

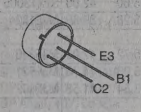


Fig. 2 — TO-18

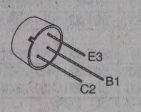


Fig. 3 — TO-3

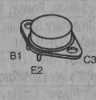
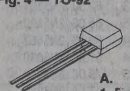


Fig. 4 — TO-92



A. B.
1. E 1. E
2. B 2. C
3. C 3. B

Fig. 5 — SOT-32

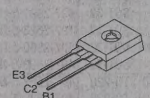


Fig. 6 — TO-220

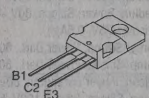


Fig. 7 — SOT-23

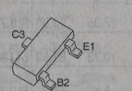


Fig. 8 — TO-218

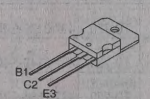


Fig. 9 — ISOWATT218

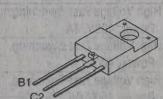


Fig. 10 — TO-247

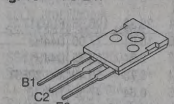


Fig. 11 — ISOTOP

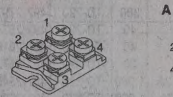


Fig. 12 — TO-247-4L

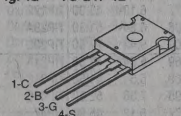


Fig.13 — IPAK

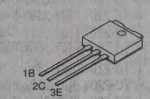


Fig. 14 — SOT-89

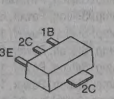


Fig. 15 — DPAK

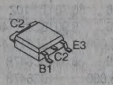


Fig. 16 — SOT-223

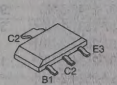


Fig. 17 — TO-220FP

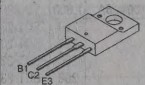


Fig. 18 — *NEW!* 8-SOIC

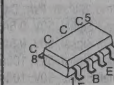


Fig.	Description	HFE Min.	Package	Digi-Key Part No.	Tube Pricing 1	10	100	Mfg. Part No.
				NPN				
1	Small Signal, 75V, 500mA	70	TO-39	497-3105-5-ND	1.04	8.28	62.10	2N1613
	Epitaxial Planar, 75V, 500mA	100	TO-39	497-2594-5-ND	.90	7.80	60.00	2N1711
	Small Signal, 120V, 0.5A	40	TO-39	497-2637-5-ND	.90	7.80	60.00	2N1893
	Epitaxial Planar, 120V, 1A	40	TO-39	497-2636-5-ND	1.17	9.36	70.20	2N2102
	Small Signal, 140V, 1A	100	TO-39	497-2634-5-ND	1.35	10.80	81.00	2N3019
	Silicon, 450V, 1A	40	TO-39	497-2576-5-ND	1.24	10.73	82.50	2N3439
	Silicon, 300V, 1A	40	TO-39	497-2626-5-ND	1.13	9.75	75.00	2N3440
	Silicon, 120V, 5A	40	TO-39	497-2635-5-ND	2.13	17.75	149.10	BFX34
	High Speed Switches, 75V, 0.6A	100	TO-39	497-2595-5-ND	1.08	8.64	64.80	2N2219A

◊ Bulk * Cut Tape † Tape and Reel § Tape and Box

(Continued)

Transistors (Cont.)

Fig.	Description	HFE Min.	Package	Digi-Key Part No.	Tube Pricing 1	10	100	Mfg. Part No.
2	High Speed Switches, 30V, 0.8A	150	TO-18	497-3106-5-ND	.99	7.92	59.40	2N2222
	High Speed Switches, 75V, 0.6A	40	TO-18	497-2598-5-ND	.86	6.84	51.30	2N2222A
	High Speed Sat. Switches, 15V, 0.2A	40	TO-18	497-3107-5-ND	.99	7.92	59.40	2N2369A
	General Purpose Amp., 80V, 1A	90	TO-18	497-3108-5-ND	1.09	9.43	72.50	2N3700
	Epitaxial Planar, 80V, 500mA	40	TO-18	497-3112-5-ND	1.46	12.68	97.50	2N720A
	LN, Gen., Audio Amp., 45V, 100mA	110	TO-18	497-3116-5-ND	.90	7.20	54.00	BC107
3	Comp. Silicon Power,100V, 15A	20	TO-3	497-2612-5-ND	1.68	14.00	117.60	2N3055
	High Power, Silicon, 40V, 30A	15	TO-3	497-2584-5-ND	2.64	22.00	184.80	2N3771
	High Power, Silicon, 60V, 20A	15	TO-3	497-2597-5-ND	3.00	25.00	210.00	2N3772
	Silicon Pwr. Darlington, 100V, 12A	750	TO-3	497-2561-5-ND	2.67	22.28	187.11	2N6059
	Comp. Silicon, Pwr. Darl., 100V, 20A	750	TO-3	497-2563-5-ND	3.92	34.08	253.75	2N6284
	High Power, Silicon, 850V, 15A	6	TO-3	497-2592-5-ND	5.00	43.48	323.75	2N6547
	High Current, Silicon, 300V, 60A	20	TO-3	497-2633-5-ND	18.40	170.20	1288.00	BUR51
	Comp. Silicon, Pwr. Darl., 80V, 10A	1,000	TO-3	497-2393-ND◊	2.58	21.50	180.60	MJ3001
	High Voltage, Ignition Coil Driver, Power Darlington, 400V, 15A	300	TO-3	497-3129-5-ND	3.51	30.55	227.50	BU941
	High Voltage, Fast-Switching, Power, 450V (VCEO), 30A	—	TO-3	497-4086-5-ND	7.59	69.30	547.80	BUF420M
	High Voltage, Fast-Switching, Power, 700V (VCEO), 8A	—	TO-3	497-2412-ND◊	2.97	25.85	192.50	BU208A
4A	Low Volt., Fast-Switching, 60V, 5A	400	TO-92	497-3531-ND◊	1.05	9.10	70.00	STSA1805
	Low Volt., Fast-Switching, 60V, 5A	400	TO-92	497-3532-1-ND*	1.05	9.10	70.00	STSA1805-AP
	Low Volt., Fast-Switching, 60V, 5A	400	TO-92	497-3532-3-ND§	812.00/2,000			STSA1805-AP
	Small Signal, 60V, 200mA	100	TO-92	497-2395-ND◊	.32	2.18	15.08	2N3904
	Small Signal, 75V, 0.6A	100	TO-92	497-2406-ND◊	.43	2.50	16.25	PN2222A
	Low Signal, Silicon, 150V, 5A	300	TO-92	497-3235-ND◊	.72	5.76	43.20	STSA851
	Small Signal, 300V, 0.5A	40	TO-92	497-2407-ND◊	.26	1.80	12.48	STPSA42
4B	High Voltage, Fast-Switching, Power, 400V (VCEO), 3A	10	TO-92	497-4429-ND◊	.70	5.60	42.00	STX13005
5	Comp. Silicon, Power, 100V, 3A	12	SOT-32	497-2590-5-ND	.66	5.28	39.60	MJE182
	Complimentary Silicon, Power, 300V (VCEO), 0.5A	30	SOT-32	497-2624-5-ND	.72	5.72	42.90	MJE340
	Silicon, 40V, 4A	40	SOT-32	497-2583-5-ND	.75	5.96	44.70	MJE521
	Silicon, Power Darlington, 80V, 4A	100	SOT-32	497-2549-5-ND	.69	5.54	41.58	MJE802
	Medium Power, Linear, Switching, Silicon, 80V, 1A	30	SOT-32	497-3109-5-ND	.99	7.92	59.40	2N4923
	Medium Power, Silicon, 60V, 4A	25	SOT-32	497-2601-5-ND	.94	8.13	62.50	2N5191
	Medium Power, Silicon, 80V, 4A	20	SOT-32	497-2591-5-ND	.98	8.45	65.00	2N5192
	Silicon, 375V, 0.5A	30	SOT-32	497-2623-5-ND	1.03	8.94	68.75	2N5657
	Comp. Silicon, Power Darl., 80V, 4A	750	SOT-32	497-2560-5-ND	.86	6.84	51.30	2N6039
	Comp. Silicon, Power Darl., 60V, 4A	750	SOT-32	497-2600-5-ND	1.13	9.75	75.00	BD677A
6	Silicon, Power Darlington, 80V, 10A	1,000	TO-220	497-2562-5-ND	1.16	10.08	77.50	2N6388
	Comp. Silicon, Power, 100V, 6A	15	TO-220	497-2632-5-ND	1.20	10.40	80.00	BD243C
	High Voltage, 700V, 8A	6	TO-220	497-3510-ND◊	1.50	13.00	100.00	ST13009
	High Voltage Fast-Switching, Power, 800V (VCEO), 4A	12	TO-220	497-2638-5-ND	1.68	14.03	117.81	BUL216
	High Voltage Fast-Switching, Power, 400V, 4A	16	TO-220	497-3130-5-ND	1.43	12.35	95.00	BUL742A
	High Voltage Fast-Switching, Power, 400V, 4A	8	TO-220	497-3149-5-ND	1.24	10.73	82.50	ST13005
	High Voltage Fast-Switching, Power, 450V (VCEO), 10A	8	TO-220	497-2581-5-ND	1.08	8.64	64.80	BUL38D
	High Voltage Ignition Coil Driver, Power Darl., 350V (VCEO), 15A	300	TO-220	497-2740-5-ND	3.15	27.40	204.05	BU941ZT
	High Voltage Ignition Coil Driver, Power Darl., 400V (VCEO), 10A	300	TO-220	497-2797-5-ND	2.81	23.38	196.35	BU931T
	Silicon, Power, 60V (VCEO), 10A	40	TO-220	497-2574-5-ND	1.16	10.01	77.00	D44H8
	Silicon, Power, 80V (VCEO), 10A	40	TO-220	497-2616-5-ND	1.03	8.94	68.75	D44H11
	Comp. Silicon, Power, 70V, 10A	20	TO-220	497-2573-5-ND	.84	6.73	50.49	MJE3055T
	Comp. Silicon, Power Darl., 60V, 2A	1,000	TO-220	497-2545-5-ND	.86	6.84	47.50	TIP110
	Comp. Silicon, Pwr. Darl., 100V, 2A	1,000	TO-220	497-2533-5-ND	.77	6.12	45.90	TIP112
	Comp. Silicon, Power Darl., 60V, 5A	1,000	TO-220	497-2539-5-ND	.74	5.94	44.55	TIP120
	Comp. Silicon, Power Darl., 80V, 5A	1,000	TO-220	497-2537-5-ND	.94	7.52	56.43	TIP121
	Comp. Silicon, Pwr. Darl., 100V, 5A	1,000	TO-220	497-2543-5-ND	.77	6.12	45.90	TIP122
	Comp. Silicon, Power, 60V, 1A	15	TO-220	497-2580-5-ND	.86	6.84	51.30	TIP29A
	Comp. Silicon, Power, 100V, 1A	15	TO-220	497-2611-5-ND	1.09	9.43	72.50	TIP29C
	Comp. Silicon, Power, 60V, 3A	10	TO-220	497-2602-5-ND	.69	5.54	41.58	TIP31A
	Comp. Silicon, Power, 100V, 3A	10	TO-220	497-2615-5-ND	.69	5.54	41.58	TIP31C
	Comp. Silicon, Power, 100V, 6A	15	TO-220	497-2622-5-ND	.95	7.56	52.50	TIP41C
	Silicon, Switching, 350V, 1A	30	TO-220	497-2631-5-ND	.77	6.12	45.90	TIP47
	Silicon, Switching, 400V, 1A	30	TO-220	497-2627-5-ND	.84	6.73	50.49	TIP48
	Silicon, Switching, 450V, 1A	30	TO-220	497-2625-5-ND	1.03	8.94	68.75	TIP49
	Silicon, Switching, 500V, 1A	15	TO-220	497-2605-5-ND	.74	5.94	44.55	TIP50
	Comp. Silicon, Pwr. Darl., 100V, 8A	1,000	TO-220	497-2546-5-ND	.95	7.56	56.70	TIP102
7	Small Signal, 50V, 0.5A	250	SOT-23	497-2531-1-ND*	.33	1.76	9.90	BC817-40
	Small Signal, 50V, 0.5A	250	SOT-23	497-2531-2-ND†	90.00/3,000			BC817-40
	Small Signal, 50V, 100mA	200	SOT-23	497-2524-1-ND*	.18	1.20	8.32	BC847B
	Small Signal, 50V, 100mA	200	SOT-23	497-2524-2-ND†	96.00/3,000			BC847B
	Small Signal, 75V, 0.6A	100	SOT-23	497-2479-1-ND*	.32	1.90	12.35	MMBT2222A
	Small Signal, 75V, 0.6A	100	SOT-23	497-2479-2-ND†	135.00/3,000			MMBT2222A
	Small Signal, 60V, 200mA	100	SOT-23	497-2478-1-ND*	.32	1.90	12.35	MMBT3904
	Small Signal, 60V, 200mA	100	SOT-23	497-2478-2-ND†	135.00/3,000			MMBT3904
	Small Signal, 300V, 0.5A	40	SOT-23	497-2480-1-ND*	.23	1.58	10.92	MMBTA42
	Small Signal, 300V, 0.5A	40	SOT-23	497-2480-2-ND†	147.00/3,000			MMBTA42
8	Comp. Silicon, Pwr. Darl., 100V, 15A	750	TO-218	497-2607-5-ND	3.00	25.00	210.00	BDW83C
	Comp. Silicon, Pwr. Darl., 80V, 10A	1,000	TO-218	497-2534-5-ND	1.86	15.50	130.20	TIP141
	Comp. Silicon, Pwr. Darl., 100V, 10A	1,000	TO-218	497-2541-5-ND	1.68	14.00	117.60	TIP142
	Comp. Silicon, Power, 100V, 15A	20	TO-218	497-2586-5-ND	1.76	15.28	117.50	TIP3055
	Comp. Silicon, Power, 140V, 10A	20	TO-218	497-2614-5-ND	1.80	15.00	126.00	TIP33C
	Comp. Silicon, High Pwr., 100V, 25A	15	TO-218	497-2609-5-ND	1.74	14.50	121.80	TIP35C
	High Pwr., Silicon, 450V (VCEO) 15A	—	TO-218	497-2544-5-ND	3.27	28.44	211.75	BUV48A
	High Voltage, Fast-Switching, Power, 700V (VCEO), 8A	—	TO-218	497-2599-5-ND	2.97	24.75	207.90	BU508A
	High Voltage, Ignition Coil Driver, Power Darlington, 400V, 15A	300	TO-218	497-3128-5-ND	2.97	24.75	207.90	BU931P
9	High Voltage, Ignition Coil Driver, Power Darl., 350V (VCEO), 15A	300	ISOWATT-218	497-2542-5-ND	4.01	34.90	259.88	BU941ZPF
	High Voltage, Fast-Switching, Power, 600V, 10A	4	ISOWATT-218	497-3150-5-ND	2.88	24.00	201.60	ST1802Hi
10	High Voltage, Power, 450V (VCEO), 24A	—	TO-247	497-2575-5-ND	6.02	52.41	390.25	BUX98APv
	High Voltage, Fast-Switching, Power, 450V (VCEO), 30A	—	TO-247	497-4085-5-ND	6.79	61.95	489.70	BUX420AV
	High Voltage, Fast-Switching 900V, 12A	10	TO-247	497-3555-ND ◊	1.50	12.50	105.00	STW1300S
11A	Darlington, Power Module, 450V (VCEO), 84A	120	ISOTOP	497-2648-5-ND	57.75	495.00	4389.00	ESM6045D
11B	High Voltage, 1000V, 50A	—	ISOTOP	497-3567-5-ND	37.80	329.00	2450.00	STE50DE1
12	Emitter Switched, 1700V, 3A	3.5	TO247-4L	497-3517-5-ND	6.44	58.80	464.80	STC03DE1
13	Low Volt., Fast-Switching 60V, 5A	200	I-PAK	497-3518-5-ND	.94	8.13	62.50	STD1805-
14	High Volt., Fast-Switching 400V, 1A	5	SOT-89	497-3521-1-ND	.50	4.00	30.00	STFN42
	High Volt., Fast-Switching 400V, 1A	5	SOT-89	497-3521-2-ND	375.00/2500			STFN42
15	Comp. Power, Darl., 100V, 5A	1,000	DPAK	497-2469-1-ND*	.86	6.84	51.30	MJD122T4
	Comp. Power, Darl., 100V, 5A	1,000	DPAK	497-2469-2-ND†	677.50/2,500			MJD122T4
	Comp. Silicon, Power, 100V, 3A	10	DPAK	497-2484-1-ND*	.94	8.13	62.50	MJD31CT4
	Comp. Silicon, Power, 100V, 3A	10	DPAK	497-2484-2-ND†	537.50/2,500			MJD31CT4
	Comp. Silicon, 80V (VCEO), 8A	40	DPAK	497-2504-1-ND*	.79	6.34	47.52	MJD44H11
	Comp. Silicon, 80V (VCEO), 8A	40	DPAK	497-2504-2-ND†	627.50/2,500			MJD44H11
	High Voltage, Fast-Switching, Power, 350V, 1A	30	DPAK	497-2482-1-ND*	.84	6.73	50.49	MJD47T4
	HV, Fast-Switching, Pwr., 350V, 1A	30	DPAK	497-2482-2-ND†	665.00/2,500			MJD47T4
	HV, Fast-Switching, Pwr., 500V, 1A	30	DPAK	497-2473-1-ND*	.95	7.56	56.70	MJD50T4
	HV, Fast-Switching, Pwr., 500V, 1A	30	DPAK	497-2473-2-ND†	747.50/2,500			MJD50T4
16	Low Signal, 150V, 5A	300	SOT-223	497-3179-1-ND*	.75	6.01	45.09	STN851
	Low Signal, 150V, 5A	300	SOT-223	497-3179-2-ND†	259.00/1,000			STN851
	Medium Power, 80V, 1.5A	40	SOT-223	497-3178-1-ND*	.72	5.76	43.20	STN715
	Medium Power, 80V, 1.5A	40	SOT-223	497-3178-2-ND†	248.00/1,000			STN715
	PNP							
1	Small Signal, 80V, 1A	100	TO-39	497-2582-5-ND	1.28	11.05	85.00	2N4033
	Silicon, 200V, 1A	30	TO-39	497-2593-5-ND	1.20	10.40	80.00	2N5415
	Silicon, 350V, 1A	30	TO-39	497-2596-5-ND	1.20	10.37	79.75	2N5416
	Small Signal, 60V, 0.6A	40	TO-39	497-2572-5-ND	1.05	9.10	70.00	2N2905A
2	Small Signal, 60V, 0.6A	40	TO-18	497-2577-5-ND	.86	6.84	51.30	2N2907A
	Silicon Plannar, 60V, 0.6A	50	TO-18	497-2910-5-ND	.86	6.84	51.30	2N2907
3	Comp. Silicon, Pwr. Darl., 100V, 20A	750	TO-3	497-2548-5-ND	3.56	31.02	231.00	2N6287
	Comp. Silicon, Pwr. Darl., 80V, 10A	1,000	TO-3	497-2392-ND◊	2.61	21.75	182.70	MJ2501
4A	Small Signal, 60V, 200mA	100	TO-92	497-2404-ND◊	.49	2.90	18.85	2N3906
	Small Signal, 60V, 0.6A	100	TO-92	497-2403-ND◊	.42	2.24	12.60	PN2907A
4B	High Performance, 60V, 3A	100	TO-92	497-4430-1-ND*	.52	4.16	31.20	STX790A-
	High Performance, 60V, 3A	100	TO-92	497-4430-3-ND§	312.00/2,000			STX790A-
5	Comp. Silicon, Power, 100V, 3A	12	SOT-32	497-2553-5-ND	.65	5.20	35.10	MJE172
	Silicon, 40V, 5A	45	SOT-32	497-2589-5-ND	.66	5.28	39.60	MJE210
	Complimentary Silicon, Power 300V (VCEO), 0.5A	30	SOT-32	497-2630-5-ND	.68	5.40	37.50	MJE350
	Medium Power, Silicon, 80V, 4A	20	SOT-32	497-2585-5-ND	.99	7.92	59.40	2N5195
	Comp. Silicon, Power Darl., 80V, 4A	750	SOT-32	497-2540-5-ND	.95	7.56	56.70	2N6036
6	Silicon, Switching, 40V, 7A	30	TO-220	497-2613-5-ND	1.05	9.10	70.00	2N6111
	Silicon, Power Darlington, 80V, 10A	1,000	TO-220	497-2535-5-ND	1.11	9.65	74.25	2N6668
	Silicon, Power, 45V, 10A	40	TO-220	497-2587-5-ND	1.44	12.51	96.25	D45H5
	Silicon, Power, 60V, 10A	40	TO-220	497-2579-5-ND	1.05	9.10	70.00	D45H8
	Silicon, Power, 80V, 10A	40	TO-220	497-2578-5-ND	1.08	8.64	64.80	D45H11
	Comp. Silicon, Power, 70V, 10A	20	TO-220	497-2621-5-ND	1.04	8.32	62.37	MJE2955T
	Silicon, Power Darlington, 60V, 8A	1,000	TO-220	497-2536-5-ND	.90	7.20	54.00	TIP105
	Comp. Silicon, Power Darl., 60V, 2A	1,000	TO-220	497-2619-5-ND	.84	6.73	50.49	TIP115
	Comp. Silicon, Pwr. Darl., 100V, 2A	1,000	TO-220	497-2559-5-ND	.77	6.12	45.90	TIP117
	Comp. Silicon, Power Darl., 60V, 5A	1,000	TO-220	497-2618-5-ND	.81	6.48	45.00	TIP125
	Comp. Silicon, Power Darl., 80V, 5A	1,000	TO-220	497-2570-5-ND	.86	6.84	51.30	TIP126
	Comp. Silicon, Pwr. Darl., 100V, 5A	1,000	TO-220	497-2571-5-ND	.77	5.53	42.50	TIP127
	Comp. Silicon, Power, 60V, 1A	15	TO-220	497-2610-5-ND	.86	6.84	47.50	TIP30A
	Comp. Silicon, Power, 100V, 1A	15	TO-220	497-2588-5-ND	.72	5.76	40.00	TIP30C
	Comp. Silicon, Power, 60V, 3A	10	TO-220	497-2538-5-ND	.72	5.76	40.00	TIP32A
	Comp. Silicon, Power, 100V, 3A	10	TO-220	497-2628-5-ND	.72	5.76	40.00	TIP32C
	Comp. Silicon, Power, 60V, 6A	15	TO-220	497-2552-5-ND	1.04	8.32	62.37	TIP42A
	Comp. Silicon, Power, 100V, 6A	15	TO-220	497-2629-5-ND	.86	6.84	51.30	TIP42C
	Comp. Silicon, Pwr. Darl., 100V, 8A	1,000	TO-220	497-2606-5-ND	.99	7.92	59.40	TIP107
7	Small Signal, 60V, 0.6A	100	SOT-23	497-2498-1-ND*	.32	1.90	12.35	MMBT2907
	Small Signal, 60V, 0.6A	100	SOT-23	497-2498-2-ND†	135.00/3,000			MMBT2907
	Small Signal, 60V, 200mA	100	SOT-23	497-2503-1-ND*	.32	1.90	12.35	MMBT3906
	Small Signal, 60V, 200mA	100	SOT-23	497-2503-2-ND†	135.00/3,000			MMBT3906
8	Comp. Silicon, Pwr. Darl., 60V, 10A	1,000	TO-218	497-2620-5-ND	1.98	16.50	138.60	TIP145
	Comp. Silicon, Pwr. Darl., 100V, 10A	1,000	TO-218	497-2569-5-ND	1.91	15.95	133.98	TIP147
	Comp. Silicon, Power, 100V, 15A	20	TO-218	497-2608-5-ND	1.89	15.75	132.30	TIP2955
	Comp. Silicon, Power, 140V, 10A	20	TO-218	497-2603-5-ND	1.65	14.30	110.00	TIP34C
	Comp. Silicon, HP., 100V, 25A	15	TO-218	497-2604-5-ND	1.74	14.50	121.80	TIP36C
14	Silicon, Power, 30V, 3A	100	SOT-89	497-4345-1-ND*	.93	7.45	55.89	STF817A
	Silicon, Power, 30V, 3A	100	SOT-89	497-4345-2-ND†	737.50/2,500			STF817A
15	Comp. Silicon, Pwr. Darl., 100V, 2A	1,000	DPAK	497-2462-1-ND*	.81	6.48	48.60	MJD112T4
	Comp. Silicon, Pwr. Darl., 100V, 2A	1,000	DPAK	497-2462-2-ND†	642.50/2,500			MJD112T4
	Comp. Power, Darlington, 100V, 5A	1,000	DPAK	497-2471-1-ND*	.86	6.84	51.30	MJD127T4
	Comp. Power, Darlington, 100V, 5A	1,000	DPAK	497-2471-2-ND†	677.50/2,500			MJD127T4
	Complimentary Power, 60V, 10A	20	DPAK	497-3136-1-ND*	1.09	9.43	72.50	MJD2955T
	Complimentary Power, 60V, 10A	20	DPAK	497-3136-2-ND†	965.00/2,500			MJD2955T
	Comp. Silicon, Power, 100V, 3A	10	DPAK	497-2491-1-ND*	.77	6.12	45.90	MJD32CT4
	Comp. Silicon, Power, 100V, 3A	10	DPAK	497-2491-2-ND†	605.00/2,500			MJD32CT4
	Comp. Silicon, Power, 300V, 0.5A	30	DPAK	497-3137-1-ND*	.94	8.13	62.50	MJD350T4
	Comp. Silicon, Power, 300V, 0.5A	30	DPAK	497-3137-2-ND†	832.50/2,500			MJD350T4
16	High Performance, 35V, 3A	100	SOT-223	497-4365-1-ND*	.83	6.62	49.68	STN749
	High Performance, 35V, 3A	100	SOT-223	497-4365-2-ND†	285.00/1,000			STN749
	High Performance, 60V, 3A	100	SOT-223	497-4366-1-ND*	.58	4.45	32.04	STN790A
	High Performance, 60V, 3A	100	SOT-223	497-4366-2-ND†	160.00/1,000			STN790A
17	Comp. Silicon, Power, 100V, 5A	1,000	TO-220FP	497-3271-5-ND	1.24	10.73	82.50	TIP127FP
	NEW! NPN/PNP NEW!							
18	Dual Complimentary, 60V, 3A	30	8-SOIC	497-4518-1-ND*	1.09	9.43	72.50	STS01DTP0
	Dual Complimentary, 60V, 3A	30	8-SOIC	497-4518-2-ND†	965.00/2,500			STS01DTP0

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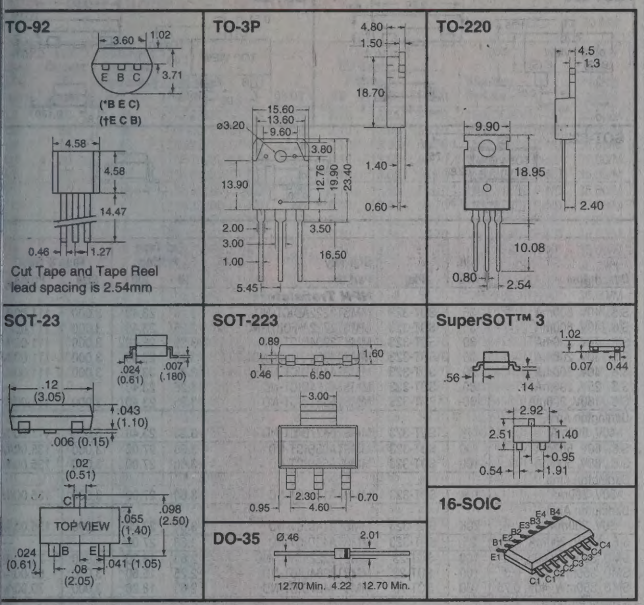


Description	Min. HFE	Pkg.	Digi-Key Part No.	Pricing 1	25	100
NPN Transistors						
GP Ampl SW, 30V, 500MA	100	TO-92	2N3704-ND†	.25	4.69	13.00
SSGP, 40V, 200mA	100	TO-92	2N3904FS-ND	.16	2.97	8.58
GP Ampl, 40V, 200mA	100	TO-92	2N3904D26ZCT-ND**	.19	3.60	10.40
SS GP Ampl, 30V, 200mA	50	TO-92	2N4123-ND	.19	3.60	10.40
SSGP, 25V, 200mA	60	TO-92	2N4124BU-ND	.19	3.60	10.40
SS GP Ampl, 40V, 600mA	40	TO-92	2N4400-ND	.20	3.83	11.05
SSGP, 40V, 600mA	80	TO-92	2N4401-ND	.20	3.83	11.05
GP Ampl, 40V, 600mA	80	TO-92	2N4401D26ZCT-ND**	.16	2.97	8.58
GP Ampl, 40V, 600mA	80	TO-92	2N4401D75ZCT-ND**	.16	2.97	8.58
LLGP, 80V, 200mA	60	TO-92	2N4410-ND	.29	5.44	15.08
LL LN Ampl, 30V, 100mA	300	TO-92	2N5088BU-ND	.19	3.60	10.40
LL LN Ampl, 25V, 100mA	400	TO-92	2N5089BU-ND	.19	3.60	10.40
LLGP, 50V, 100mA	250	TO-92	2N5210-ND	.19	3.60	10.40
SS GP Ampl, 140V, 600mA	60	TO-92	2N5550BU-ND	.19	3.51	10.14
Saturated SW, 15V, 200mA	40	TO-92	2N5769-ND	.28	5.18	14.95
RF Ampl, 15V, 50mA	20	TO-92	2N5770-ND	.31	5.81	16.12
Saturated SW, 15V, 300mA	30	TO-92	2N5772-ND	.30	5.63	16.25
SS GP Ampl, 100V, 200mA	80	TO-92	2N5830-ND	.29	5.44	15.08
LL Ampl, 60V, 100mA	150	TO-92	2N5961-ND	.25	4.69	13.00
Darlington, 100V, 1.5A	1,000	TO-92	2N7052-ND	.42	8.28	23.32
GP Ampl, 45V, 1.5A	250	SOT-23	BC81740CT-ND**	.37	6.96	19.29
GP Ampl, 65V, 100mA	200	SOT-23	BC846BCT-ND**	.25	4.69	13.00
GP Ampl, 60V, 1.5A	25	SOT-223	BCP55FSCT-ND**	.46	9.19	25.20
GP Ampl, 40V, 1.0A	35	SOT-23	MMBT2222AFSCT-ND**	.19	3.60	10.40
GP Ampl, 40V, 200mA	100	SOT-23	MMBT3904FSCT-ND**	.19	3.60	10.40
GP Ampl, 40V, 600mA	80	SOT-23	MMBT4401FSCT-ND**	.19	3.60	10.40
GP Ampl, 30V, 100mA	300	SOT-23	MMBT5088CT-ND**	.19	3.60	10.40
RF, 12V, 50mA	25	SOT-23	MMBT5179CT-ND**	.26	4.95	14.30
Darlington, 40V, 1.2A	10,000	SOT-23	MMBT6427FSCT-ND**	.24	4.50	13.00
GP Ampl, 50V, 0.5A	250	SOT-23	MMBT6428CT-ND**	.19	3.60	10.40
GP Ampl, 80V, 500mA	100	SOT-23	MMBTA06FSCT-ND**	.25	4.69	13.00
High V Amp, 300V, 500mA	40	SOT-23	MMBTA42FSCT-ND**	.29	5.40	15.60
RF, 25V, 50mA	60	SOT-23	MMBTH10FSCT-ND**	.26	4.95	14.30
SS GP Ampl, 25V, 2mA	150	TO-92	MPS2924-ND	.41	8.27	22.68
SS GP Ampl, 25V, 200mA	250	TO-92	MPS6515-ND	.28	5.18	14.95
SS GP Ampl, 80V, 500mA	100	TO-92	MPSA06-ND	.34	6.38	17.68
GP Ampl, 80V, 500mA	100	TO-92	MPSA06_D26ZTR-ND		149.60/2,000	
Darlington, 20V, 1200mA	20K	TO-92	MPSA12-ND	.29	5.44	15.08
Darlington, 30V, 1200mA	10K	TO-92	MPSA13-ND	.31	5.81	16.12
Darlington, 30V, 1200mA	20K	TO-92	MPSA14-ND	.29	5.44	15.08
GP Ampl, 45V, 100mA	500	TO-92	MPSA18-ND	.28	5.25	14.56
Medium Power, 300V, 500mA	40	TO-92	MPSA42FS-ND	.36	6.75	18.72
SS Ampl, 300V, 500mA	40	TO-92	MPSA42_D26ZTR-ND		158.40/2,000	
Medium Power, 200V, 200mA	40	TO-92	MPSA43-ND	.37	6.94	19.24
RF Ampl, 25V, 50mA	60	TO-92	MPSH10FS-ND*	.32	6.25	17.60
GP Ampl, 45V, 500mA	100	TO-92	PN100RMCT-ND	.25	4.69	13.00
SSGP, 30V, 500mA, 1A	100	TO-92	PN2222BU-ND	.20	3.83	11.05
SSGP, 40V, 500mA, 1A	35	TO-92	PN2222AFS-ND	.20	3.83	11.05
GP Ampl, 40V, 1.0A	35	TO-92	PN2222AD26ZCT-ND**	.20	3.83	11.05
Saturated SW, 15V, 10mA	20	TO-92	PN2369-ND	.28	5.18	14.95
Saturated, 15V, 100mA	40	TO-92	PN2369A-ND	.28	5.18	14.95
LL Ampl, 60V, 100mA	250	TO-92	PN2484-ND	.25	4.69	13.00
LLGP, 25V, 500mA	150	TO-92	PN3565-ND	.25	4.69	13.00
SSGP, 30V, 100mA	150	TO-92	PN3566-ND	.28	5.25	14.56
SSGP, 40V, 150mA	40	TO-92	PN3567-ND	.28	5.25	14.56
SSGP, 40V, 500mA	100	TO-92	PN3569-ND	.29	5.40	15.60
SSHS, 15V, 200mA	35	TO-92	PN4275-ND	.29	5.40	15.60
N-Channel Switch, 30V 50mA	60	TO-92	PN4392FS-ND	.37	7.19	20.24
SSGP Ampl, 25V, 100mA	50	TO-92	PN5135-ND	.32	6.25	17.60
GP Ampl, 40V, 1.0A	35	SOT-223	PZT2222ACT-ND**	.42	8.40	23.04
GP Ampl, 300V, 500mA	40	SOT-223	PZTA42CT-ND**	.47	9.58	26.28
Epitaxial, 100V, 1.0A	40	TO-220	TIP29CFS-ND	.54	10.20	30.60
Epitaxial, 100V, 3.0A	25	TO-220	TIP31CFS-ND	.60	11.33	33.98
Epitaxial, 100V, 3.0A	25	TO-220	TIP31CTU-ND	.60	11.33	33.98
Epitaxial, 100V, 6.0A	30	TO-220	TIP41CTU-ND	.60	11.25	33.75
Darlington, 100V, 8A	1,000	TO-220	TIP102TU-ND	.82	15.38	46.13
Darlington, 100V, 2A	1,000	TO-220	TIP112TU-ND	.60	11.18	33.53
Darlington, 100V, 5A	1,000	TO-220	TIP122FS-ND	.60	11.18	33.53
Darlington, 100V, 5A	1,000	TO-220	TIP122TU-ND	.60	11.18	33.53
Darlington, 100V, 10A	1,000	TO-3P	TIP142TU-ND	1.33	27.75	88.80
PNP Transistors						
SS GP Ampl, 40, 200mA	50	TO-92	2N3905-ND	.19	3.60	10.40
SSGP, 40V, 200mA	100	TO-92	2N3906FS-ND	.19	3.60	10.40
GP Ampl, 40V, 200mA	100	TO-92	2N3906D26ZCT-ND**	.17	3.24	9.36
SS GP Ampl, 25V, 200mA	25	TO-92	2N4125-ND	.19	3.60	10.40
SSGP, 25V, 200mA	60	TO-92	2N4126-ND	.19	3.60	10.40
SS GP Ampl, 40, 600mA	50	TO-92	2N4402-ND	.20	3.83	11.05
SSGP, 40V, 600mA	100	TO-92	2N4403-ND	.20	3.83	11.05
GP Ampl, 40V, 600mA	100	TO-92	2N4403D26ZCT-ND**	.16	2.97	8.58
LLGP, 50V, 100mA	250	TO-92	2N5087-ND	.19	3.60	10.40
SS GP Ampl, 120, 600mA	40	TO-92	2N5400-ND	.25	4.69	13.00
SS GP Ampl, 150, 600mA	60	TO-92	2N5401-ND	.17	3.24	9.36
HS SW, 15V, 200mA	50	TO-92	2N5771-ND	1.45	28.92	86.76
GP Ampl, 30V,1.0A	70	Super-SOT-3	FMMT549FSCT-ND**	.38	7.13	19.76
Darlington, 30V, 1.2A	10,000	SOT-23	MMBTA64FSCT-ND**	.26	4.95	14.30
GP Ampl, 60V, 800mA	100	SOT-23	MMBT2907AFSCT-ND**	.20	3.83	11.05
GP Ampl, 50V, 100mA	250	SOT-23	MMBT5087CT-ND**	.22	4.05	11.70
GP Ampl, 40V, 600mA	100	SOT-23	MMBT4403FSCT-ND**	.20	3.83	11.05
GP Ampl, 40V, 200mA	100	SOT-23	MMBT3906FSCT-ND**	.19	3.60	10.40
GP Ampl, 25V, 200mA	120	SOT-23	MMBT4126FSCT-ND**	.19	3.60	10.40
GP Ampl, 80V, 500mA	100	SOT-23	MMBTA56FSCT-ND**	.26	4.95	14.30
High V Amp, 300V, 500mA	40	SOT-23	MMBTA92FSCT-ND**	.29	5.40	15.60
RF, 20V, 50mA	60	SOT-23	MMBTH81CT-ND**	.23	4.28	12.35
GP Ampl, 60V, 500mA	100	TO-92	MPSA05-ND	.34	6.38	17.68
High Current Dr, 80V, 500mA	100	TO-92	MPSA56-ND	.29	5.44	15.08
Darlington, 30V, 1.2A	5,000	TO-92	MPSA63-ND	.30	5.63	15.60
High V Amp, 300V, 500mA	40	TO-92	MPSA92-ND	.36	6.75	18.72
Medium Power, 200V, 500mA	40	TO-92	MPSA93FS-ND	.31	5.81	16.12
SS GP Ampl, 100V, 200mA	40	TO-92	MPSL51-ND	.25	4.69	13.00
SSGP, 40V, 500mA	75	TO-92	PN2907-ND	.17	3.24	9.36
SSGP, 60V, 800mA	100	TO-92	PN2907AFS-ND	.19	3.51	10.14
SS GP Ampl, 40V, 50mA	100	TO-92	PN3251-ND	.39	7.88	21.60
SSGP, 25V, 800mA	100	TO-92	PN3638A-ND	.26	4.88	13.52
Saturated SW, 12V, 200mA	30	TO-92	PN3640-ND	.57	10.65	31.95
SSGP, 40V, 200mA	150	TO-92	PN4122-ND	.29	5.40	15.60
LLLN, 60V, 500mA	100	TO-92	PN4249-ND	.28	5.25	14.56
LLLN, 40V, 500mA	250	TO-92	PN4250-ND	.28	5.25	14.56
LLLN, 60V, 500mA	250	TO-92	PN4250A-ND	.28	5.25	14.56
SS GP Ampl, 150V, 10mA	40	TO-92	PN4888-ND	.37	7.19	20.24
SSGP Ampl, 30V, 200mA	150	TO-92	PN4917-ND	.25	4.69	13.00
Saturated SW, 10V, 500mA	20	TO-92	PN5134-ND	.28	5.18	14.95
LL Ampl, 30V, 500mA	50	TO-92	PN5138-ND	.28	5.25	14.56
SS GP Ampl, 20V, 300mA	30	TO-92	PN5142-ND	.42	8.13	22.88
Epitaxial, -100V, -3A	25	TO-220	TIP32CFS-ND	.60	11.33	33.98
Epitaxial, -100V, -3A	25	TO-220	TIP32CTU-ND	.60	11.33	33.98
Darlington, -100V, -8A	1,000	TO-220	TIP107TU-ND	.86	16.20	48.60
Darlington, -100V, -5A	1,000	TO-220	TIP125TU-ND	.63	11.78	35.33
Darlington, -100V, -5A	1,000	TO-220	TIP127FS-ND	.63	11.78	35.33
Darlington, -100V, -5A	1,000	TO-220	TIP127TU-ND	.63	11.78	35.33
Darlington, -100V, -10A	1,000	TO-3P	TIP147TU-ND	1.31	27.38	87.60
N-Channel J-FET Transistors						
GP Amp	—	TO-92	2N5457FS-ND	.32	6.25	17.60
VHF Amp & Mixer	—	TO-92	MPF102-ND	.38	7.13	19.76
Transistor Arrays						
IC, Amp, Multichip, GP, NPN	—	16-SOIC	MMPQ2222ACT-ND	1.46	30.50	97.60
IC, Amp, Multichip, GP, NPN	—	16-SOIC	MMPQ2222ATR-ND		1586.00/2,500	
IC, Amp, Multichip, GP, PNP	—	16-SOIC	MMPQ2907ACT-ND	1.40	29.25	93.60
IC, Amp, Multichip, GP, PNP	—	16-SOIC	MMPQ2907ATR-ND		1521.00/2,500	

† * (See drawings above for pin layout).
** For Tape and Reel part number, change the CT-ND to TR-ND. Please call Digi-Key® for Tape and Reel Pricing.

Zener Diodes

Zener Volt. V_R (V)	I_R (µA)	Pkg.	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Tape and Reel Size	Pricing
5.6	5.0	DO-35	1N5232BFSCT-ND**	.16	1.17	8.45	5,000	26.00/M
5.1	1.0	DO-35	1N751ACT-ND**	.17	1.26	9.10	5,000	28.00/M
20.0	0.05	SOT-23	BZX84C20FSCT-ND**	.20	1.53	11.05	3,000	39.95/M
5.1	2.0	SOT-23	BZX84C5V1FSCT-ND**	.18	1.35	9.75	3,000	35.25/M
12.0	1.0	SOT-23	MMBZ5242BFSCT-ND**	.23	1.71	12.35	3,000	44.65/M

** For Tape and Reel part number, change the CT-ND to TR-ND.

FAIRCHILD SEMICONDUCTOR Transistors and Diodes

Dim in mm

Fig. 1

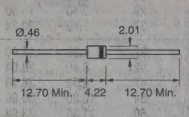


Fig. 2

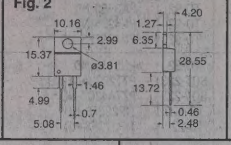


Fig. 3

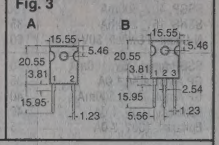


Fig. 4

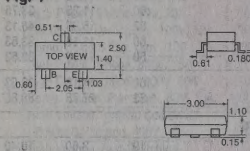


Fig. 5

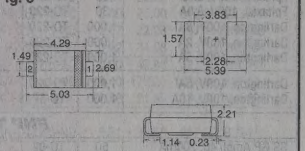


Fig. 6

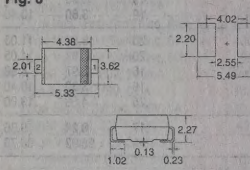


Fig. 7

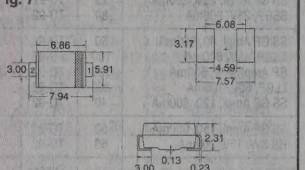


Fig. 8

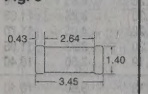


Fig. 9

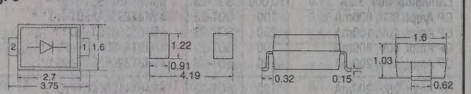
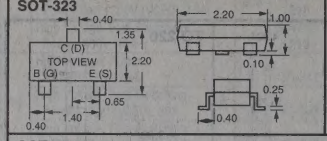


Fig.	Maximum Reverse Voltage (V)	Maximum Average Rectified Current	Pkg.	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Tape & Reel** Size	Pricing
1	100	200mA	DO-35	1N914BCT-ND	.10	.72	5.20	10,000	13.60/M
	100	200mA	DO-35	1N914CT-ND	.10	.72	5.20	10,000	13.60/M
	150	200mA	DO-35	1N3595CT-ND	.19	1.44	10.40	10,000	27.20/M
	100	200mA	DO-35	1N4448CT-ND	.10	.72	5.20	10,000	13.60/M
	50	200mA	DO-35	1N4454CT-ND	.10	.72	5.20	10,000	13.60/M
	100	200mA	DO-35	1N4148FS-ND‡	.07	.54	3.90	10,000	10.20/M
2	600	15A	TO-220AC	RURP1560-ND‡	1.59	12.68	95.10	—	—
	1,000	8A	TO-220AC	RURP8100-ND‡	1.19	9.95	79.60	—	—
	600	8A	TO-220AC	RURP860-ND‡	1.11	9.28	74.20	—	—
	600	30A	TO-220AC	RURP3060-ND‡	2.14	17.14	128.55	—	—
3A	200	30A	TO-247	RURG3020CC-ND‡	3.86	30.85	239.96	—	—
	600	30A	TO-247	RURG3060CC-ND‡	4.38	35.06	272.72	—	—
3B	600	30A	TO-247	RURG3060-ND‡	2.28	18.26	136.95	—	—
	600	50A	TO-247	RURG5060-ND‡	3.97	31.75	246.96	—	—
	1,000	80A	TO-247	RURG80100-ND‡	5.44	43.54	338.66	—	—
	600	80A	TO-247	RURG8060-ND‡	5.20	41.60	351.00	—	—
4	85	200mA	SOT-23	BAS16FSCT-ND	.17	1.26	9.10	3,000	32.90/M
	250	200mA	SOT-23	BAS21FSCT-ND	.19	1.44	10.40	3,000	37.60/M
	30	200mA	SOT-23	BAT54CFSCT-ND	.17	1.26	9.10	3,000	32.90/M
	30	200mA	SOT-23	BAT54FSCT-ND	.14	1.08	7.80	3,000	28.20/M
	30	200mA	SOT-23	BAT54SFSCT-ND	.17	1.26	9.10	3,000	32.90/M
	70	200mA	SOT-23	BAV70FSCT-ND	.22	1.62	11.70	3,000	42.30/M
	50	200mA	SOT-23	BAV74FSCT-ND	.22	1.62	11.70	3,000	42.30/M
	70	200mA	SOT-23	BAV99FSCT-ND	.22	1.62	11.70	3,000	42.30/M
	100	200mA	SOT-23	MMBD1203CT-ND	.22	1.62	11.70	3,000	42.30/M
	100	200mA	SOT-23	MMBD1204CT-ND	.22	1.62	11.70	3,000	42.30/M
	200	200mA	SOT-23	MMBD1503ACT-ND	.26	1.98	14.30	3,000	51.70/M
	100	200mA	SOT-23	MMBD4148CCCT-ND	.20	1.53	11.05	3,000	39.95/M
	100	200mA	SOT-23	MMBD4148FSCT-ND	.17	1.26	9.10	3,000	32.90/M
	100	200mA	SOT-23	MMBD7000FSCT-ND	.22	1.62	11.70	3,000	42.30/M
	100	200mA	SOT-23	MMBD914FSCT-ND	.17	1.26	9.10	3,000	32.90/M
5	200	1.0A	DO-214AC	ES1DFSCT-ND	.39	3.06	21.56	7,500	83.30/M
6	200	2.0A	DO-214AA	ES2DFSCT-ND	.46	3.73	25.56	3,000	120.70/M
7	200	3.0A	DO-214AB	ES3DFSCT-ND	.57	4.52	33.90	3,000	152.55/M
8	100	200mA	LL-34	FDLL4148CT-ND	.10	.72	5.20	2,500	18.80/M
9	20	500mA	SOD-123	MBR0520LCT-ND	.31	2.33	16.12	3,000	62.00/M

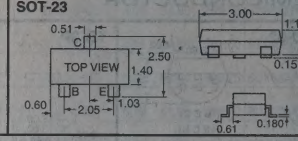
** For Tape and Reel part number, change CT-ND to TR-ND. ‡ Bulk

DIODES INCORPORATED Transistors

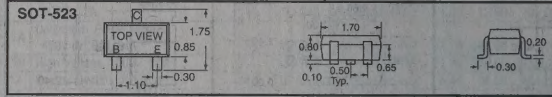
SOT-323



SOT-23



SOT-523



Description	Min. HFE	Pkg.	Digi-Key Part No.	Cut Tape Pricing 10	100	Tape & Reel Size	Pricing
NPN Transistors							
S.S., 40V, 600mA	35	SOT-323	MMST2222ADICT-ND	3.25	23.40	3,000	111.0
S.S., 40V, 600mA	35	SOT-323	MMST2222A-FDICT-ND◊	3.25	23.40	3,000	111.0
S.S., 40V, 200mA	30	SOT-323	MMST3904DICT-ND	3.25	23.40	3,000	111.0
S.S., 40V, 200mA	30	SOT-323	MMST3904-FDICT-ND◊	3.25	23.40	3,000	111.0
S.S., 40V, 600mA	20	SOT-323	MMST4401DICT-ND	3.25	23.40	3,000	111.0
S.S., 25V, 200mA	60	SOT-323	MMST4124DICT-ND	3.25	23.40	—	
S.S., 160V, 200mA	30	SOT-323	MMST5551DICT-ND	3.25	23.40	3,000	111.0
Darlington Amp, 40V, 500mA	14K	SOT-323	MMST6427DICT-ND	3.25	23.40	3,000	111.0
S.S., 60V, 500mA	100	SOT-323	MMSTA05DICT-ND	3.60	27.00	3,000	135.0
S.S., 80V, 500mA	100	SOT-323	MMSTA06DICT-ND	3.60	27.00	3,000	135.0
Darlington Amp, 30V, 300mA	10K	SOT-323	MMSTA13DICT-ND	3.60	27.00	3,000	135.0
Darlington Amp, 30V, 300mA	20K	SOT-323	MMSTA14DICT-ND	3.60	27.00	3,000	135.0
S.S., 300V, 200mA	25	SOT-323	MMSTA42DICT-ND	3.60	27.00	—	
SMD, 350mW, 40V, 1.0	100	SOT-23	MMBT2222ADICT-ND	2.63	18.20	3,000	70.0
SMD, 350mW, 40V, 0.3	100	SOT-23	MMBT3904DICT-ND	2.25	15.60	3,000	60.0
SMD, 350mW, 40V, 0.75	100	SOT-23	MMBT4401DICT-ND	2.63	18.20	3,000	70.0
General Purpose 60V, 100mA, 0.25	50	SOT-23	MMBTA05DICT-ND	3.63	25.52	3,000	104.0
General Purpose, 80V, 100mA, 0.25	50	SOT-23	MMBTA06DICT-ND	3.63	25.52	3,000	104.0
Darlington Amp, 30V, 100mA	10K	SOT-23	MMBTA13DICT-ND	3.63	25.52	3,000	104.0
Darlington Amp, 30V, 100mA	20K	SOT-23	MMBTA14DICT-ND	3.63	25.52	3,000	104.0
SMD, 18V, 1A	150	SOT-23	MMBT123SDICT-ND	3.00	21.60	3,000	102.0
S.S., 25V, 200mA	60	SOT-23	MMBT4124DICT-ND	2.63	18.20	3,000	70.0
Darlington Amp, 40V, 500mA	10K	SOT-23	MMBT6427DICT-ND	3.63	25.52	3,000	104.0
Darlington Amp, 40V, 500mA	10K	SOT-23	MMBT6427-FDICT-ND◊	3.63	25.52	3,000	104.0
S.S., 300V, 200mA	25	SOT-23	MMBTA42DICT-ND	3.63	25.52	3,000	104.0
SMD, VHF/UHF, 25V, 50mA	30	SOT-23	MMBTH10DICT-ND	4.00	28.80	3,000	136.0
SMD, VHF/UHF, 40V, 50mA	60	SOT-23	MMBTH24DICT-ND	4.00	28.80	—	
Darlington Amp, 80V, 500mA	80	SOT-23	MMBTA28DICT-ND	3.63	25.52	3,000	104.0
S.S., 45V, 800mA	100	SOT-23	BC817-16DICT-ND	3.00	20.80	3,000	80.0
S.S., 40V, 600mA	35	SOT-523	MMBT2222ATDICT-ND	2.63	18.20	3,000	70.0
S.S., 40V, 200mA	30	SOT-523	MMBT3904TDICT-ND	2.25	15.60	—	
S.S., 40V, 200mA	30	SOT-523	MMBT3904T-FDICT-ND◊	2.25	15.60	3,000	60.0
S.S., 40V, 600mA	20	SOT-523	MMBT4401TDICT-ND	2.63	18.20	3,000	70.0
S.S., 50V, 100mA	110	SOT-523	BC847ATDICT-ND	2.25	15.60	3,000	60.0
S.S., 50V, 150mA	120	SOT-523	2DC4617QDICT-ND	2.81	19.80	3,000	81.0
S.S., 50V, 150mA	180	SOT-523	2DC4617RDICT-ND	2.81	19.80	3,000	81.0
S.S., 50V, 150mA	270	SOT-523	2DC4617SDICT-ND	2.81	19.80	3,000	81.0
PNP Transistors							
S.S., 60V, 600mA	50	SOT-323	MMST2907ADICT-ND	3.25	23.40	3,000	111.0
S.S., 60V, 600mA	50	SOT-323	MMST2907A-FDICT-ND◊	3.25	23.40	3,000	111.0
S.S., 40V, 200mA	30	SOT-323	MMST3906DICT-ND	3.25	23.40	3,000	111.0
S.S., 40V, 200mA	30	SOT-323	MMST3906-FDICT-ND◊	3.25	23.40	3,000	111.0
S.S., 40V, 600mA	30	SOT-323	MMST4403DICT-ND	3.25	23.40	3,000	111.0
S.S., 25V, 200mA	60	SOT-323	MMST4126DICT-ND	3.25	23.40	—	
S.S., 150V, 200mA	50	SOT-323	MMST5401DICT-ND	3.25	23.40	—	
S.S., 60V, 500mA	100	SOT-323	MMSTA55DICT-ND	3.60	27.00	3,000	135.0
S.S., 80V, 500mA	100	SOT-323	MMSTA56DICT-ND	3.60	27.00	3,000	135.0
S.S., 80V, 500mA	100	SOT-323	MMSTA56-FDICT-ND◊	3.60	27.00	3,000	135.0
Darlington Amp, 30V, 500mA	10K	SOT-323	MMSTA63DICT-ND	3.60	27.00	3,000	135.0
Darlington Amp, 30V, 500mA	20K	SOT-323	MMSTA64DICT-ND	3.60	27.00	3,000	135.0
S.S., 300V, 100mA	25	SOT-323	MMSTA92DICT-ND	3.60	27.00	3,000	135.0
SMD, 350mW, 40V, 0.75	100	SOT-23	MMBT4403DICT-ND	2.63	18.20	3,000	70.0
SMD, General Purpose, 60V, 100mA	50	SOT-23	MMBTA55DICT-ND	3.63	25.52	3,000	104.0
SMD, General Purpose, 80V, 100mA	50	SOT-23	MMBTA56DICT-ND	3.63	25.52	3,000	104.0
SMD, General Purpose, 60V, 150mA	300	SOT-23	MMBT2907ADICT-ND	2.63	18.20	3,000	70.0
SMD, 45V, 500mA	170	SOT-23	BC807-40-FCT-ND◊	3.00	20.80	3,000	80.0
S.S., 25V, 200mA	60	SOT-23	MMBT4126DICT-ND	2.63	18.20	3,000	70.0
Darlington Amp, 30V, 500mA	10K	SOT-23	MMBTA63DICT-ND	3.63	25.52	3,000	104.0
Darlington Amp, 30V, 500mA	20K	SOT-23	MMBTA64DICT-ND	3.63	25.52	3,000	104.0
S.S., 300V, 500mA	25	SOT-23	MMBTA92DICT-ND	3.63	25.52	3,000	104.0
S.S., 300V, 500mA	25	SOT-23	MMBTA92-FDICT-ND◊	3.63	25.52	3,000	104.0
S.S., 60V, 600mA	50	SOT-523	MMBT2907ATDICT-ND	2.63	18.20	3,000	70.0
S.S., 50V, 150mA	120	SOT-523	2DA1774QDICT-ND	2.81	19.80	3,000	81.0
S.S., 50V, 150mA	180	SOT-523	2DA1774RDICT-ND	2.81	19.80	3,000	81.0
S.S., 50V, 150mA	270	SOT-523	2DA1774SDICT-ND	2.81	19.80	3,000	81.0
S.S., 40V, 200mA	30	SOT-523	MMBT3906TDICT-ND	2.25	15.60	3,000	60.0
S.S., 40V, 600mA	20	SOT-523	MMBT4403TDICT-ND	2.63	18.20	3,000	70.0
S.S., 40V, 600mA	20	SOT-523	MMBT4403T-FDICT-ND◊	2.63	18.20	3,000	70.0

* For Tape and Reel part number, change CT-ND to TR-ND. ◊ ***NEW!*** Lead Free/RoHS Compliant

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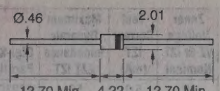
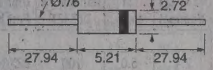
ODES INCORPORATED Zener Diodes

-35 Zener Diodes — 500mW (+5%)



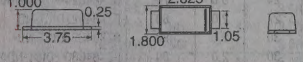
Zener Voltage VZ @ IZT Nominal	Test Current IZT (mA)	Maximum Dynamic Impedance ZZT IZT	Digi-Key Part No.	Cut Tape Pricing 1	10	100	1,000	Digi-Key Part No.	Tape & Reel Pricing 10,000
3	20	28	1N5226BDICT-ND	.36	2.10	13.65	56.70	1N5226BDITR-ND	36.00/M
5	20	24	1N5227BDICT-ND	.36	2.10	13.65	56.70	1N5227BDITR-ND	36.00/M
9	20	23	1N5228BDICT-ND	.36	2.10	13.65	56.70	1N5228BDITR-ND	36.00/M
3	20	22	1N5229BDICT-ND	.36	2.10	13.65	56.70	1N5229BDITR-ND	36.00/M
7	20	19	1N5230BDICT-ND	.36	2.10	13.65	56.70	1N5230BDITR-ND	36.00/M
1	20	17	1N5231BDICT-ND	.36	2.10	13.65	56.70	1N5231BDITR-ND	36.00/M
5	20	11	1N5232BDICT-ND	.36	2.10	13.65	56.70	1N5232BDITR-ND	36.00/M
0	20	7	1N5233BDICT-ND	.36	2.10	13.65	56.70	1N5233BDITR-ND	36.00/M
2	20	7	1N5234BDICT-ND	.36	2.10	13.65	56.70	1N5234BDITR-ND	36.00/M
9	20	5	1N5235BDICT-ND	.36	2.10	13.65	56.70	1N5235BDITR-ND	36.00/M
5	20	6	1N5236BDICT-ND	.36	2.10	13.65	56.70	1N5236BDITR-ND	36.00/M
2	20	8	1N5237BDICT-ND	.36	2.10	13.65	56.70	1N5237BDITR-ND	36.00/M
7	20	8	1N5238BDICT-ND	.36	2.10	13.65	56.70	1N5238BDITR-ND	36.00/M
1	20	10	1N5239BDICT-ND	.36	2.10	13.65	56.70	1N5239BDITR-ND	36.00/M
0	20	17	1N5240BDICT-ND	.36	2.10	13.65	56.70	1N5240BDITR-ND	36.00/M
2	20	22	1N5241BDICT-ND	.36	2.10	13.65	56.70	1N5241BDITR-ND	36.00/M
2	20	30	1N5242BDICT-ND	.36	2.10	13.65	56.70	1N5242BDITR-ND	36.00/M
3	9.5	13	1N5243BDICT-ND	.36	2.10	13.65	56.70	1N5243BDITR-ND	36.00/M
4	9.0	15	1N5244BDICT-ND	.36	2.10	13.65	56.70	1N5244BDITR-ND	36.00/M
5	8.5	16	1N5245BDICT-ND	.36	2.10	13.65	56.70	1N5245BDITR-ND	36.00/M
6	7.8	17	1N5246BDICT-ND	.36	2.10	13.65	56.70	1N5246BDITR-ND	36.00/M
7	7.4	19	1N5247BDICT-ND	.36	2.10	13.65	56.70	1N5247BDITR-ND	36.00/M
8	7.0	21	1N5248BDICT-ND	.36	2.10	13.65	56.70	1N5248BDITR-ND	36.00/M
9	6.6	23	1N5249BDICT-ND	.36	2.10	13.65	56.70	1N5249BDITR-ND	36.00/M
0	6.2	25	1N5250BDICT-ND	.36	2.10	13.65	56.70	1N5250BDITR-ND	36.00/M
2	5.6	29	1N5251BDICT-ND	.36	2.10	13.65	56.70	1N5251BDITR-ND	36.00/M
1	5.2	33	1N5252BDICT-ND	.36	2.10	13.65	56.70	1N5252BDITR-ND	36.00/M
3	5.0	35	1N5253BDICT-ND	.36	2.10	13.65	56.70	1N5253BDITR-ND	36.00/M
4	4.6	41	1N5254BDICT-ND	.36	2.10	13.65	56.70	1N5254BDITR-ND	36.00/M
5	4.5	44	1N5255BDICT-ND	.36	2.10	13.65	56.70	1N5255BDITR-ND	36.00/M
0	4.2	49	1N5256BDICT-ND	.36	2.10	13.65	56.70	1N5256BDITR-ND	36.00/M
1	3.8	58	1N5257BDICT-ND	.36	2.10	13.65	56.70	1N5257BDITR-ND	36.00/M
3	3.4	70	1N5258BDICT-ND	.36	2.10	13.65	56.70	1N5258BDITR-ND	36.00/M
6	3.2	80	1N5259BDICT-ND	.36	2.10	13.65	56.70	1N5259BDITR-ND	36.00/M
8	3.0	93	1N5260BDICT-ND	.36	2.10	13.65	56.70	1N5260BDITR-ND	36.00/M
1	2.7	105	1N5261BDICT-ND	.36	2.10	13.65	56.70	1N5261BDITR-ND	36.00/M
1	2.5	125	1N5262BDICT-ND	.36	2.10	13.65	56.70	1N5262BDITR-ND	36.00/M

-41 ner Diodes — 1W (+5%)



Zener Voltage VZ @ IZT Nominal	Test Current IZT (mA)	Maximum Dynamic Impedance ZZT IZT	Digi-Key Part No.	Cut Tape Pricing 1	10	100	1,000	Digi-Key Part No.	Tape & Reel Pricing 5,000
3	76	10.0	1N4728ADICT-ND	.36	2.48	17.16	75.90	1N4728ADITR-ND	59.00/M
6	69	10.0	1N4729ADICT-ND	.36	2.48	17.16	75.90	1N4729ADITR-ND	59.00/M
9	64	9.0	1N4730ADICT-ND	.36	2.48	17.16	75.90	1N4730ADITR-ND	59.00/M
3	58	9.0	1N4731ADICT-ND	.36	2.48	17.16	75.90	1N4731ADITR-ND	59.00/M
7	53	8.0	1N4732ADICT-ND	.36	2.48	17.16	75.90	1N4732ADITR-ND	59.00/M
1	49	7.0	1N4733ADICT-ND	.36	2.48	17.16	75.90	1N4733ADITR-ND	59.00/M
6	45	5.0	1N4734ADICT-ND	.36	2.48	17.16	75.90	1N4734ADITR-ND	59.00/M
2	41	2.0	1N4735ADICT-ND	.36	2.48	17.16	75.90	1N4735ADITR-ND	59.00/M
8	37	3.5	1N4736ADICT-ND	.36	2.48	17.16	75.90	1N4736ADITR-ND	59.00/M
5	34	4.0	1N4737ADICT-ND	.36	2.48	17.16	75.90	1N4737ADITR-ND	59.00/M
2	31	4.5	1N4738ADICT-ND	.36	2.48	17.16	75.90	1N4738ADITR-ND	59.00/M
1	28	5.0	1N4739ADICT-ND	.36	2.48	17.16	75.90	1N4739ADITR-ND	59.00/M
0	25	7.0	1N4740ADICT-ND	.36	2.48	17.16	75.90	1N4740ADITR-ND	59.00/M
1	23	8	1N4741ADICT-ND	.36	2.48	17.16	75.90	1N4741ADITR-ND	59.00/M
2	21	9	1N4742ADICT-ND	.36	2.48	17.16	75.90	1N4742ADITR-ND	59.00/M
3	19	10	1N4743ADICT-ND	.36	2.48	17.16	75.90	1N4743ADITR-ND	59.00/M
5	17	14	1N4744ADICT-ND	.36	2.48	17.16	75.90	1N4744ADITR-ND	59.00/M
6	15	16	1N4745ADICT-ND	.36	2.48	17.16	75.90	1N4745ADITR-ND	59.00/M
8	14	20	1N4746ADICT-ND	.36	2.48	17.16	75.90	1N4746ADITR-ND	59.00/M
0	12.5	22	1N4747ADICT-ND	.36	2.48	17.16	75.90	1N4747ADITR-ND	59.00/M
2	11.5	23	1N4748ADICT-ND	.36	2.48	17.16	75.90	1N4748ADITR-ND	59.00/M
4	10.5	25	1N4749ADICT-ND	.36	2.48	17.16	75.90	1N4749ADITR-ND	59.00/M
7	9.5	35	1N4750ADICT-ND	.36	2.48	17.16	75.90	1N4750ADITR-ND	59.00/M
0	8.5	40	1N4751ADICT-ND	.36	2.48	17.16	75.90	1N4751ADITR-ND	59.00/M
3	7.5	45	1N4752ADICT-ND	.36	2.48	17.16	75.90	1N4752ADITR-ND	59.00/M
5	7	50	1N4753ADICT-ND	.36	2.48	17.16	75.90	1N4753ADITR-ND	59.00/M
9	6.5	60	1N4754ADICT-ND	.36	2.48	17.16	75.90	1N4754ADITR-ND	59.00/M
3	6	70	1N4755ADICT-ND	.36	2.48	17.16	75.90	1N4755ADITR-ND	59.00/M
7	55	80	1N4756ADICT-ND	.36	2.48	17.16	75.90	1N4756ADITR-ND	59.00/M
1	5	95	1N4757ADICT-ND	.36	2.48	17.16	75.90	1N4757ADITR-ND	59.00/M
6	4.5	110	1N4758ADICT-ND	.36	2.48	17.16	75.90	1N4758ADITR-ND	59.00/M
2	4	125	1N4759ADICT-ND	.36	2.48	17.16	75.90	1N4759ADITR-ND	59.00/M
8	3.7	150	1N4760ADICT-ND	.36	2.48	17.16	75.90	1N4760ADITR-ND	59.00/M
5	3.3	175	1N4761ADICT-ND	.36	2.48	17.16	75.90	1N4761ADITR-ND	59.00/M

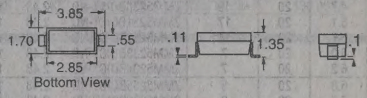
EW! PowerDI™ 123 Lead Free/ HS Compliant Surface Mount wer Zener Diodes — 1W



Zener Voltage VZ @ IZT Nominal	Test Current IZT (mA)	Maximum Dynamic Impedance ZZT IZT	Digi-Key Part No.	Cut Tape Pricing 1	10	100	1,000	Digi-Key Part No.	Tape & Reel Pricing 3,000
1	100	6	DFLZ5V1DICT-ND	.60	4.80	36.00	192.00	DFLZ5V1DITR-ND	180.00/M
6	100	4	DFLZ5V6DICT-ND	.60	4.80	36.00	192.00	DFLZ5V6DITR-ND	180.00/M
2	100	3	DFLZ6V2DICT-ND	.60	4.80	36.00	192.00	DFLZ6V2DITR-ND	180.00/M
8	100	3	DFLZ6V8DICT-ND	.60	4.80	36.00	192.00	DFLZ6V8DITR-ND	180.00/M
2	100	2	DFLZ8V2DICT-ND	.60	4.80	36.00	192.00	DFLZ8V2DITR-ND	180.00/M
1	50	4	DFLZ9V1DICT-ND	.60	4.80	36.00	192.00	DFLZ9V1DITR-ND	180.00/M

Zener Voltage VZ @ IZT Nominal	Test Current IZT (mA)	Maximum Dynamic Impedance ZZT IZT	Digi-Key Part No.	Cut Tape Pricing 1	10	100	1,000	Digi-Key Part No.	Tape & Reel Pricing 3,000
10	50	4	DFLZ10DICT-ND	.60	4.80	36.00	192.00	DFLZ10DITR-ND	180.00/M
12	50	7	DFLZ12DICT-ND	.60	4.80	36.00	192.00	DFLZ12DITR-ND	180.00/M
15	50	10	DFLZ15DICT-ND	.60	4.80	36.00	192.00	DFLZ15DITR-ND	180.00/M
16	25	15	DFLZ16DICT-ND	.60	4.80	36.00	192.00	DFLZ16DITR-ND	180.00/M
18	25	15	DFLZ18DICT-ND	.60	4.80	36.00	192.00	DFLZ18DITR-ND	180.00/M
20	25	15	DFLZ20DICT-ND	.60	4.80	36.00	192.00	DFLZ20DITR-ND	180.00/M
24	25	15	DFLZ24DICT-ND	.60	4.80	36.00	192.00	DFLZ24DITR-ND	180.00/M
27	25	15	DFLZ27DICT-ND	.60	4.80	36.00	192.00	DFLZ27DITR-ND	180.00/M
30	25	15	DFLZ30DICT-ND	.60	4.80	36.00	192.00	DFLZ30DITR-ND	180.00/M
33	25	15	DFLZ33DICT-ND	.60	4.80	36.00	192.00	DFLZ33DITR-ND	180.00/M
39	10	40	DFLZ39DICT-ND	.60	4.80	36.00	192.00	DFLZ39DITR-ND	180.00/M

SOD-123 Surface Mount Zener Diodes — 500mW



Zener Voltage VZ @ IZT Nominal	Test Current IZT (mA)	Maximum Dynamic Impedance ZZT IZT	Digi-Key Part No.	Cut Tape Pricing 10	100	1,000	Digi-Key Part No.	Tape & Reel Pricing 3,000
BZT Series								
2.4	5	100	BZT52C2V4-7DICT-ND	3.13	22.00	100.00	BZT52C2V4-7DITR-ND	90.00/M
			—	—	—	—	BZT52C2V4-13DITR-ND†	78.00/M
			BZT52C2V4-7-FDICT-ND◊	3.13	22.00	100.00	BZT52C2V4-7-FDITR-ND◊	90.00/M
2.7	5	100	BZT52C2V7-7DICT-ND	3.13	22.00	100.00	BZT52C2V7-7DITR-ND	90.00/M
			—	—	—	—	BZT52C2V7-13DITR-ND†	78.00/M
3.0	5	95	BZT52C3V0-7DICT-ND	3.13	22.00	100.00	BZT52C3V0-7DITR-ND	90.00/M
			—	—	—	—	BZT52C3V0-13DITR-ND†	78.00/M
3.3	5	95	BZT52C3V3-7DICT-ND	3.13	22.00	100.00	BZT52C3V3-7DITR-ND	90.00/M
			—	—	—	—	BZT52C3V3-13DITR-ND†	78.00/M
			BZT52C3V3-7-FDICT-ND◊	3.13	22.00	100.00	BZT52C3V3-7-FDITR-ND◊	90.00/M
3.6	5	90	BZT52C3V6-7DICT-ND	3.13	22.00	100.00	BZT52C3V6-7DITR-ND	90.00/M
			—	—	—	—	BZT52C3V6-13DITR-ND†	78.00/M
3.9	5	90	BZT52C3V9-7DICT-ND	3.13	22.00	100.00	—	—
			—	—	—	—	BZT52C3V9-13DITR-ND†	78.00/M
			BZT52C3V9-7-FDICT-ND◊	3.13	22.00	100.00	BZT52C3V9-7-FDITR-ND◊	90.00/M
4.3	5	90	BZT52C4V3-7DICT-ND	3.13	22.00	100.00	BZT52C4V3-7DITR-ND	90.00/M
			—	—	—	—	BZT52C4V3-13DITR-ND†	78.00/M
4.7	5	80	BZT52C4V7-7DICT-ND	3.13	22.00	100.00	BZT52C4V7-7DITR-ND	90.00/M
			—	—	—	—	BZT52C4V7-13DITR-ND†	78.00/M
5.1	5	60	BZT52C5V1-7DICT-ND	3.13	22.00	100.00	—	—
			—	—	—	—	BZT52C5V1-13DITR-ND†	78.00/M
			BZT52C5V1-7-FDICT-ND◊	3.13	22.00	100.00	BZT52C5V1-7-FDITR-ND◊	90.00/M
5.6	5	40	BZT52C5V6-7DICT-ND	3.13	22.00	100.00	BZT52C5V6-7DITR-ND	90.00/M
			—	—	—	—	BZT52C5V6-13DITR-ND†	78.00/M
			BZT52C5V6-7-FDICT-ND◊	3.13	22.00	100.00	BZT52C5V6-7-FDITR-ND◊	90.00/M
6.2	5	10	BZT52C6V2-7DICT-ND	3.13	22.00	100.00	BZT52C6V2-7DITR-ND	90.00/M
			—	—	—	—	BZT52C6V2-13DITR-ND†	78.00/M
6.8	5	15	BZT52C6V8-7DICT-ND	3.13	22.00	100.00	BZT52C6V8-7DITR-ND	90.00/M
			—	—	—	—	BZT52C6V8-13DITR-ND†	78.00/M
7.5	5	15	BZT52C7V5-7DICT-ND	3.13	22.00	100.00	BZT52C7V5-7DITR-ND	90.00/M
			—	—	—	—	BZT52C7V5-13DITR-ND†	78.00/M
			BZT52C7V5-7-FDICT-ND◊	3.13	22.00	100.00	BZT52C7V5-7-FDITR-ND◊	90.00/M
8.2	5	15	BZT52C8V2-7DICT-ND	3.13	22.00	100.00	BZT52C8V2-7DITR-ND	90.00/M
			—	—	—	—	BZT52C8V2-13DITR-ND†	78.00/M
			BZT52C8V2-7-FDICT-ND◊	3.13	22.00	100.00	BZT52C8V2-7-FDITR-ND◊	90.00/M
9.1	5	15	BZT52C9V1-7DICT-ND	3.13	22.00	100.00	BZT52C9V1-7DITR-ND	90.00/M
			—	—	—	—	BZT52C9V1-13DITR-ND†	78.00/M
			BZT52C9V1-7-FDICT-ND◊	3.13	22.00	100.00	BZT52C9V1-7-FDITR-ND◊	90.00/M
10	5	20	BZT52C10-7DICT-ND	3.13	22.00	100.00	—	—
			—	—	—	—	BZT52C10-13DITR-ND†	78.00/M
			BZT52C10-7-FDICT-ND◊	3.13	22.00	100.00	BZT52C10-7-FDITR-ND◊	90.00/M
11	5	20	BZT52C11-7DICT-ND	3.13	22.00	100.00	BZT52C11-7DITR-ND	90.00/M
			—	—	—	—	BZT52C11-13DITR-ND†	78.00/M
12	5	25	BZT52C12-7DICT-ND	3.13	22.00	100.00	—	—
			—	—	—	—	BZT52C12-13DITR-ND†	78.00/M
			BZT52C12-7-FDICT-ND◊	3.13	22.00	100.00	BZT52C12-7-FDITR-ND◊	90.00/M
13	5	30	BZT52C13-7DICT-ND	3.13	22.00	100.00	BZT52C13-7DITR-ND	90.00/M
15	5	30	BZT52C15-7DICT-ND	3.13	22.00	100.00	BZT52C15-7DITR-ND	90.00/M
			—	—	—	—	BZT52C15-13DITR-ND†	78.00/M
16	5	40	BZT52C16-7DICT-ND	3.13	22.00	100.00	BZT52C16-7DITR-ND	90.00/M
			—	—	—	—	BZT52C16-13DITR-ND†	78.00/M
			BZT52C16-7-FDICT-ND◊	3.13	22.00	100.00	BZT52C16-7-FDITR-ND◊	90.00/M
18	5	45	BZT52C18-7DICT-ND	3.13	22.00	100.00	BZT52C18-7DITR-ND	90.00/M
			—	—	—	—	BZT52C18-13DITR-ND†	78.00/M
20	5	55	BZT52C20-7DICT-ND	3.13	22.00	100.00	—	—
			—	—	—	—	BZT52C20-13DITR-ND†	78.00/M
22	5	55	BZT52C22-7DICT-ND	3.13	22.00	100.00	BZT52C22-7DITR-ND	90.00/M
			—	—	—	—	BZT52C22-13DITR-ND†	78.00/M
24	5	70	BZT52C24-7DICT-ND	3.13	22.00	100.00	BZT52C24-7DITR-ND	90.00/M
			—	—	—	—	BZT52C24-13DITR-ND†	78.00/M
			BZT52C24-7-FDICT-ND◊	3.13	22.00	100.00	BZT52C24-7-FDITR-ND◊	90.00/M
27	2	80	BZT52C27-7DICT-ND	3.13	22.00	100.00	BZT52C27-7DITR-ND	90.00/M
			—	—	—	—	BZT52C27-13DITR-ND†	78.00/M
30	2	80	BZT52C30-7DICT-ND	3.13	22.00	100.00	—	—
			—	—	—	—	BZT52C30-13DITR-ND†	78.00/M
33	2	80	BZT52C33-7DICT-ND	3.13	22.00	100.00	BZT52C33-7DITR-ND	90.00/M
			—	—	—	—	BZT52C33-13DITR-ND†	78.00/M
			BZT52C33-7-FDICT-ND◊	3.13	22.00	100.00	BZT52C33-7-FDITR-ND◊	90.00/M
36	2	90	BZT52C36-7DICT-ND	3.13	22.00	100.00	BZT52C36-7DITR-ND	90.00/M
			—	—	—	—	BZT52C36-13DITR-ND†	78.00/M
39	2	130	BZT52C39-7DICT-ND	3.13	22.00	100.00	—	—
			—	—	—	—	BZT52C39-13DITR-ND†	78.00/M
			BZT52C39-7-FDICT-ND◊	3.13	22.00	100.00	BZT52C39-7-FDITR-ND◊	90.00/M
43	5	100	BZT52C43-7DICT-ND	3.13	22.00	100.00	BZT52C43-7DITR-ND	90.00/M
			—	—	—	—	BZT52C43-13DITR-ND†	78.00/M
47	5	100	BZT52C47-7DICT-ND	3.13	22.00	100.00	BZT52C47-7DITR-ND	90.00/M
51	5	100	BZT52C51-7DICT-ND	3.13	22.00	100.00	BZT52C51-7DITR-ND	90.00/M

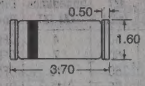
† Tape and Reel size is 10,000. ◊ **NEW!** Lead Free/RoHS Compliant

(Continued)

B

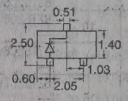
B

MiniMELF (DL-35) Surface Mount Zener Diodes — 500mW



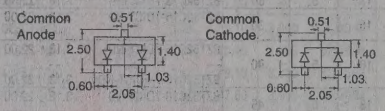
Zener Voltage VZ @ IZT Nominal	Test Current IZT (mA)	Maximum Dynamic Impedance ZZT IZT	Digi-Key Part No.	Cut Tape Pricing 10	100	1,000	Digi-Key Part No.	Tape & Reel Pricing 2,500
3.0	20	29	ZMM5225BDICT-ND	2.48	17.16	75.90	ZMM5225BDITR-ND	66.00/M
3.3	20	28	ZMM5226BDICT-ND	2.48	17.16	75.90	ZMM5226BDITR-ND	66.00/M
3.6	20	24	ZMM5227BDICT-ND	2.48	17.16	75.90	ZMM5227BDITR-ND	66.00/M
3.9	20	23	ZMM5228BDICT-ND	2.48	17.16	75.90	ZMM5228BDITR-ND	66.00/M
4.3	20	22	ZMM5229BDICT-ND	2.48	17.16	75.90	ZMM5229BDITR-ND	66.00/M
4.7	20	19	ZMM5230BDICT-ND	2.48	17.16	75.90	ZMM5230BDITR-ND	66.00/M
5.1	20	17	ZMM5231BDICT-ND	2.48	17.16	75.90	ZMM5231BDITR-ND	66.00/M
5.6	20	11	ZMM5232BDICT-ND	2.48	17.16	75.90	ZMM5232BDITR-ND	66.00/M
6.0	20	7	ZMM5233BDICT-ND	2.48	17.16	75.90	ZMM5233BDITR-ND	66.00/M
6.2	20	7	ZMM5234BDICT-ND	2.48	17.16	75.90	ZMM5234BDITR-ND	66.00/M
6.8	20	5	ZMM5235BDICT-ND	2.48	17.16	75.90	ZMM5235BDITR-ND	66.00/M
7.5	20	6	ZMM5236BDICT-ND	2.48	17.16	75.90	ZMM5236BDITR-ND	66.00/M
8.2	20	8	ZMM5237BDICT-ND	2.48	17.16	75.90	ZMM5237BDITR-ND	66.00/M
8.7	20	8	ZMM5238BDICT-ND	2.48	17.16	75.90	ZMM5238BDITR-ND	66.00/M
9.1	20	10	ZMM5239BDICT-ND	2.48	17.16	75.90	ZMM5239BDITR-ND	66.00/M
10	20	17	ZMM5240BDICT-ND	2.48	17.16	75.90	ZMM5240BDITR-ND	66.00/M
11	20	22	ZMM5241BDICT-ND	2.48	17.16	75.90	ZMM5241BDITR-ND	66.00/M
12	20	30	ZMM5242BDICT-ND	2.48	17.16	75.90	ZMM5242BDITR-ND	66.00/M
13	9.5	13	ZMM5243BDICT-ND	2.48	17.16	75.90	ZMM5243BDITR-ND	66.00/M
14	9.0	15	ZMM5244BDICT-ND	2.48	17.16	75.90	ZMM5244BDITR-ND	66.00/M
15	8.5	16	ZMM5245BDICT-ND	2.48	17.16	75.90	ZMM5245BDITR-ND	66.00/M
16	7.8	17	ZMM5246BDICT-ND	2.48	17.16	75.90	ZMM5246BDITR-ND	66.00/M
17	7.4	19	ZMM5247BDICT-ND	2.48	17.16	75.90	ZMM5247BDITR-ND	66.00/M
18	7.0	21	ZMM5248BDICT-ND	2.48	17.16	75.90	ZMM5248BDITR-ND	66.00/M
19	6.6	23	ZMM5249BDICT-ND	2.48	17.16	75.90	ZMM5249BDITR-ND	66.00/M
20	6.2	25	ZMM5250BDICT-ND	2.48	17.16	75.90	ZMM5250BDITR-ND	66.00/M
22	5.6	29	ZMM5251BDICT-ND	2.48	17.16	75.90	ZMM5251BDITR-ND	66.00/M
24	5.2	33	ZMM5252BDICT-ND	2.48	17.16	75.90	ZMM5252BDITR-ND	66.00/M
25	5.0	35	ZMM5253BDICT-ND	2.48	17.16	75.90	ZMM5253BDITR-ND	66.00/M
27	4.6	41	ZMM5254BDICT-ND	2.48	17.16	75.90	ZMM5254BDITR-ND	66.00/M
28	4.5	44	ZMM5255BDICT-ND	2.48	17.16	75.90	ZMM5255BDITR-ND	66.00/M
30	4.2	49	ZMM5256BDICT-ND	2.48	17.16	75.90	ZMM5256BDITR-ND	66.00/M
33	3.8	58	ZMM5257BDICT-ND	2.48	17.16	75.90	ZMM5257BDITR-ND	66.00/M
36	3.4	70	ZMM5258BDICT-ND	2.48	17.16	75.90	ZMM5258BDITR-ND	66.00/M
39	3.2	80	ZMM5259BDICT-ND	2.48	17.16	75.90	ZMM5259BDITR-ND	66.00/M
43	3.0	93	ZMM5260BDICT-ND	2.48	17.16	75.90	ZMM5260BDITR-ND	66.00/M
47	2.7	105	ZMM5261BDICT-ND	2.48	17.16	75.90	ZMM5261BDITR-ND	66.00/M
51	2.5	125	ZMM5262BDICT-ND	2.48	17.16	75.90	ZMM5262BDITR-ND	66.00/M
62	2.0	185	ZMM5265BDICT-ND	2.48	17.16	75.90	ZMM5265BDITR-ND	66.00/M
68	1.8	230	ZMM5266BDICT-ND	2.48	17.16	75.90	ZMM5266BDITR-ND	66.00/M

SOT-23 Surface Mount Zener Diodes — 300mW



Zener Voltage VZ @ IZT Nominal	Test Current IZT (mA)	Maximum Dynamic Impedance ZZT IZT	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 3,000
5.6	20	11	DDZX5V6BDICT-ND	.44	3.00	20.80	DDZX5V6BDITR-ND	80.00/M
6.2	20	7	DDZX6V2BDICT-ND	.44	3.00	20.80	DDZX6V2BDITR-ND	80.00/M
6.8	20	5	DDZX6V8CDICT-ND	.44	3.00	20.80	DDZX6V8CDITR-ND	80.00/M
7.5	20	6	DDZX7V5CDICT-ND	.44	3.00	20.80	DDZX7V5CDITR-ND	80.00/M
9.1	20	8	DDZX9V1CDICT-ND	.44	3.00	20.80	DDZX9V1CDITR-ND	80.00/M
12	10	12	DDZX12CDICT-ND	.44	3.00	20.80	DDZX12CDITR-ND	80.00/M
13	10	14	DDZX13BDICT-ND	.44	3.00	20.80	DDZX13BDITR-ND	80.00/M
18	10	23	DDZX18CDICT-ND	.44	3.00	20.80	DDZX18CDITR-ND	80.00/M
20	10	28	DDZX20CDICT-ND	.44	3.00	20.80	DDZX20CDITR-ND	80.00/M
24	5	35	DDZX24CDICT-ND	.44	3.00	20.80	DDZX24CDITR-ND	80.00/M

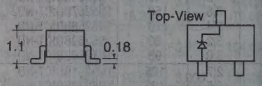
SOT-23 Dual Surface Mount Zener Diodes — 300mW



Zener Voltage VZ @ IZT Nominal	Test Current IZT (mA)	Maximum Dynamic Impedance ZZT IZT	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 3,000
Common Anode								
3.0	5.0	95	AZ23C3V0DICT-ND	.50	4.00	30.00	AZ23C3V0DITR-ND	150.00/M
3.9	5.0	95	AZ23C3V9DICT-ND	.50	4.00	30.00	AZ23C3V9DITR-ND	150.00/M
4.7	5.0	78	AZ23C4V7DICT-ND	.50	4.00	30.00	AZ23C4V7DITR-ND	150.00/M
5.1	5.0	60	AZ23C5V1DICT-ND	.50	4.00	30.00	AZ23C5V1DITR-ND	150.00/M
5.1	5.0	60	AZ23C5V1-FDICT-ND◊	.50	4.00	30.00	AZ23C5V1-FDITR-ND◊	150.00/M
5.6	5.0	40	AZ23C5V6-FDICT-ND◊	.50	4.00	30.00	AZ23C5V6-FDITR-ND◊	150.00/M
6.2	5.0	10	AZ23C6V2DICT-ND	.50	4.00	30.00	AZ23C6V2DITR-ND	150.00/M
6.8	5.0	8.0	AZ23C6V8DICT-ND	.50	4.00	30.00	—	—
6.8	5.0	8.0	AZ23C6V8-FDICT-ND◊	.50	4.00	30.00	AZ23C6V8-FDITR-ND◊	150.00/M
10	5.0	15	AZ23C10DICT-ND	.50	4.00	30.00	AZ23C10DITR-ND	150.00/M
11	5.0	20	AZ23C11DICT-ND	.50	4.00	30.00	AZ23C11DITR-ND	150.00/M
12	5.0	20	AZ23C12DICT-ND	.50	4.00	30.00	AZ23C12DITR-ND	150.00/M
15	5.0	30	AZ23C15DICT-ND	.50	4.00	30.00	AZ23C15DITR-ND	150.00/M
16	5.0	40	AZ23C16DICT-ND	.50	4.00	30.00	AZ23C16DITR-ND	150.00/M
18	5.0	50	AZ23C18DICT-ND	.50	4.00	30.00	—	—
18	5.0	50	AZ23C18-FDICT-ND◊	.50	4.00	30.00	AZ23C18-FDITR-ND◊	150.00/M
20	5.0	50	AZ23C20DICT-ND	.50	4.00	30.00	AZ23C20DITR-ND	150.00/M
20	5.0	50	AZ23C20-FDICT-ND◊	.50	4.00	30.00	AZ23C20-FDITR-ND◊	150.00/M
27	5.0	80	AZ23C27DICT-ND	.50	4.00	30.00	AZ23C27DITR-ND	150.00/M
30	5.0	80	AZ23C30-FDICT-ND◊	.50	4.00	30.00	AZ23C30-FDITR-ND◊	150.00/M
36	5.0	90	AZ23C36DICT-ND	.50	4.00	30.00	AZ23C36DITR-ND	150.00/M
51	5.0	100	AZ23C51DICT-ND	.50	4.00	30.00	AZ23C51DITR-ND	150.00/M
Common Cathode								
3.0	5.0	95	DZ23C3V0DICT-ND	.45	3.60	27.00	DZ23C3V0DITR-ND	135.00/M
3.3	5.0	95	DZ23C3V3DICT-ND	.45	3.60	27.00	DZ23C3V3DITR-ND	135.00/M
3.6	5.0	95	DZ23C3V6DICT-ND	.45	3.60	27.00	DZ23C3V6DITR-ND	135.00/M
3.9	5.0	95	DZ23C3V9DICT-ND	.45	3.60	27.00	DZ23C3V9DITR-ND	135.00/M
4.3	5.0	95	DZ23C4V3DICT-ND	.45	3.60	27.00	DZ23C4V3DITR-ND	135.00/M
5.1	5.0	60	DZ23C5V1DICT-ND	.45	3.60	27.00	DZ23C5V1DITR-ND	135.00/M
5.6	5.0	40	DZ23C5V6DICT-ND	.45	3.60	27.00	DZ23C5V6DITR-ND	135.00/M
6.2	5.0	10	DZ23C6V2DICT-ND	.45	3.60	27.00	DZ23C6V2DITR-ND	135.00/M
6.8	5.0	8.0	DZ23C6V8DICT-ND	.45	3.60	27.00	DZ23C6V8DITR-ND	135.00/M
7.5	5.0	7.0	DZ23C7V5DICT-ND	.45	3.60	27.00	—	—
8.2	5.0	7.0	DZ23C8V2DICT-ND	.45	3.60	27.00	DZ23C8V2DITR-ND	135.00/M
9.1	5.0	10	DZ23C9V1DICT-ND	.45	3.60	27.00	DZ23C9V1DITR-ND	135.00/M
10	5.0	15	DZ23C10DICT-ND	.45	3.60	27.00	DZ23C10DITR-ND	135.00/M
11	5.0	20	DZ23C11DICT-ND	.45	3.60	27.00	DZ23C11DITR-ND	135.00/M
12	5.0	20	DZ23C12DICT-ND	.45	3.60	27.00	DZ23C12DITR-ND	135.00/M
13	5.0	25	DZ23C13DICT-ND	.45	3.60	27.00	DZ23C13DITR-ND	135.00/M
15	5.0	30	DZ23C15DICT-ND	.45	3.60	27.00	DZ23C15DITR-ND	135.00/M
18	5.0	50	DZ23C18-FDICT-ND◊	.45	3.60	27.00	DZ23C18-FDITR-ND◊	135.00/M
22	5.0	55	DZ23C22DICT-ND	.45	3.60	27.00	DZ23C22DITR-ND	135.00/M
27	5.0	80	DZ23C27DICT-ND	.45	3.60	27.00	DZ23C27DITR-ND	135.00/M
30	5.0	80	DZ23C30DICT-ND	.45	3.60	27.00	DZ23C30DITR-ND	135.00/M
33	5.0	80	DZ23C33-FDICT-ND◊	.45	3.60	27.00	DZ23C33-FDITR-ND◊	135.00/M
36	5.0	90	DZ23C36DICT-ND	.45	3.60	27.00	DZ23C36DITR-ND	135.00/M
43	5.0	100	DZ23C43DICT-ND	.45	3.60	27.00	DZ23C43DITR-ND	135.00/M

◊ ***NEW!*** Lead Free/RoHS Compliant

SOT-23 Surface Mount Zener Diodes — 350mW



Zener Voltage VZ @ IZT Nominal	Test Current IZT (mA)	Maximum Dynamic Impedance ZZT IZT	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 3,000
BZX Series								
2.4	5.0	100	BZX84C2V4DICT-ND	.44	3.00	20.80	BZX84C2V4DITR-ND	80.00/M
2.7	5.0	100	BZX84C2V7DICT-ND	.44	3.00	20.80	BZX84C2V7DITR-ND	80.00/M
2.7	5.0	100	BZX84C2V7-FDICT-ND◊	.44	3.00	20.80	BZX84C2V7-FDITR-ND◊	80.00/M
3.0	5.0	95	BZX84C3V0DICT-ND	.44	3.00	20.80	BZX84C3V0DITR-ND	80.00/M
3.0	5.0	95	BZX84C3V0-FDICT-ND◊	.44	3.00	20.80	BZX84C3V0-FDITR-ND◊	80.00/M
3.3	5.0	95	BZX84C3V3DICT-ND•	.44	3.00	20.80	—	—
3.6	5.0	90	BZX84C3V6DICT-ND	.44	3.00	20.80	BZX84C3V6DITR-ND	80.00/M
3.9	5.0	90	BZX84C3V9DICT-ND•	.44	3.00	20.80	BZX84C3V9DITR-ND	80.00/M
4.3	5.0	90	BZX84C4V3DICT-ND	.44	3.00	20.80	BZX84C4V3DITR-ND	80.00/M
4.7	5.0	80	BZX84C4V7DICT-ND	.44	3.00	20.80	BZX84C4V7DITR-ND	80.00/M
5.1	5.0	60	BZX84C5V1DICT-ND•	.44	3.00	20.80	BZX84C5V1DITR-ND	80.00/M
5.6	5.0	40	BZX84C5V6DICT-ND•	.44	3.00	20.80	BZX84C5V6DITR-ND	80.00/M
6.2	5.0	10	BZX84C6V2DICT-ND•	.44	3.00	20.80	BZX84C6V2DITR-ND	80.00/M
6.2	5.0	10	BZX84C6V2-FDICT-ND◊	.44	3.00	20.80	BZX84C6V2-FDITR-ND◊	80.00/M
6.8	5.0	15	BZX84C6V8DICT-ND•	.44	3.00	20.80	BZX84C6V8DITR-ND	80.00/M
7.5	5.0	15	BZX84C7V5DICT-ND	.44	3.00	20.80	BZX84C7V5DITR-ND	80.00/M
7.5	5.0	15	BZX84C7V5-FDICT-ND◊	.44	3.00	20.80	BZX84C7V5-FDITR-ND◊	80.00/M
8.2	5.0	15	BZX84C8V2DICT-ND	.44	3.00	20.80	BZX84C8V2DITR-ND	80.00/M
8.2	5.0	15	BZX84C8V2-FDICT-ND◊	.44	3.00	20.80	BZX84C8V2-FDITR-ND◊	80.00/M
9.1	5.0	15	BZX84C9V1DICT-ND•	.44	3.00	20.80	BZX84C9V1DITR-ND	80.00/M
9.1	5.0	15	BZX84C9V1-FDICT-ND◊	.44	3.00	20.80	BZX84C9V1-FDITR-ND◊	80.00/M
10	5.0	20	BZX84C10DICT-ND•	.44	3.00	20.80	BZX84C10DITR-ND	80.00/M
11	5.0	20	BZX84C11DICT-ND	.44	3.00	20.80	BZX84C11DITR-ND	80.00/M
11	5.0	20	BZX84C11-FDICT-ND◊	.44	3.00	20.80	BZX84C11-FDITR-ND◊	80.00/M
12	5.0	25	BZX84C12DICT-ND•	.44	3.00	20.80	BZX84C12DITR-ND	80.00/M
12	5.0	25	BZX84C12-FDICT-ND◊	.44	3.00	20.80	BZX84C12-FDITR-ND◊	80.00/M
13	5.0	30	BZX84C13DICT-ND	.44	3.00	20.80	BZX84C13DITR-ND	80.00/M
15	5.0	30	BZX84C15DICT-ND•	.44	3.00	20.80	BZX84C15DITR-ND	80.00/M
16	5.0	40	BZX84C16DICT-ND	.44	3.00	20.80	BZX84C16DITR-ND	80.00/M
16	5.0	40	BZX84C16-FDICT-ND◊	.44	3.00	20.80	BZX84C16-FDITR-ND◊	80.00/M
18	5.0	45	BZX84C18DICT-ND•	.44	3.00	20.80	BZX84C18DITR-ND	80.00/M
20	5.0	55	BZX84C20DICT-ND•	.44	3.00	20.80	BZX84C20DITR-ND	80.00/M
22	5.0	55	BZX84C22DICT-ND	.44	3.00	20.80	—	—
22	5.0	55	BZX84C22-FDICT-ND◊	.44	3.00	20.80	BZX84C22-FDITR-ND◊	80.00/M
24	5.0	70	BZX84C24DICT-ND•	.44	3.00	20.80	BZX84C24DITR-ND	80.00/M
24	5.0	70	BZX84C24-FDICT-ND◊	.44	3.00	20.80	BZX84C24-FDITR-ND◊	80.00/M
27	2.0	80	BZX84C27DICT-ND	.44	3.00	20.80	BZX84C27DITR-ND	80.00/M
30	2.0	80	BZX84C30DICT-ND•	.44	3.00	20.80	BZX84C30DITR-ND	80.00/M
30	2.0	80	BZX84C30-FDICT-ND◊	.44	3.00	20.80	BZX84C30-FDITR-ND◊	80.00/M
33	2.0	80	BZX84C33DICT-ND•	.44	3.00	20.80	BZX84C33DITR-ND	80.00/M
36	2.0	90	BZX84C36DICT-ND•	.44	3.00	20.80	—	—
39	2.0	130	BZX84C39DICT-ND•	.44	3.00	20.80	BZX84C39DITR-ND	80.00/M
43	2.0	150	BZX84C43DICT-ND	.44	3.00	20.80	BZX84C43DITR-ND	80.00/M
47	2.0	170	BZX84C47DICT-ND•	.44	3.00	20.80	BZX84C47DITR-ND	80.00/M
51	2.0	180	BZX84C51DICT-ND	.44	3.00	20.80	BZX84C51DITR-ND	80.00/M

• BZX2-KIT-ND ***Digi-Key® SMD Zener Diodes Kit*** 10 each of values denoted (180 total pieces) $2

◊ ***NEW!*** Lead Free/RoHS Compliant

More Product Available Online: www.digikey.com
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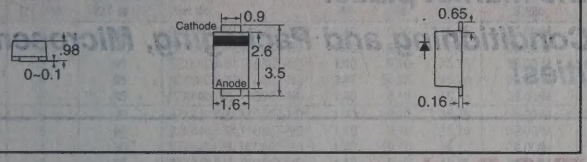
TOSHIBA Zener Diodes

mum Ratings (Ta=25°C):
r dissipation 700 mW

Flat Package (3-2A1A)



Zener Voltage Typical VZ (V)	Maximum Impedance rd (Ω)	Test Current IZ (mA)	Digi-Key Part No.	Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 3,000
S-Flat Package								
10.0	30	10	CRZ10CT-ND	.42	.34	.26	CRZ10TR-ND	109.20/M
11.0	30	10	CRZ11CT-ND	.60	.45	.34	CRZ11TR-ND	195.00/M
12.0	30	10	CRZ12CT-ND	.60	.45	.34	CRZ12TR-ND	195.00/M
13.0	30	10	CRZ13CT-ND	.60	.45	.34	CRZ13TR-ND	195.00/M
15.0	30	10	CRZ15CT-ND	.50	.40	.30	CRZ15TR-ND	135.00/M
16.0	30	10	CRZ16CT-ND	.50	.40	.30	CRZ16TR-ND	135.00/M
20.0	30	10	CRZ20CT-ND	.60	.45	.34	CRZ20TR-ND	195.00/M
22.0	30	10	CRZ22CT-ND	.50	.40	.30	CRZ22TR-ND	135.00/M
27.0	30	10	CRZ27CT-ND	.50	.40	.30	CRZ27TR-ND	135.00/M
30.0	30	10	CRZ30CT-ND	.60	.45	.34	CRZ30TR-ND	114.75/M
33.0	30	10	CRZ33CT-ND	.60	.45	.34	CRZ33TR-ND	195.00/M
36.0	30	9	CRZ36CT-ND	.60	.45	.34	CRZ36TR-ND	195.00/M
39.0	35	8	CRZ39CT-ND	.60	.45	.34	CRZ39TR-ND	195.00/M
43.0	40	7	CRZ43CT-ND	.60	.45	.34	CRZ43TR-ND	195.00/M
47.0	65	6	CRZ47CT-ND	.40	.30	.23	CRZ47TR-ND	130.00/M

B

Microsemi. Zener Diodes

Fig. 1
DO-35
500 mW

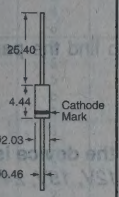


Fig. 2
DO-41
1 W/2 W

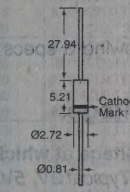
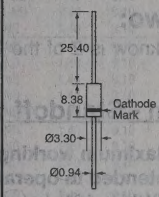


Fig. 3
T-18
5 W



500 mW Series DO-35 Silicon Zener Diodes, 1N5221 — 1N5281

Nominal Zener Voltage Vz @ Izt (Value)	(Volts)	Test Current Izt (mA)	Nominal Zener Voltage Vz @ Izt (Value)	(Volts)	Test Current Izt (mA)	Nominal Zener Voltage Vz @ Izt (Value)	(Volts)	Test Current Izt (mA)	Nominal Zener Voltage Vz @ Izt (Value)	(Volts)	Test Current Izt (mA)	Nominal Zener Voltage Vz @ Izt (Value)	(Volts)	Test Current Izt (mA)
21	2.4	20	34	6.2	20	45	15	8.5	58	36	3.4	70	91	1.4
23	2.7	20	35	6.8	20	46	16	7.8	60	43	3.0	71	100	1.3
24	2.8	20	36	7.5	20	47	17	7.4	61	47	2.7	72	110	1.1
25	3.0	20	37	8.2	20	48	18	7.0	62	51	2.5	73	120	1.0
26	3.3	20	38	8.7	20	49	19	6.6	63	56	2.2	74	130	0.95
27	3.6	20	39	9.1	20	50	20	6.2	64	60	2.1	75	140	0.90
28	3.9	20	40	10	20	51	22	5.6	65	62	2.0	76	150	0.85
29	4.3	20	41	11	20	52	24	5.2	66	68	1.8	77	160	0.80
30	4.7	20	42	12	20	53	25	5.0	67	75	1.7	78	170	0.74
31	5.1	20	43	13	9.5	54	27	4.6	68	82	1.5	79	180	0.68
33	6.0	20	44	14	9.0	55	28	4.5	69	87	1.4	81	200	0.65

V Series, DO-41 Glass Zener Diodes 1N4729A — 1N4763A

e)	Zener Voltage Vz (Volts)	Test Current Izt (mA)	(Value)	Zener Voltage Vz (Volts)	Test Current Izt (mA)
	3.6	69	42	12	21
	4.3	58	43	13	19
	4.7	53	44	15	17
	5.1	49	52	33	7.5
	5.6	45	56	47	5.5
	6.2	41	58	56	4.5
	6.8	37	59	62	4.0
	7.5	34	60	68	3.7
	8.2	31	62	82	3.0
	10	25	63	91	2.8
	11	23			

2 W Series, DO-41 Silicon Zener Diodes 2EZ3.6D5 — 2EZ200D5

(Value)	Nominal Zener Voltage Vz (Volts)	Izt	(Value)	Nominal Zener Voltage Vz (Volts)	Izt	(Value)	Nominal Zener Voltage Vz (Volts)	Izt
3.6	3.6	139	17	17	29.4	62	62	8.1
3.9	3.9	128	18	18	27.8	75	75	6.7
4.3	4.3	116	19	19	26.3	82	82	6.1
5.1	5.1	98	20	20	25	91	91	5.5
6.2	6.2	80.5	22	22	22.8	110	110	4.5
6.8	6.8	73.5	27	27	18.5	120	120	4.2
7.5	7.5	66.5	33	33	15.1	130	130	3.8
8.2	8.2	61	39	39	12.8	140	140	3.6
12	12	41.5	43	43	11.6	150	150	3.3
13	13	38.5	47	47	10.6	170	170	2.9
14	14	35.7	51	51	9.8	180	180	2.8
15	15	33.4	56	56	9.0	190	190	2.6
						200	200	2.5

5 W Series, T-18 Silicon Zener Diodes 1N5333B — 1N5388B

(Value)	Regulator Voltage Vz	Test Current Iz	(Value)	Regulator Voltage Vz	Test Current Iz	(Value)	Regulator Voltage Vz	Test Current Iz
33	3.3	380	50	13	100	73	68	20
34	3.6	350	51	14	100	75	82	15
35	3.9	320	52	15	75	76	87	15
36	4.3	290	53	16	75	79	110	12
38	5.1	240	55	18	65	80	120	10
39	5.6	220	58	22	50	81	130	10
40	6.0	200	65	36	30	82	140	8.0
42	6.8	175	68	47	25	83	150	8.0
43	7.5	175	70	56	20	85	170	8.0
45	8.7	150	71	60	20	86	180	5.0
47	10	125	72	62	20	87	190	5.0
49	12	100				88	200	5.0

DC Power Dissipation	Voltage Range (Code) See Chart	Digi-Key Part No.*	Cut Tape Pricing 1	10	100	Digi-Key Part No.*	Tape & Reel Pricing 3,000	4,000	6,000	8,000	10,000	12,000	24,000	30,000	Microsemi Part No.*
500 mW	2.4V — 200V	1N52(Value)BDO35MSCT-ND	1.20	8.40	60.00	1N52(Value)DO35MSTR-ND	—	—	—	—	210.00/M	—	—	180.00/M	1N52(Value)DO35
1 W	3.6V — 91V	1N47(Value)ADO41MSCT-ND	.25	1.65	13.20	1N47(Value)ADO41MSTR-ND	—	74.00/M	—	59.00/M	—	—	51.00/M	—	1N47(Value)ADO41
2 W	3.6V — 200V	2EZ(Value)D5DO41MSCT-ND	.75	5.00	40.00	2EZ(Value)D5DO41MSTR-ND	—	225.00/M	—	180.00/M	—	—	155.00/M	—	2EZ(Value)D5DO41
5 W	3.3V — 200V	1N53(Value)BMSCT-ND	1.20	8.00	64.00	1N53(Value)BMSTR-ND	400.00/M	—	320.00/M	—	—	280.00/M	248.00/M	—	1N53(Value)B

complete part number, substitute corresponding value from chart for (Value).

DIODES INCORPORATED High-Efficiency Rectifiers

• Operating and Storage Temperature: -65°C ~ 175°C • Reverse recovery test @ 1.0A, V_R = 30V

ximum erage ctified rrent (A)	Maximum Peak Reverse Voltage (V)	Maximum Surge Current 8.3ms (A)	Maximum Reverse Current @25°C (µA)	Maximum Forward Voltage Peak (V)	Maximum Reverse Recovery Time (nS)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 500	1,200	5,000	Package
	50	50	5.0	1.0	50	HER101DICT-ND	.41	3.00	21.12	HER101DITR-ND	—	—	82.00/M	DO-41
	100	50	5.0	1.0	50	HER102DICT-ND	.46	3.38	23.76	HER102DITR-ND	—	—	92.00/M	
1.0	200	50	5.0	1.0	50	HER103DICT-ND	.48	3.56	25.08	HER103DITR-ND	—	—	97.00/M	
	300	50	5.0	1.0	50	HER104DICT-ND	.48	3.70	26.64	HER104DITR-ND	—	—	118.00/M	
	400	50	5.0	1.0	50	HER105DICT-ND	.46	3.68	27.60	HER105DITR-ND	—	—	129.00/M	
	50	200	10.0	1.0	50	HER301DICT-ND	.63	5.00	37.50	HER301DITR-ND	—	200.00/M	—	DO-201AD
	100	200	10.0	1.0	50	HER302DICT-ND	.65	5.20	39.00	HER302DITR-ND	—	208.00/M	—	
3.0	200	200	10.0	1.0	50	HER303DICT-ND	.70	5.60	42.00	HER303DITR-ND	—	224.00/M	—	
	300	200	10.0	1.0	50	HER304DICT-ND	.64	5.12	38.40	HER304DITR-ND	—	232.00/M	—	
	400	200	10.0	1.0	50	HER305DICT-ND	.72	5.76	43.20	HER305DITR-ND	—	261.00/M	—	
	50	300	10.0	1.0	60	HER601DICT-ND	.96	7.68	57.60	HER601DITR-ND	198.00	—	—	R-6
	100	300	10.0	1.0	60	HER602DICT-ND	.86	6.76	52.00	HER602DITR-ND	188.50	—	—	
6.0	200	300	10.0	1.0	60	HER603DICT-ND	.92	7.28	56.00	HER603DITR-ND	203.00	—	—	
	300	300	10.0	1.0	60	HER604DICT-ND	1.16	9.10	70.00	HER604DITR-ND	254.00	—	—	

Microsemi

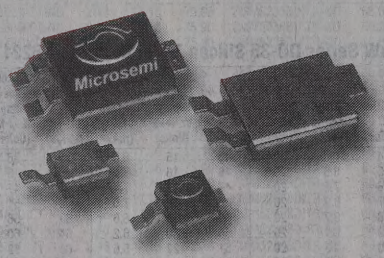
Microsemi Corporation is a world leader known for its ability to build quality, state of the art discrete products with a longevity in the market place.

Specializing in Transient Protection, Power Conditioning and Packaging, Microsemi is more than just solutions, we enable Possibilities!

B

Powermite Package

1/3 the Size of SMA!



Microsemi's Powermite Product Division is a world leader in providing high density discrete solutions.
This patented technology provides size retrained designed with more options.

Features:

Built in Heatsink

- The patented "full-metal-bottom" design provides the optimal heat path for dissipating junction heat handling up to 2 Amps!

Solder Wickability

- The patented interlocking construction incorporates a path for solder to "wick" up the side of the package and enhance the power dissipation

Space Saver

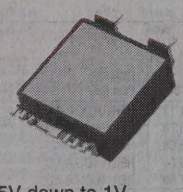
- These 2 leaded devices are 1/3 the size of comparable rated devices

Flexible Package for Custom Product (Max. die size 110mm x 110mm)

- Microsemi offers Schottkys, Ultrafast Rectifiers, MOSFETs, SCR's and Schottky+FET combinations

Synchronous Rectifier Module (SRM4010)

Is a complete solution for implementing a very high efficiency Synchronous Rectification and eliminates many of the problems with self driven approaches.



Features:

- Rectification Efficiency 95% at output voltages of 5V down to 1V
- Able to handle large sudden changes in duty cycle
- Robust package with copper plate for excellent heat dissipation
- Operates at PWM frequencies ranging from 200-400KHz

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TVS Devices

Microsemi has the largest offering of TVS devices: 12,000 device These devices are perfect to safeguard your components from volta spike originating from electrostatic discharge (ESD), induced lightni and inductive load switching.

Just Pick Two:

All you need to know is 2 of the following 3 specs to find the part y need!

Vwm - Standoff Voltage:

Maximum working voltage at which the device is intended to operate. *Typical 3V, 5V, 12V, 15V, 24V. VWM is 10% below VBR.*

Vbr - Breakdown Voltage:

Voltage at which device goes into hard conduction or *avalanche* breakdown.

Vc - Clamping Voltage:

Maximum voltage appearing across TVS at Peak Pulse Current (IPP). *VC is typically 20% higher than VBR.*

High Speed Data Line Protectors

Provide voltage Spike Protection for Data and Telecom, I/O Ports originating from ESD, EFT and Induces Lightning

USB6B1	**500W, 8/20 us**
SMP6LCxx	**600W, 10/100 us**

USB Protection: 3 in 1

USB Line Termination + EMI Filtering + ESD Protection =

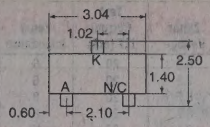
LX7201: Downstream SOT-23-6
LX7202: Upstream SOT-23-6
LX7203: Upstream SC70

The LX7201/2/3 family is an integrated USB line termination device w EMI filtering and ESD protection diodes. The 15kΩ pull-down resist on the LX7201 identify the lines for downstream operation. The 1.5 pull-up resistors on the LX7202 and LX7203 identify the appropri data line for full and low speed upstream operation. The 47pF capac completes the high frequency filter and controls the edge rate of USB signals. These devices protect both D+ and D- data lines and voltage bus from ESD. All devices meet IEC61000-4-2, level 4, 15 (air discharge) and 8kV (contract discharge). The LX7201, LX7202 a LX7203 are ideal for use in USB hubs, peripherals and portal appliances.

N Semiconductor™ ON

ener Regulators

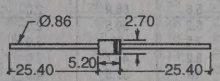
ner Voltage Regulators



ner ltage	Test Current IZT (mA)	Zener Impedance ZZT @ IZT	Digi-Key Part No.	Cut Tape Pricing 10	100	250	Tape & Reel** Pricing 3,000
.4V	5	100	BZX84C2V4LT1OSCT-ND	1.40	9.10	15.75	38.00/M
.7V	5	100	BZX84C2V7LT1OSCT-ND	1.40	9.10	15.75	38.00/M
3V	5	95	BZX84C3V0LT1OSCT-ND	1.40	9.10	15.75	38.00/M
.3V	5	95	BZX84C3V3ET1OSCT-ND	3.47	24.95	46.78	28.00/M
.3V	5	95	BZX84C3V3LT1OSCT-ND	1.40	9.10	15.75	38.00/M
.6V	5	90	BZX84C3V6LT1OSCT-ND	1.40	9.10	15.75	38.00/M
.9V	5	90	BZX84C3V9LT1OSCT-ND	1.40	9.10	15.75	38.00/M
.3V	5	90	BZX84C4V3LT1OSCT-ND	1.40	9.10	15.75	38.00/M
.7V	5	80	BZX84C4V7LT1OSCT-ND	1.40	9.10	15.75	38.00/M
.1V	5	60	BZX84B5V1LT1OSCT-ND	1.53	9.95	17.21	36.00/M
.1V	5	60	BZX84C5V1LT1OSCT-ND	1.40	9.10	15.75	38.00/M
.6V	5	40	BZX84B5V6LT1OSCT-ND	1.53	9.95	17.21	36.00/M
.6V	5	40	BZX84C5V6LT1OSCT-ND	1.40	9.10	15.75	38.00/M
.2V	5	10	BZX84C6V2LT1OSCT-ND	1.40	9.10	15.75	38.00/M
.8V	5	15	BZX84C6V8LT1OSCT-ND	1.40	9.10	15.75	38.00/M
.5V	5	15	BZX84C7V5LT1OSCT-ND	1.40	9.10	15.75	38.00/M
.2V	5	15	BZX84B8V2LT1OSCT-ND	1.53	9.95	17.21	36.00/M
.2V	5	15	BZX84C8V2LT1OSCT-ND	1.40	9.10	15.75	38.00/M
.1V	5	15	BZX84C9V1LT1OSCT-ND	1.40	9.10	15.75	38.00/M
0V	5	20	BZX84C10LT1OSCT-ND	1.40	9.10	15.75	38.00/M
1V	5	20	BZX84C11LT1OSCT-ND	1.40	9.10	15.75	38.00/M
2V	5	25	BZX84C12LT1OSCT-ND	1.40	9.10	15.75	38.00/M
3V	5	30	BZX84C13LT1OSCT-ND	1.40	9.10	15.75	38.00/M
5V	5	30	BZX84C15LT1OSCT-ND	1.40	9.10	15.75	38.00/M
6V	5	40	BZX84C16LT1OSCT-ND	1.40	9.10	15.75	38.00/M
8V	5	45	BZX84C18LT1OSCT-ND	1.40	9.10	15.75	38.00/M
0V	5	55	BZX84C20LT1OSCT-ND	1.40	9.10	15.75	38.00/M
4V	5	70	BZX84C24LT1OSCT-ND	1.40	9.10	15.75	38.00/M
7V	2	80	BZX84C27LT1OSCT-ND	1.40	9.10	15.75	38.00/M
0V	2	80	BZX84C30LT1OSCT-ND	1.40	9.10	15.75	38.00/M
6V	2	90	BZX84C36LT1OSCT-ND	1.40	9.10	15.75	38.00/M
3V	2	150	BZX84C43LT1OSCT-ND	1.40	9.10	15.75	38.00/M
7V	2	170	BZX84C47LT1OSCT-ND	1.40	9.10	15.75	38.00/M
5V	2	255	BZX84C75LT1OSCT-ND	1.40	9.10	15.75	38.00/M

or Tape & Reel Part No., change CT-ND to TR-ND.

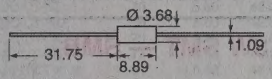
Watt DO-41
rmetic™ 30



ner ltage	Test Current IZT (mA)	Zener Impedance ZZT @ IZT	Digi-Key Part No.	Cut Tape Pricing 10	100	250	Tape & Reel** Pricing 6,000
15	25	9	1N5929BRLOSCT-ND	2.92	21.02	39.42	99.00/M
00	1.9	1200	1N5956BRLOSCT-ND	2.92	21.02	39.42	99.00/M

or Tape & Reel Part No., change CT-ND to TR-ND.

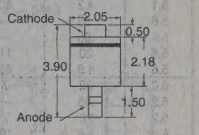
Watt Surmetic™ 40



ner ltage	Test Current IZT (mA)	Zener Impedance ZZT @ IZT	Digi-Key Part No.	1	Cut Tape Pricing 10	100	250	Tape & Reel** Pricing 4,000
3.3	380	3	1N5333BRLOSCT-ND	—	4.09	29.41	55.15	139.00/M
3.9	320	2	1N5335BRLOSCT-ND	—	4.09	29.41	55.15	139.00/M
4.3	290	2	1N5336BOS-ND†	.53	4.09	29.41	55.15	—
4.7	260	2	1N5337BOS-ND†	.53	4.09	29.41	55.15	—
5.1	240	1.5	1N5338BRLOSCT-ND	—	4.09	29.41	55.15	139.00/M
5.6	220	1	1N5339BRLOSCT-ND	—	4.09	29.41	55.15	139.00/M
6	200	1	1N5340BOS-ND†	.53	4.09	29.41	55.15	—
6.2	200	1	1N5341BRLOSCT-ND	—	4.09	29.41	55.15	139.00/M
6.8	175	1	1N5342BRLOSCT-ND	—	4.09	29.41	55.15	139.00/M
7.5	175	1.5	1N5343BRLOSCT-ND	—	4.09	29.41	55.15	139.00/M
8.2	150	1.5	1N5344BRLOSCT-ND	—	4.09	29.41	55.15	139.00/M
9.1	150	2	1N5346BRLOSCT-ND	—	4.09	29.41	55.15	139.00/M
10	125	2	1N5347BRLOSCT-ND	—	4.09	29.41	55.15	139.00/M
11	125	2.5	1N5348BOS-ND†	.53	4.09	29.41	55.15	—
12	100	2.5	1N5349BRLOSCT-ND	—	4.09	29.41	55.15	139.00/M
13	100	2.5	1N5350BRLOSCT-ND	—	4.09	29.41	55.15	139.00/M
14	100	2.5	1N5351BOS-ND†	.53	4.09	29.41	55.15	—
15	75	2.5	1N5352BRLOSCT-ND	—	4.09	29.41	55.15	139.00/M
16	75	2.5	1N5353BRLOSCT-ND	—	4.09	29.41	55.15	139.00/M
18	65	2.5	1N5355BRLOSCT-ND	—	4.09	29.41	55.15	139.00/M
20	65	3	1N5357BRLOSCT-ND	—	4.09	29.41	55.15	139.00/M
22	50	3.5	1N5358BRLOSCT-ND	—	4.09	29.41	55.15	139.00/M
24	50	3.5	1N5359BRLOSCT-ND	—	4.09	29.41	55.15	139.00/M
25	50	4	1N5360BOS-ND†	.53	4.09	29.41	55.15	—
27	50	5	1N5361BRLOSCT-ND	—	4.09	29.41	55.15	139.00/M
28	50	6	1N5362BRLOSCT-ND	—	4.09	29.41	55.15	139.00/M
30	40	8	1N5363BRLOSCT-ND	—	4.09	29.41	55.15	139.00/M
33	40	10	1N5364BRLOSCT-ND	—	4.09	29.41	55.15	139.00/M
36	30	11	1N5365BRLOSCT-ND	—	4.09	29.41	55.15	139.00/M
39	30	14	1N5366BOS-ND†	.53	4.09	29.41	55.15	—
43	30	20	1N5367BOS-ND†	.53	4.09	29.41	55.15	—
47	25	25	1N5368BRLOSCT-ND	—	4.09	29.41	55.15	139.00/M
51	25	27	1N5369BRLOSCT-ND	—	4.09	29.41	55.15	139.00/M
56	20	35	1N5370BOS-ND†	.53	4.09	29.41	55.15	—
60	20	40	1N5371BOS-ND†	.53	4.09	29.41	55.15	—
68	20	44	1N5373BOS-ND†	.53	4.09	29.41	55.15	—
75	20	45	1N5374BOS-ND†	.53	4.09	29.41	55.15	—
82	15	65	1N5375BOS-ND†	.53	4.09	29.41	55.15	—
100	12	90	1N5378BRLOSCT-ND	—	4.09	29.41	55.15	139.00/M
150	8	330	1N5383BRLOSCT-ND	—	4.09	29.41	55.15	139.00/M
180	5	430	1N5386BOS-ND†	.53	4.09	29.41	55.15	—
200	5	480	1N5388BRLOSCT-ND	—	4.09	29.41	55.15	139.00/M

† Bulk only. ** For Tape & Reel Part No., change CT-ND to TR-ND.

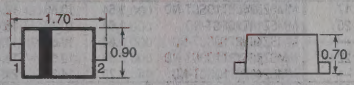
3.2 Watt SMT — Powermite Case 457



Zener Voltage	Test Current IZT (mA)	Zener Impedance	Digi-Key Part No.	Cut Tape Pricing 10	100	250	Tape & Reel** Pricing 3,000
24	15.6	19	1PMT5934BT1OSCT-ND	3.36	25.20	50.40	143.00/M
27	13.9	23	1PMT5935BT1OSCT-ND	3.36	25.20	50.40	143.00/M

** For Tape & Reel Part No., change CT-ND to TR-ND.

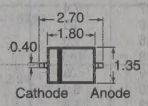
100mW SMT — SOD-523



Zener Voltage	Test Current IZT (mA)	Zener Impedance	Digi-Key Part No.	Cut Tape Pricing 10	100	250	Tape & Reel** Pricing 3,000
4.7	5	80	MM5Z4V7ST1OSCT-ND	2.93	19.05	32.96	69.00/M
5.1	5	60	MM5Z5V1ST1OSCT-ND	2.93	19.05	32.96	69.00/M
5.6	5	40	MM5Z5V6ST1OSCT-ND	2.93	19.05	32.96	69.00/M

** For Tape & Reel Part No., change CT-ND to TR-ND.

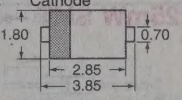
200mW SMT — SOD-323



Zener Voltage	Test Current IZT (mA)	Zener Impedance	Digi-Key Part No.	Cut Tape Pricing 10	100	250	Tape & Reel** Pricing 3,000
4.7	5	80	MM3Z4V7T1OSCT-ND	1.23	8.00	13.84	33.00/M
4.7	5	80	MM3Z4V7ST1OSCT-ND	2.06	11.61	19.35	35.00/M
5.1	5	60	MM3Z5V1T1OSCT-ND	1.23	8.00	13.84	33.00/M
5.1	5	60	MM3Z5V1ST1OSCT-ND	2.06	11.61	19.35	35.00/M
5.6	5	40	MM3Z5V6ST1OSCT-ND	2.06	11.61	19.35	35.00/M
6.2	5	10	MM3Z6V2T1OSCT-ND	1.23	8.00	13.84	33.00/M
10.0	5	20	MM3Z10VT1OSCT-ND	1.23	8.00	13.84	33.00/M
10.0	5	15	MM3Z10VST1GOSCT-ND	5.78	43.33	86.66	217.00/M
11.0	5	15	MM3Z11VST1GOSCT-ND	2.30	14.95	25.88	54.00/M
12.0	5	25	MM3Z12VST1OSCT-ND	3.30	22.88	41.25	26.00/M
15.0	5	30	MM3Z15VT1OSCT-ND	1.23	8.00	13.84	33.00/M
18.0	5	45	MM3Z18VST1OSCT-ND	3.30	22.88	41.25	26.00/M

** For Tape & Reel Part No., change CT-ND to TR-ND.

500mW SMT — SOD-123



Zener Voltage	Test Current IZT (mA)	Zener Impedance	Digi-Key Part No.	Cut Tape Pricing 10	100	250	Tape & Reel** Pricing 3,000
1.8	.05	—	MMSZ4678T1OSCT-ND	1.64	10.66	18.45	46.00/M
2.0	.05	—	MMSZ4679T1OSCT-ND	1.64	10.66	18.45	46.00/M
2.4	.05	—	MMSZ4681T1OSCT-ND	1.64	10.66	18.45	46.00/M
2.4	20	30	MMSZ5221BT1OSCT-ND	1.64	10.66	18.45	46.00/M
2.4	1.7	100	MMSZ2V4T1OSCT-ND	1.64	10.66	18.45	46.00/M
2.7	20	30	MMSZ5223BT1OSCT-ND	2.20	14.30	24.75	46.00/M
3.0	.05	—	MMSZ4683T1OSCT-ND	1.64	10.66	18.45	46.00/M
3.0	20	29	MMSZ5225BT1OSCT-ND	1.64	10.66	18.45	46.00/M
3.3	.05	—	MMSZ4684T1OSCT-ND	1.64	10.66	18.45	46.00/M
3.3	20	28	MMSZ5226BT1OSCT-ND	1.64	10.66	18.45	46.00/M
3.3	2.3	95	MMSZ3V3T1OSCT-ND	1.64	10.66	18.45	46.00/M
3.6	.05	—	MMSZ4685T1OSCT-ND	1.64	10.66	18.45	46.00/M
3.6	20	24	MMSZ5227BT1OSCT-ND	1.64	10.66	18.45	46.00/M

** For Tape & Reel Part No., change CT-ND to TR-ND.

(Continued)

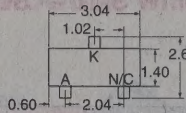
B

500mW SMT — SOD-123 (Cont.)

Zener Voltage	Test Current IZT (mA)	Zener Impedance	Digi-Key Part No.	Cut Tape Pricing 10	100	250	Tape & Reel** Pricing 3,000
3.9	05	—	MMSZ4686T1OSCT-ND	1.64	10.66	18.45	46.00/M
3.9	20	23	MMSZ5228BT1OSCT-ND	1.64	10.66	18.45	46.00/M
4.3	05	—	MMSZ4687T1OSCT-ND	1.64	10.66	18.45	46.00/M
4.3	20	22	MMSZ5229BT1OSCT-ND	1.64	10.66	18.45	46.00/M
4.3	3.3	90	MMSZ4V3T1OSCT-ND	1.64	10.66	18.45	46.00/M
4.7	05	—	MMSZ4688T1OSCT-ND	1.64	10.66	18.45	46.00/M
4.7	20	19	MMSZ5230BT1OSCT-ND	1.64	10.66	18.45	46.00/M
4.7	3.7	80	MMSZ4V7T1OSCT-ND	1.64	10.66	18.45	46.00/M
5.1	05	—	MMSZ4689T1OSCT-ND	1.64	10.66	18.45	46.00/M
5.1	20	17	MMSZ5231BT1OSCT-ND	1.64	10.66	18.45	46.00/M
5.1	4.2	60	MMSZ5V1T1OSCT-ND	1.64	10.66	18.45	46.00/M
5.6	05	—	MMSZ4690ET1OSCT-ND	2.31	15.02	25.99	54.00/M
5.6	05	—	MMSZ4690T1OSCT-ND	1.64	10.66	18.45	46.00/M
5.6	20	11	MMSZ5232BT1OSCT-ND	1.64	10.66	18.45	46.00/M
5.6	4.8	40	MMSZ5V6T1OSCT-ND	1.64	10.66	18.45	46.00/M
6.0	20	7	MMSZ5233BT1OSCT-ND	1.64	10.66	18.45	46.00/M
6.2	05	—	MMSZ4691T1OSCT-ND	1.64	10.66	18.45	46.00/M
6.2	20	7	MMSZ5234BT1OSCT-ND	1.64	10.66	18.45	46.00/M
6.2	5.6	10	MMSZ6V2T1OSCT-ND	1.64	10.66	18.45	46.00/M
6.8	05	—	MMSZ4692T1OSCT-ND	1.64	10.66	18.45	46.00/M
6.8	20	5	MMSZ5235BT1OSCT-ND	1.64	10.66	18.45	46.00/M
6.8	6.3	15	MMSZ6V8T1OSCT-ND	1.64	10.66	18.45	46.00/M
7.5	05	—	MMSZ4693T1OSCT-ND	1.64	10.66	18.45	46.00/M
7.5	20	6	MMSZ5236BT1OSCT-ND	1.64	10.66	18.45	46.00/M
8.2	05	—	MMSZ4694T1OSCT-ND	1.64	10.66	18.45	46.00/M
8.2	20	8	MMSZ5237BT1OSCT-ND	1.64	10.66	18.45	46.00/M
8.2	7.6	15	MMSZ8V2T1OSCT-ND	1.64	10.66	18.45	46.00/M
9.1	05	—	MMSZ4696T1OSCT-ND	1.64	10.66	18.45	46.00/M
9.1	20	10	MMSZ5239BT1OSCT-ND	1.64	10.66	18.45	46.00/M
10	05	—	MMSZ4697T1OSCT-ND	1.64	10.66	18.45	46.00/M
10	20	17	MMSZ5240BT1OSCT-ND	1.64	10.66	18.45	46.00/M
10	9.3	20	MMSZ10T1OSCT-ND	1.64	10.66	18.45	46.00/M
11	05	—	MMSZ4698T1OSCT-ND	1.64	10.66	18.45	46.00/M
11	20	22	MMSZ5241BT1OSCT-ND	1.64	10.66	18.45	46.00/M
12	05	—	MMSZ4699T1OSCT-ND	2.20	14.30	24.75	46.00/M
12	20	30	MMSZ5242BT1OSCT-ND	1.64	10.66	18.45	46.00/M
12	11.2	25	MMSZ12T1OSCT-ND	2.20	14.30	24.75	46.00/M
13	05	—	MMSZ4700T1OSCT-ND	1.64	10.66	18.45	46.00/M
13	9.5	13	MMSZ5243BT1OSCT-ND	1.64	10.66	18.45	46.00/M
14	05	—	MMSZ4701T1OSCT-ND	1.64	10.66	18.45	46.00/M
14	9.0	15	MMSZ5244BT1OSCT-ND	1.64	10.66	18.45	46.00/M
15	05	—	MMSZ4702T1OSCT-ND	1.64	10.66	18.45	46.00/M
15	8.5	16	MMSZ5245BT1OSCT-ND	1.64	10.66	18.45	46.00/M
15	13.7	30	MMSZ15T1OSCT-ND	1.64	10.66	18.45	46.00/M
16	05	—	MMSZ4703T1OSCT-ND	1.64	10.66	18.45	46.00/M
16	7.8	17	MMSZ5246BT1OSCT-ND	1.64	10.66	18.45	46.00/M
17	7.4	19	MMSZ5247BT1OSCT-ND	1.64	10.66	18.45	46.00/M
18	05	—	MMSZ4705T1OSCT-ND	1.64	10.66	18.45	46.00/M
18	7.0	21	MMSZ5248BT1OSCT-ND	1.64	10.66	18.45	46.00/M
18	16.7	45	MMSZ18T1OSCT-ND	2.20	14.30	24.75	46.00/M
19	05	—	MMSZ4706T1OSCT-ND	1.64	10.66	18.45	46.00/M
20	6.2	25	MMSZ5250BT1OSCT-ND	1.64	10.66	18.45	46.00/M
22	5.6	29	MMSZ5251BT1OSCT-ND	1.64	10.66	18.45	46.00/M
24	5.2	33	MMSZ5252BT1OSCT-ND	1.64	10.66	18.45	46.00/M
27	4.6	41	MMSZ5254BT1OSCT-ND	1.64	10.66	18.45	46.00/M
28	4.5	44	MMSZ5255BT1OSCT-ND	1.64	10.66	18.45	46.00/M
30	4.2	49	MMSZ5256BT1OSCT-ND	1.64	10.66	18.45	46.00/M
33	3.8	58	MMSZ5257BT1OSCT-ND	1.64	10.66	18.45	46.00/M
36	3.4	70	MMSZ5258BT1OSCT-ND	2.20	14.30	24.75	46.00/M
39	3.2	80	MMSZ5259BT1OSCT-ND	1.64	10.66	18.45	46.00/M
43	3.0	93	MMSZ5260BT1OSCT-ND	1.64	10.66	18.45	46.00/M
47	2.7	105	MMSZ5261BT1OSCT-ND	1.64	10.66	18.45	46.00/M
51	2.5	125	MMSZ5262BT1OSCT-ND	1.64	10.66	18.45	46.00/M
56	2.2	150	MMSZ5263BT1OSCT-ND	1.64	10.66	18.45	46.00/M
60	2.1	170	MMSZ5264BT1OSCT-ND	1.64	10.66	18.45	46.00/M
62	2.0	185	MMSZ5265BT1OSCT-ND	1.64	10.66	18.45	46.00/M
68	1.8	230	MMSZ5266BT1OSCT-ND	1.64	10.66	18.45	46.00/M
75	1.7	270	MMSZ5267BT1OSCT-ND	1.64	10.66	18.45	46.00/M
82	1.5	330	MMSZ5268BT1OSCT-ND	1.64	10.66	18.45	46.00/M
91	1.4	400	MMSZ5270BT1OSCT-ND	1.64	10.66	18.45	46.00/M

** For Tape & Reel Part No., change CT-ND to TR-ND.

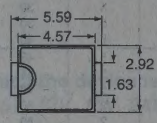
225mW SMT — SOT-23



Zener Voltage	Test Current IZT (mA)	Zener Impedance	Digi-Key Part No.	Cut Tape Pricing 10	100	250	Tape & Reel** Pricing 3,000
2.4	20	30	MMBZ5221BLT1OSCT-ND	1.33	8.65	14.96	36.00/M
2.5	20	30	MMBZ5222BLT1OSCT-ND	1.33	8.65	14.96	36.00/M
2.7	20	30	MMBZ5223BLT1OSCT-ND	1.33	8.65	14.96	36.00/M
3	20	29	MMBZ5225BLT1OSCT-ND	1.33	8.65	14.96	36.00/M
3.3	20	28	MMBZ5226BLT1OSCT-ND	1.33	8.65	14.96	36.00/M
3.6	20	24	MMBZ5227BLT1OSCT-ND	1.33	8.65	14.96	36.00/M
3.9	20	23	MMBZ5228BLT1OSCT-ND	1.33	8.65	14.96	36.00/M
4.3	20	22	MMBZ5229BLT1OSCT-ND	1.33	8.65	14.96	36.00/M
4.7	20	19	MMBZ5230BLT1OSCT-ND	1.33	8.65	14.96	36.00/M
5.1	20	17	MMBZ5231BLT1OSCT-ND	1.33	8.65	14.96	36.00/M
5.1	20	17	MMBZ5231ELT1OSCT-ND	1.64	10.66	18.45	39.00/M
5.6	20	11	MMBZ5232BLT1OSCT-ND	1.33	8.65	14.96	36.00/M
6	20	7	MMBZ5233BLT1OSCT-ND	1.33	8.65	14.96	36.00/M
6.2	20	7	MMBZ5234BLT1OSCT-ND	1.33	8.65	14.96	36.00/M
6.8	20	5	MMBZ5235BLT1OSCT-ND	1.33	8.65	14.96	36.00/M
7.5	20	6	MMBZ5236BLT1OSCT-ND	1.33	8.65	14.96	36.00/M
8.2	20	8	MMBZ5237BLT1OSCT-ND	1.33	8.65	14.96	36.00/M
8.7	20	8	MMBZ5238BLT1OSCT-ND	1.33	8.65	14.96	36.00/M
9.1	20	10	MMBZ5239BLT1OSCT-ND	1.33	8.65	14.96	36.00/M
10	20	17	MMBZ5240BLT1OSCT-ND	1.33	8.65	14.96	36.00/M
11	20	22	MMBZ5241BLT1OSCT-ND	1.33	8.65	14.96	36.00/M
12	20	30	MMBZ5242BLT1OSCT-ND	1.33	8.65	14.96	36.00/M
13	9.5	13	MMBZ5243BLT1OSCT-ND	1.33	8.65	14.96	36.00/M
14	9	15	MMBZ5244BLT1OSCT-ND	1.33	8.65	14.96	36.00/M
15	8.5	16	MMBZ5245BLT1OSCT-ND	1.33	8.65	14.96	36.00/M
16	7.8	17	MMBZ5246BLT1OSCT-ND	1.33	8.65	14.96	36.00/M
17	7.4	19	MMBZ5247BLT1OSCT-ND	1.33	8.65	14.96	36.00/M
18	7	21	MMBZ5248BLT1OSCT-ND	1.33	8.65	14.96	36.00/M
19	6.6	23	MMBZ5249BLT1OSCT-ND	1.33	8.65	14.96	36.00/M
20	6.2	25	MMBZ5250BLT1OSCT-ND	1.33	8.65	14.96	36.00/M
22	5.6	29	MMBZ5251BLT1OSCT-ND	1.33	8.65	14.96	36.00/M
24	5.2	33	MMBZ5252BLT1OSCT-ND	1.33	8.65	14.96	36.00/M
25	5	35	MMBZ5253BLT1OSCT-ND	1.33	8.65	14.96	36.00/M
27	4.6	41	MMBZ5254BLT1OSCT-ND	1.33	8.65	14.96	36.00/M
28	4.5	44	MMBZ5255BLT1OSCT-ND	1.33	8.65	14.96	36.00/M
30	4.2	49	MMBZ5256BLT1OSCT-ND	1.33	8.65	14.96	36.00/M
33	3.8	58	MMBZ5257BLT1OSCT-ND	1.33	8.65	14.96	36.00/M
36	3.4	70	MMBZ5258BLT1OSCT-ND	1.33	8.65	14.96	36.00/M
39	3.2	80	MMBZ5259BLT1OSCT-ND	1.33	8.65	14.96	36.00/M
47	2.7	105	MMBZ5261BLT1OSCT-ND	1.33	8.65	14.96	36.00/M
91	1.4	400	MMBZ5270BLT1OSCT-ND	1.33	8.65	14.96	36.00/M

** For Tape & Reel Part No., change CT-ND to TR-ND.

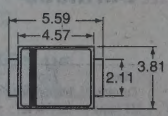
1.5W SMT — SMA



Zener Voltage	Test Current IZT (mA)	Zener Impedance (Ω)	Digi-Key Part No.	Cut Tape Pricing 10	100	250	Tape & Reel** Pricing 5,000
3.3	113.6	10	1SMA5913BT3OSCT-ND	3.50	25.20	47.25	112.00/M
3.6	104.2	9.0	1SMA5914BT3OSCT-ND	3.50	25.20	47.25	112.00/M
4.7	79.8	5.0	1SMA5917BT3OSCT-ND	3.50	25.20	47.25	112.00/M
5.1	73.5	4.0	1SMA5918BT3OSCT-ND	3.50	25.20	47.25	112.00/M
5.6	66.9	2.0	1SMA5919BT3OSCT-ND	3.50	25.20	47.25	112.00/M
6.2	60.5	2.0	1SMA5920BT3OSCT-ND	3.50	25.20	47.25	112.00/M
7.5	50	3.0	1SMA5922BT3OSCT-ND	3.50	25.20	47.25	112.00/M
8.2	45.7	3.5	1SMA5923BT3OSCT-ND	3.50	25.20	47.25	112.00/M
10	37.5	4.5	1SMA5925BT3OSCT-ND	3.50	25.20	47.25	112.00/M
12	31.2	6.5	1SMA5927BT3OSCT-ND	3.50	25.20	47.25	112.00/M
13	28.8	7.0	1SMA5928BT3OSCT-ND	3.50	25.20	47.25	112.00/M
15	25	9.0	1SMA5929BT3OSCT-ND	3.50	25.20	47.25	112.00/M
15	50	10	BZG03C15OSCT-ND	3.50	25.20	47.25	112.00/M
18	20.8	12	1SMA5931BT3OSCT-ND	3.50	25.20	47.25	112.00/M
24	15.6	19	1SMA5934BT3OSCT-ND	3.50	25.20	47.25	112.00/M
27	13.9	23	1SMA5935BT3OSCT-ND	3.50	25.20	47.25	112.00/M
150	5	300	BZG03C150OSCT-ND	3.50	25.20	47.25	112.00/M

** For Tape & Reel Part No., change CT-ND to TR-ND.

3W SMT — SMB



Zener Voltage	Test Current IZT (mA)	Zener Impedance (Ω)	Digi-Key Part No.	Cut Tape Pricing 10	100	250	Tape & Reel** Pricing 2,500
3.3	113.6	10	1SMB5913BT3OSCT-ND	3.27	24.51	49.02	139.00/M
3.6	104.2	9	1SMB5914BT3OSCT-ND	3.27	24.51	49.02	139.00/M
3.9	96.1	7.5	1SMB5915BT3OSCT-ND	3.27	24.51	49.02	139.00/M
4.3	87.2	6	1SMB5916BT3OSCT-ND	3.27	24.51	49.02	139.00/M
4.7	79.8	5	1SMB5917BT3OSCT-ND	3.27	24.51	49.02	139.00/M
5.1	73.5	4	1SMB5918BT3OSCT-ND	3.27	24.51	49.02	139.00/M
5.6	66.9	2	1SMB5919BT3OSCT-ND	3.27	24.51	49.02	139.00/M
6.2	60.5	2	1SMB5920BT3OSCT-ND	3.27	24.51	49.02	139.00/M
6.8	55.1	2.5	1SMB5921BT3OSCT-ND	3.27	24.51	49.02	139.00/M
7.5	50	3	1SMB5922BT3OSCT-ND	3.27	24.51	49.02	139.00/M
8.2	45.7	3.5	1SMB5923BT3OSCT-ND	3.27	24.51	49.02	139.00/M
9.1	41.2	4	1SMB5924BT3OSCT-ND	3.27	24.51	49.02	139.00/M
10	37.5	4.5	1SMB5925BT3OSCT-ND	3.27	24.51	49.02	139.00/M
12	31.2	6.5	1SMB5927BT3OSCT-ND	3.27	24.51	49.02	139.00/M
13	28.8	7	1SMB5928BT3OSCT-ND	3.27	24.51	49.02	139.00/M
15	25	9	1SMB5929BT3OSCT-ND	3.27	24.51	49.02	139.00/M
16	23.4	10	1SMB5930BT3OSCT-ND	3.27	24.51	49.02	139.00/M
18	20.8	12	1SMB5931BT3OSCT-ND	3.27	24.51	49.02	139.00/M
20	18.7	14	1SMB5932BT3OSCT-ND	3.27	24.51	49.02	139.00/M
24	15.6	19	1SMB5934BT3OSCT-ND	3.27	24.51	49.02	139.00/M
27	13.9	23	1SMB5935BT3OSCT-ND	3.27	24.51	49.02	139.00/M
30	12.5	28	1SMB5936BT3OSCT-ND	3.27	24.51	49.02	139.00/M
33	11.4	33	1SMB5937BT3OSCT-ND	3.27	24.51	49.02	139.00/M
36	10.4	38	1SMB5938BT3OSCT-ND	3.27	24.51	49.02	139.00/M
39	9.6	45	1SMB5939BT3OSCT-ND	3.27	24.51	49.02	139.00/M
47	8	67	1SMB5941BT3OSCT-ND	3.27	24.51	49.02	139.00/M
51	7.3	70	1SMB5942BT3OSCT-ND	3.27	24.51	49.02	139.00/M
200	1.9	1200	1SMB5956BT3OSCT-ND	3.27	24.51	49.02	139.00/M

** For Tape & Reel Part No., change CT-ND to TR-ND.

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Max. Avg. Rectified Current (A)	Max. Peak Reverse Voltage (Vrrm)	Max. Surge Current 8.3ms (A)	Max. Peak Forward Voltage (V)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	1,000	Digi-Key Part No.	Tape & Reel Size	Pricing
0.2	250	—	1.0	BAV21DICT-ND	.31	1.80	11.70	48.60	—	—	—
1.0	50	30	1.1	1N4001DICT-ND	.26	1.36	7.65	27.63	1N4001DITR-ND	5,000	20.00/M
	100	30	1.1	1N4002DICT-ND	.26	1.36	7.65	27.63	1N4002DITR-ND	5,000	20.00/M
	200	30	1.1	1N4003DICT-ND	.26	1.36	7.65	27.63	1N4003DITR-ND	5,000	20.00/M
	400	30	1.1	1N4004DICT-ND	.26	1.36	7.65	27.63	1N4004DITR-ND	5,000	20.00/M
	600	30	1.1	1N4005DICT-ND	.26	1.36	7.65	27.63	1N4005DITR-ND	5,000	20.00/M
	800	30	1.1	1N4006DICT-ND	.26	1.36	7.65	27.63	1N4006DITR-ND	5,000	20.00/M
	1000	30	1.1	1N4007DICT-ND	.26	1.36	7.65	27.63	1N4007DITR-ND	5,000	20.00/M
	50	30	1.0	1N4001GDICT-ND	.37	2.20	14.30	59.40	1N4001GDITR-ND	5,000	44.00/M
	100	30	1.0	1N4002GDICT-ND	.41	2.40	15.60	64.80	1N4002GDITR-ND	5,000	48.00/M
	200	30	1.0	1N4003GDICT-ND	.44	2.60	16.90	70.20	1N4003GDITR-ND	5,000	52.00/M
	400	30	1.0	1N4004GDICT-ND	.46	2.70	17.55	72.90	1N4004GDITR-ND	5,000	54.00/M
	600	30	1.0	1N4005GDICT-ND	.49	2.90	18.85	78.30	1N4005GDITR-ND	5,000	58.00/M
	800	30	1.0	1N4006GDICT-ND	.34	2.33	16.12	71.30	1N4006GDITR-ND	5,000	56.00/M
	1000	30	1.0	1N4007GDICT-ND	.36	2.48	17.16	75.90	1N4007GDITR-ND	5,000	59.00/M
1.0	100	30	1.1	S1BBDICT-ND	.44	3.25	22.88	104.00	S1BBDITR-ND	3,000	94.00/M
	200	30	1.1	S1DBDICT-ND	.46	3.38	23.76	108.00	—	—	—
	400	30	1.1	S1GBDICT-ND	.48	3.50	24.64	112.00	S1GBDITR-ND	3,000	101.00/M
	600	30	1.1	S1JBDICT-ND	.49	3.63	25.52	116.00	S1JBDITR-ND	3,000	104.00/M
	800	30	1.1	S1KBDICT-ND	.39	3.00	21.60	108.00	—	—	—
	1000	30	1.1	S1MBDICT-ND	.44	3.40	24.48	122.40	S1MBDITR-ND	3,000	116.00/M
1.0	50	30	1.1	DL4001DICT-ND	.43	2.93	20.28	89.70	DL4001DITR-ND	5,000	70.00/M
	100	30	1.1	DL4002DICT-ND	.43	2.93	20.28	89.70	DL4002DITR-ND	5,000	70.00/M
	200	30	1.1	DL4003DICT-ND	.43	2.93	20.28	89.70	DL4003DITR-ND	5,000	70.00/M
	400	30	1.1	DL4004DICT-ND	.43	2.93	20.28	89.70	DL4004DITR-ND	5,000	70.00/M
	600	30	1.1	DL4005DICT-ND	.46	3.15	21.84	96.60	DL4005DITR-ND	5,000	76.00/M
	800	30	1.1	DL4006DICT-ND	.46	3.15	21.84	96.60	DL4006DITR-ND	5,000	76.00/M
	1000	30	1.1	DL4007DICT-ND	.46	3.15	21.84	96.60	DL4007DITR-ND	5,000	76.00/M
1.0	50	30	1.0	S1ADICT-ND	.47	3.23	22.36	98.90	S1ADITR-ND	5,000	77.00/M
	100	30	1.1	S1B-FDICT-ND◊	.48	3.30	22.88	101.20	S1B-FDITR-ND◊	5,000	79.00/M
	200	30	1.0	S1DDICT-ND	.38	2.81	19.80	90.00	S1DDITR-ND	5,000	77.00/M
	400	30	1.0	S1GDICT-ND	.39	2.88	20.24	92.00	S1GDITR-ND	5,000	78.00/M
	600	30	1.1	S1JDICT-ND	.41	3.00	21.12	96.00	S1JDITR-ND	5,000	82.00/M
	600	30	1.1	S1J-FDICT-ND◊	.41	3.00	21.12	96.00	S1J-FDITR-ND◊	5,000	82.00/M
	800	30	1.0	S1KDICT-ND	.47	3.44	24.20	110.00	S1KDITR-ND	5,000	94.00/M
	1000	30	1.0	S1MDICT-ND	.41	3.15	22.68	113.40	S1MDITR-ND	5,000	101.00/M
1.5	50	50	1.15	S2AADICT-ND	.39	3.00	21.60	108.00	S2AADITR-ND	5,000	96.00/M
	100	50	1.15	S2BADICT-ND	.39	3.00	21.60	108.00	S2BADITR-ND	5,000	96.00/M
	200	50	1.15	S2DADICT-ND	.39	3.00	21.60	108.00	S2DADITR-ND	5,000	96.00/M
	400	50	1.15	S2GADICT-ND	.39	3.00	21.60	108.00	S2GADITR-ND	5,000	96.00/M
	600	50	1.15	S2JADICT-ND	.46	3.50	25.20	126.00	S2JADITR-ND	5,000	112.00/M
	1000	50	1.15	S2MADICT-ND	.46	3.50	25.20	126.00	S2MADITR-ND	5,000	112.00/M
1.5	50	30	1.5	S2ADICT-ND	.43	3.13	22.00	100.00	S2ADITR-ND	3,000	90.00/M
	100	30	1.5	S2BDICT-ND	.43	3.13	22.00	100.00	—	—	—
	200	30	1.5	S2DDICT-ND	.43	3.13	22.00	100.00	S2DDITR-ND	3,000	90.00/M
	400	30	1.5	S2GDICT-ND	.43	3.13	22.00	100.00	S2GDITR-ND	3,000	90.00/M
	600	30	1.5	S2JDICT-ND	.39	3.00	21.60	108.00	S2JDITR-ND	3,000	102.00/M
	1000	30	1.5	S2MDICT-ND	.39	3.00	21.60	108.00	S2MDITR-ND	3,000	102.00/M
3.0	50	100	1.15	S3ABDICT-ND	.65	5.20	39.00	208.00	S3ABDITR-ND	3,000	195.00/M
	100	100	1.15	S3BBDICT-ND	.65	5.20	39.00	208.00	S3BBDITR-ND	3,000	195.00/M
	200	100	1.15	S3DBDICT-ND	.65	5.20	39.00	208.00	S3DBDITR-ND	3,000	195.00/M
	600	100	1.15	S3JBDICT-ND	.68	5.44	40.80	246.50	S3JBDITR-ND	3,000	226.00/M
	800	100	1.15	S3KBDICT-ND	.68	5.44	40.80	246.50	S3KBDITR-ND	3,000	226.00/M
	1000	100	1.15	S3MBDICT-ND	.68	5.44	40.80	246.50	S3MBDITR-ND	3,000	226.00/M
3.0	50	100	1.15	S3ADICT-ND	.70	5.60	42.00	224.00	S3ADITR-ND	3,000	210.00/M
	50	100	1.15	S3A-FDICT-ND◊	.70	5.60	42.00	224.00	S3A-FDITR-ND◊	3,000	210.00/M
	100	100	1.15	S3BDICT-ND	.70	5.60	42.00	224.00	—	—	—
	200	100	1.15	S3DDICT-ND	.70	5.60	42.00	224.00	S3DDITR-ND	3,000	210.00/M
	400	100	1.15	S3GDICT-ND	.70	5.60	42.00	224.00	S3GDITR-ND	3,000	210.00/M
	600	100	1.15	S3JDICT-ND	.72	5.76	43.20	261.00	S3JDITR-ND	3,000	239.00/M
	600	100	1.15	S3J-FDICT-ND◊	.81	6.48	48.60	279.00	S3J-FDITR-ND◊	3,000	257.00/M
	800	100	1.15	S3KDICT-ND	.72	5.76	43.20	261.00	S3KDITR-ND	3,000	239.00/M
	1000	100	1.15	S3MDICT-ND	.72	5.76	43.20	261.00	S3MDITR-ND	3,000	239.00/M
	1000	100	1.15	S3M-FDICT-ND◊	.81	6.48	48.60	279.00	S3M-FDITR-ND◊	3,000	257.00/M
5.0	50	100	1.15	S5ACDICT-ND	.64	5.12	38.40	—	S5ACDITR-ND	3,000	213.00/M
	100	100	1.15	S5BCDICT-ND	.68	5.44	40.80	—	S5BCDITR-ND	3,000	226.00/M
	200	100	1.15	S5DCDICT-ND	.72	5.76	43.20	—	S5DCDITR-ND	3,000	239.00/M
	400	100	1.15	S5GCDICT-ND	.80	6.40	48.00	—	S5GCDITR-ND	3,000	266.00/M
	600	100	1.15	S5JCDICT-ND	.84	6.72	50.40	—	S5JCDITR-ND	3,000	279.00/M
	800	100	1.15	S5KCDICT-ND	.92	7.36	55.20	—	S5KCDITR-ND	3,000	306.00/M
	1000	100	1.15	S5MCDICT-ND	.83	6.50	50.00	—	S5MCDITR-ND	3,000	325.00/M
2.0	200	70	1.0	RL203DICT-ND	.49	2.90	18.85	78.30	RL203DITR-ND	4,000	68.00/M
	400	70	1.0	RL204DICT-ND	.34	2.33	16.12	71.30	RL204DITR-ND	4,000	62.00/M
	600	70	1.0	RL205DICT-ND	.35	2.40	16.64	73.60	RL205DITR-ND	4,000	64.00/M
	800	70	1.0	RL206DICT-ND	.39	2.63	18.20	80.50	RL206DITR-ND	4,000	70.00/M
	1000	70	1.0	RL207DICT-ND	.40	2.70	18.72	82.80	RL207DITR-ND	4,000	72.00/M
3.0	50	200	0.95	1N5400DICT-ND	.41	2.78	19.24	—	1N5400DITR-ND	1,200	85.00/M
	100	200	0.95	1N5401DICT-ND	.41	2.78	19.24	—	1N5401DITR-ND	1,200	85.00/M
	200	200	0.95	1N5402DICT-ND	.41	2.78	19.24	—	1N5402DITR-ND	1,200	85.00/M
	400	200	0.95	1N5404DICT-ND	.41	2.78	19.24	—	1N5404DITR-ND	1,200	85.00/M
	600	200	0.95	1N5406DICT-ND	.41	2.78	19.24	—	1N5406DITR-ND	1,200	85.00/M
	800	200	0.95	1N5407DICT-ND	.41	2.78	19.24	—	1N5407DITR-ND	1,200	85.00/M
	1000	200	0.95	1N5408DICT-ND	.41	2.78	19.24	—	1N5408DITR-ND	1,200	85.00/M
	50	125	1.0	1N5400GDICT-ND	.47	3.60	25.92	—	1N5400GDITR-ND	1,200	130.00/M
	100	125	1.0	1N5401GDICT-ND	.48	3.70	26.64	—	1N5401GDITR-ND	1,200	133.00/M
	200	125	1.0	1N5402GDICT-ND	.50	3.85	27.72	—	1N5402GDITR-ND	1,200	139.00/M
	400	125	1.0	1N5404GDICT-ND	.53	4.10	29.52	—	1N5404GDITR-ND	1,200	148.00/M
	600	125	1.0	1N5406GDICT-ND	.58	4.45	32.04	—	1N5406GDITR-ND	1,200	160.00/M
	800	125	1.0	1N5407GDICT-ND	.46	3.64	27.30	—	1N5407GDITR-ND	1,200	146.00/M
	1000	125	1.0	1N5408GDICT-ND	.51	4.04	30.30	—	1N5408GDITR-ND	1,200	162.00/M
6.0	50	400	0.9	6A05DICT-ND	.48	3.80	28.50	—	6A05DITR-ND	500	85.50
	100	400	0.9	6A1DICT-ND	.48	3.80	28.50	—	6A1DITR-ND	500	85.50
	200	400	0.9	6A2DICT-ND	.48	3.80	28.50	—	6A2DITR-ND	500	85.50
	400	400	0.9	6A4DICT-ND	.48	3.80	28.50	—	6A4DITR-ND	500	85.50
	600	400	0.9	6A6DICT-ND	.48	3.80	28.50	—	6A6DITR-ND	500	85.50
	800	400	0.9	6A8DICT-ND	.48	3.80	28.50	—	6A8DITR-ND	500	85.50
	1000	400	0.9	6A10DICT-ND	.48	3.80	28.50	—	6A10DITR-ND	500	85.50

EW! Lead Free/RoHS Compliant

Fig. 1 — DO-35

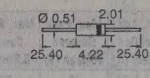


Fig. 2 — DO-41

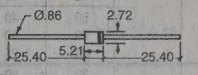
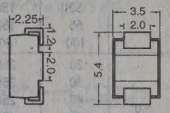


Fig. 3 — SMB



Bottom View

Fig. 4 — MELF (DL-41)

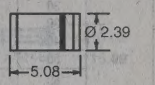


Fig. 5 — SMA

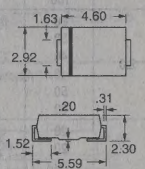


Fig. 6 — SMB

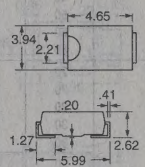


Fig. 7 — SMC

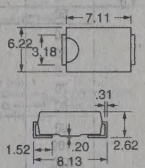


Fig. 8 — DO-15

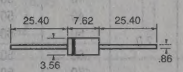


Fig. 9 — DO-201AD

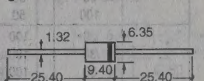
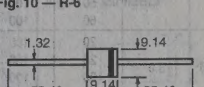


Fig. 10 — R-6



B

Fig.	Max. Avg. Rectified Current (A)	Max. Peak Reverse Voltage (V)	Max. Surge Current 8.3ms (A)	Max. Rev. Current @ 25°C (mA)	Max. Peak Forward Voltage (V)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Size	Pricing
1	1.0	20	25	1.0	0.45	1N5817DICT-ND	.39	.30	.22	1N5817DITR-ND	5,000	96.00/M
		20	40	1.0	0.55	SR102DICT-ND	.49	.38	.27	SR102DITR-ND	5,000	120.00/M
		30	25	1.0	0.55	1N5818DICT-ND	.39	.30	.22	1N5818DITR-ND	5,000	96.00/M
		30	40	1.0	0.55	SR103DICT-ND	.49	.38	.27	SR103DITR-ND	5,000	120.00/M
		40	40	1.0	0.55	SR104DICT-ND	.49	.38	.27	SR104DITR-ND	5,000	120.00/M
		50	40	1.0	0.70	SR105DICT-ND	.52	.40	.29	SR105DITR-ND	5,000	128.00/M
		60	40	1.0	0.70	SR106DICT-ND	.53	.42	.32	SR106DITR-ND	5,000	147.00/M
		100	25	0.5	0.80	SB1100DICT-ND	.55	.44	.33	SB1100DITR-ND	5,000	154.00/M
2	3.0	20	80	2.0	0.475	1N5820DICT-ND	.68	.54	.41	1N5820DITR-ND	1,200	216.00/M
		20	150	3.0	0.55	SR302DICT-ND	.60	.48	.36	SR302DITR-ND	1,200	218.00/M
		30	80	2.0	0.500	1N5821DICT-ND	.68	.54	.41	1N5821DITR-ND	1,200	216.00/M
		40	80	2.0	0.525	1N5822DICT-ND	.68	.54	.41	1N5822DITR-ND	1,200	216.00/M
		40	150	3.0	0.55	SR304DICT-ND	.60	.48	.36	SR304DITR-ND	1,200	218.00/M
		50	150	3.0	0.75	SR305DICT-ND	.64	.52	.39	SR305DITR-ND	1,200	232.00/M
		60	150	3.0	0.75	SR306DICT-ND	.68	.55	.41	SR306DITR-ND	1,200	247.00/M
		100	80	0.5	0.80	SB3100DICT-ND	.80	.64	.48	SB3100DITR-ND	1,200	290.00/M
	5.0	20	250	10.0	0.57	SR502DICT-ND	.88	.71	.53	SR502DITR-ND	1,200	319.00/M
		30	250	10.0	0.57	SR503DICT-ND	.92	.74	.56	SR503DITR-ND	1,200	334.00/M
		40	250	10.0	0.57	SR504DICT-ND	.96	.77	.58	SR504DITR-ND	1,200	348.00/M
		50	150	1.0	0.67	SR505DICT-ND	.65	.52	.39	SR505DITR-ND	1,200	208.00/M
		60	150	1.0	0.67	SR506DICT-ND	.65	.52	.39	SR506DITR-ND	1,200	208.00/M
		100	150	0.5	0.80	SB5100DICT-ND	1.12	.89	.68	SB5100DITR-ND	1,200	452.00/M
3	1.0	40	25	1.0	0.60	1N5819MDICT-ND	.68	.54	.41	1N5819MDITR-ND	5,000	189.00/M
4	1.0	20	30	0.5	0.50	B120DICT-ND	.55	.44	.33	B120DITR-ND	5,000	154.00/M
		30	30	0.5	0.50	B130DICT-ND	.58	.46	.35	B130DITR-ND	5,000	161.00/M
		30	25	1.0	0.41	B130LDICT-ND	.68	.54	.41	—	—	—
		40	30	0.5	0.50	B140DICT-ND	.60	.48	.36	B140DITR-ND	5,000	168.00/M
		50	30	0.5	0.70	B150DICT-ND	.62	.50	.38	—	—	—
		60	30	0.5	0.70	B160DICT-ND	.76	.61	.46	B160DITR-ND	5,000	242.00/M
		80	30	0.5	0.79	B180DICT-ND	.80	.64	.48	B180DITR-ND	5,000	255.00/M
		100	30	0.5	0.79	B1100DICT-ND	.84	.68	.51	B1100DITR-ND	5,000	268.00/M
		100	30	0.5	0.79	B1100-FDICT-ND◊ **NEW!**	.84	.68	.51	B1100-FDITR-ND◊ **NEW!**	5,000	268.00/M
	2.0	20	50	0.5	0.50	B220ADICT-ND	.76	.61	.46	B220ADITR-ND	5,000	242.00/M
		30	50	0.5	0.50	B230ADICT-ND	.82	.66	.50	B230ADITR-ND	5,000	261.00/M
		40	50	0.5	0.50	B240ADICT-ND	.86	.69	.52	B240ADITR-ND	5,000	274.00/M
		40	50	0.5	0.50	B240A-FDICT-ND◊ **NEW!**	.86	.69	.52	B240A-FDITR-ND◊ **NEW!**	5,000	274.00/M
		50	50	0.5	0.70	B250ADICT-ND	.90	.72	.54	B250ADITR-ND	5,000	287.00/M
		60	50	0.5	0.70	B260ADICT-ND	.96	.77	.58	—	—	—
	3.0	20	100	0.5	0.50	B320ADICT-ND	.96	.77	.58	B320ADITR-ND	5,000	306.00/M
		20	100	0.5	0.50	B320A-FDICT-ND◊ **NEW!**	.96	.77	.58	B320A-FDITR-ND◊ **NEW!**	5,000	306.00/M
		30	100	0.5	0.50	B330ADICT-ND	.83	.65	.50	B330ADITR-ND	5,000	319.00/M
		40	100	0.5	0.50	B340ADICT-ND	.86	.68	.52	B340ADITR-ND	5,000	332.00/M
		40	100	0.5	0.50	B340A-FDICT-ND◊ **NEW!**	.98	.85	.65	B340A-FDITR-ND◊ **NEW!**	5,000	332.00/M
		40	70	1.0	0.35	B340LADICT-ND	.86	.68	.52	B340LADITR-ND	5,000	332.00/M
		50	100	0.5	0.70	B350ADICT-ND	1.06	.84	.64	B350ADITR-ND	5,000	408.00/M
		60	100	0.5	0.70	B360ADICT-ND	1.16	.91	.70	B360ADITR-ND	5,000	446.00/M
		60	100	0.5	0.7	B360A-FDICT-ND◊ **NEW!**	1.31	1.14	.88	B360A-FDITR-ND◊ **NEW!**	5,000	446.00/M
5	1.0	20	30	0.5	0.50	B120BDICT-ND	.63	.50	.38	B120BDITR-ND	3,000	188.00/M
		20	30	0.5	1.1	SK12DICT-ND	.63	.50	.38	SK12DITR-ND	3,000	188.00/M
		30	30	0.5	0.50	B130BDICT-ND	.65	.52	.39	B130BDITR-ND	3,000	195.00/M
		30	40	1.0	.445	B130LBDICT-ND	.70	.56	.42	B130LBDITR-ND	3,000	210.00/M
		30	25	0.5	0.55	SK13DICT-ND	.68	.54	.41	—	—	—
		30	25	0.5	0.55	SK13-FDICT-ND◊ **NEW!**	.68	.54	.41	SK13-FDITR-ND◊ **NEW!**	3,000	203.00/M
		40	30	0.5	0.50	B140BDICT-ND	.68	.54	.41	B140BDITR-ND	3,000	203.00/M
		40	45	0.1	0.53	B140HBDICT-ND	.73	.58	.44	B140HBDITR-ND	3,000	218.00/M
		40	25	0.5	0.55	SK14DICT-ND	.60	.48	.36	SK14DITR-ND	3,000	200.00/M
		50	30	0.5	0.50	B150BDICT-ND	.70	.56	.42	B150BDITR-ND	3,000	233.00/M
		50	25	0.5	0.70	SK15DICT-ND	.70	.56	.42	SK15DITR-ND	3,000	233.00/M
		60	30	0.5	0.70	B160BDICT-ND	.84	.68	.51	—	—	—
		60	25	0.5	0.70	SK16DICT-ND	.88	.71	.53	SK16DITR-ND	3,000	293.00/M
		70	30	0.5	0.79	B170BDICT-ND	.86	.69	.52	B170BDITR-ND	3,000	286.00/M
		80	30	0.5	0.79	B180BDICT-ND	.88	.71	.53	B180BDITR-ND	3,000	293.00/M
		90	30	0.5	0.79	B190BDICT-ND	.90	.72	.54	B190BDITR-ND	3,000	299.00/M
		100	30	0.5	0.79	B1100BDICT-ND	.92	.74	.56	B1100BDITR-ND	3,000	306.00/M
		100	50	0.5	0.75	B1100LBDICT-ND	.83	.65	.50	B1100LBDITR-ND	3,000	325.00/M
	2.0	20	50	0.5	0.50	B220DICT-ND	.84	.68	.51	B220DITR-ND	3,000	279.00/M
		30	50	0.5	0.50	B230DICT-ND	.90	.72	.54	B230DITR-ND	3,000	299.00/M
		40	50	0.5	0.50	B240DICT-ND	.96	.77	.58	—	—	—
		40	50	0.5	0.50	B240-FDICT-ND◊ **NEW!**	.96	.77	.58	B240-FDITR-ND◊ **NEW!**	3,000	319.00/M
		50	50	0.5	0.70	B250DICT-ND	.83	.65	.50	B250DITR-ND	3,000	325.00/M
		60	50	0.5	0.70	B260DICT-ND	.89	.71	.54	B260DITR-ND	3,000	351.00/M
		70	50	0.5	0.79	B270DICT-ND	.92	.73	.56	B270DITR-ND	3,000	364.00/M
		80	50	0.5	0.79	B280DICT-ND	.96	.76	.58	B280DITR-ND	3,000	377.00/M
		90	50	0.5	0.79	B290DICT-ND	.99	.78	.60	B290DITR-ND	3,000	390.00/M
		100	50	0.5	0.79	B2100DICT-ND	1.02	.81	.62	B2100DITR-ND	3,000	403.00/M
	3.0	20	100	0.5	0.50	B320BDICT-ND	.89	.71	.54	B320BDITR-ND	3,000	351.00/M
		30	100	0.5	0.50	B330BDICT-ND	.92	.73	.56	B330BDITR-ND	3,000	364.00/M
		30	100	0.5	0.50	B330B-FDICT-ND◊ **NEW!**	1.05	.91	.70	B330B-FDITR-ND◊ **NEW!**	3,000	372.00/M
		40	100	0.5	0.50	B340BDICT-ND	.96	.76	.58	B340BDITR-ND	3,000	377.00/M
		40	70	2.0	0.45	B340LBDICT-ND	.96	.76	.58	B340LBDITR-ND	3,000	377.00/M
		50	100	0.5	0.70	B350B-FDICT-ND◊ **NEW!**	1.35	1.17	.90	B350B-FDITR-ND◊ **NEW!**	3,000	479.00/M
		60	100	0.5	0.50	B360BDICT-ND	1.29	1.02	.78	B360BDITR-ND	3,000	507.00/M
6	3.0	20	100	0.5	0.50	B320DICT-ND	.99	.78	.60	B320DITR-ND	3,000	390.00/M
		20	100	0.5	0.50	SK32DICT-ND	.86	.68	.52	SK32DITR-ND	500	188.50
		30	100	0.5	0.50	B330DICT-ND	1.02	.81	.62	—	—	—
		30	100	0.5	0.50	B330-FDICT-ND◊ **NEW!**	1.16	1.01	.78	B330-FDITR-ND◊ **NEW!**	3,000	412.00/M

† Dual rectifier package ◊ Lead Free/RoHS Compliant

Fig. 1 — DO-41

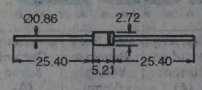


Fig. 2 — DO-201AD

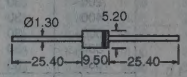


Fig. 3 — MELF (DL-41)

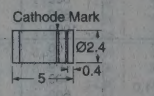


Fig. 4 — SMA

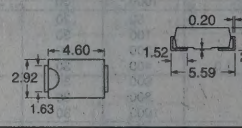


Fig. 5 — SMB

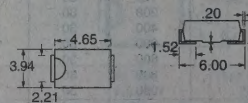


Fig. 6 — SMC

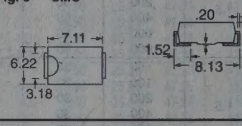


Fig. 7 — DPAK

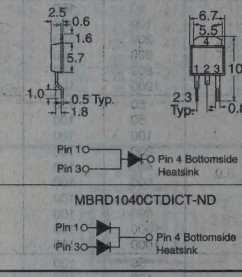


Fig. 8 — D2PAK

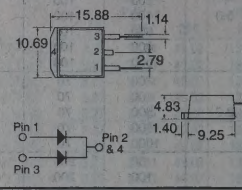
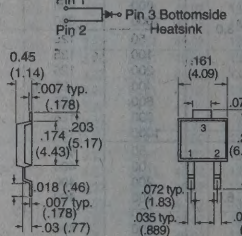


Fig. 9 — POWERMITE®3



(Conti

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Fig.	Max. Avg. Rectified Current (A)	Max. Peak Reverse Voltage (V)	Max. Surge Current 8.3ms (A)	Max. Rev. Current @ 25°C (mA)	Max. Peak Forward Voltage (V)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Size	Pricing
6	3.0	30	100	0.5	0.50	SK33DICT-ND	.86	.68	.52	SK33DITR-ND	500	188.50
		40	100	0.5	0.50	B340DICT-ND	1.09	.86	.66	B340DITR-ND	3,000	429.00/M
		40	100	0.5	0.50	SK34DICT-ND	.86	.68	.52	SK34DITR-ND	500	188.50
		50	100	0.5	0.70	B350DICT-ND	1.32	1.04	.80	B350DITR-ND	3,000	520.00/M
		50	100	0.5	0.70	B350-FDICT-ND◊ **NEW!**	1.50	1.30	1.00	B350-FDITR-ND◊ **NEW!**	3,000	532.00/M
		50	100	0.5	0.75	SK35DICT-ND	.86	.68	.52	SK35DITR-ND	500	188.50
		60	100	0.5	0.70	B360DICT-ND	1.45	1.15	.88	B360DITR-ND	3,000	572.00/M
		60	100	0.5	0.75	SK36DICT-ND	.86	.68	.52	SK36DITR-ND	500	188.50
		70	100	0.5	0.79	B370DICT-ND	1.49	1.17	.90	—	—	—
		80	100	0.5	0.79	B380DICT-ND	1.52	1.20	.92	B380DITR-ND	3,000	598.00/M
		90	100	0.5	0.79	B390DICT-ND	1.55	1.23	.94	B390DITR-ND	3,000	611.00/M
		100	100	0.5	0.79	B3100DICT-ND	1.58	1.25	.96	B3100DITR-ND	3,000	624.00/M
	5.0	20	175	0.5	0.55	B520CDICT-ND	1.16	.91	.70	B520CDITR-ND	3,000	455.00/M
		30	175	0.5	0.55	B530CDICT-ND	1.22	.97	.74	B530CDITR-ND	3,000	481.00/M
		40	175	0.5	0.55	B540CDICT-ND	1.29	1.02	.78	—	—	—
		50	175	0.5	0.70	B550CDICT-ND	1.42	1.12	.86	B550CDITR-ND	3,000	559.00/M
		60	175	0.5	0.70	B560CDICT-ND	1.55	1.23	.94	B560CDITR-ND	3,000	611.00/M
7	8.0	35	75	1.4	0.51	MBRD835LDICT-ND	1.49	1.17	.90	MBRD835LDITR-ND	2,500	585.00/M
	10.0	40	100	0.3	0.49	MBRD1040DICT-ND	1.52	1.20	.92	MBRD1040DITR-ND	2,500	598.00/M
		40	75	0.15	0.57	MBRD1040CTDICT-ND	1.38	1.08	.85	MBRD1040CTDITR-ND	2,500	653.00/M
8	15.0	30	150	0.1	0.7	MBRB1530CTDICT-ND	1.38	1.08	.85	—	—	—
		35	150	0.1	0.7	MBRB1535CTDICT-ND	1.40	1.10	.87	MBRB1535CTDITR-ND	800	561.60
		40	150	0.1	0.7	MBRB1540CTDICT-ND	1.43	1.12	.88	MBRB1540CTDITR-ND	800	572.80
		45	150	0.1	0.7	MBRB1545CTDICT-ND	1.62	1.35	1.14	MBRB1545CTDITR-ND	800	583.20
	16.0	30	175	1.0	0.55	SBG1630CTDICT-ND	1.51	1.18	.93	SBG1630CTDITR-ND	800	604.80
	20	40	225	1	0.55	SBG2040CT-FDICT-ND◊ **NEW!**	1.89	1.58	1.33	SBG2040CT-FDITR-ND◊ **NEW!**	800	756.00
	30.0	40	250	1.0	0.55	SBG3040CTDICT-ND	2.55	2.13	1.79	—	—	—
9	3.0	40	50	0.5	0.50	SBM340DICT-ND	1.35	1.17	.90	SBM340DITR-ND	5,000	459.00/M
		60	50	0.2	0.63	MBRM360DICT-ND	1.06	.84	.64	MBRM360DITR-ND	5,000	408.00/M
		100	50	0.1	0.76	MBRM3100DICT-ND	1.73	1.50	1.15	MBRM3100DITR-ND	5,000	587.00/M
	5.0	40	100	0.5	0.52	SBM540DICT-ND	1.65	1.43	1.10	SBM540DITR-ND	5,000	561.00/M
		60	100	0.2	0.69	MBRM560DICT-ND	1.50	1.30	1.00	MBRM560DITR-ND	5,000	510.00/M
		100	100	0.2	0.81	MBRM5100DICT-ND	1.32	1.04	.80	MBRM5100DITR-ND	5,000	510.00/M
	10.0	40	150	0.3	0.51	SBM1040DICT-ND	1.46	1.14	.90	SBM1040DITR-ND	5,000	691.00/M
10	0.5	20	5.5	—	0.300	B0520LWDICT-ND	.50	.40	.30	B0520LWDITR-ND	3,000	150.00/M
		20	5.5	—	0.300	B0520LW-FDICT-ND◊ **NEW!**	.50	.40	.30	B0520LW-FDITR-ND◊ **NEW!**	3,000	150.00/M
		30	5.5	—	0.375	B0530WDICT-ND	.50	.40	.30	B0530WDITR-ND	3,000	150.00/M
		40	5.5	—	0.510	B0540WDICT-ND	.50	.40	.30	B0540WDITR-ND	3,000	150.00/M
		40	5.5	—	0.510	B0540W-FDICT-ND◊ **NEW!**	.50	.40	.30	B0540W-FDITR-ND◊ **NEW!**	3,000	150.00/M
	1.0	30	12	1.0	0.42	B130LAWDICT-ND	.68	.54	.41	B130LAWDITR-ND	3,000	214.00/M
		30	12	1.0	0.42	B130LAW-FDICT-ND◊ **NEW!**	.68	.54	.41	B130LAW-FDITR-ND◊ **NEW!**	3,000	214.00/M
		40	25	1.0	0.320	1N5819HWDICT-ND	.72	.58	.44	1N5819HWDITR-ND	3,000	239.00/M
11	8.0	45	200	8.0	0.55	SBL845DI-ND	1.46	1.14	.90	—	—	—
	16.0	45	275	16.0	0.63	SBL1645DI-ND	1.67	1.31	1.03	—	—	—
12	10.0	45	250	10.0	0.60	SBL1045CTDI-ND	1.54	1.20	.95	—	—	—
	16.0	20	250	10.0	0.65	SR1602-ND†	3.08	2.31	1.93	—	—	—
		45	250	0.5	0.55	SBL1645CTDI-ND	1.78	1.39	1.10	—	—	—
	20.0	45	250	20.0	0.60	SBL2045CTDI-ND	1.89	1.47	1.17	—	—	—
	30.0	45	250	1.0	0.55	SBL3045CTDI-ND	2.67	2.08	1.65	—	—	—
13	1.0	20	22	1.0	0.20	DFLS120LDICT-ND	.72	.58	.44	DFLS120LDITR-ND	3,000	228.00/M
		30	22	1.0	0.42	DFLS130DICT-ND	.68	.54	.41	DFLS130DITR-ND	3,000	214.00/M
		30	33	1.5	0.36	DFLS130LDICT-ND	.72	.58	.44	DFLS130LDITR-ND	3,000	228.00/M
		40	50	2.5	0.36	DFLS140LDICT-ND	.72	.58	.44	DFLS140LDITR-ND	3,000	228.00/M
	1.1	40	40	6.0	0.51	DFLS140DICT-ND	.68	.54	.41	DFLS140DITR-ND	3,000	214.00/M
	2.0	20	22	—	0.36	DFLS220LDICT-ND	1.08	.87	.65	DFLS220LDITR-ND	3,000	342.00/M
		30	22	—	0.42	DFLS230DICT-ND	.99	.80	.60	DFLS230DITR-ND	3,000	314.00/M
		30	33	—	0.42	DFLS230LDICT-ND	1.08	.87	.65	DFLS230LDITR-ND	3,000	342.00/M
		40	50	—	0.50	DFLS240LDICT-ND	1.08	.87	.65	DFLS240LDITR-ND	3,000	342.00/M
14	3	40	90	0.5	0.49	PDS340DICT-ND **NEW!**	1.35	1.17	.90	PDS340DITR-ND **NEW!**	5,000	459.00/M
		100	90	.2	0.75	PDS3100DICT-ND	1.73	1.50	1.15	PDS3100DITR-ND	5,000	587.00/M
		200	180	0.01	0.78	PDS3200DICT-ND **NEW!**	1.80	1.50	1.26	PDS3200DITR-ND **NEW!**	5,000	765.00/M
	5	40	120	.30	0.52	PDS540DICT-ND **NEW!**	1.65	1.43	1.10	PDS540DITR-ND **NEW!**	5,000	561.00/M
		40	110	0.2	0.50	PDS1040CTLDICT-ND **NEW!**	1.80	1.50	1.26	PDS1040CTLDITR-ND **NEW!**	5,000	765.00/M
		100	120	0.2	0.78	PDS5100DICT-ND **NEW!**	1.53	1.28	1.08	PDS5100DITR-ND **NEW!**	5,000	650.00/M
		100	250	0.01	0.71	PDS5100HDICT-ND **NEW!**	1.80	1.50	1.26	PDS5100HDITR-ND **NEW!**	5,000	765.00/M
	8	35	120	1.4	0.51	PDS835LDICT-ND **NEW!**	1.73	1.50	1.15	PDS835LDITR-ND **NEW!**	5,000	587.00/M
	10	40	275	0.7	0.51	PDS1040DICT-ND **NEW!**	1.62	1.35	1.14	PDS1040DITR-ND **NEW!**	5,000	689.00/M
		40	275	0.6	0.46	PDS1040LDICT-ND **NEW!**	1.65	1.38	1.16	PDS1040LDITR-ND **NEW!**	5,000	701.00/M

† Dual rectifier package ◊ Lead Free/RoHS Compliant

Fig. 10 — SOD-123

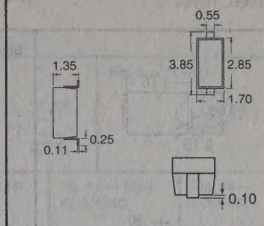


Fig. 11 — TO-220

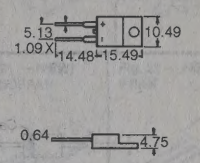


Fig. 12 — TO-220

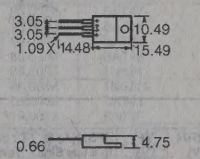


Fig. 13 — PowerDI™123

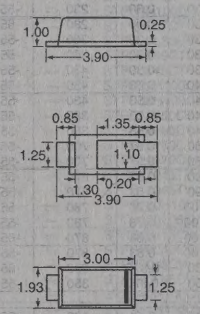
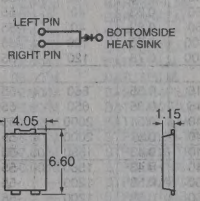


Fig. 14 — PowerDI™5



Fast Schottky Barrier Diodes

Fig.	Peak Rev. Voltage VRRM(V)	Leakage Current	Forward Voltage @ IF VF(V)	IF(mA)	Junction Capac-itance(pF)	Reverse Recovery Time(nS)	Power Dissipation Ptot(mW)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Size	Pricing
1	20	5µA	0.37	20	50	10	400	SD103CDICT-ND	.48	.38	.29	SD103CDITB-ND‡	10,000	126.00/M
	30	5µA	0.37	20	50	10	400	SD103BDICT-ND	.48	.38	.29	SD103BDITB-ND‡	10,000	126.00/M
	40	5µA	0.37	20	50	10	400	SD103ADICT-ND	.48	.38	.29	SD103ADITB-ND‡	10,000	126.00/M
	40	200nA	0.39	1	2.2	1	400	SD101CDICT-ND	.52	.40	.29	SD101CDITR-ND*	10,000	120.00/M
	50	200nA	0.40	1	2.1	1	400	SD101BDICT-ND	.52	.40	.29	SD101BDITB-ND‡	10,000	120.00/M
	60	200nA	0.41	1	2.0	1	400	SD101ADICT-ND	.52	.40	.29	SD101ADITB-ND‡	10,000	120.00/M
2	20	5µA	0.37	20	50	10	400	LLSD103CDICT-ND	.55	.44	.33	LLSD103CDITR-ND*	2,500	154.00/M
	30	5µA	0.37	20	50	10	400	LLSD103BDICT-ND	.55	.44	.33	LLSD103BDITR-ND*	2,500	154.00/M

‡ TB = Tape and Box * TR = Tape and Reel

Fig. 1 — DO-35

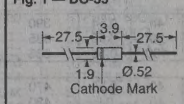
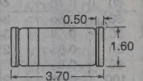
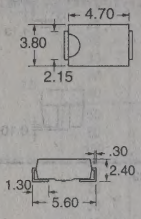


Fig. 2 — MiniMELF

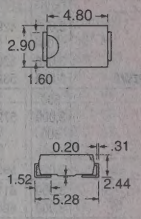


Schottky Rectifiers

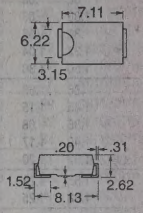
SMB



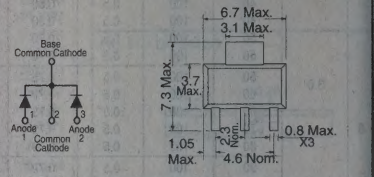
SMA



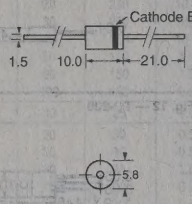
SMC



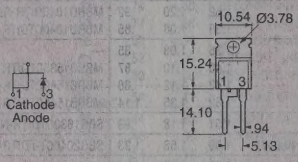
SOT-223



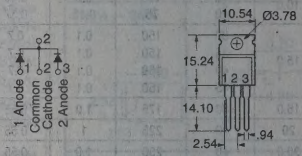
C-16



TO-220AC



TO-220AB



IF (A)	VRRM (V)	VF (V)	IFSM(A) @ tp = 5µs Sine	TJ Junction Temp (°C)	Digi-Key Part No.	Price Each 1	10	100
					SMB			
1	15	0.34	140	-55 ~ 150	10BQ015-ND	.25	.20	.15
1	15	0.34	140	-55 ~ 150	10BQ015TR-ND		420.00/3,000	
1	15	0.42	230	-55 ~ 125	MBRS130CT-ND	.45	.27	.17
1	30	0.42	230	-55 ~ 125	MBRS130TR-ND		372.00/3,000	
1	30	0.30	230	-55 ~ 125	MBRS130LCT-ND	.74	.43	.29
1	30	0.30	230	-55 ~ 125	MBRS130LTR-ND		590.18/3,000	
1	30	0.30	360	-55 ~ 150	STPS1L30UIRCT-ND	.40	.24	.16
1	30	0.30	360	-55 ~ 150	STPS1L30UIRTR-ND		327.00/3,000	
1	30	0.30	430	-55 ~ 150	10BQ030-ND	.45	.27	.17
1	40	0.53	430	-55 ~ 150	10BQ040-ND	.43	.26	.18
1	40	0.53	430	-55 ~ 150	10BQ040TR-ND		390.00/3,000	
1	40	0.53	380	-55 ~ 150	MBRS140CT-ND	.40	.24	.16
1	40	0.53	380	-55 ~ 150	MBRS140TR-ND		327.00/3,000	
1	60	0.57	700	-55 ~ 150	10BQ060-ND	.24	.19	.14
1	60	0.57	700	-55 ~ 150	10BQ060TR-ND		408.00/3,000	
1	90	0.63	870	-55 ~ 175	MBRS190CT-ND	.40	.24	.16
1	90	0.63	870	-55 ~ 175	MBRS190TR-ND		327.00/3,000	
1	100	0.78	780	-55 ~ 175	10BQ100-ND	.51	.31	.22
1	100	0.78	780	-55 ~ 175	10BQ100TR-ND		477.00/3,000	
1	100	0.63	870	-55 ~ 175	MBRS1100CT-ND	.40	.24	.16
1	100	0.63	870	-55 ~ 175	MBRS1100TR-ND		327.00/3,000	
2	30	0.370	350	-55 ~ 150	20BQ030CT-ND	.51	.30	.21
2	30	0.370	350	-55 ~ 150	20BQ030TR-ND		459.00/3,000	
					SMA			
1.5	40	0.54	120	-55 ~ 150	10MQ040N-ND	.45	.27	.19
1.5	40	0.54	120	-55 ~ 150	10MQ040NTR-ND		967.50/7,500	
3	40	0.42	330	-40 ~ 150	15MQ040N-ND	.93	.57	.41
3	40	0.42	330	-40 ~ 150	15MQ040NTR-ND		1590.00/7,500	
1	40	0.49	120	-55 ~ 150	MBRA140CT-ND	.31	.18	.12
1	40	0.49	120	-55 ~ 150	MBRA140TR-ND		562.50/7,500	
1.5	60	0.63	40	-55 ~ 150	10MQ060N-ND	.39	.23	.16
1.5	60	0.63	40	-55 ~ 150	10MQ060NTR-ND		817.50/7,500	
1.5	100	0.78	120	-55 ~ 150	10MQ100N-ND	.20	.16	.12
1.5	100	0.78	120	-55 ~ 150	10MQ100NTR-ND		817.50/7,500	
					SMC			
3	15	0.35	650	-55 ~ 100	30BQ015-ND	.75	.60	.43
3	15	0.35	650	-55 ~ 100	30BQ015TR-ND		1206.00/3,000	
3	40	0.51	2000	-55 ~ 150	30BQ040-ND	.50	.40	.29
3	40	0.51	2000	-55 ~ 150	30BQ040TR-ND		810.00/3,000	
3	40	0.43	1580	-55 ~ 150	MBRS340CT-ND	.65	.33	.26
3	40	0.43	1580	-55 ~ 150	MBRS340TR-ND		564.00/3,000	
3	60	0.58	1200	-55 ~ 150	30BQ060-ND	.50	.40	.29
3	60	0.58	1200	-55 ~ 150	30BQ060TR-ND		801.00/3,000	
3	60	0.61	790	-55 ~ 150	MBRS360CT-ND	1.53	.77	.61
3	60	0.61	790	-55 ~ 150	MBRS360TR-ND		1372.50/3,000	
3	100	0.79	2100	-55 ~ 175	30BQ100-ND	.75	.48	.36
3	100	0.79	2100	-55 ~ 175	30BQ100TR-ND		816.00/3,000	
					SOT-223			
2	45	0.54	390	-55 ~ 150	20CJQ045-ND	.53	.42	.30
2	60	0.56	385	-55 ~ 150	20CJQ060-ND	.95	.76	.57
2	100	0.56	385	-55 ~ 150	20CJQ100-ND	1.45	1.16	.87
					C-16			
3.3	40	0.55	470	-40 ~ 150	31DQ04-ND	1.03	.88	.61
3	40	0.6	430	-40 ~ 150	MBR340IR-ND	.51	.30	.21
3	50	0.73	460	-40 ~ 150	MBR350-ND	.68	.40	.28
3.3	50	0.58	340	-40 ~ 150	31DQ05-ND	.58	.46	.33
3	60	0.73	460	-40 ~ 150	MBR360-ND	.51	.30	.21
3.3	60	0.58	340	-40 ~ 150	31DQ06-ND	1.11	.95	.66
3.3	60	0.58	340	-40 ~ 150	31DQ06TR-ND		475.20/1,200	
3.3	90	0.85	210	-40 ~ 150	31DQ09-ND	.99	.84	.58
3.3	90	0.85	210	-40 ~ 150	31DQ09TR-ND		434.40/1,200	
3.3	100	0.85	210	-40 ~ 150	31DQ10-ND	.83	.51	.38
3.3	100	0.85	210	-40 ~ 150	31DQ10TR-ND		332.40/1,200	

IF (A)	VRRM (V)	VF (V)	IFSM(A) @ tp = 5µs Sine	TJ Junction Temp (°C)	Digi-Key Part No.	Price Each 1	10	100
					TO-220AC			
19	15	0.32	700	-55 ~ 100	19TQ015-ND	2.45	1.69	1.35
20	15	0.25	700	-55 ~ 125	20L15T-ND	1.31	1.05	.79
20	15	0.25	700	-55 ~ 125	STPS20L15D-ND	1.40	.80	.68
6	35	0.53	690	-55 ~ 175	6TQ035-ND	2.00	1.60	1.20
7.5	35	0.84	690	-65 ~ 150	MBR735IR-ND	.81	.65	.52
10	35	0.49	1050	-55 ~ 175	10TQ035-ND	1.73	1.39	1.04
10	35	0.84	1080	-65 ~ 150	MBR1035IR-ND	1.17	.94	.75
15	35	0.50	990	-55 ~ 150	12TQ035-ND	1.93	1.54	1.16
16	35	0.63	1060	-65 ~ 150	MBR1635IR-ND	1.83	1.47	1.18
18	35	0.6	1800	-55 ~ 175	18TQ035-ND	2.00	1.60	1.14
20	35	0.51	1800	-55 ~ 150	20TQ035-ND	2.10	1.68	1.26
6	40	0.53	690	-55 ~ 175	6TQ040-ND	2.08	1.66	1.25
10	40	0.49	1050	-55 ~ 175	10TQ040-ND	1.82	1.46	1.10
15	40	0.50	990	-55 ~ 150	12TQ040-ND	2.05	1.64	1.23
18	40	0.53	1800	-55 ~ 175	18TQ040-ND	1.91	1.53	1.15
20	40	0.51	1800	-55 ~ 150	20TQ040-ND	2.23	1.78	1.34
7.5	45	0.57	690	-65 ~ 150	MBR745IR-ND	1.09	.67	.49
10	45	0.57	1050	-65 ~ 150	MBR1045IR-ND	.94	.84	.75
15	45	0.50	990	-55 ~ 150	12TQ045-ND	2.15	1.72	1.29
16	45	0.57	1800	-65 ~ 150	MBR1645IR-ND	1.20	1.07	.96
6	45	0.53	690	-55 ~ 175	6TQ045-ND	2.23	1.78	1.19
10	45	0.57	1050	-55 ~ 175	10TQ045-ND	1.00	.80	.57
18	45	0.6	1800	-55 ~ 175	18TQ045-ND	2.39	1.61	1.26
20	45	0.57	1800	-65 ~ 150	20TQ045-ND	1.88	1.50	1.08
8	60	0.72	850	-55 ~ 175	8TQ060-ND	1.00	.80	.58
15	60	0.56	1000	-55 ~ 150	15TQ060-ND	2.38	1.90	1.43
8	80	0.72	850	-55 ~ 175	8TQ080-ND	2.71	2.17	1.55
8	100	0.58	850	-55 ~ 175	8TQ100-ND	2.22	1.44	1.33
					TO-220AB			
40	15	0.41	700	-55 ~ 125	40L15CT-ND	2.63	2.10	1.30
40	15	0.25	700	-55 ~ 125	STPS40L15CT-ND	2.30	1.61	1.22
40	20	0.34	1000	-55 ~ 150	47CTQ020-ND	2.39	1.91	1.44
30	25	0.40	900	-55 ~ 150	32CTQ025-ND	2.63	2.10	1.58
30	30	0.37	—	-55 ~ 150	STPS30L30CTIR-ND	1.81	1.03	.84
15	35	0.72	690	-65 ~ 150	MBR1535CT-ND	1.14	.92	.73
30	30	0.40	900	-55 ~ 150	32CTQ030-ND	3.21	2.20	1.74
40	30	0.48	1100	-55 ~ 150	42CTQ030-ND	3.20	2.56	2.05
20	35	0.57	1060	-65 ~ 150	MBR2035CT-ND	1.37	1.10	.83
12	35	0.53	690	-55 ~ 175	12CTQ035-ND	1.64	1.32	.99
15	35	0.51	810	-55 ~ 150	15CTQ035-ND	1.83	1.46	1.10
20	35	0.57	1060	-55 ~ 175	20CTQ035-ND	2.25	1.80	1.35
30	35	0.62	1060	-55 ~ 175	30CTQ035-ND	1.45	1.16	.83
15	40	0.51	810	-55 ~ 150	15CTQ040-ND	1.88	1.50	1.13
12	40	0.53	690	-55 ~ 175	12CTQ040-ND	1.69	1.35	1.02
20	40	0.57	1060	-55 ~ 175	20CTQ040-ND	2.63	2.11	1.58
30	40	0.56	1060	-55 ~ 175	30CTQ040-ND	2.35	1.88	1.41
30	40	0.50	990	-55 ~ 150	25CTQ040-ND	2.83	2.26	1.70
15	45	0.51	810	-55 ~ 150	15CTQ045-ND	1.76	1.41	1.06
40	45	0.6	900	-65 ~ 150	MBR4045CT-ND	1.46	1.17	.88
15	45	0.57	690	-65 ~ 150	MBR1545CTIR-ND	.89	.81	.73
20	45	0.57	1060	-65 ~ 150	MBR2045CTIR-ND	1.46	1.32	1.19
30	45	0.73	1060	-65 ~ 150	MBR2545CTIR-ND	1.46	1.32	1.19
30	45	0.76	1020	-65 ~ 150	MBR3045CT-ND	2.60	2.08	1.71
45	45	0.53	690	-55 ~ 175	12CTQ045-ND	1.95	1.56	1.04
20	45	0.64	1060	-55 ~ 175	20CTQ045-ND	1.63	1.30	.94
30	45	0.62	1060	-55 ~ 175	30CTQ045-ND	2.79	2.23	1.65
40	45	0.53	1240	-55 ~ 150	40CTQ045-ND	2.15	1.72	1.23
30	50	0.56	1000	-55 ~ 150	30CTQ050-ND	2.85	2.28	1.71
30	60	0.62	1060	-55 ~ 150	30CTQ060-ND	1.99	1.60	1.14
40	60	0.75	1000	-55 ~ 150	48CTQ060-ND	2.03	1.62	1.17
20	80	0.85	850	-65 ~ 150	MBR2080CT-ND	1.86	1.49	1.19
16	80	0.72	850	-55 ~ 175	16CTQ080-ND	3.53	2.82	2.01
20	90	0.85	850	-65 ~ 150	MBR2090CTIR-ND	1.86	1.49	1.19

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Fig. 1 — DO-35

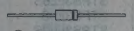

Fig. 2 — DO-41, DO-15, DO-201AD

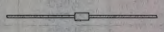

Fig. 3 — TO-220AC

Fig. 4 — TO-220AB

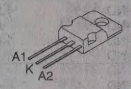

Fig. 5 — ISOTOP

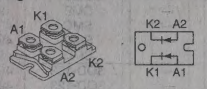

Fig. 6 — TO-247

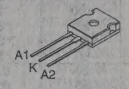

Fig. 7 — SOT-23, SOT-323

A. K1 — A3 Single Diode

B. A1 — K2 K3 Common Anode Duals

C. K1 — A2 A3 Common Cathode Duals

D. 1 (A_1, K_2) — (A_2) (K_1) 3 2 Dual Diodes (Series Connection)

Fig. 8 — DPAK

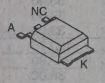

Fig. 9 — DPAK

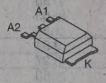

Fig. 10 — D^2PAK

Fig. 11 — MAX247

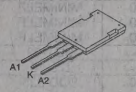

Fig. 12 — SMA, SMB, SMC

Fig. 13 — SOD-123

Fig. 14 — DO-216AA

Fig. 15 — MINIMELF

Fig. 16 — SOT-93

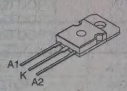

Fig. 17 — Dip-16

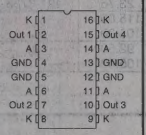

Fig. 18 — SOD-323

Fig. 19 — TOP-3I

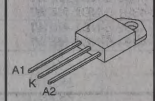

Fig. 20 — MELF

Fig. 21 — ***NEW!*** TO-220FPAB

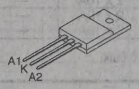

Fig. 22 — ***NEW!*** I^2PAK

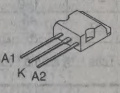

Fig.	V_{RRM} (V)	I_F	P_{TOT} (mW)	Package Type	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Size	Pricing	STMicroelectronics Part No.
1	20	350mA	330	DO-35	497-3773-1-ND	.41	3.00	17.28	497-3773-2-ND	4,000	86.00/M	BAT47
	30	200mA	200	DO-35	497-2492-1-ND	.41	3.00	17.28	497-2492-2-ND	4,000	86.00/M	BAT43
	30	200mA	200	DO-35	497-2495-1-ND	.41	3.00	21.12	497-2495-2-ND	4,000	86.00/M	BAT42
	40	350mA	330	DO-35	497-2512-1-ND	.41	3.00	21.12	497-2512-2-ND	4,000	86.00/M	BAT48
	60	15mA	—	DO-35	497-2508-1-ND	.41	3.00	21.12	497-2508-2-ND	4,000	86.00/M	1N6263
	70	15mA	430	DO-35	497-2499-1-ND	.41	3.00	21.12	497-2499-2-ND	4,000	86.00/M	1N5711
	100	100mA	100	DO-35	497-2493-1-ND	.41	3.00	21.12	497-2493-2-ND	4,000	86.00/M	BAT41
	100	150mA	150	DO-35	497-3768-1-ND	.46	3.50	25.20	497-3768-2-ND	4,000	119.00/M	BAT46
2	60	2A	—	DO-41	497-3214-1-ND	.65	5.20	39.00	497-3214-3-ND§	2,000	208.00/M	STPS2L60
	150	1A	—	DO-41	497-2447-1-ND	.42	3.25	23.40	497-2447-3-ND§	2,000	117.00/M	STPS1150
	150	2A	—	DO-15	497-3213-1-ND	.45	3.60	27.00	497-3213-3-ND§	1,000	144.00	STPS2150
	150	3A	—	DO-201AD	497-3216-1-ND	.55	4.40	33.00	497-3216-2-ND	600	125.40	STPS3150
3	25	10A	—	TO-220AC	497-2738-5-ND‡	1.50	13.00	100.00	—	—	—	STPS10L25D
	45	7.5A	—	TO-220AC	497-2749-5-ND‡	1.09	8.71	65.34	—	—	—	STPS745D
	45	10A	—	TO-220AC	497-2754-5-ND‡	1.08	8.64	64.80	—	—	—	STPS1045D
	45	15A	—	TO-220AC	497-2753-5-ND‡	.95	8.22	63.25	—	—	—	STPS1545D
	100	8A	—	TO-220AC	497-2737-5-ND‡	1.24	10.73	82.50	—	—	—	STPS8H100D
4	30	2 x 10A	—	TO-220AB	497-2750-5-ND‡	1.31	11.38	87.50	—	—	—	STPS2030CT
	30	2 x 15A	—	TO-220AB	497-2756-5-ND‡	1.65	13.75	115.50	—	—	—	STPS30L30CT
	45	2 x 7.5A	—	TO-220AB	497-2747-5-ND‡	1.03	8.94	68.75	—	—	—	STPS1545CT
	45	2 x 15A	—	TO-220AB	497-2751-5-ND‡	1.44	12.51	96.25	—	—	—	STPS3045CT
	100	2 x 10A	—	TO-220AB	497-2726-5-ND‡	1.62	13.50	113.40	—	—	—	STPS20H100CT
	100	2 x 30A	—	TO-220AB	497-3812-5-ND‡	3.59	31.26	232.75	—	—	—	STPS60H100CT
	150	2 x 8A	—	TO-220AB	497-2739-5-ND‡	2.10	17.50	147.00	—	—	—	STPS16150CT
	150	2 x 10A	—	TO-220AB	497-2730-5-ND‡	2.40	20.00	168.00	—	—	—	STPS20150CT
	150	2 x 20A	—	TO-220AB	497-3217-5-ND‡	3.38	29.38	218.75	—	—	—	STPS40150CT
	170	2 x 10A	—	TO-220AB	497-3525-5-ND‡	2.55	21.25	178.50	—	—	—	STPS20170CT
5	45	2 x 60A	—	ISOTOP	497-3207-5-ND‡	18.38	157.50	1396.50	—	—	—	STPS12045TV
	45	2 x 80A	—	ISOTOP	497-2741-5-ND‡	21.07	180.60	1601.32	—	—	—	STPS16045TV
	100	2 x 80A	—	ISOTOP	497-2723-5-ND‡	26.95	231.00	2048.20	—	—	—	STPS160H100TV
	600	2 x 60A	—	ISOTOP	497-3811-5-ND‡	24.50	210.00	1862.00	—	—	—	STTH120L06TV1
6	15	2 x 20A	—	TO-247	497-2687-5-ND‡	3.47	30.24	225.23	—	—	—	STPS40L15CW
	30	2 x 30A	—	TO-247	497-2755-5-ND‡	4.10	35.67	265.65	—	—	—	STPS60L40CW
	45	2 x 30A	—	TO-247	497-3803-5-ND‡	3.27	28.44	211.75	—	—	—	STPS6045CW
	45	2 x 30A	—	TO-247	497-3745-5-ND‡	4.40	38.31	285.25	—	—	—	STPS60L45CW
	100	2 x 20A	—	TO-247	497-2725-5-ND‡	2.75	23.97	178.50	—	—	—	STPS40H100CW
	100	2 x 30A	—	TO-247	497-3220-5-ND‡	5.67	49.35	367.50	—	—	—	STPS61H100CW
	150	2 x 20A	—	TO-247	497-3218-5-ND‡	3.65	31.73	236.25	—	—	—	STPS40150CW
	150	2 x 30A	—	TO-247	497-3219-5-ND‡	5.67	49.35	367.50	—	—	—	STPS61150CW
	150	2 x 40A	—	TO-247	497-3221-5-ND‡	6.33	57.75	456.50	—	—	—	STPS80150CW
7D	30	0.3A	250	SOT-23	497-2522-1-ND	.40	2.70	18.72	497-2522-2-ND	3,000	72.00/M	BAT54SFILM
7C	30	0.3A	250	SOT-23	497-3786-1-ND	.40	2.70	18.72	497-3786-2-ND	3,000	72.00/M	BAT54CFILM
7B	30	100mA	250	SOT-23	497-2514-1-ND	.40	2.70	18.72	497-2514-2-ND	3,000	72.00/M	BAR43AFILM
7D	30	100mA	250	SOT-23	497-2515-1-ND	.40	2.70	18.72	497-2515-2-ND	3,000	72.00/M	BAR43SFILM
7A	30	100mA	250	SOT-23	497-2518-1-ND	.40	2.70	18.72	497-2518-2-ND	3,000	72.00/M	BAR42FILM
7C	30	100mA	250	SOT-23	497-2520-1-ND	.40	2.70	18.72	497-2520-2-ND	3,000	72.00/M	BAR43CFILM
7A	30	100mA	250	SOT-23	497-2521-1-ND	.40	2.70	18.72	497-2521-2-ND	3,000	72.00/M	BAR43FILM
7A	70	70mA	250	SOT-23	497-2529-1-ND	.41	3.00	21.12	497-2529-2-ND	3,000	86.00/M	BAR18FILM
7D	70	70mA	250	SOT-23	497-2516-1-ND	.40	2.70	18.72	497-2516-2-ND	3,000	72.00/M	BAS70-04FILM
7B	30	0.3A	230	SOT-323	497-2528-1-ND	.40	2.70	18.72	497-2528-2-ND	3,000	72.00/M	BAT54AWFILM
7A	30	0.3A	230	SOT-323	497-2530-1-ND	.40	2.70	18.72	497-2530-2-ND	3,000	72.00/M	BAT54WFILM
8	30	8A	—	DPAK	497-3222-1-ND	1.80	15.60	120.00	497-3222-2-ND	2,500	638.00/M	STPS8L30B-TR
9	40	3A	—	DPAK	497-2466-1-ND	.81	5.85	45.00	497-2466-2-ND	2,500	257.00/M	STPS340B-TR
	45	2 x 7.5A	—	DPAK	497-3208-1-ND	1.50	12.50	105.00	497-3208-2-ND	2,500	650.00/M	STPS15H100CB-TR
	100	2 x 7.5A	—	DPAK	497-2748-5-ND‡	1.01	8.78	67.50	—	—	—	STPS15L45CB
	100	5A	—	DPAK	497-2640-5-ND‡	1.68	14.00	117.60	—	—	—	STPS5H100B
10	45	2 x 10A	—	D^2PAK	497-2752-5-ND‡	1.35	11.70	90.00	—	—	—	STPS20L45CG
	45	2 x 20A	—	D^2PAK	497-3528-1-ND	2.49	20.75	174.30	497-3528-2-ND	1,000	1121.00	STPS40L45CG-TR
	100	2 x 8A	—	D^2PAK	497-2722-5-ND‡	1.35	10.80	81.00	—	—	—	STPS16H100G
	100	2 x 10A	—	D^2PAK	497-2457-1-ND	1.62	13.50	113.40	497-2457-2-ND	1,000	729.00	STPS20H100CG-TR
	150	2 x 20A	—	D^2PAK	497-3527-5-ND‡	3.38	29.38	218.75	—	—	—	STPS40150CG
	150	2 x 20A	—	D^2PAK	497-3754-1-ND	2.34	19.50	163.80	497-3754-2-ND	1,000	1053.00	STPS40150CG-TR
	600	12A	—	D^2PAK	497-3814-5-ND‡	1.80	15.60	120.00	—	—	—	STTH12R06G
11	100	2 x 40A	—	MAX247	497-2724-5-ND‡	13.00	120.25	910.00	—	—	—	STPS80H100CY
12	30	1A	—	SMA	497-3755-1-ND	.50	4.00	30.00	497-3755-2-ND	5,000	140.00/M	STPS130A
	30	2A	—	SMA	497-3759-1-ND	.81	6.48	48.60	497-3759-2-ND	5,000	243.00/M	STPS2L30A
	40	1A	—	SMA	497-2453-1-ND	.42	3.25	23.40	497-2453-2-ND	5,000	104.00/M	STPS140A
	40	1A	—	SMA	497-3753-1-ND	.55	4.25	25.50	497-3753-2-ND	5,000	136.00/M	STPS1L40A
	60	1A	—	SMA	497-2463-1-ND	.68	2.88	21.60	497-2463-2-ND	5,000	136.00/M	STPS1L60A
	60	1A	—	SMA	497-3756-1-ND	.72	5.76	43.20	497-3756-2-ND	5,000	216.00/M	STPS160A
	60	2A	—	SMA	497-2461-1-ND	.55	3.40	25.50	497-2461-2-ND	5,000	136.00/M	STPS2L60A
	100	1A	—	SMA	497-3209-1-ND	.86	6.84	51.30	497-3209-2-ND	5,000	257.00/M	STPS1H100A
	100	2A	—	SMA	497-3758-1-ND	.90	7.20	54.00	497-3758-2-ND	5,000	270.00/M	STPS2H100A
	150	2A	—	SMA	497-2467-1-ND	.38	3.00	22.50	497-2467-2-ND	5,000	105.00/M	STPS2150A
	30	1A	—	SMB	497-2468-1-ND	.49	3.75	27.00	497-2468-2-ND	2,500	128.00/M	STPS1L30U
	40	1A	—	SMB	497-2490-1-ND	.50	3.85	27.72	497-2490-2-ND	2,500	131.00/M	STPS140U

‡ Tube § Ammo Pack ◊ Bulk

(Continued)

Fig.	VRRM (V)	IF	PTOT (mW)	Package Type	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Size	Pricing	STMicroelectronics Part No.
12	40	3A	—	SMB	497-2465-1-ND	.68	5.40	40.50	497-2465-2-ND	2,500	214.00/M	STPS340U
	100	1A	—	SMB	497-3210-1-ND	1.28	11.05	85.00	497-3210-2-ND	2,500	452.00/M	STPS1H100U
	25	3A	—	SMC	497-3760-1-ND	.90	7.20	54.00	497-3760-2-ND	2,500	285.00/M	STPS3L25S
	40	3A	—	SMC	497-2464-1-ND	1.01	8.78	67.50	497-2464-2-ND	2,500	215.00/M	STPS340S
	60	3A	—	SMC	497-2454-1-ND	1.13	9.75	75.00	497-2454-2-ND	2,500	215.00/M	STPS3L60S
13	20	0.5A	—	SOD-123	497-3205-1-ND	.65	5.20	39.00	497-3205-2-ND	3,000	195.00/M	STPS0520Z
	60	0.5A	—	SOD-123	497-3787-1-ND	.42	2.60	19.50	497-3787-2-ND	3,000	111.00/M	STPS0560Z
14	20	0.5A	—	DO-216AA	497-4390-1-ND **NEW!**	.55	4.25	30.60	497-4390-2-ND **NEW!**	12,000	128.00/M	STPS0520M
	20	1A	—	DO-216AA	497-3211-1-ND	.60	4.80	36.00	497-3211-2-ND	12,000	160.00/M	STPS1L20M
	40	1A	—	DO-216AA	497-3212-1-ND	.60	4.80	36.00	497-3212-2-ND	12,000	160.00/M	STPS1L40M
15	30	200mA	200	MINIMELF	497-3272-1-ND	.55	4.40	33.00	497-3272-2-ND	2,500	165.00/M	TMMBAT42FILM
	40	350mA	330	MINIMELF	497-3274-1-ND	.65	5.20	39.00	497-3274-2-ND	2,500	195.00/M	TMMBAT48FILM
	100	150mA	150	MINIMELF	497-3273-1-ND	.55	4.40	33.00	497-3273-2-ND	2,500	165.00/M	TMMBAT46FILM
16	45	2 x 15A	—	SOT-93	497-3215-5-ND‡	2.84	24.68	183.75	—	—	—	STPS3045CP
17	50	4A	—	Dip-16	497-3646-ND	2.97	24.75	207.90	—	—	—	L6210
18	10	3A	310	SOD-323	497-3707-1-ND	.60	4.80	36.00	497-3707-2-ND	3,000	180.00/M	BAT60JFILM
	23	1A	—	SOD-323	497-3381-1-ND	.52	4.00	28.80	497-3381-2-ND	3,000	136.00/M	BAT20JFILM
19	45	2 x 15A	—	TOP-3I	497-3526-ND◊	3.65	31.73	236.25	—	—	—	STPS3045CPIRG
	45	2 x 30A	—	TOP-3I	497-3529-ND◊	4.86	42.30	315.00	—	—	—	STPS6045CPIRG
20	80	500mA	—	MELF	497-3788-1-ND	.43	3.30	23.76	497-3788-2-ND	1,500	119.00/M	TMBAT49FILM
21	45	2 x 15A	—	TO-220FPAB	497-4393-5-ND‡ **NEW!**	1.73	14.95	115.00	—	—	—	STPS30L45CFP
	150	2 x 10A	—	TO-220FPAB	497-4391-5-ND‡ **NEW!**	1.50	12.50	105.00	—	—	—	STPS20150CFP
22	45	2 x 10A	—	I2PAK	497-4392-5-ND‡ **NEW!**	1.39	12.03	92.50	—	—	—	STPS2045CR
	45	2 x 15A	—	I2PAK	497-4394-5-ND‡ **NEW!**	1.50	12.50	105.00	—	—	—	STPS30L45CR

‡ Tube § Ammo Pack ◊ Bulk

Fast Diodes

Fig. 1 — DO-15, DO-201AD, DO-41

Fig. 2 — TO-220AC

A. 1. Cathode 2. Anode 3. Cathode
B. 1. Cathode 2. Anode 3. —

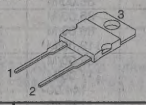

Fig. 3A — TO-220AB

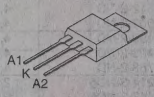

Fig. 3B — TO-220AB

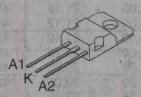

Fig. 4 — TO-247

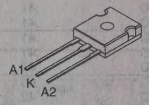

Fig. 5 — DOP3I Insulated

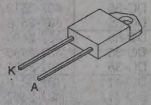

Fig. 6 — ISOTOP

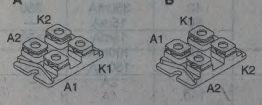

Fig. 7 — ISOTOP

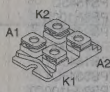

Fig. 8 — SOT-93

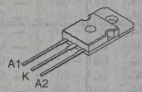

Fig. 9 — SMA, SMB, SMC

Fig. 10 — SOD93

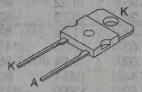

Fig. 11 — TO-220FPAC

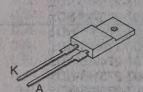

Fig. 12 — TO-220AB Insulated

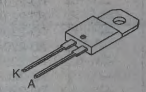

Fig. 13 — TO-220AC Insulated

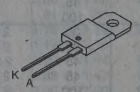

Fig. 14 — DPAK

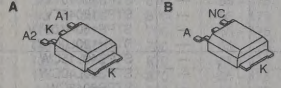

Fig. 15 — D2PAK

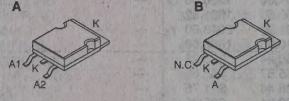

Fig. 16 — I2PAK

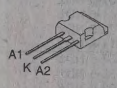

Fig. 17 — TO-220FPAB

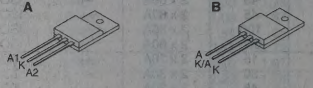

Fig.	VRRM (V)	IF	Package Type	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Size	Pricing	STMicroelectronics Part No.
1	200	1.5A	DO-15	497-2510-1-ND	.49	3.75	27.00	497-2510-2-ND	6,000	120.00/M	BYW100-200RL
	200	1.5A	DO-15	497-3132-1-ND	.49	3.75	27.00	497-3132-3-ND§	1,000	135.00	BYW100-200
	400	1A	DO-15	497-2446-1-ND	.36	2.75	19.80	497-2446-3-ND§	1,000	110.00	BYT01-400
	800	2A	DO-15	497-2443-1-ND	.70	4.55	35.00	497-2443-3-ND§	1,000	224.00	STTH208
	200	3A	DO-201AD	497-2497-1-ND	.68	5.40	40.50	497-2497-2-ND	1,900	233.00/M	BYW98-200RL
	200	3A	DO-201AD	497-3133-1-ND	.66	5.72	44.00	497-3133-3-ND§	600	195.60	BYW98-200
	200	3A	DO-201AD	497-2445-1-ND	.55	2.76	21.25	497-2445-3-ND§	600	107.10	STTH302
	600	3A	DO-201AD	497-3246-1-ND	.75	4.88	37.50	497-3246-3-ND§	600	171.00	STTH3L06
	600	3A	DO-201AD	497-4414-1-ND **NEW!**	.81	6.48	48.60	497-4414-3-ND§ **NEW!**	600	199.80	STTH3R06
	600	3A	DO-201AD	497-4415-1-ND **NEW!**	.81	6.48	48.60	497-4415-2-ND **NEW!**	1,900	279.00/M	STTH3R06RL
	1,000	3A	DO-201AD	497-2442-1-ND	.70	5.60	42.00	497-2442-3-ND§	600	159.60	STTH310
	200	1A	DO-41	497-3666-1-ND	.94	8.13	62.50	497-3666-2-ND	2,000	363.00/M	STTH102
	600	1A	DO-41	497-3242-1-ND	.90	7.20	54.00	497-3242-2-ND	5,000	270.00/M	STTH1L06RL
	600	1A	DO-41	497-3243-1-ND	.50	4.00	30.00	497-3243-2-ND	5,000	140.00/M	STTH1R06RL
	600	2A	DO-41	497-3548-ND◊	.95	7.56	56.70	—	—	—	STTH2L06
	600	2A	DO-41	497-3752-1-ND	.55	3.96	29.70	497-3752-3-ND§	2,000	176.00/M	STTH2R06
	600	2A	DO-41	497-4409-1-ND **NEW!**	.55	4.40	33.00	497-4409-2-ND **NEW!**	5,000	154.00/M	STTH2R06RL
	1,000	1A	DO-41	497-2444-1-ND	.53	4.20	31.50	497-2444-3-ND§	2,000	168.00/M	STTH110
2B	200	8A	TO-220AC	497-2710-5-ND‡	.95	7.56	56.70	—	—	—	STPR820D
2B	200	15A	TO-220AC	497-3204-5-ND‡	1.95	16.25	136.50	—	—	—	STPR1520D
2B	200	20A	TO-220AC	497-2692-5-ND‡	1.16	10.01	77.00	—	—	—	BYW80-200
2A	600	5A	TO-220AC	497-3239-5-ND‡	1.50	13.00	100.00	—	—	—	STTA506D
2A	600	5A	TO-220AC	497-2746-5-ND‡	1.50	12.50	105.00	—	—	—	STTH5R06D
2A	600	8A	TO-220AC	497-2745-5-ND‡	1.95	16.25	136.50	—	—	—	STTH8R06D
2A	600	8A	TO-220AC	497-2697-5-ND‡	1.31	11.38	87.50	—	—	—	STTA806D
2B	600	8A	TO-220AC	497-2744-5-ND‡	1.16	10.08	77.50	—	—	—	STTH8LO6D
2B	600	8A	TO-220AC	497-2399-ND◊	2.58	21.53	180.81	—	—	—	STTA806DI
2A	600	12A	TO-220AC	497-2685-5-ND‡	1.69	14.63	112.50	—	—	—	STTA1206D
2B	600	30A	TO-220AC	497-3800-5-ND‡	2.52	21.00	176.40	—	—	—	STTH30L06D
2B	600	30A	TO-220AC	497-4412-5-ND‡ **NEW!**	1.59	13.25	111.30	—	—	—	STTH30R06D
2B	1,000	12A	TO-220AC	497-2428-ND◊	4.68	40.73	303.28	—	—	—	BYT12PI-1000
3A	200	2 x 10A	TO-220AB	497-2693-5-ND‡	1.32	11.44	88.00	—	—	—	BYW51-200
3B	200	8A	TO-220AB	497-3540-5-ND‡	1.39	12.03	92.50	—	—	—	STTH1002CT
	200	10A	TO-220AB	497-3544-5-ND‡	1.69	14.63	112.50	—	—	—	STTH1602CT

‡ Tube ◊ Bulk § Ammo Pack

(Continued)

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Fig.	V_{RRM} (V)	I_F	Package Type	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Size	Pricing	STMicroelectronics Part No.
	200	15A	TO-220AB	497-3547-5-ND‡	1.80	15.00	126.00	—	—	—	STTH2002CT
	200	15A	TO-220AB	497-3551-5-ND‡	4.00	34.78	259.00	—	—	—	STTH3002CT
3B	200	16A	TO-220AB	497-3810-5-ND‡	1.28	11.05	85.00	—	—	—	STPR1620CT
	200	20A	TO-220AB	497-3818-5-ND‡	1.62	13.50	113.40	—	—	—	STTH16L06CT
	300	2 x 10A	TO-220AB	497-2743-5-ND‡	2.22	18.50	155.40	—	—	—	STTH2003CT
	600	40A	TO-220AB	497-3802-5-ND‡	2.91	22.80	203.70	—	—	—	STTH30L06CT
	200	15A	TO-247	497-2688-5-ND‡	3.12	27.14	202.13	—	—	—	BYW99W-200
	200	15A	TO-247	497-3552-5-ND‡	4.37	38.07	283.50	—	—	—	STTH3002CW
	200	30A	TO-247	497-3553-5-ND‡	5.00	43.48	323.75	—	—	—	STTH6002CW
	300	2 x 15A	TO-247	497-2742-5-ND‡	4.16	36.19	269.50	—	—	—	STTH3003CW
4	300	2 x 30A	TO-247	497-2720-5-ND‡	5.00	43.48	323.75	—	—	—	STTH6003CW
	300	60A	TO-247	497-4416-5-ND‡ ***NEW!***	2.40	20.00	168.00	—	—	—	STTH60P03SW
	600	40A	TO-247	497-3797-5-ND‡	2.81	24.44	182.00	—	—	—	STTH30L06CW
	600	80A	TO-247	497-3790-5-ND‡	4.05	35.25	262.50	—	—	—	STTH60L06CW
	600	2 x 15A	TO-247	497-2683-5-ND‡	5.05	43.95	327.25	—	—	—	STTA3006CW
	600	15A	Insulated DOP3I	497-3240-5-ND‡	5.40	47.00	350.00	—	—	—	STTH1506DPI
	1200	15A	Insulated DOP3I	497-3533-ND◊	4.32	37.60	280.00	—	—	—	STTA1512PIRG
	600	20A	Insulated DOP3I	497-2394-ND◊	4.01	34.90	259.88	—	—	—	STTA2006PI
	600	30A	Insulated DOP3I	497-3245-5-ND‡	6.90	63.00	498.00	—	—	—	STTH3006DPI
5	600	2 x 30A	Insulated DOP3I	497-3535-5-ND‡	5.86	51.00	379.75	—	—	—	STTA3006PIRG
	600	20A	Insulated DOP3I	497-3534-ND◊	4.89	42.54	316.75	—	—	—	STTA2006PIRG
	1000	30A	Insulated DOP3I	497-2424-ND◊	7.46	68.15	538.67	—	—	—	BYT30PI-1000
	200	25	Isolated DOP3I	497-3808-5-ND‡	2.97	25.85	192.50	—	—	—	BYW77PI-200RG
	400	30A	Isolated DOP3I	497-3806-5-ND‡	2.94	25.62	190.75	—	—	—	BYT30PI-400RG
	200	2 x 30A	ISOTOP	497-3554-5-ND‡	18.64	159.75	1416.45	—	—	—	STTH6102TV1
	200	2 x 60A	ISOTOP	497-3541-5-ND‡	17.59	150.75	1336.65	—	—	—	STTH12002TV1
6A	200	120A	ISOTOP	497-3819-5-ND‡	36.75	315.00	2793.00	—	—	—	STTH20002TV1
	600	2 x 30A	ISOTOP	497-2699-5-ND‡	15.60	144.30	1092.00	—	—	—	STTA6006TV1
	600	40A	ISOTOP	497-3796-5-ND‡	21.00	180.00	1596.00	—	—	—	STTH60L06TV1
	600	2 x 120A	ISOTOP	497-4408-5-ND‡ ***NEW!***	26.25	225.00	1995.00	—	—	—	STTH200L06TV1
	200	50A	ISOTOP	497-2689-5-ND‡	19.04	176.12	1332.80	—	—	—	BYV541V-200
6B	200	100A	ISOTOP	497-2694-5-ND‡	32.73	280.50	2487.10	—	—	—	BYV255V-200
	400	60A	ISOTOP	497-2681-5-ND‡	18.01	154.35	1368.57	—	—	—	BYT261PIV-400
	600	2 x 30A	ISOTOP	497-2698-5-ND‡	15.60	144.30	1092.00	—	—	—	STTA6006TV2
7	1000	2 x 30A	ISOTOP	497-3749-5-ND‡	18.00	166.50	1260.00	—	—	—	BYT230PIV-1000
	1200	2 x 45A	ISOTOP	497-3746-5-ND‡	29.75	255.00	2261.00	—	—	—	STTA9012TV2
8	200	15A	SOT-93	497-2691-5-ND‡	3.47	30.24	225.23	—	—	—	BYW99P-200
	200	1A	SMA	497-2500-1-ND	.36	2.75	19.80	497-2500-2-ND	5,000	94.00/M	STTH102A
	600	1A	SMA	497-3241-1-ND	.68	5.40	40.50	497-3241-2-ND	5,000	203.00/M	STTH1L06A
	600	1A	SMA	497-3765-1-ND	.55	4.25	25.50	497-3765-2-ND	5,000	136.00/M	STTH1R06A
	600	2A	SMA	497-3549-ND◊	1.04	8.28	62.10	—	—	—	STTH2L06A
	600	2A	SMA	497-3777-1-ND	.81	6.48	48.60	497-3777-2-ND	5,000	243.00/M	STTH2R06A
	800	1A	SMA	497-2459-1-ND	1.13	9.75	75.00	497-2459-2-ND	5,000	154.00/M	STTH108A
	200	1A	SMB	497-2509-1-ND	.49	3.75	27.00	497-2509-2-ND	2,500	128.00/M	SMBYW01-200
	200	2A	SMB	497-2511-1-ND	.90	7.20	54.00	497-2511-2-ND	2,500	150.00/M	SMBY20W-200
	400	1A	SMB	497-3147-1-ND	.72	5.76	43.20	497-3147-2-ND	2,500	228.00/M	SMBYT01-400
	600	1A	SMB	497-2494-1-ND	1.50	13.00	100.00	497-2494-2-ND	2,500	180.00/M	STTA106U
	600	1A	SMB	497-3766-1-ND	.50	4.00	30.00	497-3766-2-ND	2,500	150.00/M	STTH1L06U
9	600	1A	SMB	497-4406-1-ND ***NEW!***	.55	4.25	30.60	497-4406-2-ND ***NEW!***	2,500	145.00/M	STTH1R06U
	600	2A	SMB	497-3757-1-ND	.65	5.20	35.10	497-3757-2-ND	2,500	195.00/M	STTH2L06U
	600	2A	SMB	497-3776-1-ND	.65	4.68	35.10	497-3776-2-ND	2,500	195.00/M	STTH2R06U
	600	3A	SMB	497-3771-1-ND	.81	6.48	48.60	497-3771-2-ND	2,500	257.00/M	STTH3L06U
	600	3A	SMB	497-3767-1-ND	.86	6.84	51.30	497-3767-2-ND	2,500	271.00/M	STTH3R06U
	1,200	1A	SMB	497-3237-1-ND	.94	8.13	62.50	497-3237-2-ND	2,500	333.00/M	STTA112U
	1,200	1A	SMB	497-2460-1-ND	.68	5.40	40.50	497-2460-2-ND	2,500	203.00/M	STTH112U
	200	4A	SMC	497-2502-1-ND	.72	5.76	40.00	497-2502-2-ND	2,500	228.00/M	SMBYW04-200
	400	3A	SMC	497-3762-1-ND	.65	4.68	35.10	497-3762-2-ND	2,500	195.00/M	SMBYT03-400
	600	3A	SMC	497-3764-1-ND	.95	7.56	56.70	497-3764-2-ND	2,500	299.00/M	STTH3L06S
	600	3A	SMC	497-3779-1-ND	.86	6.84	51.30	497-3779-2-ND	2,500	271.00/M	STTH3R06S
	1,200	2A	SMC	497-3238-1-ND	1.50	13.00	100.00	497-3238-2-ND	2,500	532.00/M	STTA212S
	400	2 x 60A	SOD93	497-3131-5-ND‡	7.66	69.93	552.78	—	—	—	BYT60P-400
10	600	2 x 30A	SOD93	497-2682-5-ND‡	3.38	29.38	218.75	—	—	—	STTA3006P
	600	20A	SOD93	497-2684-5-ND‡	3.27	28.44	211.75	—	—	—	STTA2006P
	200	10A	TO-220FPAC	497-4187-5-ND‡ ***NEW!***	1.58	13.65	105.00	—	—	—	BYW80FP-200
	600	5A	TO-220FPAC	497-3747-5-ND‡	.95	8.19	63.00	—	—	—	STTH5L06FP
	600	5A	TO-220FPAC	497-3249-5-ND‡	1.50	12.50	105.00	—	—	—	STTH5R06FP
11	600	15A	TO-220FPAC	497-4404-5-ND‡ ***NEW!***	1.68	14.00	117.60	—	—	—	STTH15L06FP
	1200	5A	TO-220FPAC	497-4402-5-ND‡ ***NEW!***	1.43	12.35	95.00	—	—	—	STTA512FP
	1500	6A	TO-220FPAC	497-4200-5-ND‡ ***NEW!***	1.73	14.95	115.00	—	—	—	DTV1500HDFP
	1500	6A	TO-220FPAC	497-4201-5-ND‡ ***NEW!***	1.54	13.33	102.50	—	—	—	DTV1500SDFP
12	600	8A	Insulated TO-220AB	497-3250-5-ND‡	3.24	28.20	210.00	—	—	—	STTH806DTI
	600	5A	Insulated TO-220AC	497-3247-5-ND‡	2.70	23.50	175.00	—	—	—	STTH506DTI
13	600	8A	Insulated TO-220AC	497-4418-5-ND‡ ***NEW!***	1.35	11.70	90.00	—	—	—	STTH8L06DIRG
	600	8A	Insulated TO-220AC	497-4419-5-ND‡ ***NEW!***	1.28	11.05	85.00	—	—	—	STTH8R06DIRG
	600	12A	Insulated TO-220AC	497-4403-5-ND‡ ***NEW!***	1.80	15.00	126.00	—	—	—	STTH12R06DIRG
14A	200	8A	DPAK	497-3536-5-ND‡	1.39	12.03	92.50	—	—	—	STTH1002CB
14B	600	3A	DPAK	497-3769-1-ND	.81	5.85	45.00	497-3769-2-ND	2,500	257.00/M	STTH3L06B-TR
14B	600	5A	DPAK	497-3248-1-ND	1.80	15.60	120.00	497-3248-2-ND	2,500	638.00/M	STTH5L06B-TR
	200	8A	D2PAK	497-3538-5-ND‡	1.39	12.03	92.50	—	—	—	STTH1002CG
	200	8A	D2PAK	497-3778-1-ND	.94	8.13	62.50	497-3778-2-ND	1,000	363.00	BYW29G-200-TR
	200	10A	D2PAK	497-3543-5-ND‡	1.73	14.95	115.00	—	—	—	STTH1602CG
	200	15A	D2PAK	497-3546-5-ND‡	1.83	15.25	128.10	—	—	—	STTH2002CG
	200	15A	D2PAK	497-3550-5-ND‡	3.83	33.37	248.50	—	—	—	STTH3002CG
15A	200	30A	D2PAK	497-3761-1-ND	1.50	12.50	105.00	497-3761-2-ND	1,000	675.00	STTH2002CG-TR
	200	30A	D2PAK	497-3775-1-ND	1.83	15.25	128.10	497-3775-2-ND	1,000	824.00	STTH3002CG-TR
	600	8A	D2PAK	497-3763-1-ND	1.35	11.70	90.00	497-3763-2-ND	1,000	522.00	STTH8L06G-TR
	600	20A	D2PAK	497-3817-5-ND‡	1.68	14.00	117.60	—	—	—	STTH16L06CG
	600	20A	D2PAK	497-3816-5-ND‡	1.80	15.00	126.00	—	—	—	STTH15L06G
	600	40A	D2PAK	497-3813-5-ND‡	2.75	23.97	178.50	—	—	—	STTH30L06CG
15B	300	8A	D2PAK	497-4417-1-ND ***NEW!***	1.28	11.05	85.00	497-4417-2-ND ***NEW!***	1,000	493.00	STTH803G-TR
	200	8A	I2PAK	497-3539-5-ND‡	1.39	12.03	92.50	—	—	—	STTH1002CR
16	200	20A	I2PAK	497-3801-5-ND‡	1.09	9.43	72.50	—	—	—	STTH1602CR
	200	30A	I2PAK	497-3774-1-ND	1.95	16.25	136.50	497-3774-2-ND	500	487.50	STTH3002CR
	200	10A	TO-220FPAB	497-3542-5-ND‡	1.31	11.38	87.50	—	—	—	STTH1602CFP
	200	15A	TO-220FPAB	497-3545-5-ND‡	1.50	13.00	100.00	—	—	—	STTH2002CFP
17A	200	8A	TO-220FPAB	497-3537-5-ND‡	1.05	9.10	70.00	—	—	—	STTH1002CFP
	300	2 x 10A	TO-220FPAB	497-4407-5-ND‡ ***NEW!***	2.40	20.00	168.00	—	—	—	STTH2003CFP
	600	8A	TO-220FPAB	497-4405-5-ND‡ ***NEW!***	1.68	14.00	117.60	—	—	—	STTH16L06CFP
	600	3A	TO-220FPAB	497-4190-5-ND‡ ***NEW!***	1.89	15.75	132.30	—	—	—	DMV1500HFD
	600	3A	TO-220FPAB	497-4192-5-ND‡ ***NEW!***	1.46	12.68	97.50	—	—	—	DMV1500L
17B	600	3A	TO-220FPAB	497-4194-5-ND‡ ***NEW!***	1.46	12.68	97.50	—	—	—	DMV1500LFD
	600	3A	TO-220FPAB	497-4196-5-ND‡ ***NEW!***	1.61	13.98	107.50	—	—	—	DMV1500MFD
	600	6A	TO-220FPAB	497-4198-5-ND‡ ***NEW!***	1.65	14.30	110.00	—	—	—	DMV1500SDFD

‡ Tube ◊ Bulk § Ammo Pack

Ultra Fast Rectifiers

Package	Working Peak Reverse Voltage VRWM	Average Rectified Forward Current IO (A)	Peak Surge Current IFSM (A)	Max. Instantaneous Forward Voltage Drop VF (V)	Digi-Key Part No.	Pricing 10	Pricing 100	Pricing 250	Tape & Reel* Size	Tape & Reel* Pricing
TO-247PSI	200	30	200	1.05	MUR3020WTOS-ND	23.92	200.91	418.56	—	—
	600	30	150	1.7	MUR3060WTOS-ND	27.42	204.17	437.51	—	—
D-PAK	200	6	50	1.15	MSRD620CTT4OSCT-ND	14.00	117.60	245.00	2,500	273.00/M
D2PAK	200	16	100	1.2	MURB1620CTRT4OSCT-ND	14.03	107.93	226.64	800	573.60
	200	16	100	0.975	MURB1620CTT4OSCT-ND	8.66	72.77	151.59	800	460.00
	600	8	100	1.5	MURB1660CTT4OSCT-ND	29.85	222.25	476.25	800	1422.40
	400	8	100	2.2	MURHB840CTOS-ND	15.17	116.68	245.02	—	—
	600	4	100	2.8	MURHB860CTT4OSCT-ND	32.90	245.00	525.00	800	1568.00
TO-220FP	600	16	100	1.50	MURF1660CTOS-ND	14.59	122.51	255.24	—	—
SMB	50	2	40	0.875	MURS105T3OSCT-ND	3.22	23.15	43.40	2,500	109.00/M
	100	2	40	0.875	MURS110T3OSCT-ND	3.22	23.15	43.40	2,500	109.00/M
	150	2	40	0.875	MURS115T3OSCT-ND	3.22	23.15	43.40	2,500	109.00/M
	200	2	40	0.875	MURS120T3OSCT-ND	3.22	23.15	43.40	2,500	109.00/M
	400	2	35	1.25	MURS140T3OSCT-ND	3.50	25.20	47.25	2,500	119.00/M
	600	2	35	1.25	MURS160T3OSCT-ND	3.50	25.20	47.25	2,500	119.00/M
	200	2	40	0.95	MURS220T3OSCT-ND	3.18	23.82	47.64	2,500	135.00/M
	600	2	35	1.45	MURS260T3OSCT-ND	3.18	23.82	47.64	2,500	135.00/M
SMC	200	4	75	0.89	MURS320T3OSCT-ND	4.16	31.19	66.41	2,500	173.00/M
	400	4	75	1.28	MURS340T3OSCT-ND	4.62	34.67	73.83	2,500	193.00/M
	600	4	75	1.28	MURS360T3OSCT-ND	4.62	34.67	73.83	2,500	193.00/M
SMA	100	2	50	0.875	MURA110T3OSCT-ND	3.33	23.98	44.96	5,000	107.00/M
	200	1	40	0.875	MURA120T3OSCT-ND	3.33	23.98	44.96	5,000	107.00/M
	400	1	35	1.1	MURA140T3OSCT-ND	3.33	23.98	44.96	5,000	107.00/M
	600	1	30	1.25	MURA160T3OSCT-ND	3.33	23.98	44.96	5,000	107.00/M
	400	2	35	1.30	MURA240T3OSCT-ND	3.33	23.98	44.96	5,000	107.00/M
	600	2	30	1.45	MURA260T3OSCT-ND	3.33	23.98	44.96	5,000	107.00/M
DO-201AD	100	1	35	0.875	MUR110RLOSCT-ND	2.92	21.02	39.42	5,000	99.00/M
	150	1	35	0.875	MUR115RLOSCT-ND	2.92	21.02	39.42	5,000	99.00/M
	200	1	35	0.875	MUR120RLOSCT-ND	2.92	21.02	39.42	5,000	99.00/M
	300	1	35	1.25	MUR1300SCT-ND	2.92	21.02	39.42	5,000	99.00/M
	400	1	35	1.25	MUR140RLOSCT-ND	2.92	21.02	39.42	5,000	99.00/M
	600	1	35	1.25	MUR160RLOSCT-ND	3.18	22.86	42.86	5,000	102.00/M
	50	4	125	0.890	MUR4050S-ND	4.20	31.50	63.00	—	—
	100	4	125	0.890	MUR410RLOSCT-ND	4.20	31.50	63.00	1,500	168.00/M
	150	4	125	0.890	MUR4150S-ND	4.20	31.50	63.00	—	—
	200	4	125	0.890	MUR420RLOSCT-ND	4.20	31.50	63.00	1,500	168.00/M
	600	4	110	1.25	MUR460RLOSCT-ND	4.20	31.51	67.10	1,500	187.00/M
	800	4	70	1.75	MUR480EOS-ND	5.84	43.77	87.54	—	—
	1000	4	70	1.75	MUR4100ERLOSCT-ND	5.88	44.12	93.96	1,500	253.00/M

*For Tape and Reel Part Number, change CT-ND to TR-ND.

Schottky Barrier Diodes

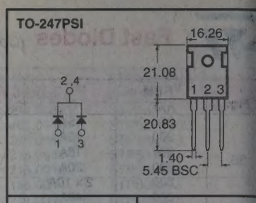
Package	Rev. Volt. VWPRV	Avg. For. Curr. IO (A)	Power Dissipation (mW)	Peak Surge Current IFSM (A)	Forward Volt. Max @ VF (Vdc)	Forward Volt. Max @ IF	Pinning 1	Pinning 2	Pinning 3	Digi-Key Part No.	Cut Tape Pricing 10	Cut Tape Pricing 100	Cut Tape Pricing 250	Tape & Reel* Size	Tape & Reel* Pricing
SOT-23	7	—	225	—	0.6†	10mA	A	—	K	MMBD101LT1OSCT-ND	1.83	12.89	23.44	3,000	69.00/M
	30	—	200	—	0.45	1mA	A	—	K	MMBD301LT1OSCT-ND	2.02	13.99	25.22	3,000	59.00/M
	70	—	200	—	0.5	1mA	A	—	K	MMBD701LT1OSCT-ND	1.83	12.89	23.44	3,000	69.00/M
	40	.12	225	.2	0.5	10mA	A	K	A/K	BAS40-04LT1OSCT-ND	2.10	14.56	26.25	3,000	66.00/M
	40	.12	225	.2	0.5	10mA	K	K	A	BAS40-06LT1OSCT-ND	1.75	12.32	22.40	3,000	66.00/M
	40	.12	225	.2	0.5	10mA	A	—	K	BAS40LT1OSCT-ND	1.93	13.36	24.09	3,000	60.00/M
	70	—	225	—	0.75	10mA	A	—	K	BAS70LT1OSCT-ND	1.61	11.31	20.56	3,000	60.00/M
	30	.2	225	.6	0.40	10mA	K	K	A	BAT54ALT1OSCT-ND	2.10	14.56	26.25	3,000	43.00/M
	30	.2	225	.6	0.5	30mA	A	K	K/A	BAT54SLT1OSCT-ND	1.82	12.64	22.78	3,000	43.00/M
	30	.2	200	.3	0.5	30mA	A	—	K	BAT54LT1OSCT-ND	1.73	12.01	21.66	3,000	38.00/M
SOT-323	20	—	200	—	0.37	1mA	K	K	A	MMBD717LT1OSCT-ND	1.85	12.79	23.06	3,000	58.00/M
	30	.2	200	.6	0.5	30mA	A	—	K	BAT54WT1OSCT-ND	1.58	10.92	19.69	3,000	47.00/M
	30	.2	200	.6	0.5	30mA	A	K	K/A	BAT54SWT1OSCT-ND	1.85	12.79	23.06	3,000	52.00/M

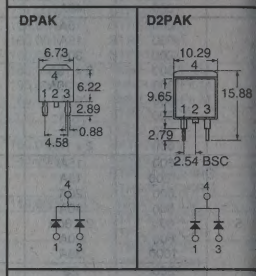
*For Tape and Reel Part Number, change CT-ND to TR-ND.

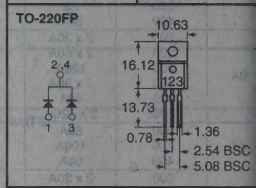
Package	Rev. Volt. VWPRV	Avg. For. Curr. IO (A)	Power Dissipation (mW)	Peak Surge Current IFSM (A)	Forward Volt. Max @ VF (Vdc)	Forward Volt. Max @ IF	Digi-Key Part No.	Pricing 10	Pricing 100	Pricing 250	Tape & Reel* Size	Tape & Reel* Pricing
SOT-363	30	.2	150	.6	0.4	10mA	MBD54DWT1OSCT-ND	2.92	20.55	37.36	3,000	84.00/M
DO-41	20	1	—	25	0.45	1A	1N5817RLOSCT-ND	3.29	23.14	42.08	5,000	89.00/M
	30	1	—	25	0.55	1A	1N5818RLOSCT-ND	3.29	23.14	42.08	5,000	89.00/M
	40	1	—	25	0.6	1A	1N5819RLOSCT-ND	3.29	23.14	42.08	5,000	89.00/M
	50	1	750	25	0.75	1A	MBR150RLOSCT-ND	4.50	32.40	60.75	5,000	126.00/M
	60	1	750	25	0.75	1A	MBR160RLOSCT-ND	2.92	21.02	39.42	5,000	99.00/M
	100	1	500	50	0.79	1A	MBR1100RLOSCT-ND	3.04	22.77	45.54	5,000	121.00/M
DO-201AD	20	3	—	80	0.475	3A	1N5820RLOSCT-ND	3.64	27.30	54.60	1,500	146.00/M
	30	3	—	80	0.5	3A	1N5821RLOSCT-ND	3.64	27.30	54.60	1,500	146.00/M
	40	3	—	80	0.525	3A	1N5822RLOSCT-ND	3.64	27.30	54.60	1,500	146.00/M
	40	3	1,250	80	0.5	1A	MBR3400S-ND	4.09	29.41	55.15	—	—
	50	3	1,500	80	0.6	1A	MBR350RLOSCT-ND	3.27	24.51	49.02	1,500	147.00/M
	60	3	1,500	80	0.6	1A	MBR360RLOSCT-ND	3.27	24.51	49.02	1,500	147.00/M
	100	3	1,500	150	0.79	3A	MBR3100RLOSCT-ND	5.60	42.00	84.00	1,500	224.00/M

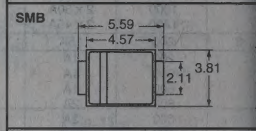
*For Tape and Reel Part Number, change CT-ND to TR-ND.

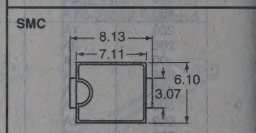
(Continued)

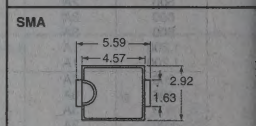


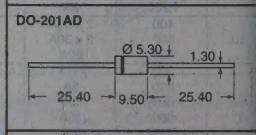


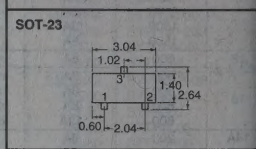


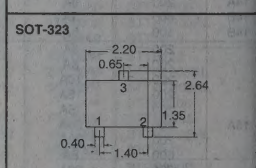


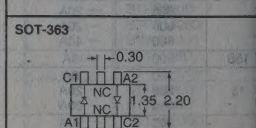


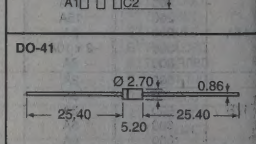












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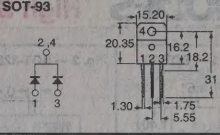
Schottky Barrier Diodes *(Cont.)*

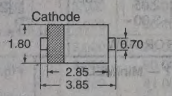
ackage	Rev. Volt. V_{WPRV}	Avg. For. Curr. IO (A)	Power Dissipation (mW)	Peak Surge Current IFSM (A)	Forward Volt. Max @ VF (Vdc)	@ IF	Digi-Key Part No.	Pricing 10	100	250	Tape & Reel* Size	Pricing
OT-93	45	30	10,000	200	0.76	30A	MBR3045PTOS-ND	17.50	147.00	306.25	—	—
	20	0.5	140	5.5	0.385	0.5A	MBR0520LT1OSCT-ND	2.38	16.76	30.48	3,000	76.00/M
	30	0.5	175	5.5	0.43	0.5A	MBR0530T1OSCT-ND	2.38	16.76	30.48	3,000	76.00/M
OD-123	30	1	400	5.5	0.47	1A	MBR130T1OSCT-ND	5.00	35.20	64.00	3,000	136.00/M
	40	0.5	2,250	5.5	0.62	1A	MBR0540T1OSCT-ND	2.56	18.00	32.72	3,000	76.00/M
	30	—	225	—	0.45	1mA	MMSD301T1OSCT-ND	2.45	17.00	30.66	3,000	65.00/M
	30	.2	400	.6	0.40	10mA	BAT54T1OSCT-ND	2.20	15.24	27.47	3,000	57.00/M
OD-323	30	—	200	.6	0.40	10mA	BAT54HT1OSCT-ND	2.28	15.81	28.50	3,000	49.00/M
	40	—	200	—	0.37	1mA	RB751V40T1OSCT-ND	1.61	11.31	20.56	3,000	60.00/M
)-226AC	30	—	280	—	0.6	10mA	MBD3010S-ND	2.81	19.45	—	—	—
	70	—	280	—	1	10mA	MBD7010S-ND	2.81	19.45	—	—	—
	15	25	—	150	0.45	25A	MBR2515LOS-ND	20.56	153.13	328.13	—	—
	60	10	5,000	150	0.8	10A	MBR1060OS-ND	8.30	62.26	132.60	—	—
	90	10	5,000	150	0.8	10A	MBR1090OS-ND	10.54	81.08	170.26	—	—
	100	10	5,000	150	0.8	10A	MBR10100OS-ND	10.54	81.08	170.26	—	—
)-220AC	35	10	5,500	150	0.84	20A	MBR1035OS-ND	8.40	63.02	134.21	—	—
	45	10	5,500	150	0.84	20A	MBR1045OS-ND	8.30	62.26	132.60	—	—
	35	16	9,000	150	0.63	16A	MBR1635OS-ND	10.24	78.75	165.38	—	—
	45	16	9,000	150	0.63	16A	MBR1645OS-ND	10.24	78.75	165.38	—	—
	35	7.5	1,800	150	0.84	15A	MBR735OS-ND	7.56	56.70	120.75	—	—
	45	7.5	1,800	150	0.84	15A	MBR745OS-ND	7.56	56.70	120.75	—	—
	45	15	9,000	150	0.84	15A	MBR1545CTOS-ND	8.82	66.15	140.88	—	—
	100	8	400	150	0.74	8A	MBR16100CTOS-ND	14.00	117.60	245.00	—	—
	200	20	—	150	0.9	10A	MBR20200CTOS-ND	16.04	134.76	280.74	—	—
	30	10	3,750	150	0.52	10A	MBR2030CTLOS-ND	16.04	134.76	280.74	—	—
)-220AB	45	20	—	150	0.84	20A	MBR2045CTOS-ND	8.34	64.18	134.77	—	—
	60	10	6,000	150	0.85	10A	MBR2060CTOS-ND	12.13	101.87	212.23	—	—
	100	10	6,000	150	0.85	10A	MBR20100CTOS-ND	11.28	94.75	197.40	—	—
	35	12.5	5,000	150	0.47	12.5A	MBR2535CTLOS-ND	13.13	110.25	229.69	—	—
	35	30	—	150	0.82	30A	MBR2535CTOS-ND	16.12	123.98	260.35	—	—
	45	30	—	150	0.82	30A	MBR2545CTOS-ND	13.51	103.95	218.30	—	—
O-247	45	60	—	500	0.62	30A	MBR6045WTOS-ND	32.90	245.00	525.00	—	—
	45	25	—	150	0.7	12.5A	MBRF2545CTOS-ND	20.42	171.51	357.31	—	—
)-220FP	100	20	—	150	0.85	10A	MBRF20100CTOS-ND	24.79	208.26	433.87	—	—
	200	20	—	150	0.9	10A	MBRF20200CTOS-ND	27.42	204.17	437.51	—	—
	20	3	1,000	75	0.6	3A	MBRD320T4OSCT-ND	6.51	48.84	104.02	2,500	258.00/M
	30	3	1,000	75	0.6	3A	MBRD330T4OSCT-ND	6.51	48.84	104.02	2,500	258.00/M
	40	3	1,000	75	0.6	3A	MBRD340T4OSCT-ND	6.51	48.84	104.02	2,500	258.00/M
	60	3	1,000	75	0.6	3A	MBRD360T4OSCT-ND	6.51	48.84	104.02	2,500	258.00/M
D-Pak	20	6	4,000	75	0.7	3A	MBRD620CTT4OSCT-ND	7.35	55.16	117.47	2,500	291.00/M
	40	6	4,000	75	0.7	3A	MBRD640CTT4OSCT-ND	7.35	55.16	117.47	2,500	291.00/M
	60	6	4,000	75	0.7	3A	MBRD660CTT4OSCT-ND	7.35	55.16	117.47	2,500	291.00/M
	35	8	3,750	75	0.51	8A	MBRD835LT4OSCT-ND	7.07	53.03	112.93	2,500	280.00/M
	35	10	2,000	50	0.47	5A	MBRD1035CTLT4OSCT-ND	8.72	67.10	140.91	2,500	357.00/M
	35	12.5	7,500	150	0.55	25A	MBRB2535CTLT4OSCT-ND	18.96	159.26	331.80	800	910.40
	45	30	16,000	150	0.82	30A	MBRB2545CTT4OSCT-ND	16.04	134.76	280.74	800	770.40
2pak A	45	15	8,000	150	0.84	15A	MBRB1545CTT4OSCT-ND	10.62	81.68	171.52	800	433.60
	100	20	13,000	150	0.85	10A	MBRB20100CTT4OSCT-ND	14.00	117.60	245.00	800	672.00
	200	10	6,000	150	0.9	10A	MBRB20200CTT4OSCT-ND	28.75	241.50	503.13	800	1288.00
2pak B	30	40	—	300	0.46	20A	MBRB4030T4OSCT-ND	23.30	173.55	371.89	800	1110.40
	10	2	425	160	0.325	1A	MBRA210LT3OSCT-ND	3.74	28.02	56.04	5,000	131.00/M
	20	1	300	40	0.395	1A	MBRA120LT3OSCT-ND	3.04	21.85	40.97	5,000	97.00/M
	30	1	300	25	0.41	1A	MBRA130LT3OSCT-ND	3.04	21.85	40.97	5,000	83.00/M
SMA	40	1	500	30	0.55	1A	MBRA140T3OSCT-ND	3.04	21.85	40.97	5,000	83.00/M
	40	3	—	100	.45	3A	MBRA340T3OSCT-ND	3.88	29.07	58.14	5,000	136.00/M
	40	1	—	60	0.47	1A	SS14T3OSCT-ND	3.07	21.27	38.34	5,000	74.00/M
	60	1	—	40	0.72	1A	SS16T3OSCT-ND	3.06	21.56	39.20	5,000	83.00/M
	20	1	525	40	0.6	1A	MBRS120T3OSCT-ND	2.92	21.02	39.42	2,500	100.00/M
	30	1	525	40	0.6	1A	MBRS130T3OSCT-ND	2.92	21.02	39.42	2,500	100.00/M
	30	2	250	40	0.395	1A	MBRS130LT3OSCT-ND	2.92	21.02	39.42	2,500	100.00/M
	40	1	500	40	0.6	1A	MBRS140T3OSCT-ND	2.92	21.02	39.42	2,500	100.00/M
	40	1	425	40	0.5	1A	MBRS140LT3OSCT-ND	3.22	23.15	43.40	2,500	109.00/M
SMB	40	2	800	25	0.43	2A	MBRS240LT3OSCT-ND	3.04	22.77	45.54	2,500	129.00/M
	40	2	625	70	0.43	2A	MBRS2040LT3OSCT-ND	3.04	22.77	45.54	2,500	129.00/M
	90	2	1,200	50	0.75	1A	MBRS190T3OSCT-ND	3.27	24.51	49.02	2,500	139.00/M
	100	2	1,200	50	0.75	1A	MBRS1100T3OSCT-ND	3.68	26.50	49.68	2,500	125.00/M
	40	2	—	75	0.50	2A	SS24T3OSCT-ND	1.90	14.60	30.66	2,500	78.00/M
	60	2	—	40	0.51	1A	SS26T3OSCT-ND	5.51	41.31	87.98	2,500	218.00/M
	20	4	2,500	80	0.50	3A	MBRS320T3OSCT-ND	3.36	25.22	53.71	2,500	140.00/M
	30	4	2,500	80	0.50	3A	MBRS330T3OSCT-ND	3.36	25.22	53.71	2,500	140.00/M
SMC	40	4	2,500	80	0.525	3A	MBRS340T3OSCT-ND	3.36	25.22	53.71	2,500	140.00/M
	40	5	—	190	0.50	5A	MBRS540T3OSCT-ND	12.68	106.47	221.81	2,500	152.00/M
	60	4	2,500	80	0.74	3A	MBRS360T3OSCT-ND	3.57	26.81	57.10	2,500	149.00/M
	100	3	—	130	0.79	3A	MBRS3100T3OSCT-ND	5.60	42.00	84.00	2,500	210.00/M

r Tape and Reel Part Number, change CT-ND to TR-ND.

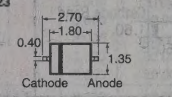
SOT-93



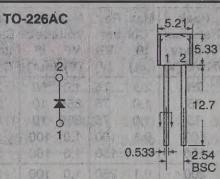
SOD-123



SOD-323



TO-226AC



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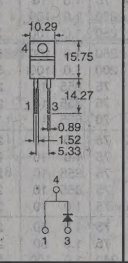
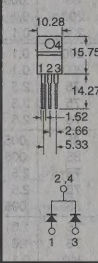
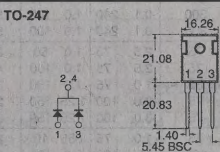


TO-220AB



TO-247



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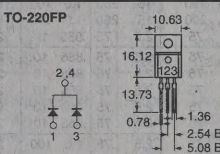

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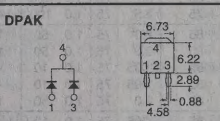

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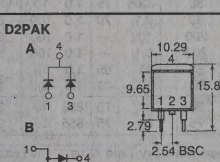

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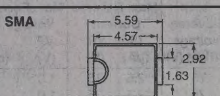

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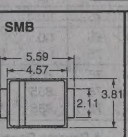
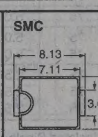


SMC



B

Fig. 1 — SOT-23

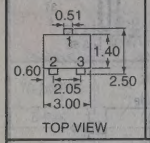


Fig. 2 — SOT-323

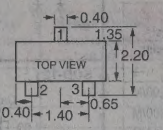


Fig. 3 — SOT-523

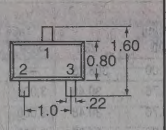


Fig. 4 — SOT-563

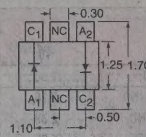


Fig. 5 — SOT-363

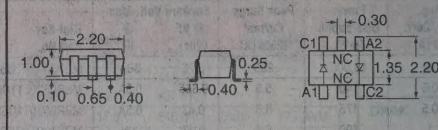


Fig. 6 — DO-35

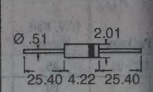


Fig. 7 — MiniMELF

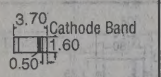


Fig. 8 — SOD-123

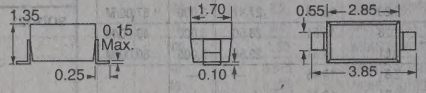


Fig. 9 — SOD-323

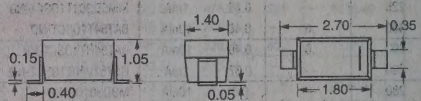


Fig. 10 — SOD-523

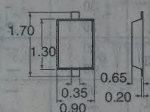


Fig.	Peak Reverse Voltage VRWM (V)	Max. Rev. Current IR (µA)	Max. Rev. Current VR (V)	Max. For. Voltage@ VF (V)	Max. For. Voltage@ IF (mA)	Max. Capac-itance C (pF)	Max. Rev. Recovery Time Trr (nS)	Power Dissi-pation Pd (mW)	Pinning 1	Pinning 2	Pinning 3	Digi-Key Part No.	Cut Tape Pricing 10	Cut Tape Pricing 100	Cut Tape Pricing 1,000	Digi-Key Part No.	Tape & Reel Size	Tape & Reel Pricing
1	75	2.5	75	1.0	50	2.0	4.0	350	A	—	K	BAL99DICT-ND	3.00	20.80	92.00	BAL99DITR-ND	3,000	80.00/M
	75	1.0	75	.855	10	2.0	4.0	350	K	A	—	BAS16DICT-ND	2.25	15.60	69.00	BAS16DITR-ND	3,000	60.00/M
	75	1.0	75	.855	10	2.0	4.0	350	K	A	—	BAS16-FDICT-ND◊ **NEW!**	2.25	15.60	69.00	BAS16-FDITR-ND◊ **NEW!**	3,000	60.00/M
	100	0.1	100	1.0	100	5.0	50	250	K	A	—	BAS19DICT-ND	2.81	19.80	90.00	BAS19DITR-ND	3,000	81.00/M
	150	0.1	150	1.0	100	5.0	50	250	K	A	—	BAS20DICT-ND	2.81	19.80	90.00	BAS20DITR-ND	3,000	81.00/M
	200	0.1	250	1.0	100	5.0	50	250	K	A	—	BAS21DICT-ND	2.81	19.80	90.00	BAS21DITR-ND	3,000	81.00/M
	200	0.1	250	1.0	100	5.0	50	250	K	A	—	BAS21-FDICT-ND◊ **NEW!**	2.81	19.80	90.00	BAS21-FDITR-ND◊ **NEW!**	3,000	81.00/M
	85	.005	75	1.0	10	2.0	3.0§	250	K	A	—	BAS116DICT-ND	3.00	20.80	92.00	BAS116DITR-ND	3,000	80.00/M
	200	0.1	250	1.0	100	5.0	50	350	A	K	K	BAV23ADICT-ND	3.13	22.00	100.00	—	—	—
	200	0.1	250	1.0	100	5.0	50	350	K/K	A	A	BAV23CDICT-ND	3.13	22.00	100.00	BAV23CDITR-ND	3,000	90.00/M
	200	0.1	250	1.0	100	5.0	50	350	K/K	A	A	BAV23C-FDICT-ND◊ **NEW!**	3.13	22.00	100.00	BAV23C-FDITR-ND◊ **NEW!**	3,000	90.00/M
	200	0.1	200	1.0	100	5.0	50	350	—	A	K	BAV23SDICT-ND	3.13	22.00	100.00	BAV23SDITR-ND	3,000	90.00/M
	75	2.5	75	.855	10	2.0	4.0	350	K	A	A	BAV70DICT-ND	2.63	18.20	80.50	BAV70DITR-ND	3,000	70.00/M
	75	2.5	75	.855	10	2.0	4.0	350	K	A	A	BAV70-FDICT-ND◊ **NEW!**	2.63	18.20	80.50	BAV70-FDITR-ND◊ **NEW!**	3,000	70.00/M
	75	2.5	70	.855	10	1.5	6.0	350	K/A	A	K	BAV99DICT-ND	3.00	20.80	92.00	BAV99DITR-ND	3,000	80.00/M
	85	.005	75	1.0	10	2.0	3.0§	250	K/K	A	A	BAV170DICT-ND	3.13	22.00	100.00	BAV170DITR-ND	3,000	90.00/M
	85	.005	75	1.0	10	2.0	3.0§	250	K/A	A	K	BAV199DICT-ND	3.13	22.00	100.00	BAV199DITR-ND	3,000	90.00/M
	75	2.5	75	.855	10	2.0	4.0	350	A	K	K	BAW56DICT-ND	2.81	19.80	90.00	BAW56DITR-ND	3,000	81.00/M
	75	2.5	75	.855	10	2.0	4.0	350	A	K	K	BAW56-FDICT-ND◊ **NEW!**	2.81	19.80	90.00	BAW56-FDITR-ND◊ **NEW!**	3,000	81.00/M
	85	.005	75	1.0	10	3.0	3.0§	250	A	K	K	BAW156DICT-ND	3.13	22.00	100.00	BAW156DITR-ND	3,000	90.00/M
	75	1.0	75	1.0	50	2.0	4.0	350	K	A	—	MMBD914DICT-ND	2.25	15.60	69.00	MMBD914DITR-ND	3,000	60.00/M
	75	1.0	75	1.0	50	2.0	4.0	350	K	A	—	MMBD914-FDICT-ND◊ **NEW!**	2.25	15.60	69.00	MMBD914-FDITR-ND◊ **NEW!**	3,000	60.00/M
	240	0.1	240	1.0	100	5.0	50	350	K/A	A	K	MMBD2004SDICT-ND	3.13	22.00	100.00	MMBD2004SDITR-ND	3,000	90.00/M
	300	0.1	240	1.0	100	5.0	50	350	K/A	A	K	MMBD3004SDICT-ND	3.13	22.00	100.00	MMBD3004SDITR-ND	3,000	90.00/M
	300	0.1	240	1.0	100	5.0	50	350	K/A	A	K	MMBD3004S-FDICT-ND◊ **NEW!**	3.13	22.00	100.00	MMBD3004S-FDITR-ND◊ **NEW!**	3,000	90.00/M
	75	2.5	75	1.0	50	2.0	4.0	350	K	A	—	MMBD4148DICT-ND	2.25	15.60	69.00	MMBD4148DITR-ND	3,000	60.00/M
	75	2.5	75	1.0	100	4.0	4.0	350	K	A	—	MMBD4448DICT-ND	2.25	15.60	69.00	MMBD4448DITR-ND	3,000	60.00/M
	80	1.0	75	1.0	100	3.5	4.0	350	K	A	—	MMBD4448HDICT-ND	2.25	15.60	69.00	MMBD4448HDITR-ND	3,000	60.00/M
	75	3.0	100	1.25	150	2.0	4.0	350	K/A	A	K	MMBD7000DICT-ND	3.00	20.80	92.00	MMBD7000DITR-ND	3,000	80.00/M
	75	3.0	100	1.25	150	2.0	4.0	350	K/A	A	K	MMBD7000-FDICT-ND◊ **NEW!**	3.00	20.80	92.00	MMBD7000-FDITR-ND◊ **NEW!**	3,000	80.00/M
2	75	1.0	75	.855	10	2.0	4.0	200	K	A	—	BAS16WDICT-ND	2.70	18.72	82.80	BAS16WDITR-ND	3,000	72.00/M
	100	15	120	1.0	100	5.0	50	200	K	A	—	BAS19WDICT-ND	3.38	23.76	108.00	BAS19WDITR-ND	3,000	97.00/M
	150	15	200	1.0	100	5.0	50	200	K	A	—	BAS20WDICT-ND	3.38	23.76	108.00	BAS20WDITR-ND	3,000	97.00/M
	200	15	250	1.0	100	5.0	50	200	K	A	—	BAS21WDICT-ND	3.38	23.76	108.00	BAS21WDITR-ND	3,000	97.00/M
	75	2.5	75	.855	10	2.0	4.0	200	K	A	A	BAV70WDICT-ND	3.15	21.84	96.60	—	—	—
	75	2.5	75	.855	10	2.0	4.0	200	K	A	A	BAV70W-FDICT-ND◊ **NEW!**	3.15	21.84	96.60	BAV70W-FDITR-ND◊ **NEW!**	3,000	84.00/M
	75	2.5	75	.855	10	2.0	4.0	200	K/A	A	K	BAV99WDICT-ND	3.00	21.12	96.00	—	—	—
	75	2.5	75	.855	10	2.0	4.0	200	K/A	A	K	BAV99W-FDICT-ND◊ **NEW!**	3.00	21.12	96.00	BAV99W-FDITR-ND◊ **NEW!**	3,000	86.00/M
	75	2.5	75	.855	10	2.0	4.0	200	A	K	K	BAW56WDICT-ND	3.38	23.76	108.00	BAW56WDITR-ND	3,000	97.00/M
	75	2.5	75	.855	10	2.0	4.0	200	A	K	K	BAW56W-FDICT-ND◊ **NEW!**	3.38	23.76	108.00	BAW56W-FDITR-ND◊ **NEW!**	3,000	97.00/M
	75	2.5	75	1.0	100	2.0	4.0	200	K	A	—	MMBD4148WDICT-ND	3.30	22.88	101.20	MMBD4148WDITR-ND	3,000	88.00/M
	80	50	75	1.0	100	3.5	4.0	200	K	A	—	MMBD4448HWDICT-ND	3.30	22.88	101.20	MMBD4448HWDITR-ND	3,000	88.00/M
	75	2.5	75	1.0	100	4.0	4.0	200	K	A	—	MMBD4448WDICT-ND	3.30	22.88	101.20	MMBD4448WDITR-ND	3,000	88.00/M
3	85	2.0	75	1.0	50	1.5	4.0	150	K/A	A	A	BAV70TDICT-ND	2.63	18.20	80.50	BAV70TDITR-ND	3,000	70.00/M
	85	2.0	75	1.0	50	1.5	4.0	150	A/K	A	K	BAV99TDICT-ND	3.00	20.80	92.00	BAV99TDITR-ND	3,000	80.00/M
	85	.005	75	1.0	10	—	3.0§	150	K	A	A	BAV170TDICT-ND	3.13	22.00	100.00	BAV170TDITR-ND	3,000	90.00/M
	85	.005	75	1.0	10	—	3.0§	150	A/K	A	K	BAV199TDICT-ND	3.13	22.00	100.00	BAV199TDITR-ND	3,000	90.00/M
	85	2.0	75	1.0	50	1.5	4.0	150	A	K	K	BAW56TDICT-ND	2.81	19.80	90.00	BAW56TDITR-ND	3,000	81.00/M
	85	.005	75	1.0	10	—	3.0§	150	A	K	K	BAW156TDICT-ND	3.13	22.00	100.00	BAW156TDITR-ND	3,000	90.00/M
	80	0.1	70	1.0	100	3.5	4.0	150	A	K	K	MMBD4448HTADICT-ND	2.63	18.20	80.50	MMBD4448HTADITR-ND	3,000	70.00/M
	200	100	—	1.0	100	5.0	50	150	K	A	—	BAS21TDICT-ND	3.13	22.00	100.00	BAS21TDITR-ND	3,000	90.00/M
	200	0.1	—	1.0	100	5.0	50	150	K	A	—	BAS21T-FDICT-ND◊ **NEW!**	3.13	22.00	100.00	BAS21T-FDITR-ND◊ **NEW!**	3,000	90.00/M
	85	85	85	1.0	10	—	3.0§	150	K	A	—	BAS116TDICT-ND	2.81	19.80	90.00	BAS116TDITR-ND	3,000	81.00/M
	80	50	75	1.0	100	3.5	4.0	150	K	A	—	MMBD4448HTDICT-ND	2.63	18.20	80.50	MMBD4448HTDITR-ND	3,000	70.00/M
4	80	50	75	.855	10	3.5	4.0	150	—	—	—	MMBD4448VDICT-ND	3.00	21.60	108.00	MMBD4448VDITR-ND	3,000	102.00/M
	75	50	75	.855	10	2.0	4.0	150	—	—	—	BAS16VDICT-ND	3.00	21.60	108.00	BAS16VDITR-ND	3,000	102.00/M

§ Reverse Recovery Time @ µs ◊ Lead Free/RoHS Compliant

Fig.	Peak Reverse Voltage VRWM (V)	Max. Reverse Current IR (µA)	Max. Reverse Current VR (V)	Max. Forward Voltage @ VF (V)	Max. Forward Voltage @ IF (mA)	Max. Capac-itance C (pF)	Max. Reverse Recovery Time Trr (nS)	Power Dissi-pation Pd (mW)	Digi-Key Part No.	Cut Tape Pricing 10	Cut Tape Pricing 100	Cut Tape Pricing 1,000	Digi-Key Part No.	Tape & Reel Size	Tape & Reel Pricing
5	75	2.5	75	1.0	50	4.0	4.0	200	MMBD4448DWDICT-ND†	3.13	22.00	100.00	MMBD4448DWDITR-ND†	3,000	90.00/M
	75	2.5	75	1.0	50	4.0	4.0	200	MMBD4448DW-FDICT-ND†◊ **NEW!**	3.13	22.00	100.00	MMBD4448DW-FDITR-ND†◊ **NEW!**	3,000	90.00/M
6	75	5.0	75	1.0	10	4.0	4.0	500	1N4148DICT-ND	1.20	6.75	24.38	1N4148DITR-ND	10,000	15.00/M
7	75	5.0	75	1.0	10	4.0	4.0	500	LL4148DICT-ND	2.00	13.00	54.00	LL4148DITR-ND	10,000	34.00/M
	75	5.0	75	1.0	100	4.0	4.0	500	LL4448DICT-ND	2.00	13.00	54.00	LL4448DITR-ND	2,500	47.00/M
8	75	2.5	75	.855	10	2.0	4.0	400	1N4148WDICT-ND	3.00	20.80	92.00	1N4148WDITR-ND	3,000	80.00/M
	75	2.5	75	.855	10	4.0	4.0	400	1N4448WDICT-ND	3.00	20.80	92.00	—	—	—
	75	2.5	75	.855	10	4.0	4.0	400	1N4448W-FDICT-ND◊ **NEW!**	3.00	20.80	92.00	1N4448W-FDITR-ND◊ **NEW!**	3,000	80.00/M

† Dual Isolated Single § Reverse Recovery Time @ µs ◊ Lead Free/RoHS Compliant

(Continue

ODES High Speed Switching Diodes (Cont.)

Peak Reverse Voltage VRWM (V)	Max. Reverse Current IR (µA)	VR (V)	Max. Forward Voltage @ VF (V)	IF (mA)	Max. Capac-itance C (pF)	Max. Reverse Recovery Time Trr (nS)	Power Dissi-pation Pd (mW)	Digi-Key Part No.	Cut Tape Pricing 10	100	1,000	Digi-Key Part No.	Tape & Reel Size	Pricing
75	1.0	75	1.0	50	2.0	4.0	400	BAV16WDICT-ND	3.00	20.80	—	—	—	—
75	1.0	75	1.0	50	2.0	4.0	400	BAV16W-FDICT-ND◊ **NEW!**	3.00	20.80	92.00	BAV16W-FDITR-ND◊ **NEW!**	3,000	80.00/M
100	0.1	120	1.0	100	5.0	50	250	BAV19WDICT-ND	3.13	22.00	100.00	BAV19WDITR-ND	3,000	90.00/M
100	0.1	120	1.0	100	5.0	50	250	BAV19W-FDICT-ND◊ **NEW!**	3.13	22.00	100.00	BAV19W-FDITR-ND◊ **NEW!**	3,000	90.00/M
150	0.1	150	1.0	100	5.0	50	250	BAV20WDICT-ND	3.13	22.00	100.00	BAV20WDITR-ND	3,000	90.00/M
200	0.1	250	1.0	100	5.0	50	250	BAV21WDICT-ND	3.13	22.00	100.00	BAV21WDITR-ND	3,000	90.00/M
200	0.1	250	1.0	100	5.0	50	250	BAV21W-FDICT-ND◊ **NEW!**	3.13	22.00	100.00	BAV21W-FDITR-ND◊ **NEW!**	3,000	90.00/M
130	0.005	75	1.0	10	5.0	3.0§	250	BAV116WDICT-ND	2.81	19.80	90.00	BAV116WDITR-ND	3,000	81.00/M
130	0.005	75	1.0	10	5.0	3.0§	250	BAV116W-FDICT-ND◊ **NEW!**	2.81	19.80	90.00	BAV116W-FDITR-ND◊ **NEW!**	3,000	81.00/M
300	100	240	1.0	100	5.0	50	400	BAV3004WDICT-ND	3.60	27.00	144.00	BAV3004WDITR-ND	3,000	135.00/M
80	5.0	75	.855	10	3.5	4.0	200	1N4448HWSDICT-ND	3.00	20.80	92.00	1N4448HWSDITR-ND	3,000	80.00/M
75	1.0	75	.855	10	2.0	4.0	200	1N4148WSDICT-ND	3.00	20.80	92.00	1N4148WSDITR-ND	3,000	80.00/M
75	2.5	75	1.0	100	4.0	4.0	200	1N4448WSDICT-ND	3.00	20.80	92.00	1N4448WSDITR-ND	3,000	80.00/M
75	1.0	75	1.0	50	2.0	4.0	200	BAV16WSDICT-ND	3.00	20.80	92.00	BAV16WSDITR-ND	3,000	80.00/M
75	1.0	75	1.0	50	2.0	4.0	200	BAV16WS-FDICT-ND◊ **NEW!**	3.00	20.80	92.00	BAV16WS-FDITR-ND◊ **NEW!**	3,000	80.00/M
100	0.1	120	1.0	100	5.0	50	200	BAV19WSDICT-ND	3.00	21.60	108.00	BAV19WSDITR-ND	3,000	102.00/M
100	0.1	120	1.0	100	5.0	50	200	BAV19WS-FDICT-ND◊ **NEW!**	3.00	21.60	108.00	BAV19WS-FDITR-ND◊ **NEW!**	3,000	102.00/M
150	0.1	150	1.0	100	5.0	50	200	BAV20WSDICT-ND	3.00	21.60	108.00	BAV20WSDITR-ND	3,000	102.00/M
150	0.1	150	1.0	100	5.0	50	200	BAV20WS-FDICT-ND◊ **NEW!**	3.00	21.60	108.00	BAV20WS-FDITR-ND◊ **NEW!**	3,000	102.00/M
200	0.1	250	1.0	100	5.0	50	200	BAV21WS-FDICT-ND◊ **NEW!**	3.00	21.60	108.00	BAV21WS-FDITR-ND◊ **NEW!**	3,000	102.00/M
80	0.1	80	1.0	100	3.0	4.0	150	1N4448HWTDICT-ND	2.81	19.80	90.00	—	—	—
80	0.1	80	1.0	100	3.0	4.0	150	1N4448HWT-FDICT-ND◊ **NEW!**	2.81	19.80	90.00	1N4448HWT-FDITR-ND◊ **NEW!**	3,000	81.00/M
80	1	80	1.0	50	2.0	4.0	150	1N4148WTDICT-ND	2.81	19.80	90.00	1N4148WTDITR-ND	3,000	81.00/M

al Isolated Single § Reverse Recovery Time @ µs ◊ Lead Free/RoHS Compliant

tra Fast Switching Rectifiers

Operating Temperature: -65°C ~ 150°C

g. 1 — DO-41

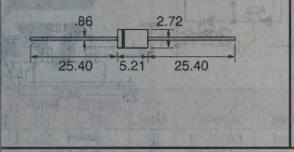


Fig. 2 — SMA

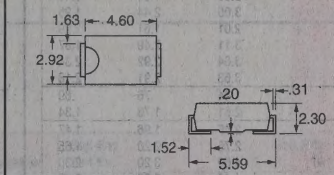


Fig. 3 — SMB

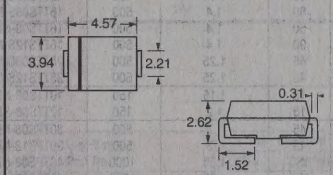
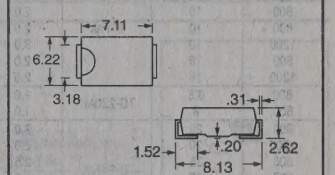


Fig. 4 — SMC

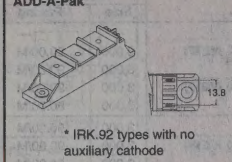


Package	Maximum Average Rectified Current (A)	Maximum Peak Reverse Voltage (V)	Maximum Surge Current 8.3ms (A)	Maximum Reverse Current @ 25°C (µA)	Maximum Peak Forward Voltage (V)	Maximum Reverse Recovery Time (nS)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Size	Pricing
		50	30	5.0	1.0	50	UF1001DICT-ND	.45	.31	.22	UF1001DITR-ND	5,000	74.00/M
		100	30	5.0	1.0	50	UF1002DICT-ND	.39	.29	.21	UF1002DITR-ND	5,000	78.00/M
		200	30	5.0	1.0	50	UF1003DICT-ND	.43	.32	.23	UF1003DITR-ND	5,000	87.00/M
DO41	1.0	400	30	5.0	1.3	50	UF1004DICT-ND	.50	.37	.26	UF1004DITR-ND	5,000	100.00/M
		600	30	5.0	1.7	75	UF1005DICT-ND	.44	.34	.25	UF1005DITR-ND	5,000	109.00/M
		800	30	5.0	1.7	75	UF1006DICT-ND	.52	.40	.29	UF1006DITR-ND	5,000	128.00/M
		1000	30	5.0	1.7	75	UF1007DICT-ND	.48	.38	.29	UF1007DITR-ND	5,000	133.00/M
		50	30	5.0	0.9	25	ES1ADICT-ND	.68	.54	.41	—	—	—
		50	30	5.0	0.9	25	ES1A-FDICT-ND◊ **NEW!**	.68	.54	.41	ES1A-FDITR-ND◊ **NEW!**	5,000	189.00/M
		100	30	2.0	0.9	25	ES1BDICT-ND	.70	.56	.42	ES1BDITR-ND	5,000	196.00/M
		150	30	5.0	0.98	20	ES1CDICT-ND	.73	.58	.44	ES1CDITR-ND	5,000	203.00/M
		200	30	2.0	0.9	25	ES1DDICT-ND	.60	.48	.36	ES1DDITR-ND	5,000	191.00/M
	1.0	50	30	5.0	1.0	50	US1ADICT-ND	.55	.44	.33	US1ADITR-ND	5,000	154.00/M
		100	30	5.0	1.0	50	US1BDICT-ND	.60	.48	.36	US1BDITR-ND	5,000	168.00/M
SMA		200	30	5.0	1.0	50	US1DDICT-ND	.65	.52	.39	US1DDITR-ND	5,000	182.00/M
		400	30	5.0	1.3	50	US1GDICT-ND	.70	.56	.42	US1GDITR-ND	5,000	196.00/M
		600	30	5.0	1.7	75	US1JDICT-ND	.60	.48	.36	US1JDITR-ND	5,000	191.00/M
		800	30	5.0	1.7	75	US1KDICT-ND	.64	.52	.39	—	—	—
		1000	30	5.0	1.7	75	US1MDICT-ND	.68	.55	.41	US1MDITR-ND	5,000	217.00/M
		50	50	5.0	0.92	25	ES2AADICT-ND	.64	.52	.39	ES2AADITR-ND	5,000	204.00/M
	2.0	100	50	5.0	0.92	25	ES2BADICT-ND	.68	.55	.41	—	—	—
		200	50	5.0	0.92	25	ES2DADICT-ND	.76	.61	.46	ES2DADITR-ND	5,000	242.00/M
		200	50	5.0	0.92	25	ES2DA-FDICT-ND◊ **NEW!**	.86	.69	.52	ES2DA-FDITR-ND◊ **NEW!**	5,000	257.00/M
		200	40	2.0	0.875	25	MURS120DICT-ND	.60	.48	.36	MURS120DITR-ND	3,000	200.00/M
	1.0	400	35	5.0	1.25	50	MURS140DICT-ND	.60	.48	.36	MURS140DITR-ND	3,000	200.00/M
		600	35	5.0	1.25	50	MURS160DICT-ND	.64	.52	.39	MURS160DITR-ND	3,000	213.00/M
		50	50	5.0	0.9	25	ES2ADICT-ND	.64	.52	.39	ES2ADITR-ND	3,000	213.00/M
	2.0	100	50	5.0	0.9	25	ES2BDICT-ND	.68	.55	.41	—	—	—
SMB		150	50	5.0	0.9	25	ES2CDICT-ND	.72	.58	.44	ES2CDITR-ND	3,000	239.00/M
		200	50	5.0	0.9	25	ES2DDICT-ND	.76	.61	.46	—	—	—
		50	100	10	0.9	25	ES3ABDICT-ND	.89	.71	.54	ES3ABDITR-ND	3,000	351.00/M
	3.0	100	100	10	0.9	25	ES3BBDICT-ND	.84	.67	.51	ES3BBDITR-ND	3,000	332.00/M
		150	100	10	0.9	25	ES3CBDICT-ND	.89	.71	.54	—	—	—
		200	100	10	0.9	25	ES3DBDICT-ND	1.06	.84	.64	ES3DBDITR-ND	3,000	416.00/M
		50	100	10	0.9	25	ES3ADICT-ND	.89	.71	.54	ES3ADITR-ND	3,000	351.00/M
		100	100	10	0.9	25	ES3BDICT-ND	.84	.67	.51	—	—	—
SMC	3.0	100	100	10	0.9	25	ES3B-FDICT-ND◊ **NEW!**	.96	.83	.64	ES3B-FDITR-ND◊ **NEW!**	3,000	339.00/M
		150	100	10	0.9	25	ES3CDICT-ND	.89	.71	.54	—	—	—
		200	100	10	0.9	25	ES3DDICT-ND	1.06	.84	.64	ES3DDITR-ND	3,000	416.00/M

ad Free/RoHS Compliant

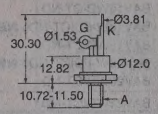
SCRs

ADD-A-Pak



* IRK.92 types with no auxiliary cathode

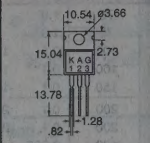
TO-208AA



TO-65

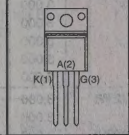
D²Pak

TO-220AC



TO-247AC

TO-220 FULLPak



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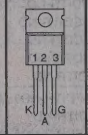

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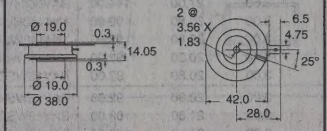

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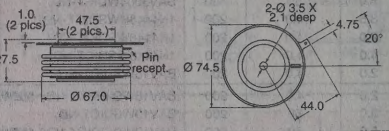
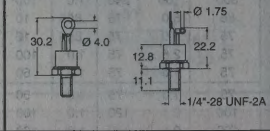
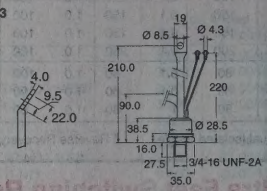


TO-48

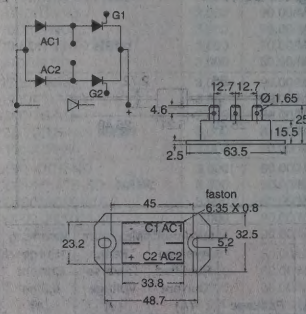


V_{DRM} and Volts Minimum	I_T (av) Amps Max.@ 85°C	Package	V_{GT} Volts Max.	I_{GT} mA Max.	V_{TM} Comp.(a) Volts Max.	DV/DT V/us Max.	Digi-Key Part No.	Price Each 1	10	100
800	95	ADD-A-Pak	2.5	150	1.58	500	IRKU91/08A-ND	61.21	48.97	42.85
1200	95		2.5	150	1.58	500	IRKH91/12A-ND	60.94	48.75	39.00
1200	95		2.5	150	1.58	500	IRKT91/12A-ND	52.74	50.20	40.16
1200	95		2.5	150	1.58	500	IRKU91/12A-ND	61.28	49.02	44.12
1600	95		2.5	150	1.58	500	IRKT92/16A-ND*	51.45	42.29	37.50
25	16	TO-208AA	2.0	40	2	100	2N681-ND	11.83	9.46	7.10
1000	16		2.0	60	1.75	300	16RIA100-ND	21.92	17.54	11.67
600	50	TO-65	2.5	100	1.6	500	50RIA60-ND	22.28	17.82	11.85
1200	50		2.5	100	1.6	500	50RIA120-ND	31.49	25.19	16.76
800	6.5	D²Pak	1.0	15	1.15	150	10TTS08S-ND	1.65	.87	.79
800	6.5		1.0	15	1.15	150	12TTS08S-ND	2.63	1.84	1.40
800	10		2.0	60	1.4	500	16TTS08S-ND	3.05	2.44	1.95
800	10		2.0	60	1.4	500	16TTS08-ND	2.01	1.61	1.29
1200	10		3.0	90	1.4	500	16TTS12S-ND	3.11	2.49	1.87
800	16		2.0	45	1.25	500	25TTS08S-ND	3.64	2.92	2.34
1200	16		2.0	45	1.25	500	25TTS12S-ND	3.63	2.91	2.18
800	6.5	TO-220AC	1.0	15	1.15	150	10TTS08-ND	1.44	.76	.69
800	8		1.0	15	1.2	150	12TTS08-ND	2.51	1.76	1.34
800	20	TO-247AC	2.0	45	1.3	500	30TPS08-ND	2.45	1.96	1.47
1200	20		2.0	45	1.3	500	30TPS12-ND	2.75	2.20	1.65
800	35		2.5	150	1.85	1000	40TPS08-ND	4.00	3.20	2.30
800	35		2.5	150	1.85	1000	40TPS08A-ND	4.48	3.20	2.60
1200	35		2.5	150	1.85	1000	40TPS12-ND	4.87	3.90	2.47
1200	35		2.5	150	1.85	1000	40TPS12A-ND	6.05	4.18	3.52
800	10	TO-220 FULLPak	3.0	90	1.4	500	16TTS08FP-ND	2.34	1.88	1.41
800	16		2.0	45	1.25	500	25TTS08FP-ND	3.94	2.72	2.17
1200	16		2.0	45	1.25	500	25TTS12FP-ND	3.82	3.06	2.30
1200	10	TO-220AB	2.0	60	1.4	500	16TTS12-ND	1.92	1.54	1.39
800	16		2.0	45	1.25	500	25TTS08-ND	3.03	2.42	2.19
1200	16		2.0	45	1.25	500	25TTS12-ND	2.08	1.67	1.42
800	350	A-PUK	3.0	150	1.96	500	ST180C08C0-ND	90.87	72.70	45.45
800	410		3.0	150	1.69	500	ST230C08C0-ND	87.67	70.14	43.84
2000	1650	K-PUK	3.0	200	1.73	500	ST1200C20K0-ND	437.25	349.80	218.64
100	16	TO-48	2.0	40	2	100 Typical	2N683-ND	11.61	9.29	6.17
200	16		2.0	60	1.75	100	16RIA20-ND	13.64	10.92	7.26
200	16		2.0	40	2	100 Typical	2N685-ND	12.21	9.77	6.50
800	180	TO-93	2.5	150	1.35	500	180RKI80-ND	91.41	73.13	46.44
600	280		3.0	150	1.28	500	ST280S06P0V-ND	113.85	91.08	56.94
2000	200		3.0	150	1.75	500	ST180S20P0-ND	175.58	131.69	109.74
1200	25	PACE-Pak	2.0	60	1.35	200	P105W-ND	43.91	34.47	29.86
1200	40		2.0	60	1.4	200	P405W-ND	48.31	37.93	32.85
1200	70	SUPER-247	1.5	100	1.4	500	70TPS12-ND	9.66	7.35	6.09
1600	70		1.5	100	1.4	500	70TPS16-ND	8.05	6.13	5.08

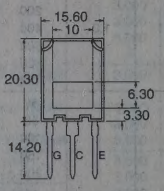
TO-93



PACE-Pak



SUPER-247



SCRs

Fig.	V_{DRM} (V)	$I_{T(RMS)}$ (A)	I_{GT}	Package	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Size	Pricing	STMicroelectronics Part No.
1	200	.25	200µA	SOT-23	497-2527-1-ND	.90	.72	.54	497-2527-2-ND	3,000	285.00/M	P0102BL 5AA4
2	400	0.8	200µA	SOT-223	497-2523-1-ND	.72	.58	.44	497-2523-2-ND	1,000	248.00	P0102DN 5AA4
	600	1.25	200µA	SOT-223	497-2532-1-ND	.90	.72	.54	497-2532-2-ND	1,000	310.00	X0202MN 5BA4
3A	50	8	15mA	TO-220AB	497-3277-5-ND◊	1.24	1.08	.83	—	—	—	TYN058RG
	200	8	15mA	TO-220AB	497-4483-5-ND‡ *NEW!*	1.46	1.27	.98	—	—	—	TYN208RG
	200	25	40mA	TO-220AB	497-3279-5-ND◊	1.61	1.40	1.08	—	—	—	TYN225RG
	400	8	25mA	TO-220AB	497-4484-5-ND‡ *NEW!*	1.46	1.27	.98	—	—	—	TYN408GRG
	600	6	15mA	TO-220AB	497-4485-5-ND‡ *NEW!*	1.13	.98	.75	—	—	—	TYN606RG
	600	8	200µA	TO-220AB	497-2551-5-ND‡	1.43	1.24	.95	—	—	—	TS820-600T
	600	10	15mA	TO-220AB	497-3280-5-ND◊	1.28	1.11	.85	—	—	—	TYN610RG
	600	12	30mA	TO-220AB	497-2418-5-ND◊	1.50	1.30	1.00	—	—	—	TYN612RG
	600	16	25mA	TO-220AB	497-2420-5-ND◊	1.50	1.25	1.05	—	—	—	TYN616RG
	600	40	35mA	TO-220AB	497-2422-5-ND◊	2.10	1.75	1.47	—	—	—	TYN640RG
	800	4	15mA	TO-220AB	497-4488-5-ND‡ *NEW!*	1.46	1.27	.98	—	—	—	TYN804RG
	800	10	15mA	TO-220AB	497-4489-5-ND‡ *NEW!*	1.46	1.27	.98	—	—	—	TYN810RG
	800	12	15mA	TO-220AB	497-4490-5-ND‡ *NEW!*	1.46	1.27	.98	—	—	—	TYN812RG
	800	16	25mA	TO-220AB	497-4491-5-ND‡ *NEW!*	1.50	1.30	1.00	—	—	—	TYN816RG

‡ Tube ◊ Bulk † Ammo Pack

Fig. 1 — SOT-23

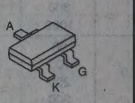


Fig. 2 — SOT-223

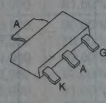
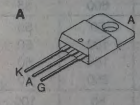


Fig. 3 — TO-220AB



B

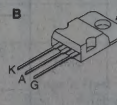


Fig. 4 — TO-92

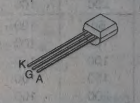
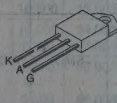


Fig. 5 — TOP3



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SCRs (Cont.)

Fig.	VDRM (V)	IT(RMS) (A)	IGT	Package	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Size	Pricing	STMicroelectronics Part No.
	800	25	40mA	TO-220AB	497-3793-5-ND‡	2.16	1.80	1.52	—	—	—	TYN825RG
	800	40	35mA	TO-220AB	497-3792-5-ND‡	3.29	2.87	2.14	—	—	—	TYN840RG
3A	1000	6	15mA	TO-220AB	497-4481-5-ND‡ **NEW!**	1.31	1.14	.88	—	—	—	TYN1006RG
	1000	8	15mA	TO-220AB	497-4482-5-ND‡ **NEW!**	1.43	1.24	.95	—	—	—	TYN1008RG
	1200	25	40mA	TO-220AB	497-3278-5-ND◊	2.70	2.25	1.89	—	—	—	TYN1225RG
3B	600	12	5mA	TO-220AB	497-4487-5-ND‡ **NEW!**	1.46	1.27	.98	—	—	—	TYN612MRG
	400	0.8	1µA	TO-92	497-3713-1-ND	.52	.40	.29	497-3713-2-ND	2,000	144.00/M	P0115DA 5AL3
	600	0.8	200µA	TO-92	497-3321-1-ND	.68	.54	.41	497-3321-2-ND	2,000	233.00/M	X00602MA 5AL2
	600	0.8	200µA	TO-92	497-4504-1-ND **NEW!**	.52	.40	.29	497-4504-3-ND† **NEW!**	2,000	144.00/M	X00602MA 2AL2
4	600	0.8	200µA	TO-92	497-4281-ND◊ **NEW!**	.46	.35	.26	—	—	—	P0102MA1AA3
	600	0.8	25µA	TO-92	497-4282-1-ND **NEW!**	.46	.35	.26	497-4282-3-ND† **NEW!**	2,000	126.00/M	P0111MA2AL3
	600	0.8	5µA	TO-92	497-4283-1-ND **NEW!**	.46	.35	.26	497-4283-2-ND **NEW!**	2,000	126.00/M	P0118MA 5AL3
	600	1.25	200µA	TO-92	497-2421-ND◊	.65	.52	.39	—	—	—	X020MA 1BA2
	200	30	50mA	TOP3	497-4185-5-ND‡ **NEW!**	5.81	5.06	3.77	—	—	—	BTW68-200RG
	200	50	80mA	TOP3	497-4186-5-ND‡ **NEW!**	5.51	4.80	3.57	—	—	—	BTW69-200RG
	600	30	50mA	TOP3	497-3804-5-ND‡	6.59	5.74	4.27	—	—	—	BTW68-600RG
5	600	50	80mA	TOP3	497-2435-5-ND◊	5.40	4.70	3.50	—	—	—	BTW69-600RG
	800	30	80mA	TOP3	497-3805-5-ND‡	6.70	5.83	4.34	—	—	—	BTW68-800RG
	1000	30	50mA	TOP3	497-4184-5-ND‡ **NEW!**	5.81	5.06	3.77	—	—	—	BTW68-1000RG
	1200	50	80mA	TOP3	497-2434-5-ND◊	8.07	7.38	5.83	—	—	—	BTW69-1200RG
6	600	4	200µA	DPAK	497-3276-1-ND	1.39	1.21	.93	497-3276-2-ND	2,500	492.00/M	TS420-600B-TR
7	1000	16	25mA	D2PAK	497-3740-1-ND	1.95	1.63	1.37	497-3740-2-ND	1,000	878.00	TN1625-1000G-TR
8	600	4	200µA	TO202-3	497-3322-ND◊	1.16	1.01	.78	—	—	—	X0402MF 1AA2
	600	4	200µA	TO202-3	497-3322-5-ND‡ **NEW!**	.68	.54	.41	—	—	—	X0402MF 0AA2
9	800	20	25mA	TO-220	497-3562-5-ND◊	2.31	1.93	1.62	—	—	—	TXN692RG
	400	8	25mA	TO-220AB	497-4480-5-ND‡ **NEW!**	1.58	1.37	1.05	—	—	—	TXN408GRG
10	600	12	15mA	TO-220AB	497-3561-5-ND‡	1.65	1.38	1.16	—	—	—	TXN612RG
	1000	12	15mA	TO-220AB	497-4479-5-ND‡ **NEW!**	2.25	1.88	1.58	—	—	—	TXN1012RG
11	600	12	5mA	TO-220FPAB	497-4486-5-ND‡ **NEW!**	1.13	.98	.75	—	—	—	TYN612MFP
12	800	4	200µA	TO202-1	497-4506-ND◊ **NEW!**	.72	.58	.44	—	—	—	X0402NE 1AA2

Tube ◊ Bulk † Ammo Pack

Fig. 6 — DPAK

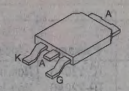


Fig. 7 — D²PAK

Fig. 8 — TO202-3

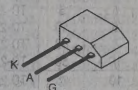


Fig. 9 — TO-220

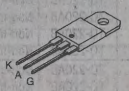


Fig. 10 — ***NEW!*** TO-220AB Insulated

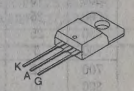


Fig. 11 — ***NEW!*** TO-220FPAB

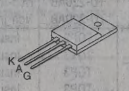
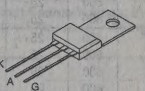


Fig. 12 — ***NEW!*** TO202-1



B

Triacs

Fig.	VDRM (V)	IT(RMS) (A)	IGT (mA)	Package	Insulation	Digi-Key Part No.	Bulk Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Size	Pricing	STMicroelectronics Part No.
	400	6	10	TO-220AB	Insulated	497-3382-5-ND‡	1.31	1.14	.88	—	—	—	BTA06-400ARG
	400	6	50	TO-220AB	Insulated	497-2390-5-ND	1.31	1.14	.88	—	—	—	BTA06-400BRG
	400	6	25	TO-220AB	Insulated	497-3383-5-ND‡	1.50	1.30	1.00	—	—	—	BTA06-400CRG
	400	8	50	TO-220AB	Insulated	497-2391-5-ND	1.24	1.08	.83	—	—	—	BTA08-400BRG
	400	10	50	TO-220AB	Insulated	497-2400-5-ND	1.58	1.37	1.05	—	—	—	BTA10-400BRG
	400	16	50	TO-220AB	Insulated	497-2398-5-ND	1.65	1.38	1.16	—	—	—	BTA16-400BRG
	600	6	10	TO-220AB	Insulated	497-3384-5-ND‡	1.31	1.14	.88	—	—	—	BTA06-600ARG
	600	6	50	TO-220AB	Insulated	497-3117-5-ND	1.31	1.14	.88	—	—	—	BTA06-600BWRG
	600	6	35	TO-220AB	Insulated	497-3385-5-ND‡	1.61	1.40	1.08	—	—	—	BTA06-600CWRG
	600	6	10	TO-220AB	Insulated	497-3118-5-ND	1.61	1.40	1.08	—	—	—	BTA06-600SWRG
	600	6	5	TO-220AB	Insulated	497-3119-5-ND‡	1.61	1.40	1.08	—	—	—	BTA06-600TRG
	600	6	5	TO-220AB	Insulated	497-3386-5-ND‡	1.31	1.14	.88	—	—	—	BTA06-600TWRG
	600	8	50	TO-220AB	Insulated	497-2410-5-ND	1.50	1.30	1.00	—	—	—	BTA08-600BWRG
	600	8	5	TO-220AB	Insulated	497-3387-5-ND‡	1.73	1.50	1.15	—	—	—	BTA08-600TWRG
	600	8	5	TO-220AB	Insulated	497-3748-5-ND‡	1.73	1.50	1.15	—	—	—	BTA08-600CWRG
	600	10	50	TO-220AB	Insulated	497-2389-5-ND	1.69	1.47	1.13	—	—	—	BTA10-600BRG
	600	10	50	TO-220AB	Insulated	497-3120-5-ND	1.50	1.25	1.05	—	—	—	BTA10-600BWRG
	600	12	50	TO-220AB	Insulated	497-2388-5-ND	1.59	1.33	1.12	—	—	—	BTA12-600BRG
	600	12	50	TO-220AB	Insulated	497-2396-ND	1.65	1.43	1.10	—	—	—	BTA12-600BW
	600	12	50	TO-220AB	Insulated	497-3121-5-ND‡	1.56	1.30	1.10	—	—	—	BTA12-600BWRG
	600	16	50	TO-220AB	Insulated	497-2397-5-ND	1.59	1.33	1.12	—	—	—	BTA16-600BRG
	600	16	50	TO-220AB	Insulated	497-3122-5-ND‡	1.80	1.50	1.26	—	—	—	BTA16-600BWRG
	600	16	35	TO-220AB	Insulated	497-2415-5-ND	1.57	1.36	1.05	—	—	—	BTA16-600CWRG
	600	16	25	TO-220AB	Insulated	497-3388-5-ND‡	1.80	1.50	1.26	—	—	—	BTA16-600CRG
	600	16	10	TO-220AB	Insulated	497-3389-5-ND‡	1.80	1.50	1.26	—	—	—	BTA16-600SWRG
1	600	20	35	TO-220AB	Insulated	497-3390-5-ND‡	1.98	1.65	1.39	—	—	—	BTA20-600CWRG
	600	25	50	TO-220AB	Insulated	497-2423-ND	2.25	1.88	1.58	—	—	—	BTA24-600BW
	600	25	50	TO-220AB	Insulated	497-3123-5-ND‡	2.25	1.88	1.58	—	—	—	BTA24-600BWRG
	600	25	35	TO-220AB	Insulated	497-2419-ND	2.19	1.83	1.54	—	—	—	BTA24-600CW
	600	25	35	TO-220AB	Insulated	497-3124-5-ND‡	2.70	2.25	1.89	—	—	—	BTA24-600CWRG
	700	4	10	TO-220AB	Insulated	497-4152-5-ND‡ **NEW!**	1.58	1.37	1.05	—	—	—	BTA04-700SRG
	700	4	5	TO-220AB	Insulated	497-4153-5-ND‡ **NEW!**	1.05	.91	.70	—	—	—	BTA04-700TRG
	700	8	50	TO-220AB	Insulated	497-4155-5-ND‡ **NEW!**	1.58	1.37	1.05	—	—	—	BTA08-700BRG
	700	8	25	TO-220AB	Insulated	497-4156-5-ND‡ **NEW!**	1.58	1.37	1.05	—	—	—	BTA08-700CRG
	700	8	5	TO-220AB	Insulated	497-4157-5-ND‡ **NEW!**	1.61	1.40	1.08	—	—	—	BTA08-700TWRG
	700	10	50	TO-220AB	Insulated	497-4158-5-ND‡ **NEW!**	1.50	1.30	1.00	—	—	—	BTA10-700BRG
	700	10	35	TO-220AB	Insulated	497-4159-5-ND‡ **NEW!**	1.50	1.30	1.00	—	—	—	BTA10-700CWRG
	700	12	50	TO-220AB	Insulated	497-4161-5-ND‡ **NEW!**	1.69	1.47	1.13	—	—	—	BTA12-700BRG
	700	16	50	TO-220AB	Insulated	497-4163-5-ND‡ **NEW!**	1.80	1.56	1.20	—	—	—	BTA16-700BRG
	700	16	50	TO-220AB	Insulated	497-4164-5-ND‡ **NEW!**	1.80	1.56	1.20	—	—	—	BTA16-700BWRG
	700	16	35	TO-220AB	Insulated	497-4165-5-ND‡ **NEW!**	1.80	1.56	1.20	—	—	—	BTA16-700CWRG
	700	20	50	TO-220AB	Insulated	497-4167-5-ND‡ **NEW!**	1.62	1.35	1.14	—	—	—	BTA20-700BWRG
	700	20	35	TO-220AB	Insulated	497-4168-5-ND‡ **NEW!**	1.62	1.35	1.14	—	—	—	BTA20-700CWRG
	800	6	25	TO-220AB	Insulated	497-4154-5-ND‡ **NEW!**	1.80	1.56	1.20	—	—	—	BTA06-800CRG
	800	10	50	TO-220AB	Insulated	497-2409-5-ND	1.64	1.37	1.15	—	—	—	BTA10-800BWRG
	800	10	35	TO-220AB	Insulated	497-4160-5-ND‡ **NEW!**	1.62	1.35	1.14	—	—	—	BTA10-800CWRG
	800	12	50	TO-220AB	Insulated	497-4162-5-ND‡ **NEW!**	1.73	1.50	1.15	—	—	—	BTA12-800BWRG
	800	16	50	TO-220AB	Insulated	497-2408-5-ND	1.65	1.38	1.16	—	—	—	BTA16-800BRG
	800	16	35	TO-220AB	Insulated	497-4166-5-ND‡ **NEW!**	1.62	1.35	1.14	—	—	—	BTA16-800CWRG
	800	25	50	TO-220AB	Insulated	497-2402-5-ND	2.40	2.00	1.68	—	—	—	BTA24-800BWRG
	800	25	35	TO-220AB	Insulated	497-4169-5-ND‡ **NEW!**	2.25	1.88	1.58	—	—	—	BTA24-800CWRG

Cut Tape ‡ Tube § Ammo Pack

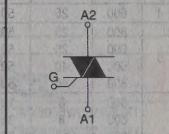


Fig. 1 — TO-220AB

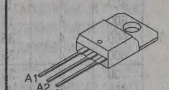


Fig. 2 — TO220AB Non-Insulated

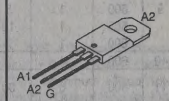


Fig. 3 — TOP3

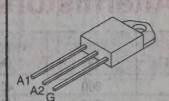
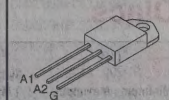


Fig. 4 — TOP3 Non-Insulated



(Continued)

Fig.	V_{DRM} (V)	$I_{T(RMS)}$ (A)	I_{GT} (mA)	Package	Insulation	Digi-Key Part No.	Bulk Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Size	Pricing	STMicroelectronics Part No.
	400	8	10	TO-220AB	Non-Insulated	497-2436-5-ND	1.31	1.14	.88	—	—	—	BTB08-400BRG
	600	4	5	TO-220AB	Non-Insulated	497-4174-5-ND‡ ***NEW!***	1.05	.91	.70	—	—	—	BTB04-600TRG
	600	6	50	TO-220AB	Non-Insulated	497-3391-5-ND‡	1.43	1.24	.95	—	—	—	BTB06-600BWRG
	600	6	35	TO-220AB	Non-Insulated	497-3392-5-ND‡	1.43	1.24	.95	—	—	—	BTB06-600CWRG
	600	6	10	TO-220AB	Non-Insulated	497-4175-5-ND‡ ***NEW!***	1.05	.91	.70	—	—	—	BTB06-600SWRG
	600	6	5	TO-220AB	Non-Insulated	497-2433-ND	1.16	1.01	.78	—	—	—	BTB06-600T
	600	6	5	TO-220AB	Non-Insulated	497-3127-5-ND‡	.94	.82	.63	—	—	—	BTB06-600TRG
	600	8	50	TO-220AB	Non-Insulated	497-2425-5-ND	1.20	1.04	.80	—	—	—	BTB08-600BWRG
	600	8	10	TO-220AB	Non-Insulated	497-2440-5-ND	1.20	1.04	.80	—	—	—	BTB08-600SRG
	600	10	50	TO-220AB	Non-Insulated	497-3393-5-ND‡	1.61	1.40	1.08	—	—	—	BTB10-600BRG
	600	10	25	TO-220AB	Non-Insulated	497-3394-5-ND‡	1.61	1.40	1.08	—	—	—	BTB10-600CRG
	600	12	50	TO-220AB	Non-Insulated	497-2655-5-ND‡	1.46	1.27	.98	—	—	—	BTB12-600BWRG
	600	12	25	TO-220AB	Non-Insulated	497-3395-5-ND‡	1.76	1.53	1.18	—	—	—	BTB12-600CRG
2	600	12	10	TO-220AB	Non-Insulated	497-3396-5-ND‡	1.76	1.53	1.18	—	—	—	BTB12-600SWRG
	600	16	50	TO-220AB	Non-Insulated	497-2437-5-ND	1.80	1.56	1.20	—	—	—	BTB16-600BRG
	600	16	50	TO-220AB	Non-Insulated	497-2439-5-ND	1.53	1.28	1.08	—	—	—	BTB16-600BWRG
	600	16	25	TO-220AB	Non-Insulated	497-3397-5-ND‡	1.65	1.38	1.16	—	—	—	BTB16-600CRG
	600	25	50	TO-220AB	Non-Insulated	497-2432-5-ND	2.04	1.70	1.43	—	—	—	BTB24-600BRG
	600	25	50	TO-220AB	Non-Insulated	497-2426-5-ND	2.10	1.75	1.47	—	—	—	BTB24-600BW
	700	8	50	TO-220AB	Non-Insulated	497-4176-5-ND‡ ***NEW!***	1.31	1.14	.88	—	—	—	BTB08-700BWRG
	700	12	10	TO-220AB	Non-Insulated	497-4179-5-ND‡ ***NEW!***	1.50	1.30	1.00	—	—	—	BTB12-700SWRG
	800	10	50	TO-220AB	Non-Insulated	497-4177-5-ND‡ ***NEW!***	1.39	1.21	.93	—	—	—	BTB10-800BWRG
	800	10	35	TO-220AB	Non-Insulated	497-4178-5-ND‡ ***NEW!***	1.39	1.21	.93	—	—	—	BTB10-800CWRG
	800	12	35	TO-220AB	Non-Insulated	497-4180-5-ND‡ ***NEW!***	1.58	1.37	1.05	—	—	—	BTB12-800CWRG
	800	16	50	TO-220AB	Non-Insulated	497-4181-5-ND‡ ***NEW!***	1.58	1.37	1.05	—	—	—	BTB16-800BRG
	800	16	35	TO-220AB	Non-Insulated	497-4182-5-ND‡ ***NEW!***	1.61	1.40	1.08	—	—	—	BTB16-800CWRG
	800	25	50	TO-220AB	Non-Insulated	497-2429-5-ND	2.10	1.75	1.47	—	—	—	BTB24-800BRG
	800	25	50	TO-220AB	Non-Insulated	497-4183-5-ND‡ ***NEW!***	1.92	1.60	1.35	—	—	—	BTB24-800BWRG
	400	25	50	TOP3	Insulated	497-2438-5-ND	4.27	3.72	2.77	—	—	—	BTA26-400BRG
	600	25	50	TOP3	Insulated	497-2427-5-ND	6.48	5.64	4.20	—	—	—	BTA26-600BRG
	600	25	50	TOP3	Insulated	497-3126-ND	7.82	7.14	5.65	—	—	—	BTA26-600BW
	600	25	50	TOP3	Insulated	497-4170-5-ND‡ ***NEW!***	4.05	3.53	2.63	—	—	—	BTA26-600BWRG
3	600	40	50	TOP3	Insulated	497-2431-5-ND	5.40	4.70	3.50	—	—	—	BTA41-600BRG
	800	25	50	TOP3	Insulated	497-4171-5-ND‡ ***NEW!***	4.05	3.53	2.63	—	—	—	BTA26-800BRG
	800	25	50	TOP3	Insulated	497-4172-5-ND‡ ***NEW!***	4.05	3.53	2.63	—	—	—	BTA26-800BWRG
	800	25	35	TOP3	Insulated	497-4173-5-ND‡ ***NEW!***	4.05	3.53	2.63	—	—	—	BTA26-800CWRG
	800	40	50	TOP3	Insulated	497-2430-5-ND	6.21	5.41	4.03	—	—	—	BTA41-800BRG
4	600	25	50	TOP3	Non-Insulated	497-3398-5-ND‡	4.86	4.23	3.15	—	—	—	BTB26-600BRG
	600	25	50	RD-91	Insulated	497-2414-5-ND	5.75	5.25	4.15	—	—	—	BTA25-600B
5	600	25	50	RD-91	Insulated	497-3125-5-ND	5.75	5.25	4.15	—	—	—	BTA25-600BW
	600	40	50	RD-91	Insulated	497-2417-5-ND	7.13	6.51	5.15	—	—	—	BTA40-600B
	800	40	50	RD-91	Insulated	497-2405-5-ND	7.68	7.02	5.55	—	—	—	BTA40-800B
	600	8	10	D^2PAK	—	497-3560-5-ND‡	1.56	1.30	1.10	—	—	—	T810-600G
	600	8	35	D^2PAK	—	497-2507-1-ND*	1.62	1.35	1.14	497-2507-2-ND	1,000	609.00	T835-600G-TR
6	600	16	35	D^2PAK	—	497-2557-5-ND‡	2.34	1.95	1.64	—	—	—	T1635-600G
	600	16	50	D^2PAK	—	497-3739-1-ND*	2.34	1.95	1.64	497-3739-2-ND	1,000	1053.00	T1650-600G-TR
	700	16	35	D^2PAK	—	497-4433-1-ND* ***NEW!***	1.65	1.43	1.10	497-4433-2-ND ***NEW!***	1,000	638.00	T1635-700G-TR
	800	8	10	D^2PAK	—	497-4438-1-ND* ***NEW!***	1.58	1.37	1.05	497-4438-2-ND ***NEW!***	1,000	609.00	T810-800G-TR
	600	4	5	DPAK	—	497-2505-1-ND*	1.28	1.11	.85	497-2505-2-ND	2,500	452.00/M	T405-600B-TR
	600	4	5	DPAK	—	497-2501-1-ND*	1.13	.98	.75	497-2501-2-ND	2,500	314.00/M	T405Q-600B-TR
	600	4	10	DPAK	—	497-3269-1-ND*	1.24	1.08	.83	497-3269-2-ND	2,500	439.00/M	T410-600B-TR
7	600	4	35	DPAK	—	497-2513-1-ND*	1.08	.87	.65	497-2513-2-ND	2,500	342.00/M	T435-600B-TR
	600	4	35	DPAK	—	497-3798-5-ND‡	1.01	.88	.68	—	—	—	T435-600B
	600	8	35	DPAK	—	497-3270-1-ND*	1.69	1.47	1.13	497-3270-2-ND	2,500	599.00/M	T835-600B-TR
	800	4	5	DPAK	—	497-4434-1-ND* ***NEW!***	1.05	.91	.70	497-4434-2-ND ***NEW!***	2,500	372.00/M	T405-800B-TR
	600	4	5	IPAK	—	497-2556-5-ND‡	1.04	.83	.63	—	—	—	T405Q-600H
8	600	4	35	IPAK	—	497-3795-5-ND‡	1.09	.95	.73	—	—	—	T435-600H
	700	4	10	IPAK	—	497-4435-5-ND‡ ***NEW!***	.98	.85	.65	—	—	—	T410-700H
	700	4	35	IPAK	—	497-4436-5-ND‡ ***NEW!***	1.05	.91	.70	—	—	—	T435-700H
	600	1	3	TO-92	—	497-3323-1-ND*	.68	.54	.41	497-3323-3-ND§	2,000	233.00/M	Z0103MA 2AL2
	600	1	3	TO-92	—	497-3323-ND	.65	.52	.39	—	—	—	Z0103MA 1AA2
9	600	1	5	TO-92	—	497-3822-ND	.90	.72	.54	—	—	—	Z0107MA 1AA2
	600	1	10	TO-92	—	497-2416-ND	.81	.65	.49	—	—	—	Z0109MA 1AA2
	800	1	3	TO-92	—	497-4507-1-ND* ***NEW!***	.72	.58	.44	497-4507-2-ND ***NEW!***	2,000	248.00/M	Z0103NA 5AL2
10	600	4	3	TO202-3	—	497-3324-ND	.97	.78	.59	—	—	—	Z0402MF 1AA2
11	800	6	30	ISOWATT 220AB	—	497-4437-5-ND‡ ***NEW!***	1.73	1.50	1.15	—	—	—	T630-800W
12	800	1	5	SOT-223	—	497-4508-1-ND* ***NEW!***	.72	.58	.44	497-4508-2-ND ***NEW!***	1,000	248.00	Z0107NN 5AA4
	800	1	10	SOT-223	—	497-4509-1-ND* ***NEW!***	.72	.58	.44	497-4509-2-ND ***NEW!***	1,000	248.00	Z0109NN 5AA4

* Cut Tape ‡ Tube § Ammo Pack

Fig. 5 — RD-91

Fig. 6 — D^2PAK

Fig. 7 — DPAK

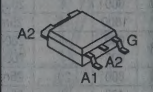


Fig. 8 — IPAK

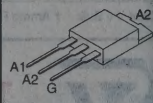


Fig. 9 — TO-92

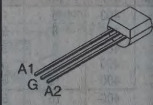


Fig. 10 — TO202-3

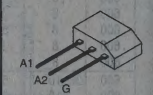


Fig. 11 — ***NEW!*** ISOWATT220AB

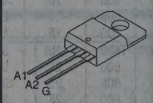
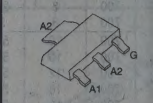


Fig. 12 — ***NEW!*** SOT-223



Alternistors

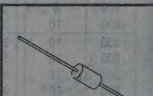
Fig.	V_{DRM} (V)	$I_{T(RMS)}$ (A)	I_{GT} (mA)	Package	Insulation	Digi-Key Part No.	Price Each 1	10	100	STMicroelectronics Part No.
	600	40	200	TOP 3	Insulated	497-4441-5-ND‡ ***NEW!***	7.36	6.72	5.32	TPDV640RG
3	800	40	200	TOP 3	Insulated	497-4442-5-ND‡ ***NEW!***	8.28	7.56	5.98	TPDV840RG
	1200	25	150	TOP 3	Insulated	497-3791-5-ND‡	7.48	6.83	5.40	TPDV1225RG
	1200	40	200	TOP 3	Insulated	497-3794-5-ND‡	8.51	7.77	6.15	TPDV1240RG

‡ Tube

Diacs

$V_{(BO)}$ (V) Minimum	$V_{(BO)}$ (V) Maximum	$V_{(BO)}$ Symmetry (V) Maximum	Dynamic Breakback Voltage (V)	Package	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape and Reel † Size	Pricing	STMicroelectronics Part No.
28	36	3	5	DO-35	497-3099-1-ND	.41	.30	.22	5,000	82.00/M	DB3

† For Tape and Reel Part Number, change 1-ND to 2-ND



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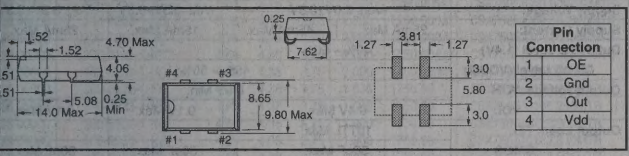
CITIZEN™ CMX309FLC Series Oscillators

cifications: • **Frequency Tolerance:** ±10 ppm • **Operating Temperature:** -20°C ~ 70°C • **Storage** **perature:** -55°C ~ 125°C • **Supply Voltage:** 5V ±.5V • **Supply Current:** 23mA Maximum • **Duty @** **Level (1.4V):** 45% ~ 55% • **Duty @ CMOS Level (VDD/2):** 40% ~ 60% • **Output Voltage:** -0.4V (H) Minimum • **Output Voltage:** .4V (VOL) Maximum • **Output Load TTL:** 10TTL Maximum • **Output** **d CMOS:** 50pF Maximum • **Rise Time TTL:** 8ns Maximum • **Fall Time TTL:** 8ns Maximum • **Rise Time** **OS:** 8ns Maximum • **Fall Time CMOS:** 8ns Maximum • **Start-up Time:** 4ms Maximum • **Output En-** **e-Voltage:** 2V (VIH) Minimum • **Output Enable-Voltage:** .8V (VIL) Maximum • **Disable Current:** 12mA **ximum** • **Aging (First Year):** ±5ppm Maximum

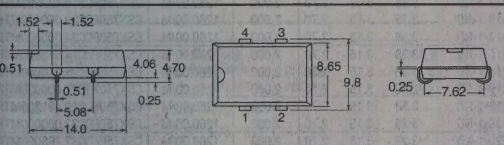


Pin	Connection
1	OE
2	Gnd
3	Out
4	Vdd

equency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	T & R Pricing 1,000	Citizen Part No.
.544000	300-7001-1-ND	3.00	2.80	1.80	300-7001-2-ND	1328.00	CMX309FLC1.544MT
.843200	300-7002-1-ND	3.00	2.80	1.80	300-7002-2-ND	1328.00	CMX309FLC1.8432MT
.000000	300-7003-1-ND	3.00	2.80	1.80	300-7003-2-ND	1328.00	CMX309FLC2.000MT
.048000	300-7004-1-ND	3.00	2.80	1.80	300-7004-2-ND	1328.00	CMX309FLC2.048MT
.457600	300-7005-1-ND	3.00	2.80	1.80	300-7005-2-ND	1328.00	CMX309FLC2.4576MT
.072000	300-7006-1-ND	3.00	2.80	1.80	300-7006-2-ND	1328.00	CMX309FLC3.072MT
.579545	300-7007-1-ND	3.00	2.80	1.80	300-7007-2-ND	1328.00	CMX309FLC3.579545MT
.686400	300-7008-1-ND	3.00	2.80	1.80	300-7008-2-ND	1328.00	CMX309FLC3.6864MT
.000000	300-7009-1-ND	3.00	2.80	1.80	300-7009-2-ND	1328.00	CMX309FLC4.000MT
.096000	300-7010-1-ND	3.00	2.80	1.80	300-7010-2-ND	1328.00	CMX309FLC4.096MT
.915200	300-7011-1-ND	3.00	2.80	1.80	300-7011-2-ND	1328.00	CMX309FLC4.9152MT
.000000	300-7012-1-ND	3.00	2.80	1.80	300-7012-2-ND	1328.00	CMX309FLC5.000MT
.000000	300-7013-1-ND	3.00	2.80	1.80	300-7013-2-ND	1328.00	CMX309FLC6.000MT
.144000	300-7014-1-ND	3.00	2.80	1.80	300-7014-2-ND	1328.00	CMX309FLC6.144MT
.372800	300-7015-1-ND	3.00	2.80	1.80	300-7015-2-ND	1328.00	CMX309FLC7.3728MT
.000000	300-7016-1-ND	3.00	2.80	1.80	300-7016-2-ND	1328.00	CMX309FLC8.000MT
.192000	300-7017-1-ND	3.00	2.80	1.80	300-7017-2-ND	1328.00	CMX309FLC8.192MT
.830400	300-7018-1-ND	3.00	2.80	1.80	300-7018-2-ND	1328.00	CMX309FLC9.8304MT
.000000	300-7019-1-ND	3.00	2.80	1.80	300-7019-2-ND	1328.00	CMX309FLC10.000MT
.000000	300-7021-1-ND	3.00	2.80	1.80	300-7021-2-ND	1328.00	CMX309FLC11.000MT
.059200	300-7022-1-ND	3.00	2.80	1.80	300-7022-2-ND	1328.00	CMX309FLC11.0592MT
.289600	300-7023-1-ND	3.00	2.80	1.80	300-7023-2-ND	1328.00	CMX309FLC11.2896MT
.000000	300-7024-1-ND	3.00	2.80	1.80	300-7024-2-ND	1328.00	CMX309FLC12.000MT
.288000	300-7025-1-ND	3.00	2.80	1.80	300-7025-2-ND	1328.00	CMX309FLC12.288MT
.352000	300-7026-1-ND	3.00	2.80	1.80	300-7026-2-ND	1328.00	CMX309FLC12.352MT
.500000	300-7027-1-ND	3.00	2.80	1.80	300-7027-2-ND	1328.00	CMX309FLC13.500MT
.318180	300-7028-1-ND	3.00	2.80	1.80	300-7028-2-ND	1328.00	CMX309FLC14.31818MT
.745600	300-7029-1-ND	3.00	2.80	1.80	300-7029-2-ND	1328.00	CMX309FLC14.7456MT
.360000	300-7031-1-ND	3.00	2.80	1.80	300-7031-2-ND	1328.00	CMX309FLC15.360MT
.000000	300-7032-1-ND	3.00	2.80	1.80	300-7032-2-ND	1328.00	CMX309FLC16.000MT
.384000	300-7034-1-ND	3.00	2.80	1.80	300-7034-2-ND	1328.00	CMX309FLC16.384MT
.666600	300-7035-1-ND	3.00	2.80	1.80	300-7035-2-ND	1328.00	CMX309FLC16.6666MT
.734475	300-7036-1-ND	3.00	2.80	1.80	300-7036-2-ND	1328.00	CMX309FLC17.734475MT
.000000	300-7037-1-ND	3.00	2.80	1.80	300-7037-2-ND	1328.00	CMX309FLC18.000MT
.432000	300-7038-1-ND	3.00	2.80	1.80	300-7038-2-ND	1328.00	CMX309FLC18.432MT
.660800	300-7039-1-ND	3.00	2.80	1.80	300-7039-2-ND	1328.00	CMX309FLC19.6608MT
.000000	300-7040-1-ND	3.00	2.80	1.80	300-7040-2-ND	1328.00	CMX309FLC20.000MT
.118400	300-7041-1-ND	3.00	2.80	1.80	300-7041-2-ND	1328.00	CMX309FLC22.1184MT
.000000	300-7042-1-ND	3.00	2.80	1.80	300-7042-2-ND	1328.00	CMX309FLC24.000MT
.576000	300-7043-1-ND	3.00	2.80	1.80	300-7043-2-ND	1328.00	CMX309FLC24.576MT
.000000	300-7044-1-ND	3.00	2.80	1.80	300-7044-2-ND	1328.00	CMX309FLC25.000MT
.175000	300-7045-1-ND	3.00	2.80	1.80	300-7045-2-ND	1328.00	CMX309FLC25.175MT
.000000	300-7046-1-ND	3.00	2.80	1.80	300-7046-2-ND	1328.00	CMX309FLC27.000MT
.322000	300-7047-1-ND	3.00	2.80	1.80	300-7047-2-ND	1328.00	CMX309FLC28.322MT
.636360	300-7048-1-ND	3.00	2.80	1.80	300-7048-2-ND	1328.00	CMX309FLC28.63636MT
.498928	300-7049-1-ND	3.00	2.80	1.80	300-7049-2-ND	1328.00	CMX309FLC29.498928MT
.000000	300-7050-1-ND	3.00	2.80	1.80	300-7050-2-ND	1328.00	CMX309FLC30.000MT

MX309FBC Series Oscillators

cifications: • **Frequency Tolerance:** ±100ppm • **Operating Temperature:** -20°C ~ 70°C • **Storage** **perature:** -55°C ~ 125°C • **Supply Voltage:** 3.3V ± .3V • **Supply Current:** 9mA Maximum • **Duty @** **OS Level (VDD/2):** 40% ~ 60% • **Output Voltage:** -0.4V (VOH) Minimum • **Output Voltage:** .4V (VOL) **ximum** • **Rise Time CMOS:** 6ns Maximum • **Fall Time CMOS:** 6ns Maximum • **Start-up Time:** 4ms Maxi- **m** • **Output Enable-Voltage:** 2V (VIH) Minimum • **Output Enable-Voltage:** .8V (VIL) Maximum • **Disable** **rrent:** 5mA Maximum • **Aging (First Year):** ±5ppm Maximum



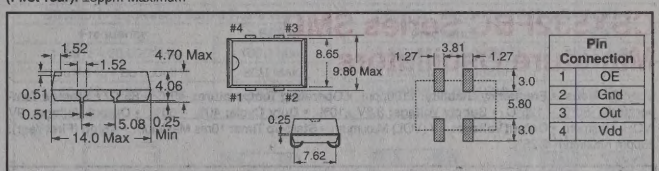
Pin	Connection
1	OE
2	Gnd
3	Out
4	Vdd

equency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	T & R Pricing 1,000	Citizen Part No.
.00000	300-2100-1-ND	2.81	2.63	1.69	300-2100-2-ND	1245.00	CMX309FBC1.000MTR
.54400	300-2101-1-ND	2.81	2.63	1.69	300-2101-2-ND	1245.00	CMX309FBC1.544MTR
.84320	300-2102-1-ND	2.81	2.63	1.69	300-2102-2-ND	1245.00	CMX309FBC1.8432MTR
2.00000	300-2103-1-ND	2.81	2.63	1.69	300-2103-2-ND	1245.00	CMX309FBC2.000MTR
2.04800	300-2104-1-ND	2.81	2.63	1.69	300-2104-2-ND	1245.00	CMX309FBC2.048MTR

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	T & R Pricing 1,000	Citizen Part No.
2.45760	300-2105-1-ND	2.81	2.63	1.69	300-2105-2-ND	1245.00	CMX309FBC2.4576MTR
3.68640	300-2106-1-ND	2.81	2.63	1.69	300-2106-2-ND	1245.00	CMX309FBC3.6864MTR
4.00000	300-2107-1-ND	2.81	2.63	1.69	300-2107-2-ND	1245.00	CMX309FBC4.000MTR
5.00000	300-2108-1-ND	2.81	2.63	1.69	300-2108-2-ND	1245.00	CMX309FBC5.000MTR
8.00000	300-2109-1-ND	2.81	2.63	1.69	300-2109-2-ND	1245.00	CMX309FBC8.000MTR
8.19200	300-2110-1-ND	2.81	2.63	1.69	300-2110-2-ND	1245.00	CMX309FBC8.192MTR
9.83040	300-2111-1-ND	2.81	2.63	1.69	300-2111-2-ND	1245.00	CMX309FBC9.8304MTR
10.00000	300-2112-1-ND	2.81	2.63	1.69	300-2112-2-ND	1245.00	CMX309FBC10.000MTR
11.05920	300-2113-1-ND	2.81	2.63	1.69	300-2113-2-ND	1245.00	CMX309FBC11.0592MTR
11.28960	300-2114-1-ND	2.81	2.63	1.69	300-2114-2-ND	1245.00	CMX309FBC11.2896MTR
12.00000	300-2115-1-ND	2.81	2.63	1.69	300-2115-2-ND	1245.00	CMX309FBC12.000MTR
12.28800	300-2116-1-ND	2.81	2.63	1.69	300-2116-2-ND	1245.00	CMX309FBC12.288MTR
14.31818	300-2117-1-ND	2.81	2.63	1.69	300-2117-2-ND	1245.00	CMX309FBC14.31818MTR
14.74560	300-2118-1-ND	2.81	2.63	1.69	300-2118-2-ND	1245.00	CMX309FBC14.7456MTR
16.00000	300-2119-1-ND	2.81	2.63	1.69	300-2119-2-ND	1245.00	CMX309FBC16.000MTR
16.38400	300-2120-1-ND	2.81	2.63	1.69	300-2120-2-ND	1245.00	CMX309FBC16.384MTR
18.43200	300-2121-1-ND	2.81	2.63	1.69	300-2121-2-ND	1245.00	CMX309FBC18.432MTR
20.00000	300-2122-1-ND	2.81	2.63	1.69	300-2122-2-ND	1245.00	CMX309FBC20.000MTR
24.00000	300-2123-1-ND	2.81	2.63	1.69	300-2123-2-ND	1245.00	CMX309FBC24.000MTR
24.57600	300-2124-1-ND	2.81	2.63	1.69	300-2124-2-ND	1245.00	CMX309FBC24.576MTR
25.00000	300-2125-1-ND	2.81	2.63	1.69	300-2125-2-ND	1245.00	CMX309FBC25.000MTR
27.00000	300-2126-1-ND	2.81	2.63	1.69	300-2126-2-ND	1245.00	CMX309FBC27.000MTR

CMX309HWC Series Oscillators

Specifications: • **Frequency Tolerance:** ±100ppm • **Operating Temperature:** -20°C ~ 70°C • **Storage Temperature:** -55°C ~ 125°C • **Supply Voltage:** 5V ±.5V • **Supply Current:** 35mA Maximum • **Duty @ TTL Level (1.4V):** 45% ~ 55% • **Duty @ CMOS Level (VDD/2):** 40% ~ 60% • **Output Voltage:** -0.5V (VOH) Minimum • **Output Voltage:** .5V (VOL) Maximum • **Output Load TTL:** 10TTL Maximum • **Output Load CMOS:** 50pF Maximum • **Rise Time TTL:** 5ns Maximum • **Fall Time TTL:** 5ns Maximum • **Rise Time CMOS:** 7ns Maximum • **Fall Time CMOS:** 7ns Maximum • **Start-up Time:** 10ms Maximum • **Output Enable-Voltage:** 2V (VIH) Minimum • **Output Enable-Voltage:** .8V (VIL) Maximum • **Disable Current:** 28mA Maximum • **Aging (First Year):** ±5ppm Maximum

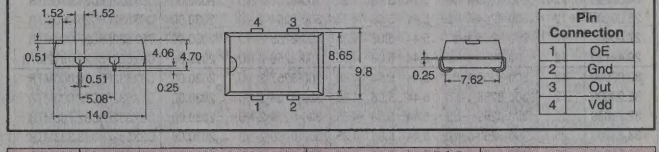


Pin	Connection
1	OE
2	Gnd
3	Out
4	Vdd

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	T & R Pricing 1,000	Citizen Part No.
32.0000	300-7101-1-ND	3.00	2.80	1.80	300-7101-2-ND	1328.00	CMX309HWC32.000MT
32.7680	300-7102-1-ND	3.00	2.80	1.80	300-7102-2-ND	1328.00	CMX309HWC32.768MT
33.0000	300-7103-1-ND	3.00	2.80	1.80	300-7103-2-ND	1328.00	CMX309HWC33.000MT
33.3333	300-7104-1-ND	3.00	2.80	1.80	300-7104-2-ND	1328.00	CMX309HWC33.3333MT
33.8688	300-7105-1-ND	3.00	2.80	1.80	300-7105-2-ND	1328.00	CMX309HWC33.8688MT
40.0000	300-7107-1-ND	3.00	2.80	1.80	300-7107-2-ND	1328.00	CMX309HWC40.000MT
44.2368	300-7108-1-ND	3.00	2.80	1.80	300-7108-2-ND	1328.00	CMX309HWC44.2368MT
48.0000	300-7109-1-ND	3.00	2.80	1.80	300-7109-2-ND	1328.00	CMX309HWC48.000MT
49.1520	300-7110-1-ND	3.00	2.80	1.80	300-7110-2-ND	1328.00	CMX309HWC49.152MT
50.0000	300-7111-1-ND	3.19	2.98	1.92	300-7111-2-ND	1411.00	CMX309HWC50.000MT
53.1250	300-7112-1-ND	3.00	2.80	1.80	300-7112-2-ND	1328.00	CMX309HWC53.125MT
60.0000	300-7113-1-ND	3.00	2.80	1.80	300-7113-2-ND	1328.00	CMX309HWC60.000MT
64.0000	300-7114-1-ND	3.00	2.80	1.80	300-7114-2-ND	1328.00	CMX309HWC64.000MT
66.0000	300-7115-1-ND	3.00	2.80	1.80	—	—	CMX309HWC66.000MT
66.6667	300-7116-1-ND	3.00	2.80	1.80	300-7116-2-ND	1328.00	CMX309HWC66.6667MT

CMX309HBC Series Oscillators

Specifications: • **Frequency Tolerance:** ±100ppm • **Operating Temperature:** -20°C ~ 70°C • **Storage Temperature:** -55°C ~ 125°C • **Supply Voltage:** 3.3V ± 0.3V • **Supply Current:** 20mA Maximum • **Duty Cycle @ CMOS Level:** 40% ~ 60% • **Output Voltage:** -0.4V (VOH) Minimum • **Output Voltage:** .4V (VOL) Maximum • **Rise Time CMOS:** 6ns Maximum • **Fall Time CMOS:** 6ns Maximum • **Start-up Time:** 10ms Maximum • **Output Enable-Voltage:** 2.4V (VIH) Minimum • **Output Enable-Voltage:** .6V (VIL) Maximum • **Output Load CMOS:** 30pF Maximum • **Disable Current:** 15mA Maximum • **Aging (First Year):** ±5ppm Maximum



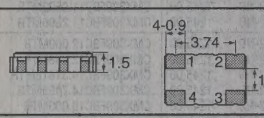
Pin	Connection
1	OE
2	Gnd
3	Out
4	Vdd

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	T & R Pricing 1,000	Citizen Part No.
32.0000	300-2200-1-ND	2.81	2.63	1.69	300-2200-2-ND	1245.00	CMX309HBC32.000MTR
32.7680	300-2201-1-ND	2.81	2.63	1.69	300-2201-2-ND	1245.00	CMX309HBC32.768MTR
33.0000	300-2202-1-ND	2.81	2.63	1.69	300-2202-2-ND	1245.00	CMX309HBC33.000MTR
33.3333	300-2203-1-ND	2.81	2.63	1.69	300-2203-2-ND	1245.00	CMX309HBC33.3333MTR
36.8640	300-2204-1-ND	2.81	2.63	1.69	300-2204-2-ND	1245.00	CMX309HBC36.864MTR
40.0000	300-2205-1-ND	2.81	2.63	1.69	300-2205-2-ND	1245.00	CMX309HBC40.000MTR
48.0000	300-2206-1-ND	2.81	2.63	1.69	300-2206-2-ND	1245.00	CMX309HBC48.000MTR
50.0000	300-2207-1-ND	2.81	2.63	1.69	300-2207-2-ND	1245.00	CMX309HBC50.000MTR
53.1250	300-2208-1-ND	2.81	2.63	1.69	300-2208-2-ND	1245.00	CMX309HBC53.125MTR

CITIZEN™

CSX532T Series SMD TCXO Oscillators

Specifications: • **Frequency Tolerance:** ±1.5ppm @ 25°C, ±2°C • **Frequency/Temperature:** ±2.5ppm, -30°C ~ 75°C • **Frequency/Voltage Coefficient:** ±0.3ppm/Vdd±5% • **Frequency/Load Coefficient:** ±0.2ppm/(10kΩ/10pf) ±10% • **Power Consumption:** 1.0mA Maximum/13MHz • **Output Level:** 0.8Vp-p Minimum; 10kΩ/10pF • **Frequency Adjustment:** ±8ppm Minimum/Vdd/2±1.0V • **Start-up Time:** 3.5ms Maximum • **Aging (First Year):** ±1ppm



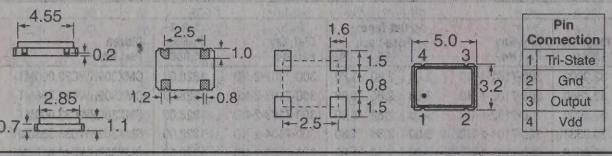
Pin	Connection
1	Vcont
2	Gnd
3	Output
4	Vcc

Supply Voltage	Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Tape & Reel * Pricing 2,000	Citizen Part No.
2.8	13.0000	300-1100-1-ND	7.50	5.55	4.95	3990.00/M	CSX532T13.000M2-U10
	16.3676	300-8274-1-ND	7.50	5.55	4.95	3990.00/M	CSX532T16.3676M2-U10
	16.8000	300-1101-1-ND	7.50	5.55	4.95	3990.00/M	CSX532T16.800M2-U10
	19.2000	300-1102-1-ND	7.50	5.55	4.95	3990.00/M	CSX532T19.200M2-U10
	24.5535	300-8276-1-ND	7.50	5.55	4.95	3990.00/M	CSX532T24.5535M2-U10
	26.0000	300-1103-1-ND	7.50	5.55	4.95	3990.00/M	CSX532T26.000M 2-U10
3	13.0000	300-1104-1-ND	7.50	5.55	4.95	3990.00/M	CSX532T13.000M3-U10
	16.3676	300-8275-1-ND	7.50	5.55	4.95	3990.00/M	CSX532T16.3676M3-U10
	16.8000	300-1105-1-ND	7.50	5.55	4.95	3990.00/M	CSX532T16.800M3-U10
	19.2000	300-1106-1-ND	7.50	5.55	4.95	3990.00/M	CSX532T19.200M3-U10
	24.5535	300-8277-1-ND	7.50	5.55	4.95	3990.00/M	CSX532T24.5535M3-U10
	26.0000	300-1107-1-ND	7.50	5.55	4.95	3990.00/M	CSX532T26.000M3-U10

* For Tape & Reel Part No., change -1-ND to -2-ND

CSX532FBC Series SMD Miniature Oscillators

Specifications: • **Frequency Stability:** ±100ppm • **Operating Temperature:** -40°C ~ 85°C • **Storage Temperature:** -50°C ~ 125°C • **Supply Voltage:** 3.3V ±10% • **Duty Cycle:** 40% ~ 60% • **Output Voltage:** .9V (VOH) Minimum • **Output Voltage:** .1V (VOL) Maximum • **Start-up Time:** 10ms Maximum • **Aging (First Year):** ±5ppm Maximum @25°C

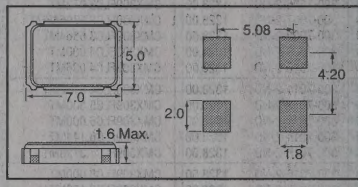


Pin	Connection
1	Tri-State
2	Gnd
3	Output
4	Vdd

Frequency (MHz)	Supply Current (mA)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	T & R Pricing 1,000	Citizen Part No.
1.84320	12	300-8237-1-ND	5.44	5.08	4.35	300-8237-2-ND	2030.00	CSX532FBC1.8432MTR
3.68640	12	300-8238-1-ND	5.44	5.08	4.35	300-8238-2-ND	2030.00	CSX532FBC3.6864MTR
4.00000	12	300-8239-1-ND	5.44	5.08	4.35	300-8239-2-ND	2030.00	CSX532FBC4.000MTR
7.37280	12	300-8240-1-ND	5.44	5.08	4.35	300-8240-2-ND	2030.00	CSX532FBC7.3728MTR
8.00000	12	300-8241-1-ND	5.44	5.08	4.35	300-8241-2-ND	2030.00	CSX532FBC8.000MTR
10.00000	12	300-8242-1-ND	5.44	5.08	4.35	300-8242-2-ND	2030.00	CSX532FBC10.000MTR
11.05920	12	300-8243-1-ND	5.44	5.08	4.35	300-8243-2-ND	2030.00	CSX532FBC11.0592MTR
12.00000	12	300-8244-1-ND	5.44	5.08	4.35	300-8244-2-ND	2030.00	CSX532FBC12.000MTR
12.28800	12	300-8245-1-ND	5.44	5.08	4.35	300-8245-2-ND	2030.00	CSX532FBC12.288MTR
14.31818	12	300-8246-1-ND	5.44	5.08	4.35	300-8246-2-ND	2030.00	CSX532FBC14.31818MTR
14.74560	12	300-8247-1-ND	5.44	5.08	4.35	300-8247-2-ND	2030.00	CSX532FBC14.7456MTR
16.00000	12	300-8248-1-ND	5.44	5.08	4.35	300-8248-2-ND	2030.00	CSX532FBC16.000MTR
16.38400	12	300-8249-1-ND	5.44	5.08	4.35	300-8249-2-ND	2030.00	CSX532FBC16.384MTR
18.43200	12	300-8250-1-ND	5.44	5.08	4.35	300-8250-2-ND	2030.00	CSX532FBC18.432MTR
20.00000	12	300-8251-1-ND	5.44	5.08	4.35	300-8251-2-ND	2030.00	CSX532FBC20.000MTR
24.00000	12	300-8252-1-ND	5.44	5.08	4.35	300-8252-2-ND	2030.00	CSX532FBC24.000MTR
24.57600	12	300-8253-1-ND	5.44	5.08	4.35	300-8253-2-ND	2030.00	CSX532FBC24.576MTR
25.00000	12	300-8254-1-ND	5.44	5.08	4.35	300-8254-2-ND	2030.00	CSX532FBC25.000MTR
27.00000	12	300-8255-1-ND	5.44	5.08	4.35	300-8255-2-ND	2030.00	CSX532FBC27.000MTR
29.49120	12	300-8256-1-ND	5.44	5.08	4.35	300-8256-2-ND	2030.00	CSX532FBC29.4912MTR
30.00000	12	300-8257-1-ND	5.44	5.08	4.35	300-8257-2-ND	2030.00	CSX532FBC30.000MTR
32.00000	12	300-8258-1-ND	5.44	5.08	4.35	300-8258-2-ND	2030.00	CSX532FBC32.000MTR
32.76800	12	300-8259-1-ND	5.44	5.08	4.35	300-8259-2-ND	2030.00	CSX532FBC32.768MTR
33.33300	25	300-8260-1-ND	5.44	5.08	4.35	300-8260-2-ND	2030.00	CSX532FBC33.333MTR
35.32800	25	300-8261-1-ND	5.44	5.08	4.35	300-8261-2-ND	2030.00	CSX532FBC35.328MTR
40.00000	25	300-8262-1-ND	5.44	5.08	4.35	300-8262-2-ND	2030.00	CSX532FBC40.000MTR
48.00000	25	300-8263-1-ND	5.44	5.08	4.35	300-8263-2-ND	2030.00	CSX532FBC48.000MTR
50.00000	35	300-8264-1-ND	5.44	5.08	4.35	300-8264-2-ND	2030.00	CSX532FBC50.000MTR
60.00000	35	300-8265-1-ND	5.44	5.08	4.35	300-8265-2-ND	2030.00	CSX532FBC60.000MTR
64.00000	35	300-8266-1-ND	5.44	5.08	4.35	300-8266-2-ND	2030.00	CSX532FBC64.000MTR
66.66600	35	300-8267-1-ND	5.44	5.08	4.35	300-8267-2-ND	2030.00	CSX532FBC66.666MTR
75.00000	60	300-8268-1-ND	6.19	5.78	4.95	300-8268-2-ND	2310.00	CSX532FBC75.000MTR
80.00000	60	300-8269-1-ND	6.19	5.78	4.95	300-8269-2-ND	2310.00	CSX532FBC80.000MTR
100.00000	60	300-8270-1-ND	6.19	5.78	4.95	300-8270-2-ND	2310.00	CSX532FBC100.000MTR
106.25000	60	300-8271-1-ND	6.19	5.78	4.95	300-8271-2-ND	2310.00	CSX532FBC106.250MTR
125.00000	60	300-8272-1-ND	6.19	5.78	4.95	300-8272-2-ND	2310.00	CSX532FBC125.000MTR
133.33000	60	300-8273-1-ND	6.19	5.78	4.95	300-8273-2-ND	2310.00	CSX532FBC133.330MTR

CSX750FCC, FBC, FJC Series SMD Oscillators

SPECIFICATIONS	CSX-750FCC		CSX-750FBC	CSX-750FJC
Frequency Range:	1.000MHz ~ 39.999MHz	40.000MHz ~ 70.000MHz	1.000MHz ~ 39.999MHz	40.000MHz ~ 150.000MHz
Frequency Stability:	C:±100ppm @ (-20°C ~ 70°C)			
Operating Temperature:	-20°C ~ 70°C			
Storage Temperature:	-55°C ~ 125°C			
Supply Voltage:	Vdd: 5.0V±0.5V		Vdd: 3.3V±0.3V	Vdd: 3.3V±0.3V
Supply Current:	25mA Max.	45mA Max.	15mA Max.	25mA Max.
Duty: TTL Level (1.4V)	40% ~ 60%		—	—
CMOS Level (VDD/2)	45% ~ 55%			
Output Voltage: VOH	0.9V Min.			
VOL	0.4V Max.		0.1V Max.	0.1V Max.
Output Load: TTL	10TTL Max.		—	—
CMOS	50pF Max.		30pF Max.	30pF Max.
Rise & Fall Time: CMOS	tr, tf: 8nsec Max.	tr, tf: 6nsec Max.	tr, tf: 8nsec Max.	tr, tf: 6nsec Max.
Start Up Time:	4msec Max.	10msec Max.	4msec Max.	10msec Max.
Input (OE) Voltage:	V IH: 2.0V Minimum		V IH: 2.0V Min.	V IH: 0.7VDD Min.
	V IL: 0.8V Max.		V IL: 0.4V Max.	V IL: 0.3VDD Max.
Disable Current: FC FB	10mA Max.	20mA Max.	5mA Max.	—
Stand-by Current: FJ	—	—	—	10µA Max.
Shock Resistance:	±20ppm Max. (75cm height drop on hardwood board 3 times.)			



Pin	Connection
1	OE or Standby
2	Gnd
3	Out
4	Vdd

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Tape and Reel * Size	Pricing	Citizen Part No.
		CSX-750FBC					
1.84320	300-7230-1-ND	3.38	3.15	2.70	2,000	1260.00/M	CSX750FBC1.843200MTR
3.68640	300-7231-1-ND	3.38	3.15	2.70	2,000	1260.00/M	CSX750FBC3.686400MTR
4.00000	300-7232-1-ND	3.38	3.15	2.70	2,000	1260.00/M	CSX750FBC4.000000MTR
7.37280	300-7233-1-ND	3.38	3.15	2.70	2,000	1260.00/M	CSX750FBC7.372800MTR
8.00000	300-7234-1-ND	3.38	3.15	2.70	2,000	1260.00/M	CSX750FBC8.000000MTR
10.00000	300-7235-1-ND	3.38	3.15	2.70	2,000	1260.00/M	CSX750FBC10.000000MTR
12.00000	300-7236-1-ND	3.38	3.15	2.70	2,000	1260.00/M	CSX750FBC12.000000MTR
12.28800	300-7237-1-ND	3.38	3.15	2.70	2,000	1260.00/M	CSX750FBC12.288000MTR
14.31818	300-7238-1-ND	3.38	3.15	2.70	2,000	1260.00/M	CSX750FBC14.318180MTR
14.74560	300-7239-1-ND	3.38	3.15	2.70	2,000	1260.00/M	CSX750FBC14.745600MTR
16.00000	300-7240-1-ND	3.38	3.15	2.70	2,000	1260.00/M	CSX750FBC16.000000MTR
16.38400	300-7241-1-ND	3.38	3.15	2.70	2,000	1260.00/M	CSX750FBC16.384000MTR
18.43200	300-7242-1-ND	3.38	3.15	2.70	2,000	1260.00/M	CSX750FBC18.432000MTR
20.00000	300-7243-1-ND	3.38	3.15	2.70	2,000	1260.00/M	CSX750FBC20.000000MTR
24.00000	300-7244-1-ND	3.38	3.15	2.70	2,000	1260.00/M	CSX750FBC24.000000MTR
24.57600	300-7245-1-ND	3.38	3.15	2.70	2,000	1260.00/M	CSX750FBC24.576000MTR
25.00000	300-7246-1-ND	3.38	3.15	2.70	2,000	1260.00/M	CSX750FBC25.000000MTR
27.00000	300-7247-1-ND	3.38	3.15	2.70	2,000	1260.00/M	CSX750FBC27.000000MTR
29.49120	300-7248-1-ND	3.38	3.15	2.70	2,000	1260.00/M	CSX750FBC29.491200MTR
32.00000	300-7249-1-ND	3.38	3.15	2.70	2,000	1260.00/M	CSX750FBC32.000000MTR
32.76800	300-7250-1-ND	3.38	3.15	2.70	2,000	1260.00/M	CSX750FBC32.768000MTR
33.33300	300-7251-1-ND	3.38	3.15	2.70	2,000	1260.00/M	CSX750FBC33.333000MTR
35.32800	300-7252-1-ND	3.38	3.15	2.70	2,000	1260.00/M	CSX750FBC35.328000MTR
		CSX-750FCC					
1.84320	300-7200-1-ND	3.38	3.15	2.70	2,000	1260.00/M	CSX750FCC1.843200MTR
3.68640	300-7201-1-ND	3.38	3.15	2.70	2,000	1260.00/M	CSX750FCC3.686400MTR
4.00000	300-7202-1-ND	3.38	3.15	2.70	2,000	1260.00/M	CSX750FCC4.000000MTR
7.37280	300-7203-1-ND	3.38	3.15	2.70	2,000	1260.00/M	CSX750FCC7.372800MTR
8.00000	300-7204-1-ND	3.38	3.15	2.70	2,000	1260.00/M	CSX750FCC8.000000MTR
10.00000	300-7205-1-ND	3.38	3.15	2.70	2,000	1260.00/M	CSX750FCC10.000000MTR
12.00000	300-7206-1-ND	3.38	3.15	2.70	2,000	1260.00/M	CSX750FCC12.000000MTR
12.28800	300-7207-1-ND	3.38	3.15	2.70	2,000	1260.00/M	CSX750FCC12.288000MTR
14.31818	300-7208-1-ND	3.38	3.15	2.70	2,000	1260.00/M	CSX750FCC14.318180MTR
14.74560	300-7209-1-ND	3.38	3.15	2.70	2,000	1260.00/M	CSX750FCC14.745600MTR
16.00000	300-7210-1-ND	3.38	3.15	2.70	2,000	1260.00/M	CSX750FCC16.000000MTR
16.38400	300-7211-1-ND	3.38	3.15	2.70	2,000	1260.00/M	CSX750FCC16.384000MTR
18.43200	300-7212-1-ND	3.38	3.15	2.70	2,000	1260.00/M	CSX750FCC18.432000MTR
20.00000	300-7213-1-ND	3.38	3.15	2.70	2,000	1260.00/M	CSX750FCC20.000000MTR
24.00000	300-7214-1-ND	3.38	3.15	2.70	2,000	1260.00/M	CSX750FCC24.000000MTR
24.57600	300-7215-1-ND	3.38	3.15	2.70	2,000	1260.00/M	CSX750FCC24.576000MTR
25.00000	300-7216-1-ND	3.38	3.15	2.70	2,000	1260.00/M	CSX750FCC25.000000MTR
27.00000	300-7217-1-ND	3.38	3.15	2.70	2,000	1260.00/M	CSX750FCC27.000000MTR
29.49120	300-7218-1-ND	3.38	3.15	2.70	2,000	1260.00/M	CSX750FCC29.491200MTR
32.00000	300-7219-1-ND	3.38	3.15	2.70	2,000	1260.00/M	CSX750FCC32.000000MTR
32.76800	300-7220-1-ND	3.38	3.15	2.70	2,000	1260.00/M	CSX750FCC32.768000MTR
33.33300	300-7221-1-ND	3.38	3.15	2.70	2,000	1260.00/M	CSX750FCC33.333000MTR
35.32800	300-7222-1-ND	3.38	3.15	2.70	2,000	1260.00/M	CSX750FCC35.328000MTR
40.00000	300-7223-1-ND	3.38	3.15	2.70	2,000	1260.00/M	CSX750FCC40.000000MTR
44.00000	300-7224-1-ND	3.38	3.15	2.70	2,000	1260.00/M	CSX750FCC44.000000MTR
45.00000	300-7225-1-ND	3.38	3.15	2.70	2,000	1260.00/M	CSX750FCC45.000000MTR
49.15200	300-7226-1-ND	3.38	3.15	2.70	2,000	1260.00/M	CSX750FCC49.152000MTR
50.00000	300-7227-1-ND	3.38	3.15	2.70	2,000	1260.00/M	CSX750FCC50.000000MTR
60.00000	300-7228-1-ND	3.38	3.15	2.70	2,000	1260.00/M	CSX750FCC60.000000MTR
66.66600	300-7229-1-ND	3.38	3.15	2.70	2,000	1260.00/M	CSX750FCC66.666000MTR

* For Tape & Reel Part No., change -1-ND to -2-ND

(Continu

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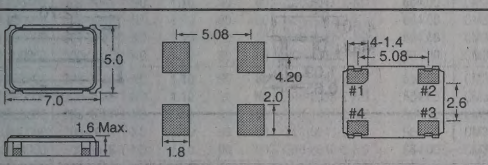
CITIZEN™ CSX750FCC, FBC, FJC Series SMD Oscillators *(Cont.)*

equency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Tape and Reel * Size	Pricing	Citizen Part No.
				CSX-750FJC			
40.00000	300-7253-1-ND	3.38	3.15	2.70	2,000	1260.00/M	CSX750FJC40.000000MTR
44.00000	300-7254-1-ND	3.38	3.15	2.70	2,000	1260.00/M	CSX750FJC44.000000MTR
45.00000	300-7255-1-ND	3.38	3.15	2.70	2,000	1260.00/M	CSX750FJC45.000000MTR
49.15200	300-7256-1-ND	3.38	3.15	2.70	2,000	1260.00/M	CSX750FJC49.152000MTR
50.00000	300-7257-1-ND	3.38	3.15	2.70	2,000	1260.00/M	CSX750FJC50.000000MTR
60.00000	300-7258-1-ND	3.38	3.15	2.70	2,000	1260.00/M	CSX750FJC60.000000MTR
66.66600	300-7259-1-ND	3.38	3.15	2.70	2,000	1260.00/M	CSX750FJC66.666000MTR
80.00000	300-8191-1-ND	4.69	4.38	3.75	2,000	1750.00/M	CSX750FJB80.000000MTR
80.00000	300-8231-1-ND	4.69	4.38	3.75	2,000	1750.00/M	CSX750FJC80.000MTR
00.00000	300-8232-1-ND	4.69	4.38	3.75	1,000	1750.00	CSX750FJC100.000MTR
06.25000	300-8233-1-ND	4.69	4.38	3.75	1,000	1750.00	CSX750FJC106.250MTR
25.00000	300-8234-1-ND	4.69	4.38	3.75	1,000	1750.00	CSX750FJC125.000MTR
33.33000	300-8235-1-ND	4.69	4.38	3.75	1,000	1750.00	CSX750FJC133.330MTR
50.00000	300-8236-1-ND	4.69	4.38	3.75	1,000	1750.00	CSX750FJC150.000MTR

or Tape & Reel Part No., change -1-ND to -2-ND

CSX750A Series High Frequency Ceramic Surface Mount Clock Oscillators

ecifications: • **CSX750AC:** 10TTL/30pF, OE, 5.0V operation type • **CSX750AB:** 15pF, OE, 3.3V operation e • **Nominal Frequency:** CSX750AC/AB 70.0 ~ 140.0MHz • **Operating Temperature:** -20°C ~ 70°C • **Sup- Voltage:** CSX750AC 5.0 ±0.5V, CSX750AB 3.3 ±0.3V • **Frequency Stability:** B: ±50ppm(-20°C ~ 70°C) **urrent Consumption:** 50mA Maximum (CSX750AC), 30mA Maximum (CSX750AB) • **Duty Cycle:** 40% ~ % (TTL level), 45% ~ 55%(C-MOS level)

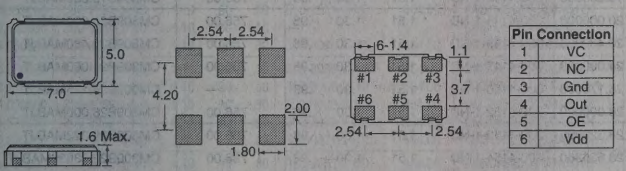


Pin	Connection
1	OE or Standby
2	Gnd
3	Out
4	Vdd

equency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	T & R Pricing 2,000	Citizen Part No.
80.00	300-8145-1-ND	4.13	3.38	3.00	—	—	CSX750ACB80.000MTR
100.02	300-8153-1-ND	4.13	3.38	3.00	—	—	CSX750ABB100.020MTR
100.02	300-8147-1-ND	4.13	3.38	3.00	—	—	CSX750ACB100.020MTR
106.25	300-8154-1-ND	4.13	3.38	3.00	300-8154-2-ND	2100.00/M	CSX750ABB106.250MTR
106.25	300-8148-1-ND	4.13	3.38	3.00	300-8148-2-ND	2100.00/M	CSX750ACB106.250MTR
125.00	300-8155-1-ND	4.13	3.38	3.00	—	—	CSX750ABB125.000MTR
125.00	300-8149-1-ND	4.13	3.38	3.00	—	—	CSX750ACB125.000MTR
133.33	300-8150-1-ND	4.13	3.38	3.00	300-8150-2-ND	2100.00/M	CSX750ACB133.330MTR

CSX750V Series Voltage Controlled Crystal Oscillators

ecifications:
CSX750VC: 2TTL/30pF, OE<pin#5>, ±100ppm Pullability, 5.0V operation type • **CSX750VB:** 30pF, <pin#5>, ±90ppm Pullability, 3.3V operation type • **Nominal Frequency:** CSX750AC/AB 2.430 ~ 328MHz • **Operating Temperature:** -20°C ~ 70°C • **Supply Voltage:** CSX750VC 5.0 ±0.5V, X750VB 3.3 ±0.3V • **Frequency Stability:** B:±50ppm (-10°C ~ 70°C) • **Current Consumption:** 30mA ximum (CSX750VC), 11mA Maximum (CSX750VB) • **Duty Cycle:** 40% ~ 60% (TTL level), 45% ~ 55% (C- OS level) • **Pullability:** ±100ppm Minimum/Vc=2.5V±2.0V, ±90ppm Minimum/1.65V±1.65V • **Modulation nd Width:** 10KHz Minimum/gain-3dB • **Phase Noise:** -120dBc/Hz Maximum/offset 1KHz



Pin	Connection
1	VC
2	NC
3	Gnd
4	Out
5	OE
6	Vdd

equency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	T & R Pricing 2,000	Citizen Part No.
4.096	300-8173-1-ND	8.25	6.75	6.00	—	—	CSX750VBBL4.096MTR
4.096	300-8157-1-ND	8.25	6.75	6.00	—	—	CSX750VCBM4.096MTR
8.000	300-8174-1-ND	8.25	6.75	6.00	300-8174-2-ND	2800.00/M	CSX750VBBL8.000MTR
8.000	300-8158-1-ND	8.25	6.75	6.00	300-8158-2-ND	2800.00/M	CSX750VCBM8.000MTR
8.192	300-8175-1-ND	8.25	6.75	6.00	300-8175-2-ND	2800.00/M	CSX750VBBL8.192MTR
8.192	300-8159-1-ND	8.25	6.75	6.00	—	—	CSX750VCBM8.192MTR
12.288	300-8176-1-ND	8.25	6.75	6.00	300-8176-2-ND	2800.00/M	CSX750VBBL12.288MTR
12.288	300-8160-1-ND	8.25	6.75	6.00	—	—	CSX750VCBM12.288MTR
12.352	300-8177-1-ND	8.25	6.75	6.00	—	—	CSX750VBBL12.352MTR
12.352	300-8161-1-ND	8.25	6.75	6.00	300-8161-2-ND	2800.00/M	CSX750VCBM12.352MTR

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	T & R Pricing 2,000	Citizen Part No.
13.500	300-8178-1-ND	8.25	6.75	6.00	300-8178-2-ND	2800.00/M	CSX750VBBL13.500MTR
13.500	300-8162-1-ND	8.25	6.75	6.00	300-8162-2-ND	2800.00/M	CSX750VCBM13.500MTR
16.384	300-8163-1-ND	8.25	6.75	6.00	300-8163-2-ND	2800.00/M	CSX750VCBM16.384MTR
19.440	300-8164-1-ND	8.25	6.75	6.00	300-8164-2-ND	2800.00/M	CSX750VCBM19.440MTR
20.000	300-8181-1-ND	8.25	6.75	6.00	300-8181-2-ND	2800.00/M	CSX750VBBL20.000MTR
20.000	300-8165-1-ND	8.25	6.75	6.00	300-8165-2-ND	2800.00/M	CSX750VCBM20.000MTR
24.576	300-8166-1-ND	8.25	6.75	6.00	—	—	CSX750VCBM24.576MTR
24.704	300-8183-1-ND	8.25	6.75	6.00	—	—	CSX750VBBL24.704MTR
24.704	300-8167-1-ND	8.25	6.75	6.00	300-8167-2-ND	2800.00/M	CSX750VCBM24.704MTR
25.000	300-8184-1-ND	8.25	6.75	6.00	300-8184-2-ND	2800.00/M	CSX750VBBL25.000MTR
25.000	300-8168-1-ND	8.25	6.75	6.00	—	—	CSX750VCBM25.000MTR
27.000	300-8185-1-ND	5.50	4.50	4.00	300-8185-2-ND	2800.00/M	CSX750VBBL27.000MTR
27.000	300-8169-1-ND	8.25	6.75	6.00	—	—	CSX750VCBM27.000MTR
32.000	300-8186-1-ND	8.25	6.75	6.00	300-8186-2-ND	2800.00/M	CSX750VBBL32.000MTR
32.000	300-8170-1-ND	8.25	6.75	6.00	—	—	CSX750VCBM32.000MTR
32.768	300-8187-1-ND	5.50	4.50	4.00	300-8187-2-ND	2800.00/M	CSX750VBBL32.768MTR
32.768	300-8171-1-ND	8.25	6.75	6.00	300-8171-2-ND	2800.00/M	CSX750VCBM32.768MTR
35.328	300-8188-1-ND	5.50	4.50	4.00	300-8188-2-ND	2800.00/M	CSX750VBBL35.328MTR
35.328	300-8172-1-ND	8.25	6.75	6.00	—	—	CSX750VCBM35.328MTR

CS3225H, CS5032H Series SMD Precision Crystals

Specifications: • **Operating Temperature:** -40°C ~ 85°C • **Storage Temperature:** -55°C ~ 125°C • **Load Capacitance:** 10.0pF • **Shunt Capacitance:** 7pF Maximum • **Drive Level:** 100µW Maximum • **Insulation Resistance:** 500MΩ Minimum • **Aging (First Year):** ±5ppm Maximum • **Frequency Tolerance:** ±10ppm @ 25°C • **Frequency Stability:** ±10ppm, -10°C ~ 60°C

CS3225H - Equivalent Series Resistance	
Frequency	**ESR**
16MHz ~ 20.000MHz	100Ω Max.
20.001MHz ~ 30.000MHz	80Ω Max.
30.001MHz ~ 60.00MHz	50Ω Max.

CS5032H - Equivalent Series Resistance	
Frequency	**ESR**
10.000MHz ~ 11.999MHz	100Ω Max.
12.000MHz ~ 15.999MHz	70Ω Max.
16.000MHz ~ 60.000MHz	50Ω Max.

Fig. 1

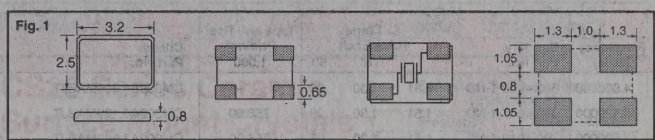
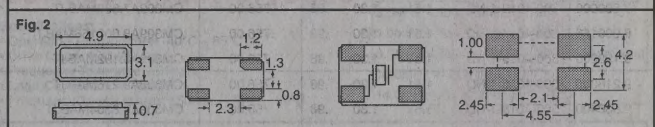


Fig. 2



Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	T & R Pricing 1,000	Citizen Part No.
				CS3225H — Fig. 1			
16.36760	300-8226-1-ND	3.30	2.70	2.40	300-8226-2-ND	1680.00	CS3225H16.3676MEEQTR
16.80000	300-8227-1-ND	3.30	2.70	2.40	300-8227-2-ND	1680.00	CS3225H16.800MEEQTR
19.20000	300-8228-1-ND	3.30	2.70	2.40	300-8228-2-ND	1680.00	CS3225H19.200MEEQTR
24.55350	300-8229-1-ND	3.30	2.70	2.40	300-8229-2-ND	1680.00	CS3225H24.5535MEEQTR
26.00000	300-8230-1-ND	3.30	2.70	2.40	300-8230-2-ND	1680.00	CS3225H26.000MEEQTR
				CS5032H — Fig. 2			
10.00000	300-8195-1-ND	1.93	1.58	1.40	300-8195-2-ND	980.00	CS5032H10.000MEEQTR
11.05920	300-8196-1-ND	1.93	1.58	1.40	300-8196-2-ND	980.00	CS5032H11.0592MEEQTR
12.00000	300-8197-1-ND	1.93	1.58	1.40	300-8197-2-ND	980.00	CS5032H12.000MEEQTR
12.28800	300-8198-1-ND	1.93	1.58	1.40	300-8198-2-ND	980.00	CS5032H12.288MEEQTR
12.80000	300-8199-1-ND	1.93	1.58	1.40	300-8199-2-ND	980.00	CS5032H12.800MEEQTR
13.00000	300-8200-1-ND	1.93	1.58	1.40	300-8200-2-ND	980.00	CS5032H13.000MEEQTR
13.50000	300-8201-1-ND	1.93	1.58	1.40	300-8201-2-ND	980.00	CS5032H13.500MEEQTR
13.56000	300-8202-1-ND	1.93	1.58	1.40	300-8202-2-ND	980.00	CS5032H13.560MEEQTR
14.40000	300-8203-1-ND	1.93	1.58	1.40	300-8203-2-ND	980.00	CS5032H14.400MEEQTR
14.74560	300-8204-1-ND	1.93	1.58	1.40	300-8204-2-ND	980.00	CS5032H14.7456MEEQTR
15.36000	300-8205-1-ND	1.93	1.58	1.40	300-8205-2-ND	980.00	CS5032H15.360MEEQTR
16.00000	300-8206-1-ND	1.93	1.58	1.40	300-8206-2-ND	980.00	CS5032H16.000MEEQTR
16.38400	300-8207-1-ND	1.93	1.58	1.40	300-8207-2-ND	980.00	CS5032H16.384MEEQTR
16.80000	300-8208-1-ND	1.93	1.58	1.40	300-8208-2-ND	980.00	CS5032H16.800MEEQTR
18.43200	300-8209-1-ND	1.93	1.58	1.40	300-8209-2-ND	980.00	CS5032H18.432MEEQTR
19.20000	300-8210-1-ND	1.93	1.58	1.40	300-8210-2-ND	980.00	CS5032H19.200MEEQTR
19.44000	300-8211-1-ND	1.93	1.58	1.40	300-8211-2-ND	980.00	CS5032H19.440MEEQTR
19.68000	300-8212-1-ND	1.93	1.58	1.40	300-8212-2-ND	980.00	CS5032H19.680MEEQTR
19.80000	300-8213-1-ND	1.93	1.58	1.40	300-8213-2-ND	980.00	CS5032H19.800MEEQTR
20.00000	300-8214-1-ND	1.93	1.58	1.40	300-8214-2-ND	980.00	CS5032H20.000MEEQTR
22.00000	300-8215-1-ND	1.93	1.58	1.40	300-8215-2-ND	980.00	CS5032H22.000MEEQTR
24.00000	300-8216-1-ND	1.93	1.58	1.40	300-8216-2-ND	980.00	CS5032H24.000MEEQTR
24.57600	300-8217-1-ND	1.93	1.58	1.40	300-8217-2-ND	980.00	CS5032H24.576MEEQTR
25.00000	300-8218-1-ND	1.93	1.58	1.40	300-8218-2-ND	980.00	CS5032H25.000MEEQTR
26.00000	300-8219-1-ND	1.93	1.58	1.40	300-8219-2-ND	980.00	CS5032H26.000MEEQTR
28.63636	300-8220-1-ND	1.93	1.58	1.40	300-8220-2-ND	980.00	CS5032H28.63636MEEQTR
29.49120	300-8221-1-ND	1.93	1.58	1.40	300-8221-2-ND	980.00	CS5032H29.4912MEEQTR
30.00000	300-8222-1-ND	1.93	1.58	1.40	300-8222-2-ND	980.00	CS5032H30.000MEEQTR
40.00000	300-8223-1-ND	1.93	1.58	1.40	300-8223-2-ND	980.00	CS5032H40.000MEEQTR
44.00000	300-8224-1-ND	1.93	1.58	1.40	300-8224-2-ND	980.00	CS5032H44.000MEEQTR
48.00000	300-8225-1-ND	1.93	1.58	1.40	300-8225-2-ND	980.00	CS5032H48.000MEEQTR

CITIZEN™

Miniature Plastic Surface Mount 32.768KHz Crystals

CM130 and CM155

Specifications: • **Frequency:** 32.768KHz • **Operating Temperature:** -40°C ~ 85°C • **Load Capacitance:** 12.5pF • **Drive Level:** 1µW Maximum • **Frequency Tolerance:** ±20ppm • **Equivalent Series Resistance (ESR):** 65KΩ

Fig.	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	Tape and Reel Pricing 3,000	Citizen Part No.
1	300-8038-1-ND	1.24	1.02	.90	—	—	CM155-32.768KDZFTR
2	300-8039-1-ND	1.10	.90	.80	300-8039-2-ND	728.00/M	CM130-32.768KDZFTR

Fig. 1

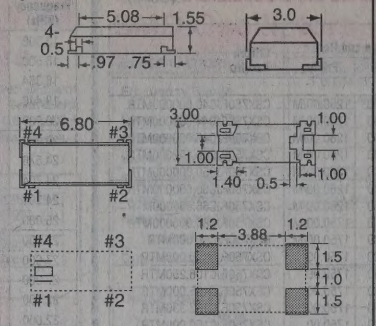
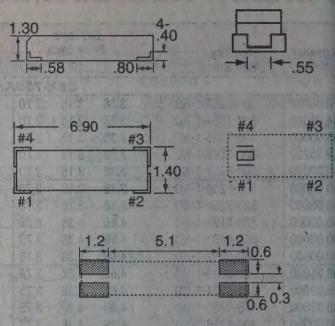


Fig. 2

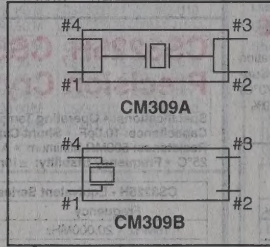


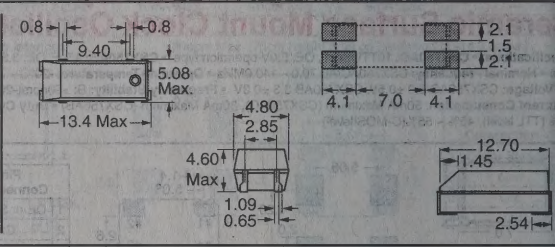
C

CM309 Series Crystals

Specifications:
• **Frequency Tolerance:** ±30ppm • **Frequency/Temperature:** ±50ppm, -10°C ~ 60°C • **Operating Temperature:** -40°C ~ 85°C • **Storage Temperature:** -55°C ~ 125°C • **Load Capacitance:** 18pF • **Shunt Capacitance:** 7pF • **Drive Level:** 50µW ~ 100µW • **Insulation Resistance:** 500MΩ Minimum • **Aging (First Year):** ±5ppm Maximum

Equivalent Series Resistance (ESR, R1)		
Frequency	ESR	Mode
3.5MHz ≤ fo < 4MHz	200	Fundamental
4MHz ≤ fo < 6MHz	150	
6MHz ≤ fo < 10MHz	100	
10MHz ≤ fo ≤ 32MHz	50	
30MHz < fo < 36MHz	100	3rd OT
36MHz ≤ fo < 66.6666MHz	80	





CM309A

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Tape and Reel Pricing* 1,000	Citizen Part No.
4.800000	300-4005-1-ND	1.51	1.30	.98	—	CM309A4.800MABJT
5.120000	300-4007-1-ND	1.51	1.30	.98	756.00	CM309A5.120MABJT
7.680000	300-4012-1-ND	1.51	1.30	.98	756.00	CM309A7.680MABJT
8.000156	300-4014-1-ND	1.51	1.30	.98	756.00	CM309A8.000156MABJT
8.192000	300-4015-1-ND	1.51	1.30	.98	756.00	CM309A8.192MABJT
9.216000	300-4016-1-ND	1.51	1.30	.98	756.00	CM309A9.216MABJT
9.830400	300-4018-1-ND	1.51	1.30	.98	756.00	CM309A9.8304MABJT
10.240000	300-4020-1-ND	1.51	1.30	.98	—	CM309A10.240MABJT
11.000000	300-4021-1-ND	1.51	1.30	.98	756.00	CM309A11.000MABJT
11.289600	300-4023-1-ND	1.51	1.30	.98	—	CM309A11.2896MABJT
12.288000	300-4025-1-ND	1.51	1.30	.98	—	CM309A12.288MABJT
12.352000	300-4026-1-ND	1.51	1.30	.98	756.00	CM309A12.352MABJT
12.500000	300-4027-1-ND	1.51	1.30	.98	756.00	CM309A12.500MABJT
15.000000	300-4031-1-ND	1.51	1.30	.98	756.00	CM309A15.000MABJT
15.360000	300-4032-1-ND	1.51	1.30	.98	756.00	CM309A15.360MABJT
16.000312	300-4034-1-ND	1.51	1.30	.98	756.00	CM309A16.000312MABJT
16.257000	300-4035-1-ND	1.51	1.30	.98	756.00	CM309A16.257MABJT
18.000000	300-4040-1-ND	1.51	1.30	.98	756.00	CM309A18.000MABJT
20.480000	300-4045-1-ND	1.51	1.30	.98	756.00	CM309A20.480MABJT
25.175000	300-4050-1-ND	1.51	1.30	.98	—	CM309A25.175MABJT
27.000000	300-4051-1-ND	1.51	1.30	.98	—	CM309A27.000MABJT
28.000000	300-4052-1-ND	1.51	1.30	.98	756.00	CM309A28.000MABJT
28.322000	300-4053-1-ND	1.51	1.30	.98	756.00	CM309A28.322MABJT
28.636360	300-4054-1-ND	1.51	1.30	.98	756.00	CM309A28.63636MABJT
29.491200	300-4055-1-ND	1.51	1.30	.98	—	CM309A29.4912MABJT
32.000000	300-4057-1-ND	1.51	1.30	.98	756.00	CM309A32.000MABJT
32.768000	300-4058-1-ND	1.51	1.30	.98	756.00	CM309A32.768MABJT
33.000000	300-4059-1-ND	1.51	1.30	.98	—	CM309A33.000MABJT
33.333300	300-4060-1-ND	1.51	1.30	.98	756.00	CM309A33.3333MABJT
33.868800	300-4061-1-ND	1.51	1.30	.98	756.00	CM309A33.8688MABJT
40.000000	300-4063-1-ND	1.51	1.30	.98	756.00	CM309A40.000MABJT
49.152000	300-4065-1-ND	1.51	1.30	.98	756.00	CM309A49.152MABJT
50.000000	300-4066-1-ND	1.51	1.30	.98	756.00	CM309A50.000MABJT
53.125000	300-4067-1-ND	1.51	1.30	.98	756.00	CM309A53.125MABJT
60.000000	300-4068-1-ND	1.51	1.30	.98	756.00	CM309A60.000MABJT
64.000000	300-4069-1-ND	1.51	1.30	.98	756.00	CM309A64.000MABJT
66.666600	300-4070-1-ND	1.51	1.30	.98	756.00	CM309A66.6666MABJT

CM309B

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Tape and Reel Pricing* 1,000	Citizen Part No.
3.579545	300-4101-1-ND	1.51	1.30	.98	—	CM309B3.579545MABJT
4.096000	300-4104-1-ND	1.51	1.30	.98	—	CM309B4.096MABJT
5.120000	300-4107-1-ND	1.51	1.30	.98	—	CM309B5.120MABJT
6.144000	300-4110-1-ND	1.51	1.30	.98	—	CM309B6.144MABJT
7.680000	300-4112-1-ND	1.51	1.30	.98	756.00	CM309B7.680MABJT
8.000156	300-4114-1-ND	1.51	1.30	.98	756.00	CM309B8.000156MABJT
9.600000	300-4117-1-ND	1.51	1.30	.98	—	CM309B9.600MABJT
9.830400	300-4118-1-ND	1.51	1.30	.98	756.00	CM309B9.8304MABJT
10.240000	300-4120-1-ND	1.51	1.30	.98	756.00	CM309B10.240MABJT
11.000000	300-4121-1-ND	1.51	1.30	.98	756.00	CM309B11.000MABJT
11.289600	300-4123-1-ND	1.51	1.30	.98	—	CM309B11.2896MABJT
12.352000	300-4126-1-ND	1.51	1.30	.98	756.00	CM309B12.352MABJT
12.500000	300-4127-1-ND	1.51	1.30	.98	756.00	CM309B12.500MABJT
15.360000	300-4132-1-ND	1.51	1.30	.98	756.00	CM309B15.360MABJT
16.000312	300-4134-1-ND	1.51	1.30	.98	756.00	CM309B16.000312MABJT
16.257000	300-4135-1-ND	1.51	1.30	.98	756.00	CM309B16.257MABJT
16.934400	300-4138-1-ND	1.51	1.30	.98	756.00	CM309B16.9344MABJT
17.734475	300-4139-1-ND	1.51	1.30	.98	—	CM309B17.734475MABJT
18.000000	300-4140-1-ND	1.51	1.30	.98	756.00	CM309B18.000MABJT
18.869000	300-4142-1-ND	1.51	1.30	.98	756.00	CM309B18.869MABJT
20.000000	300-4144-1-ND	1.51	1.30	.98	756.00	CM309B20.000MABJT
20.480000	300-4145-1-ND	1.51	1.30	.98	756.00	CM309B20.480MABJT
24.000000	300-4147-1-ND	1.51	1.30	.98	756.00	CM309B24.000MABJT
25.175000	300-4150-1-ND	1.51	1.30	.98	—	CM309B25.175MABJT
28.000000	300-4152-1-ND	1.51	1.30	.98	756.00	CM309B28.000MABJT
28.322000	300-4153-1-ND	1.51	1.30	.98	756.00	CM309B28.322MABJT
28.636360	300-4154-1-ND	1.51	1.30	.98	756.00	CM309B28.63636MABJT
32.000000	300-4157-1-ND	1.51	1.30	.98	756.00	CM309B32.000MABJT
32.768000	300-4158-1-ND	1.51	1.30	.98	—	CM309B32.768MABJT
33.000000	300-4159-1-ND	1.51	1.30	.98	756.00	CM309B33.000MABJT
33.333300	300-4160-1-ND	1.51	1.30	.98	756.00	CM309B33.3333MABJT
33.868800	300-4161-1-ND	1.51	1.30	.98	756.00	CM309B33.8688MABJT
40.000000	300-4163-1-ND	1.51	1.30	.98	—	CM309B40.000MABJT
48.000000	300-4164-1-ND	1.51	1.30	.98	756.00	CM309B48.000MABJT
49.152000	300-4165-1-ND	1.51	1.30	.98	756.00	CM309B49.152MABJT
50.000000	300-4166-1-ND	1.51	1.30	.98	756.00	CM309B50.000MABJT
53.125000	300-4167-1-ND	1.51	1.30	.98	756.00	CM309B53.125MABJT
60.000000	300-4168-1-ND	1.51	1.30	.98	756.00	CM309B60.000MABJT
64.000000	300-4169-1-ND	1.51	1.30	.98	756.00	CM309B64.000MABJT
66.666600	300-4170-1-ND	1.51	1.30	.98	756.00	CM309B66.6666MABJT

* For Tape & Reel Part No., change -1-ND to -2-ND

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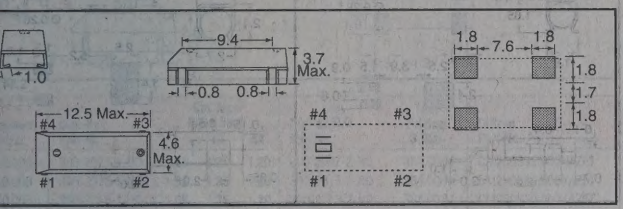
CITIZEN™

M309S Series Plastic urface Mount Crystals

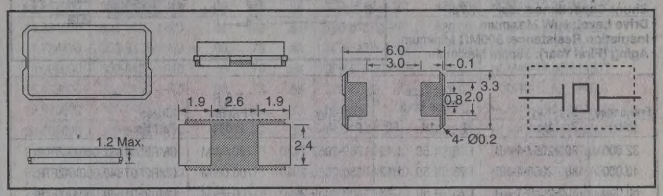
ifications:
erating Temperature: -40°C ~ 85°C
e Level: 100µW Maximum
d Capacitance: 18.0pF
quency/Temperature: ±50ppm, -10°C ~ 60°C
ivalent Series Resistance (ESR): 3.5MHz≤f0<4MHz 200Ω Maximum; 4MHz≤f0<6MHz 150Ω Maxi-
n; 6MHz≤f0<10MHz 100Ω Maximum; 10MHz≤f0<14MHz 80Ω Maximum; 14MHz≤f0<30MHz 50Ω
imum



quency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	T & R Pricing 1,000	Citizen Part No.
579545	300-8040-1-ND	1.10	.90	.80	300-8040-2-ND	664.00	CM309S3.579545MABJTR
686400	300-8041-1-ND	1.10	.90	.80	300-8041-2-ND	664.00	CM309S3.6864MABJTR
000000	300-8042-1-ND	1.10	.90	.80	300-8042-2-ND	664.00	CM309S4.000MABJTR
096000	300-8043-1-ND	1.10	.90	.80	300-8043-2-ND	664.00	CM309S4.096MABJTR
800000	300-2035-1-ND	1.10	.90	.80	300-2035-2-ND	664.00	CM309S4.800MABJTR
915200	300-8044-1-ND	1.10	.90	.80	300-8044-2-ND	664.00	CM309S4.9152MABJTR
120000	300-2036-1-ND	1.10	.90	.80	300-2036-2-ND	664.00	CM309S5.120MABJTR
529600	300-2037-1-ND	1.10	.90	.80	300-2037-2-ND	664.00	CM309S5.5296MABJTR
000000	300-8045-1-ND	1.10	.90	.80	300-8045-2-ND	664.00	CM309S6.000MABJTR
144000	300-8046-1-ND	1.10	.90	.80	300-8046-2-ND	664.00	CM309S6.144MABJTR
372800	300-8047-1-ND	1.10	.90	.80	300-8047-2-ND	664.00	CM309S7.3728MABJTR
000000	300-8049-1-ND	1.10	.90	.80	300-8049-2-ND	664.00	CM309S8.000MABJTR
000156	300-2038-1-ND	1.10	.90	.80	300-2038-2-ND	664.00	CM309S8.000156MABJTR
192000	300-2039-1-ND	1.10	.90	.80	300-2039-2-ND	664.00	CM309S8.192MABJTR
216000	300-2040-1-ND	1.10	.90	.80	300-2040-2-ND	664.00	CM309S9.216MABJTR
600000	300-2041-1-ND	1.10	.90	.80	300-2041-2-ND	664.00	CM309S9.600MABJTR
830000	300-8050-1-ND	1.10	.90	.80	300-8050-2-ND	664.00	CM309S9.830MABJTR
000000	300-8051-1-ND	1.10	.90	.80	300-8051-2-ND	664.00	CM309S10.000MABJTR
240000	300-8052-1-ND	1.10	.90	.80	300-8052-2-ND	664.00	CM309S10.240MABJTR
059200	300-8053-1-ND	1.10	.90	.80	300-8053-2-ND	664.00	CM309S11.0592MABJTR
000000	300-8055-1-ND	1.10	.90	.80	300-8055-2-ND	664.00	CM309S12.000MABJTR
288000	300-8056-1-ND	1.10	.90	.80	300-8056-2-ND	664.00	CM309S12.288MABJTR
352000	300-2042-1-ND	1.10	.90	.80	300-2042-2-ND	664.00	CM309S12.352MABJTR
500000	300-2043-1-ND	1.10	.90	.80	300-2043-2-ND	664.00	CM309S12.500MABJTR
500000	300-2044-1-ND	1.10	.90	.80	300-2044-2-ND	664.00	CM309S13.500MABJTR
318180	300-8057-1-ND	1.10	.90	.80	300-8057-2-ND	664.00	CM309S14.31818MABJTR
745600	300-8058-1-ND	1.10	.90	.80	300-8058-2-ND	664.00	CM309S14.7456MABJTR
000000	300-8059-1-ND	1.10	.90	.80	300-8059-2-ND	664.00	CM309S15.000MABJTR
360000	300-8060-1-ND	1.10	.90	.80	—	—	CM309S15.360MABJTR
000000	300-8061-1-ND	1.10	.90	.80	300-8061-2-ND	664.00	CM309S16.000MABJTR
000312	300-2045-1-ND	1.10	.90	.80	300-2045-2-ND	664.00	CM309S16.000312MABJTR
257000	300-2046-1-ND	1.10	.90	.80	300-2046-2-ND	664.00	CM309S16.257MABJTR
384000	300-2047-1-ND	1.10	.90	.80	300-2047-2-ND	664.00	CM309S16.384MABJTR
934400	300-2048-1-ND	1.10	.90	.80	300-2048-2-ND	664.00	CM309S16.9344MABJTR
734475	300-2049-1-ND	1.10	.90	.80	300-2049-2-ND	664.00	CM309S17.734475MABJTR
000000	300-2050-1-ND	1.10	.90	.80	300-2050-2-ND	664.00	CM309S18.000MABJTR
432000	300-8063-1-ND	1.10	.90	.80	300-8063-2-ND	664.00	CM309S18.432MABJTR
869000	300-2051-1-ND	1.10	.90	.80	300-2051-2-ND	664.00	CM309S18.869MABJTR
440000	300-8064-1-ND	1.10	.90	.80	—	—	CM309S19.440MABJTR
660800	300-8065-1-ND	1.10	.90	.80	300-8065-2-ND	664.00	CM309S19.6608MABJTR
000000	300-8066-1-ND	1.10	.90	.80	300-8066-2-ND	664.00	CM309S20.000MABJTR
118400	300-8068-1-ND	1.10	.90	.80	300-8068-2-ND	664.00	CM309S22.1184MABJTR
000000	300-8069-1-ND	1.10	.90	.80	300-8069-2-ND	664.00	CM309S24.000MABJTR
576000	300-2052-1-ND	1.10	.90	.80	300-2052-2-ND	664.00	CM309S24.576MABJTR
000000	300-8071-1-ND	1.10	.90	.80	300-8071-2-ND	664.00	CM309S25.000MABJTR
175000	300-2053-1-ND	1.10	.90	.80	300-2053-2-ND	664.00	CM309S25.175MABJTR
000000	300-8072-1-ND	1.10	.90	.80	300-8072-2-ND	664.00	CM309S27.000MABJTR
000000	300-2054-1-ND	1.10	.90	.80	300-2054-2-ND	664.00	CM309S28.000MABJTR
322000	300-2055-1-ND	1.10	.90	.80	300-2055-2-ND	664.00	CM309S28.322MABJTR
636360	300-8073-1-ND	1.10	.90	.80	300-8073-2-ND	664.00	CM309S28.63636MABJTR
491200	300-8074-1-ND	1.10	.90	.80	300-8074-2-ND	664.00	CM309S29.4912MABJTR
000000	300-8076-1-ND	1.10	.90	.80	300-8076-2-ND	664.00	CM309S32.000MABJTR
768000	300-8077-1-ND	1.10	.90	.80	300-8077-2-ND	664.00	CM309S32.768MABJTR
000000	300-8078-1-ND	1.10	.90	.80	300-8078-2-ND	664.00	CM309S33.000MABJTR
333300	300-8079-1-ND	1.10	.90	.80	—	—	CM309S33.3333MABJTR
868800	300-2056-1-ND	1.10	.90	.80	300-2056-2-ND	664.00	CM309S33.8688MABJTR
000000	300-8080-1-ND	1.10	.90	.80	—	—	CM309S36.000MABJTR
000000	300-8081-1-ND	1.10	.90	.80	—	—	CM309S40.000MABJTR
000000	300-8082-1-ND	1.10	.90	.80	300-8082-2-ND	664.00	CM309S48.000MABJTR
000000	300-8084-1-ND	1.10	.90	.80	—	—	CM309S50.000MABJTR
125000	300-8085-1-ND	1.10	.90	.80	—	—	CM309S53.125MABJTR
000000	300-8086-1-ND	1.10	.90	.80	—	—	CM309S60.000MABJTR
666600	300-8088-1-ND	1.10	.90	.80	—	—	CM309S66.6666MABJTR

CS10 Series Ceramic Surface Mount Crystals

Specifications:
• **Frequency/Temperature:** ±50ppm, -10°C ~ 60°C • **Operating Temperature:** -40°C ~ 85°C • **Drive Level:** 50µW Max. • **Frequency Tolerance:** ±30ppm • **Load Capacitance:** 18.0pF • **Equivalent Series Resistance (ESR):** 50Ω Max. • **Operating Mode:** Fundamental

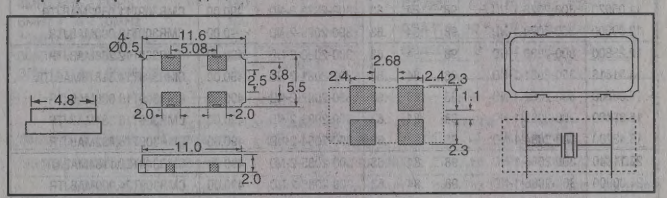


Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	Tape and Reel Pricing 2,000	Citizen Part No.
12.000000	300-8089-1-ND	1.24	1.02	.90	300-8089-2-ND	630.00/M	CS10-12.000MABJTR
12.288000	300-8090-1-ND	1.24	1.02	.90	300-8090-2-ND	630.00/M	CS10-12.288MABJTR
12.500000	300-8091-1-ND	1.24	1.02	.90	300-8091-2-ND	630.00/M	CS10-12.500MABJTR
13.560000	300-8092-1-ND	1.24	1.02	.90	300-8092-2-ND	630.00/M	CS10-13.560MABJTR
14.318180	300-8093-1-ND	1.24	1.02	.90	300-8093-2-ND	630.00/M	CS10-14.31818MABJTR
14.745600	300-8094-1-ND	1.24	1.02	.90	300-8094-2-ND	630.00/M	CS10-14.7456MABJTR
15.360000	300-8095-1-ND	1.65	1.35	1.20	300-8095-2-ND	630.00/M	CS10-15.360MABJTR
16.000000	300-8096-1-ND	1.24	1.02	.90	300-8096-2-ND	630.00/M	CS10-16.000MABJTR
16.384000	300-8097-1-ND	1.65	1.35	1.20	300-8097-2-ND	630.00/M	CS10-16.384MABJTR
18.432000	300-8098-1-ND	1.24	1.02	.90	300-8098-2-ND	630.00/M	CS10-18.432MABJTR
19.660800	300-8100-1-ND	1.24	1.02	.90	300-8100-2-ND	630.00/M	CS10-19.6608MABJTR
20.000000	300-8101-1-ND	1.24	1.02	.90	300-8101-2-ND	630.00/M	CS10-20.000MABJTR
22.118400	300-8102-1-ND	1.24	1.02	.90	300-8102-2-ND	630.00/M	CS10-22.1184MABJTR
24.000000	300-8103-1-ND	1.24	1.02	.90	300-8103-2-ND	630.00/M	CS10-24.000MABJTR
24.576000	300-8104-1-ND	1.24	1.02	.90	300-8104-2-ND	630.00/M	CS10-24.576MABJTR
25.000000	300-8105-1-ND	1.24	1.02	.90	300-8105-2-ND	630.00/M	CS10-25.000MABJTR
27.000000	300-8106-1-ND	1.24	1.02	.90	300-8106-2-ND	630.00/M	CS10-27.000MABJTR
28.636360	300-8107-1-ND	1.24	1.02	.90	300-8107-2-ND	630.00/M	CS10-28.63636MABJTR
32.000000	300-8110-1-ND	1.65	1.35	1.20	300-8110-2-ND	630.00/M	CS10-32.000MABJTR
33.000000	300-8112-1-ND	1.24	1.02	.90	300-8112-2-ND	630.00/M	CS10-33.000MABJTR
40.000000	300-8114-1-ND	1.24	1.02	.90	300-8114-2-ND	630.00/M	CS10-40.000MABJTR
48.000000	300-8115-1-ND	1.24	1.02	.90	300-8115-2-ND	630.00/M	CS10-48.000MABJTR

CS20 Series Ceramic Surface Mount Crystals

Specifications:
- **Operating Temperature:** -40°C ~ 85°C
- **Drive Level:** 100µW Max.
- **Frequency Tolerance:** ±30ppm
- **Load Capacitance:** 18.0pF
- **Frequency/Temperature:** ±50ppm, -10°C ~ 60°C

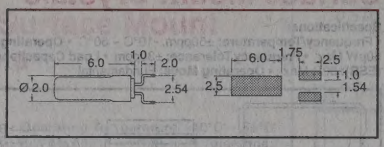
Equivalent Series Resistance (ESR Ω Max.)		
Frequency	ESR	Mode
3.5MHz ≤ fo < 4.0MHz	200	
4.0MHz ≤ fo < 6.0MHz	150	
6.0MHz ≤ fo < 10.0MHz	100	Fundamental
10.0MHz ≤ fo < 14.0MHz	80	
14.0MHz < fo ≤ 30.0MHz	50	



Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	Tape and Reel Pricing 2,000	Citizen Part No.
3.579545	300-8116-1-ND	1.10	.90	.80	300-8116-2-ND	560.00/M	CS20-3.579545MABJTR
3.686400	300-8117-1-ND	1.10	.90	.80	300-8117-2-ND	560.00/M	CS20-3.6864MABJTR
4.000000	300-8118-1-ND	1.10	.90	.80	300-8118-2-ND	560.00/M	CS20-4.000MABJTR
4.096000	300-8119-1-ND	1.10	.90	.80	300-8119-2-ND	560.00/M	CS20-4.096MABJTR
4.915200	300-8120-1-ND	1.10	.90	.80	300-8120-2-ND	560.00/M	CS20-4.9152MABJTR
5.000000	300-8121-1-ND	1.10	.90	.80	300-8121-2-ND	560.00/M	CS20-5.000MABJTR
6.000000	300-8122-1-ND	1.10	.90	.80	300-8122-2-ND	560.00/M	CS20-6.000MABJTR
6.144000	300-8123-1-ND	1.32	1.08	.96	300-8123-2-ND	560.00/M	CS20-6.144MABJTR
7.372800	300-8124-1-ND	1.10	.90	.80	300-8124-2-ND	560.00/M	CS20-7.3728MABJTR
7.680000	300-8125-1-ND	1.32	1.08	.96	300-8125-2-ND	560.00/M	CS20-7.680MABJTR
8.000000	300-8126-1-ND	1.10	.90	.80	300-8126-2-ND	560.00/M	CS20-8.000MABJTR
10.000000	300-8127-1-ND	1.10	.90	.80	300-8127-2-ND	560.00/M	CS20-10.000MABJTR
11.059200	300-8128-1-ND	1.10	.90	.80	300-8128-2-ND	560.00/M	CS20-11.0592MABJTR
11.289600	300-8129-1-ND	1.10	.90	.80	300-8129-2-ND	560.00/M	CS20-11.2896MABJTR
12.000000	300-8130-1-ND	1.10	.90	.80	300-8130-2-ND	560.00/M	CS20-12.000MABJTR
12.288000	300-8131-1-ND	1.10	.90	.80	300-8131-2-ND	560.00/M	CS20-12.288MABJTR
14.318180	300-8132-1-ND	1.32	1.08	.96	—	—	CS20-14.31818MABJTR
14.745600	300-8133-1-ND	1.10	.90	.80	300-8133-2-ND	560.00/M	CS20-14.7456MABJTR
15.360000	300-8134-1-ND	1.32	1.08	.96	—	—	CS20-15.360MABJTR
16.000000	300-8135-1-ND	1.10	.90	.80	300-8135-2-ND	560.00/M	CS20-16.000MABJTR
18.432000	300-8137-1-ND	1.32	1.08	.96	300-8137-2-ND	560.00/M	CS20-18.432MABJTR
19.440000	300-8138-1-ND	1.32	1.08	.96	300-8138-2-ND	560.00/M	CS20-19.440MABJTR
20.000000	300-8139-1-ND	1.10	.90	.80	300-8139-2-ND	560.00/M	CS20-20.000MABJTR
20.480000	300-8140-1-ND	1.32	1.08	.96	—	—	CS20-20.480MABJTR
22.118400	300-8141-1-ND	1.10	.90	.80	300-8141-2-ND	560.00/M	CS20-22.1184MABJTR
24.000000	300-8142-1-ND	1.32	1.08	.96	—	—	CS20-24.000MABJTR
24.576000	300-8143-1-ND	1.10	.90	.80	300-8143-2-ND	560.00/M	CS20-24.576MABJTR
25.000000	300-8144-1-ND	1.10	.90	.80	300-8144-2-ND	560.00/M	CS20-25.000MABJTR

CITIZEN™ CMR250T Series Crystals

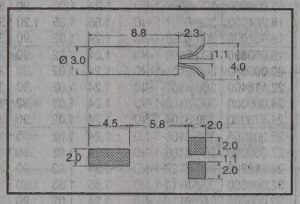
Specifications:
- **Frequency Tolerance:** ±30ppm
- **Operating Temperature:** -40°C ~ 85°C
- **Storage Temperature:** -55°C ~ 125°C
- **Load Capacitance:** 12.5pF
- **Shunt Capacitance:** .8pF ~ 1.7pF
- **Drive Level:** 1µW Maximum
- **Insulation Resistance:** 500MΩ Minimum
- **Aging (First Year):** ±5ppm Maximum



Frequency (kHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	T & R Pricing 2,000	Citizen Part No.
32.000	300-2057-1-ND	1.75	1.50	1.13	300-2057-2-ND	700.00/M	CMR250TB32.000KAZFTR
40.000	300-2058-1-ND	1.75	1.50	1.13	300-2058-2-ND	700.00/M	CMR250TB40.000KAZFTR
60.000	300-2059-1-ND	1.75	1.50	1.13	300-2059-2-ND	700.00/M	CMR250TB60.000KAZFTR
65.535	300-2060-1-ND	1.75	1.50	1.13	300-2060-2-ND	700.00/M	CMR250TB65.535KAZFTR
75.000	300-2061-1-ND	1.75	1.50	1.13	300-2061-2-ND	700.00/M	CMR250TB75.000KAZFTR
76.800	300-2062-1-ND	1.75	1.50	1.13	300-2062-2-ND	700.00/M	CMR250TB76.8KAZFTR
96.000	300-2063-1-ND	1.75	1.50	1.13	300-2063-2-ND	700.00/M	CMR250TB96.000KAZFTR
100.000	300-2064-1-ND	1.75	1.50	1.13	300-2064-2-ND	700.00/M	CMR250TB100.000KAZFTR

CMR309T Series Crystals

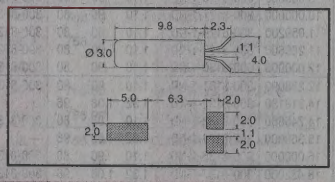
Specifications:
- **Frequency/Temperature:** ±50ppm, -10°C ~ 60°C
- **Aging (first year):** ±5ppm Maximum @ 25°C
- **Frequency Tolerance:** ±30ppm
- **Operating Temperature:** -40°C ~ 85°C
- **Storage Temperature:** -55°C ~ 125°C
- **Load Capacitance:** 18.0pF
- **Shunt Capacitance:** 5pF
- **Drive Level:** 50µW ~ 100µW
- **Insulation Resistance:** 500MΩ Minimum
- **Mode of Oscillation:** Fundamental: 3.579545MHz to 27.000MHz; Third Overtone: 32.000MHz to 66.6660MHz



Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	T & R Pricing 1,000	Citizen Part No.
4.09600	300-2070-1-ND	.98	.84	.63	300-2070-2-ND	490.00	CMR309T4.096MABJTR
4.91520	300-2071-1-ND	.98	.84	.63	300-2071-2-ND	490.00	CMR309T4.9152MABJTR
5.00000	300-2072-1-ND	.98	.84	.63	300-2072-2-ND	490.00	CMR309T5.000MABJTR
6.00000	300-2073-1-ND	.98	.84	.63	300-2073-2-ND	490.00	CMR309T6.000MABJTR
7.37280	300-2074-1-ND	.98	.84	.63	300-2074-2-ND	490.00	CMR309T7.3728MABJTR
8.00000	300-2075-1-ND	.98	.84	.63	300-2075-2-ND	490.00	CMR309T8.000MABJTR
9.83040	300-2076-1-ND	.98	.84	.63	300-2076-2-ND	490.00	CMR309T9.8304MABJTR
10.00000	300-2077-1-ND	.98	.84	.63	300-2077-2-ND	490.00	CMR309T10.000MABJTR
11.05920	300-2078-1-ND	.98	.84	.63	300-2078-2-ND	490.00	CMR309T11.0592MABJTR
12.00000	300-2079-1-ND	.98	.84	.63	300-2079-2-ND	490.00	CMR309T12.000MABJTR
12.28800	300-2080-1-ND	.98	.84	.63	300-2080-2-ND	490.00	CMR309T12.288MABJTR
14.31818	300-2081-1-ND	.98	.84	.63	300-2081-2-ND	490.00	CMR309T14.31818MABJTR
16.00000	300-2082-1-ND	.98	.84	.63	300-2082-2-ND	490.00	CMR309T16.000MABJTR
16.38400	300-2083-1-ND	.98	.84	.63	300-2083-2-ND	490.00	CMR309T16.384MABJTR
18.43200	300-2084-1-ND	.98	.84	.63	300-2084-2-ND	490.00	CMR309T18.432MABJTR
22.11840	300-2085-1-ND	.98	.84	.63	300-2085-2-ND	490.00	CMR309T22.1184MABJTR
24.00000	300-2086-1-ND	.98	.84	.63	300-2086-2-ND	490.00	CMR309T24.000MABJTR
24.57600	300-2087-1-ND	.98	.84	.63	300-2087-2-ND	490.00	CMR309T24.576MABJTR
27.00000	300-2088-1-ND	.98	.84	.63	300-2088-2-ND	490.00	CMR309T27.000MABJTR
32.00000	300-2089-1-ND	.98	.84	.63	300-2089-2-ND	490.00	CMR309T32.000MABJTR
40.00000	300-2090-1-ND	.98	.84	.63	300-2090-2-ND	490.00	CMR309T40.000MABJTR
48.00000	300-2091-1-ND	.98	.84	.63	300-2091-2-ND	490.00	CMR309T48.000MABJTR
49.15200	300-2092-1-ND	.98	.84	.63	300-2092-2-ND	490.00	CMR309T49.152MABJTR
50.00000	300-2093-1-ND	.98	.84	.63	300-2093-2-ND	490.00	CMR309T50.000MABJTR
60.00000	300-2094-1-ND	.98	.84	.63	300-2094-2-ND	490.00	CMR309T60.000MABJTR
66.66600	300-2095-1-ND	.98	.84	.63	300-2095-2-ND	490.00	CMR309T66.666MABJTR

CMR310T Series Crystals

Specifications:
- **Frequency/Temperature:** ±50ppm, -10°C ~ 60°C
- **Aging (first year):** ±5ppm Maximum @ 25°C
- **Frequency Tolerance:** ±30ppm
- **Operating Temperature:** -40°C ~ 85°C
- **Storage Temperature:** -55°C ~ 125°C
- **Load Capacitance:** 18.0pF
- **Shunt Capacitance:** 5pF
- **Drive Level:** 50µW ~ 100µW
- **Insulation Resistance:** 500MΩ Minimum



Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	T & R Pricing 1,000	Citizen Part No.
3.579545	300-2067-1-ND	.98	.84	.63	300-2067-2-ND	490.00	CMR310T3.579545MABJTR
3.686400	300-2068-1-ND	.98	.84	.63	300-2068-2-ND	490.00	CMR310T3.6864MABJTR
4.000000	300-2069-1-ND	.98	.84	.63	300-2069-2-ND	490.00	CMR310T4.000MABJTR

CMJ145, CMJ206 and CMR200T Series 32.768kHz Crystals

Specifications:
- **Frequency:** 32.768kHz
- **Frequency Tolerance:** ±20ppm
- **Operating Temperature:** -40°C ~ 85°C
- **Storage Temperature:** -55°C ~ 125°C
- **Drive Level:** 1µW
- **Insulation Resistance:** 500MΩ

Fig. 1

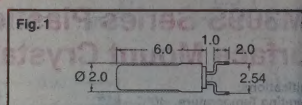


Fig. 2

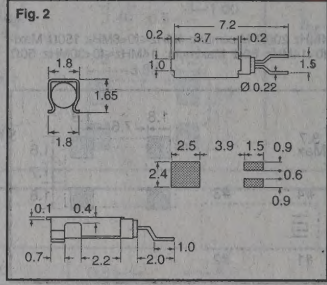


Fig. 3

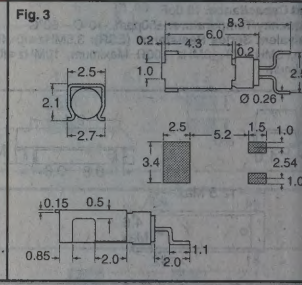


Fig.	Load Capacitance	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	Tape and Reel Size	Pricing	Citizen Part No.
1	6.0pF	300-2066-1-ND	.70	.60	.45	300-2066-2-ND	2,000	280.00/M	CMR200TB32.768KDZ
	12.5pF	300-2065-1-ND	.70	.60	.45	300-2065-2-ND	2,000	280.00/M	CMR200TB32.768KDZ
2	12.5pF	300-8190-1-ND	1.23	1.05	.79	300-8190-2-ND	4,000	490.00/M	CMJ145T32.768KDZF
3	6.0pF	300-8192-1-ND	.88	.75	.57	300-8192-2-ND	3,000	350.00/M	CMJ206T32.768KDZ
	12.5pF	300-8189-1-ND	.88	.75	.57	300-8189-2-ND	3,000	350.00/M	CMJ206T32.768KDZF

CM415, CM519 Series 32.768kHz Crystals

Specifications: • **Frequency:** 32.768kHz • **Frequency Tolerance:** ±20ppm • **Operating Temperat** -40°C ~ 85°C • **Storage Temperature:** -55°C ~ 125°C • **Equivalent Series Resistance (ESR):** Maximum • **Load Capacitance:** 12.5pF • **Drive Level:** 1µW Maximum • **Insulation Resistance:** 50 Minimum • **Aging (First Year):** ±5ppm Maximum @25°C

Fig. 1

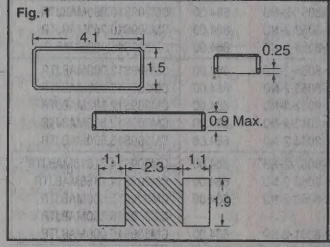


Fig. 2

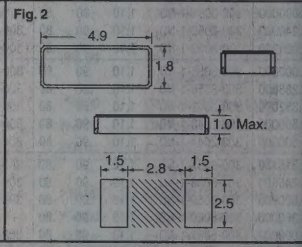
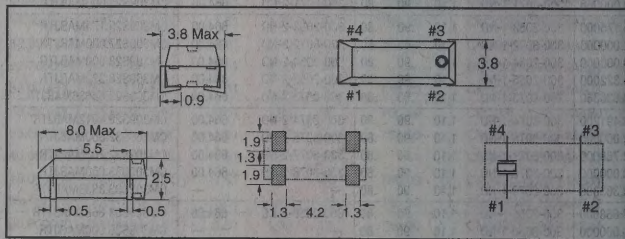


Fig.	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	Tape and Reel Pricing 3,000	Citizen Part No.
1	300-8193-1-ND	2.10	1.80	1.35	300-8193-2-ND	1092.00/M	CM415-32.768KDZFTR
2	300-8194-1-ND	1.75	1.50	1.13	300-8194-2-ND	910.00/M	CM519-32.768KDZFTR

CM200S Series 32.768kHz Crystals

Specifications:

• **Frequency:** 32.768kHz • **Frequency Tolerance:** ±20ppm • **Operating Temperature:** -40°C ~ 85°C • **S** **age Temperature:** -55°C ~ 125°C • **Equivalent Series Resistance:** 50kOhm Maximum • **Drive Level:** Maximum • **Insulation Resistance:** 500MΩ Minimum • **Aging (First Year):** ±3ppm Maximum



Load Capacitance	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	Tape and Reel Pricing 3,000	Citizen Part No.
12.5pF	300-1004-1-ND	.88	.75	.57	300-1004-2-ND	455.00/M	CM200S32.768KDZF
6.0pF	300-2034-1-ND	.88	.75	.57	300-2034-2-ND	410.00/M	CM200S32.768KDZ

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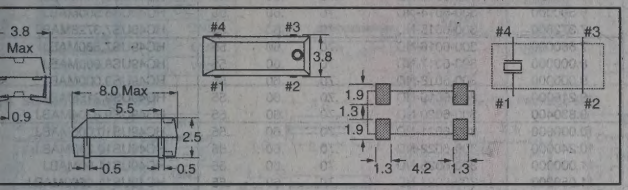
CITIZEN™

M250S Series Quartz Crystals

Specifications:

Frequency Tolerance: ±30ppm • **Operating Temperature:** -40°C ~ 85°C • **Storage Temperature:** -55°C ~ 125°C • **Load Capacitance:** 12.5pF • **Shunt Capacitance:** .8pF ~ 1.7pF • **Drive Level:** 1µW Maximum • **Insulation Resistance:** 500MΩ Minimum • **Aging (First Year):** ±5ppm Maximum



Frequency (kHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	T&R Pricing 3,000	Citizen Part No.
32.000	300-2007-1-ND	1.65	1.35	1.20	300-2007-2-ND	864.00/M	CM250S32.000KAZFT
40.000	300-2015-1-ND	1.65	1.35	1.20	300-2015-2-ND	864.00/M	CM250S40.000KAZFT
60.000	300-2018-1-ND	1.65	1.35	1.20	300-2018-2-ND	864.00/M	CM250S60.000KAZFT
60.005	300-2019-1-ND	1.65	1.35	1.20	300-2019-2-ND	864.00/M	CM250S60.005KAZFT
65.536	300-2020-1-ND	1.65	1.35	1.20	300-2020-2-ND	864.00/M	CM250S65.536KAZFT
75.000	300-2021-1-ND	1.65	1.35	1.20	300-2021-2-ND	864.00/M	CM250S75.000KAZFT
76.790	300-2022-1-ND	1.65	1.35	1.20	300-2022-2-ND	864.00/M	CM250S76.790KAZFT
76.800	300-2023-1-ND	1.65	1.35	1.20	300-2023-2-ND	864.00/M	CM250S76.800KAZFT
76.810	300-2024-1-ND	1.65	1.35	1.20	300-2024-2-ND	864.00/M	CM250S76.810KAZFT
77.500	300-2025-1-ND	1.65	1.35	1.20	300-2025-2-ND	864.00/M	CM250S77.500KAZFT
77.503	300-2026-1-ND	1.65	1.35	1.20	300-2026-2-ND	864.00/M	CM250S77.503KAZFT
96.000	300-2029-1-ND	1.65	1.35	1.20	300-2029-2-ND	864.00/M	CM250S96.000KAZFT
100.000	300-2030-1-ND	1.65	1.35	1.20	300-2030-2-ND	864.00/M	CM250S100.000KAZFT

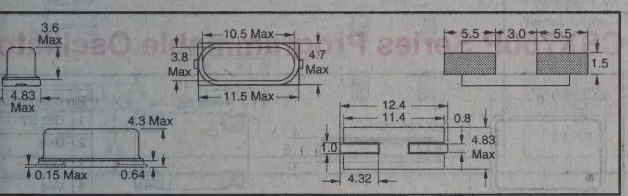
CM49 Series Surface Mount Crystals

Specifications:

Frequency Tolerance: ±30ppm over operating temperature range
Frequency/Temperature: ±50ppm, -10°C ~ 60°C
Operating Temperature: -40°C ~ 85°C
Storage Temperature: -55°C ~ 125°C
Load Capacitance: 18.0pF
Shunt Capacitance: 7pF Maximum
Drive Level: 50µW ~ 100µW
Insulation Resistance: 500 MΩ Minimum
Aging (First Year): ±5ppm Maximum

Equivalent Series Resistance (ESR, R1) (Ω Maximum)

Frequency	ESR
3.5MHz ≤ fo < 4.0MHz	200
4.0MHz ≤ fo < 6.0MHz	150
6.0MHz ≤ fo < 10.0MHz	100
10.0MHz ≤ fo < 14.0MHz	80
14.0MHz ≤ fo ≤ 25.0MHz	50
30.0MHz ≤ fo ≤ 36.0MHz	140
36.0MHz ≤ fo ≤ 50.0MHz	100



Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	T&R Pricing 1,000	Citizen Part No.
3.579545	300-6101-1-ND	.90	.78	.68	300-6101-2-ND	420.00	HCM49-3.579545MABJT
3.686400	300-6102-1-ND	.90	.78	.68	300-6102-2-ND	420.00	HCM49-3.6864MABJT
4.000000	300-6103-1-ND	.90	.78	.68	300-6103-2-ND	420.00	HCM49-4.000MABJT
4.032000	300-6104-1-ND	.90	.78	.68	300-6104-2-ND	420.00	HCM49-4.032MABJT
4.096000	300-6105-1-ND	.90	.78	.68	300-6105-2-ND	420.00	HCM49-4.096MABJT
4.194304	300-6106-1-ND	.90	.78	.68	300-6106-2-ND	420.00	HCM49-4.194304MABJT
4.433619	300-6107-1-ND	.90	.78	.68	300-6107-2-ND	420.00	HCM49-4.433619MABJT
4.915200	300-6108-1-ND	.90	.78	.68	300-6108-2-ND	420.00	HCM49-4.9152MABJT
5.000000	300-6109-1-ND	.90	.78	.68	300-6109-2-ND	420.00	HCM49-5.000MABJT
5.068800	300-6110-1-ND	.90	.78	.68	300-6110-2-ND	420.00	HCM49-5.0688MABJT
5.990400	300-6111-1-ND	.90	.78	.68	300-6111-2-ND	420.00	HCM49-5.9904MABJT
6.000000	300-6112-1-ND	.90	.78	.68	300-6112-2-ND	420.00	HCM49-6.000MABJT
6.144000	300-6113-1-ND	.90	.78	.68	300-6113-2-ND	420.00	HCM49-6.144MABJT
6.500000	300-6114-1-ND	.90	.78	.68	300-6114-2-ND	420.00	HCM49-6.500MABJT
7.372800	300-6115-1-ND	.90	.78	.68	300-6115-2-ND	420.00	HCM49-7.3728MABJT
7.680000	300-6116-1-ND	.90	.78	.68	300-6116-2-ND	420.00	HCM49-7.680MABJT
8.000000	300-6117-1-ND	.90	.78	.68	300-6117-2-ND	420.00	HCM49-8.000MABJT
9.000000	300-6118-1-ND	.90	.78	.68	300-6118-2-ND	420.00	HCM49-9.000MABJT
9.830400	300-6120-1-ND	.90	.78	.68	300-6120-2-ND	420.00	HCM49-9.8304MABJT
10.000000	300-6121-1-ND	.90	.78	.68	300-6121-2-ND	420.00	HCM49-10.000MABJT
10.240000	300-6122-1-ND	.90	.78	.68	300-6122-2-ND	420.00	HCM49-10.240MABJT
11.000000	300-6123-1-ND	.90	.78	.68	300-6123-2-ND	420.00	HCM49-11.000MABJT
11.059200	300-6124-1-ND	.90	.78	.68	300-6124-2-ND	420.00	HCM49-11.0592MABJT
11.520000	300-6125-1-ND	.90	.78	.68	300-6125-2-ND	420.00	HCM49-11.520MABJT
12.000000	300-6127-1-ND	.90	.78	.68	300-6127-2-ND	420.00	HCM49-12.000MABJT
12.000393	300-6128-1-ND	.90	.78	.68	300-6128-2-ND	420.00	HCM49-12.000393MABJT
12.288000	300-6129-1-ND	.90	.78	.68	300-6129-2-ND	420.00	HCM49-12.288MABJT
13.500000	300-6162-1-ND	.90	.78	.68	300-6162-2-ND	420.00	HCM49-13.500MABJT
14.318180	300-6130-1-ND	.90	.78	.68	300-6130-2-ND	420.00	HCM49-14.31818MABJT
14.745600	300-6131-1-ND	.90	.78	.68	300-6131-2-ND	420.00	HCM49-14.7456MABJT
15.000000	300-6132-1-ND	.90	.78	.68	300-6132-2-ND	420.00	HCM49-15.000MABJT
15.360000	300-6133-1-ND	.90	.78	.68	300-6133-2-ND	420.00	HCM49-15.360MABJT
16.000000	300-6134-1-ND	.90	.78	.68	300-6134-2-ND	420.00	HCM49-16.000MABJT
16.000312	300-6135-1-ND	.90	.78	.68	300-6135-2-ND	420.00	HCM49-16.000312MABJT
16.257000	300-6136-1-ND	.90	.78	.68	300-6136-2-ND	420.00	HCM49-16.257MABJT
16.384000	300-6137-1-ND	.90	.78	.68	300-6137-2-ND	420.00	HCM49-16.384MABJT
17.734475	300-6138-1-ND	.90	.78	.68	300-6138-2-ND	420.00	HCM49-17.734475MABJT
18.000000	300-6139-1-ND	.90	.78	.68	300-6139-2-ND	420.00	HCM49-18.000MABJT
18.432000	300-6140-1-ND	.90	.78	.68	300-6140-2-ND	420.00	HCM49-18.432MABJT
19.660800	300-6141-1-ND	.90	.78	.68	300-6141-2-ND	420.00	HCM49-19.6608MABJT
20.000000	300-6142-1-ND	.90	.78	.68	300-6142-2-ND	420.00	HCM49-20.000MABJT
21.477270	300-6143-1-ND	.90	.78	.68	300-6143-2-ND	420.00	HCM49-21.47727MABJT
22.118400	300-6144-1-ND	.90	.78	.68	300-6144-2-ND	420.00	HCM49-22.1184MABJT
24.000000	300-6145-1-ND	.90	.78	.68	300-6145-2-ND	420.00	HCM49-24.000MABJT
24.000140	300-6146-1-ND	.90	.78	.68	300-6146-2-ND	420.00	HCM49-24.00014MABJT
24.576000	300-6147-1-ND	.90	.78	.68	300-6147-2-ND	420.00	HCM49-24.576MABJT
25.000000	300-6148-1-ND	.90	.78	.68	300-6148-2-ND	420.00	HCM49-25.000MABJT
25.175000	300-6149-1-ND	.90	.78	.68	300-6149-2-ND	420.00	HCM49-25.175MABJT
27.000000	300-6150-1-ND	.90	.78	.68	300-6150-2-ND	420.00	HCM49-27.000MABJT
28.636360	300-6152-1-ND	.90	.78	.68	300-6152-2-ND	420.00	HCM49-28.63636MABJT
32.000000	300-6153-1-ND	.90	.78	.68	300-6153-2-ND	420.00	HCM49-32.000MABJT
33.868800	300-6156-1-ND	.90	.78	.68	300-6156-2-ND	420.00	HCM49-33.8688MABJT
40.000000	300-6157-1-ND	.90	.78	.68	300-6157-2-ND	420.00	HCM49-40.000MABJT
48.000000	300-6158-1-ND	.90	.78	.68	300-6158-2-ND	420.00	HCM49-48.000MABJT
49.152000	300-6159-1-ND	.90	.78	.68	300-6159-2-ND	420.00	HCM49-49.152MABJT
50.000000	300-6160-1-ND	.90	.78	.68	300-6160-2-ND	420.00	HCM49-50.000MABJT

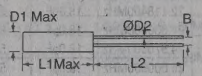
Cylinder Type Crystals

Specifications:

- **Frequency Tolerance:** CFS Series: ±20ppm; CFV and CSA Series: ±30ppm
- **Frequency Temperature Characteristics:** CSA Series: ±50ppm (-10°C ~ 60°C)
- **Operating Temperature Range:** -10°C ~ 60°C
- **Storage Temperature Range:** -40°C ~ 85°C
- **Drive Level:** CFS and CFV Series: 1µW Maximum; CSA Series: 50µW to 100µW
- **Insulation Resistance:** 500MΩ Minimum
- **Aging (first year):** CFS Series: ±3ppm Maximum; CFV and CSA Series: ±5ppm Maximum

Equivalent Series Resistance (ESR, R1)

Frequency	ESR	Mode
3.5MHz ≤ fo < 4MHz	200	Fundamental
4MHz ≤ fo < 6MHz	150	
6MHz ≤ fo < 10MHz	100	
10MHz ≤ fo ≤ 32MHz	50	
30MHz < fo < 36MHz	100	3rd OT
36MHz ≤ fo < 66.6666MHz	80	



Series	Dimensions (mm) L1 Max.	L2	D1 Max.	D2	B
CFS145	5.1	4.3	1.5	0.2	0.45
CFS206	6.2	10	2.1	0.26	0.7
CFS308	8.2	10	3.1	0.35	1.1
CFV206	6.2	10	2.1	0.26	0.7
CSA310	10.5	10	3.2	0.32	1.1
CSA309	9	10	3.2	0.32	1.1

Series	Frequency	Load Capacitance	Shunt Capacitance (pF)	Digi-Key Part No.	Price Each 1	10	50	Citizen Part No.
CFS145	32.768000kHz	12.5pF	1	300-1003-ND	.77	.66	.55	CFS145-32.768KDZF
CFS206	32.768000kHz	6.0pF	1.35	300-1000-ND	.28	.24	.16	CFS206-32.768KDZBB
	32.768000kHz	12.5pF	1.35	300-1002-ND	.28	.24	.16	CFS206-32.768KDZF
CFS308	32.768000kHz	12.5pF	1.6	300-1001-ND	.28	.24	.16	CFS308-32.768KDZF
CFV206	32.000000kHz	12.5pF	0.80 - 1.70	300-3007-ND	1.00	.90	.65	CFV206-32.000KAZF
	40.000000kHz	12.5pF	0.80 - 1.70	300-3015-ND	1.00	.90	.65	CFV206-40.000KAZF
	60.000000kHz	12.5pF	0.80 - 1.70	300-3018-ND	1.00	.90	.65	CFV206-60.000KAZF
	60.005000kHz	12.5pF	0.80 - 1.70	300-3019-ND	1.00	.90	.65	CFV206-60.005KAZF
	65.536000kHz	12.5pF	0.80 - 1.70	300-3020-ND	1.00	.90	.65	CFV206-65.536KAZF
	75.000000kHz	12.5pF	0.80 - 1.70	300-3021-ND	1.00	.90	.65	CFV206-75.000KAZF
	76.790000kHz	12.5pF	0.80 - 1.70	300-3022-ND	1.00	.90	.65	CFV206-76.790KAZF
	76.800000kHz	12.5pF	0.80 - 1.70	300-3023-ND	1.00	.90	.65	CFV206-76.800KAZF
	76.810000kHz	12.5pF	0.80 - 1.70	300-3024-ND	1.00	.90	.65	CFV206-76.810KAZF
	77.500000kHz	12.5pF	0.80 - 1.70	300-3025-ND	1.00	.90	.65	CFV206-77.500KAZF
	77.503000kHz	12.5pF	0.80 - 1.70	300-3026-ND	1.00	.90	.65	CFV206-77.503KAZF
	96.000000kHz	12.5pF	0.80 - 1.70	300-3029-ND	1.22	1.10	.79	CFV206-96.000KAZF
	100.000000kHz	12.5pF	0.80 - 1.70	300-3030-ND	1.00	.90	.65	CFV206-100.000KAZF
CSA309	4.096000MHz	18.0pF	5.00	300-5001-ND	.81	.69	.58	CSA309-4.096MABJ
	4.800000MHz	18.0pF	5.00	300-5002-ND	.81	.69	.58	CSA309-4.800MABJ
	4.915000MHz	18.0pF	5.00	300-5003-ND	.81	.69	.58	CSA309-4.915MABJ
	5.120000MHz	18.0pF	5.00	300-5004-ND	.81	.69	.58	CSA309-5.120MABJ
	5.529600MHz	18.0pF	5.00	300-5005-ND	.81	.69	.58	CSA309-5.5296MABJ
	6.000000MHz	18.0pF	5.00	300-5006-ND	.81	.69	.58	CSA309-6.000MABJ
	6.144000MHz	18.0pF	5.00	300-5007-ND	.81	.69	.58	CSA309-6.144MABJ
	7.372800MHz	18.0pF	5.00	300-5008-ND	.81	.69	.58	CSA309-7.3728MABJ
	7.680000MHz	18.0pF	5.00	300-5009-ND	.81	.69	.58	CSA309-7.680MABJ
	8.000000MHz	18.0pF	5.00	300-5010-ND	.81	.69	.58	CSA309-8.000MABJ

(Continued)

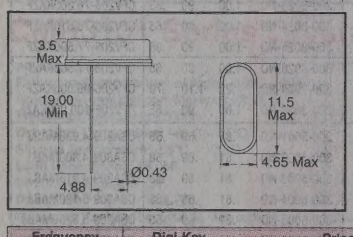
CITIZEN Cylinder Type Crystals (Cont.)

Series	Frequency	Load Capacitance	Shunt Capacitance (pF)	Digi-Key Part No.	Price Each 1	10	50	Citizen Part No.
CSA309	8.000156MHz	18.0pF	5.00	300-5011-ND	.81	.69	.58	CSA309-8.000156MABJ
	8.192000MHz	18.0pF	5.00	300-5012-ND	.81	.69	.58	CSA309-8.192MABJ
	9.216000MHz	18.0pF	5.00	300-5013-ND	.81	.69	.58	CSA309-9.216MABJ
	9.600000MHz	18.0pF	5.00	300-5014-ND	.81	.69	.58	CSA309-9.600MABJ
	9.830400MHz	18.0pF	5.00	300-5015-ND	.81	.69	.58	CSA309-9.8304MABJ
	10.000000MHz	18.0pF	5.00	300-5016-ND	.81	.69	.58	CSA309-10.000MABJ
	10.240000MHz	18.0pF	5.00	300-5017-ND	.81	.69	.58	CSA309-10.240MABJ
	11.000000MHz	18.0pF	5.00	300-5018-ND	.81	.69	.58	CSA309-11.000MABJ
	11.059200MHz	18.0pF	5.00	300-5019-ND	.81	.69	.58	CSA309-11.0592MABJ
	11.289600MHz	18.0pF	5.00	300-5020-ND	.81	.69	.58	CSA309-11.2896MABJ
	12.000000MHz	18.0pF	5.00	300-5021-ND	.81	.69	.58	CSA309-12.000MABJ
	12.288000MHz	18.0pF	5.00	300-5022-ND	.81	.69	.58	CSA309-12.288MABJ
	12.352000MHz	18.0pF	5.00	300-5023-ND	.81	.69	.58	CSA309-12.352MABJ
	12.500000MHz	18.0pF	5.00	300-5024-ND	.81	.69	.58	CSA309-12.500MABJ
	13.500000MHz	18.0pF	5.00	300-5025-ND	.81	.69	.58	CSA309-13.500MABJ
	14.318180MHz	18.0pF	5.00	300-5026-ND	.81	.69	.58	CSA309-14.31818MABJ
	14.745600MHz	18.0pF	5.00	300-5027-ND	.81	.69	.58	CSA309-14.7456MABJ
	15.000000MHz	18.0pF	5.00	300-5028-ND	.81	.69	.58	CSA309-15.000MABJ
	15.360000MHz	18.0pF	5.00	300-5029-ND	.81	.69	.58	CSA309-15.360MABJ
	16.000000MHz	18.0pF	5.00	300-5030-ND	.81	.69	.58	CSA309-16.000MABJ
	16.000312MHz	18.0pF	5.00	300-5031-ND	.81	.69	.58	CSA309-16.000312MABJ
	16.257000MHz	18.0pF	5.00	300-5032-ND	.81	.69	.58	CSA309-16.257MABJ
	16.384000MHz	18.0pF	5.00	300-5033-ND	.81	.69	.58	CSA309-16.384MABJ
	16.667000MHz	18.0pF	5.00	300-5034-ND	.81	.69	.58	CSA309-16.667MABJ
	16.934400MHz	18.0pF	5.00	300-5035-ND	.81	.69	.58	CSA309-16.9344MABJ
	17.734475MHz	18.0pF	5.00	300-5036-ND	.81	.69	.58	CSA309-17.734475MABJ
	18.000000MHz	18.0pF	5.00	300-5037-ND	.81	.69	.58	CSA309-18.000MABJ
	18.432000MHz	18.0pF	5.00	300-5038-ND	.81	.69	.58	CSA309-18.432MABJ
	18.869000MHz	18.0pF	5.00	300-5039-ND	.81	.69	.58	CSA309-18.869MABJ
	19.660800MHz	18.0pF	5.00	300-5040-ND	.81	.69	.58	CSA309-19.6608MABJ
	20.000000MHz	18.0pF	5.00	300-5041-ND	.81	.69	.58	CSA309-20.000MABJ
	20.480000MHz	18.0pF	5.00	300-5042-ND	.81	.69	.58	CSA309-20.480MABJ
	22.118400MHz	18.0pF	5.00	300-5043-ND	.81	.69	.58	CSA309-22.1184MABJ
	24.000000MHz	18.0pF	5.00	300-5044-ND	.81	.69	.58	CSA309-24.000MABJ
	24.576000MHz	18.0pF	5.00	300-5045-ND	.81	.69	.58	CSA309-24.576MABJ
	25.000000MHz	18.0pF	5.00	300-5046-ND	.81	.69	.58	CSA309-25.000MABJ
	25.175000MHz	18.0pF	5.00	300-5047-ND	.81	.69	.58	CSA309-25.175MABJ
	27.000000MHz	18.0pF	5.00	300-5048-ND	.81	.69	.58	CSA309-27.000MABJ
	28.000000MHz	18.0pF	5.00	300-5049-ND	.81	.69	.58	CSA309-28.000MABJ
	28.322000MHz	18.0pF	5.00	300-5050-ND	.81	.69	.58	CSA309-28.322MABJ
	28.636360MHz	18.0pF	5.00	300-5051-ND	.81	.69	.58	CSA309-28.63636MABJ
	29.491200MHz	18.0pF	5.00	300-5052-ND	.81	.69	.58	CSA309-29.4912MABJ
	30.000000MHz	18.0pF	5.00	300-5053-ND	.81	.69	.58	CSA309-30.000MABJ
	32.000000MHz	18.0pF	5.00	300-5054-ND	.81	.69	.58	CSA309-32.000MABJ
	32.768000MHz	18.0pF	5.00	300-5055-ND	.81	.69	.58	CSA309-32.768MABJ
	33.000000MHz	18.0pF	5.00	300-5056-ND	.81	.69	.58	CSA309-33.000MABJ
	33.333300MHz	18.0pF	5.00	300-5057-ND	.81	.69	.58	CSA309-33.3333MABJ
	33.868800MHz	18.0pF	5.00	300-5058-ND	.81	.69	.58	CSA309-33.8688MABJ
	40.000000MHz	18.0pF	5.00	300-5060-ND	.81	.69	.58	CSA309-40.000MABJ
	48.000000MHz	18.0pF	5.00	300-5061-ND	.81	.69	.58	CSA309-48.000MABJ
	49.152000MHz	18.0pF	5.00	300-5062-ND	.81	.69	.58	CSA309-49.152MABJ
	50.000000MHz	18.0pF	5.00	300-5063-ND	.81	.69	.58	CSA309-50.000MABJ
	53.125000MHz	18.0pF	5.00	300-5064-ND	.81	.69	.58	CSA309-53.125MABJ
	60.000000MHz	18.0pF	5.00	300-5065-ND	.81	.69	.58	CSA309-60.000MABJ
	64.000000MHz	18.0pF	5.00	300-5066-ND	.81	.69	.58	CSA309-64.000MABJ
	66.666600MHz	18.0pF	5.00	300-5067-ND	.81	.69	.58	CSA309-66.6666MABJ
CSA310	3.579545MHz	18.0pF	5.00	300-1008-ND	.81	.69	.58	CSA310-3.579545MABJ
	3.686400MHz	18.0pF	5.00	300-1009-ND	.81	.69	.58	CSA310-3.6864MABJ
	4.000000MHz	18.0pF	5.00	300-1010-ND	.81	.69	.58	CSA310-4.000MABJ

HC49US Series Through-Hole Crystals

Specifications:

• **Frequency Tolerance:** ±30ppm • **Operating Temperature:** -20°C ~ 70°C • **Storage Temperature:** -40°C ~ 85°C • **Load Capacitance:** 18.0pF • **Shunt Capacitance:** 7pF Maximum • **Drive Level:** 50µW ~ 100µW Maximum • **Insulation Resistance:** 500 MΩ Minimum • **Aging (First Year):** ±5ppm Maximum

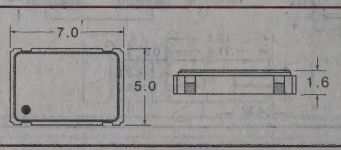


Equivalent Series Resistance (ESR, R1) (Ω Maximum)

Frequency	ESR
3.5MHz ≤ fo < 4.0MHz	200
4.0MHz ≤ fo < 6.0MHz	150
6.0MHz ≤ fo < 10.0MHz	100
10.0MHz ≤ fo < 14.0MHz	80
14.0MHz ≤ fo ≤ 25.0MHz	50
30.0MHz ≤ fo ≤ 36.0MHz	140
36.0MHz ≤ fo ≤ 50.0MHz	100

Frequency (MHz)	Digi-Key Part No.	Price Each 1	10	50	Citizen Part No.
3.579545	300-6001-ND	.70	.60	.55	HC49US3.579545MABJ
3.686400	300-6002-ND	.70	.60	.55	HC49US3.6864MABJ
4.000000	300-6003-ND	.70	.60	.55	HC49US4.000MABJ
4.032000	300-6004-ND	.70	.60	.55	HC49US4.032MABJ
4.096000	300-6005-ND	.70	.60	.55	HC49US4.096MABJ
4.194304	300-6006-ND	.70	.60	.55	HC49US4.194304MABJ
4.433619	300-6007-ND	.70	.60	.55	HC49US4.433619MABJ
4.915200	300-6008-ND	.70	.60	.55	HC49US4.9152MABJ
5.000000	300-6009-ND	.70	.60	.55	HC49US5.000MABJ
5.068800	300-6010-ND	.70	.60	.55	HC49US5.0688MABJ
5.990400	300-6011-ND	.70	.60	.55	HC49US5.9904MABJ
6.000000	300-6012-ND	.70	.60	.55	HC49US6.000MABJ
6.144000	300-6013-ND	.70	.60	.55	HC49US6.144MABJ
6.500000	300-6014-ND	.70	.60	.55	HC49US6.500MABJ
7.372800	300-6015-ND	.70	.60	.55	HC49US7.3728MABJ
7.680000	300-6016-ND	.70	.60	.55	HC49US7.680MABJ
8.000000	300-6017-ND	.70	.60	.55	HC49US8.000MABJ
9.000000	300-6018-ND	.70	.60	.55	HC49US9.000MABJ
9.216000	300-6019-ND	.70	.60	.55	HC49US9.216MABJ
9.830400	300-6020-ND	.70	.60	.55	HC49US9.8304MABJ
10.000000	300-6021-ND	.70	.60	.55	HC49US10.000MABJ
10.240000	300-6022-ND	.70	.60	.55	HC49US10.240MABJ
11.000000	300-6023-ND	.70	.60	.55	HC49US11.00MABJ
11.059200	300-6024-ND	.70	.60	.55	HC49US11.0592MABJ
11.520000	300-6025-ND	.70	.60	.55	HC49US11.520MABJ
12.000000	300-6027-ND	.70	.60	.55	HC49US12.000MABJ
12.000393	300-6028-ND	.70	.60	.55	HC49US12.000393MABJ
12.288000	300-6029-ND	.70	.60	.55	HC49US12.288MABJ
13.500000	300-6061-ND	.70	.60	.55	HC49US13.500MABJ
14.318180	300-6030-ND	.70	.60	.55	HC49US14.31818MABJ
14.745600	300-6031-ND	.70	.60	.55	HC49US14.7456MABJ
15.000000	300-6032-ND	.70	.60	.55	HC49US15.000MABJ
15.360000	300-6033-ND	.70	.60	.55	HC49US15.360MABJ
16.000000	300-6034-ND	.70	.60	.55	HC49US16.000MABJ
16.000312	300-6035-ND	.70	.60	.55	HC49US16.000312MABJ
16.257000	300-6036-ND	.70	.60	.55	HC49US16.257MABJ
16.384000	300-6037-ND	.70	.60	.55	HC49US16.384MABJ
17.734475	300-6038-ND	.70	.60	.55	HC49US17.734475MABJ
18.000000	300-6039-ND	.70	.60	.55	HC49US18.000MABJ
18.432000	300-6040-ND	.70	.60	.55	HC49US18.432MABJ
19.660800	300-6041-ND	.70	.60	.55	HC49US19.6608MABJ
20.000000	300-6042-ND	.70	.60	.55	HC49US20.000MABJ
21.477270	300-6043-ND	.70	.60	.55	HC49US21.47727MABJ
22.118400	300-6044-ND	.70	.60	.55	HC49US22.1184MABJ
24.000000	300-6045-ND	.70	.60	.55	HC49US24.000MABJ
24.000140	300-6046-ND	.70	.60	.55	HC49US24.00014MABJ
24.576000	300-6047-ND	.70	.60	.55	HC49US24.576MABJ
25.000000	300-6048-ND	.70	.60	.55	HC49US25.000MABJ
25.175000	300-6049-ND	.70	.60	.55	HC49US25.175MABJ
27.000000	300-6050-ND	.70	.60	.55	HC49US27.000MABJ
28.224000	300-6051-ND	.70	.60	.55	HC49US28.224MABJ
28.636360	300-6052-ND	.70	.60	.55	HC49US28.63636MABJ
32.000000	300-6053-ND	.70	.60	.55	HC49US32.000MABJ
33.868800	300-6056-ND	.70	.60	.55	HC49US33.8688MABJ
40.000000	300-6057-ND	.70	.60	.55	HC49US40.000MABJ
48.000000	300-6058-ND	.70	.60	.55	HC49US48.000MABJ
50.000000	300-6060-ND	.70	.60	.55	HC49US50.000MABJ

CSX750P Series Programmable Oscillato



Pin Connection	
1	OE, ST
2	Gnd
3	Out
4	Vdd

How to Select Base Number:

 # 1 = Select Supply Voltage, Output and Function
 # 2 = Select Frequency Stability / Operating Temperature
 # 3 = Select Packaging (leave last two boxes blank for Tube packaging).

Call Digi-Key with your selected Base Part Number, and a Sales Representative will enter your desired frequency. Parts come marked with Manufacture Date Lot Code only.
Once programmed, parts are non-cancelable, non-returnable!

Example Part Number:
CSX750 □□□□□□ - ND

#1	Supply Voltage	Output	Function
PD	5.0	CMOS	Standby
PC	5.0	CMOS	Output Enable
PJ	3.3	CMOS	Standby
PB	3.3	CMOS	Output Enable
PK	5.0	TTL	Standby
PT	5.0	TTL	Output Enable

#2	Frequency Stability/ Operating Temperature
C	±100ppm @ -20°C ~ 70°C
B	±50ppm @ -20°C ~ 70°C
F	±100ppm @ -40°C ~ 85°C

Frequency:
3.3V = 1.000 ~ 100.000 MHz
5.0V = 1.000 ~ 125.000 MHz

#3	Packaging
TR	Tape and Reel

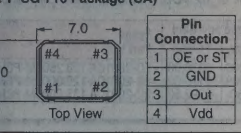
For Tube packaging, lea last two boxes blank.

Digi-Key Part No.	Tube Price Each 1	10	50	Digi-Key Part No.	Tape & Reel Pricing 100	500	1,0
CSX750□□□-ND	4.73	4.05	2.97	CSX750□□□□□-ND	270.00	1012.50	1800.
Blank Oscillator 5x7mm SMD							
CSX-750P1P-ND	3.60	3.33	2.97	—	—	—	

SG8002 Programmable Oscillators

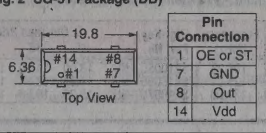
The SG-8002 Series gives you the flexibility to solve many different application problems with a one time programmable device. Programmable Oscillators provide the ability to pick a custom frequency in one of five different packages available in SMD and Thru-Hole styles. These five packages are pin compatible with the Epson SG-615, SG-636, SG-51, SG-531 and SG-710 Oscillators. Frequency ranges are available from 1Mhz to 125Mhz, in ±100ppm and ±50ppm frequency stability options and 3.3 or 5V power supply levels.

1 SG-710 Package (CA)



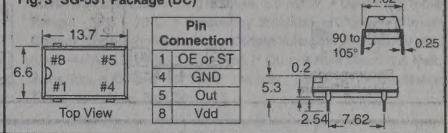
Pin	Connection
1	OE or ST
2	GND
3	Out
4	Vdd

Fig. 2 SG-51 Package (DB)



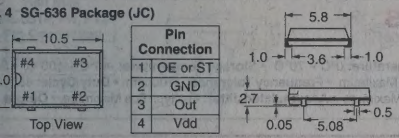
Pin	Connection
1	OE or ST
7	GND
8	Out
14	Vdd

Fig. 3 SG-531 Package (DC)



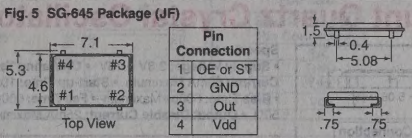
Pin	Connection
1	OE or ST
4	GND
5	Out
8	Vdd

4 SG-636 Package (JC)



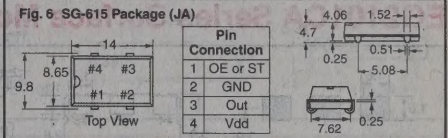
Pin	Connection
1	OE or ST
2	GND
3	Out
4	Vdd

Fig. 5 SG-645 Package (JF)



Pin	Connection
1	OE or ST
2	GND
3	Out
4	Vdd

Fig. 6 SG-615 Package (JA)



Pin	Connection
1	OE or ST
2	GND
3	Out
4	Vdd

Digi-Key ** Base Part No.	Price Each 1	10	50	100
SG-8002CA-□□□-ND*	6.25	5.36	3.93	3.57
SG-8002DB-□□□-ND	5.15	4.41	3.24	2.94
SG-8002DC-□□□-ND	5.15	4.41	3.24	2.94
SG-8002JC-□□□-ND	5.88	5.04	3.70	3.36
SG-8002JF-□□□-ND	5.25	4.50	3.30	3.00
SG-8002JA-□□□-ND	5.78	4.95	3.63	3.30
NEW! Lead Free/RoHS Compliant NEW!				
SGR-8002DB-□□□-ND	5.15	4.41	3.24	2.94
SGR-8002DC-□□□-ND	5.15	4.41	3.24	2.94
SGR-8002JC-□□□-ND	5.88	5.04	3.70	3.36
SGR-8002JF-□□□-ND	5.25	4.50	3.30	3.00
SGR-8002JA-□□□-ND	5.78	4.95	3.63	3.30

Free/RoHS Compliant

Complete Base Part Number, substitute the corresponding letter for □.

Example Part Number:

SG-8002
SGR-8002 □□-□□□-ND

#1	Package
JA	SG-615
JC	SG-636
DB	SG-51
DC	SG-531
CA	SG-710
JF	SG-645

#2	Function
P	Output Enable
S	Standby

#3	Power Supply Duty Level	#4	Frequency Stability	Operating Temperature	Available Frequency Range
H	5.0V, CMOS	B	±50ppm	-20°C ~ 70°C	1.00MHz - 125.00MHz
		C	±100ppm		
		M†	±100ppm	-40°C ~ 85°C	1.00MHz - 55.00MHz
T	5.0V, TTL	B	±50ppm	-20°C ~ 70°C	1.00MHz - 125.00MHz
		C	±100ppm		
		M†	±100ppm	-40°C ~ 85°C	1.00MHz - 55.00MHz
C	3.3V, CMOS	B	±50ppm	-20°C ~ 70°C	1.00MHz - 125.00MHz
		C	±100ppm		
		M†	±100ppm	-40°C ~ 85°C	1.00MHz - 125.00MHz

Parts coming from Digi-Key are marked with Manufacture Date Lot Code only. Fully marked parts are available as a non-catalog order.

One Time Programmable parts are non-cancelable, non-returnable!

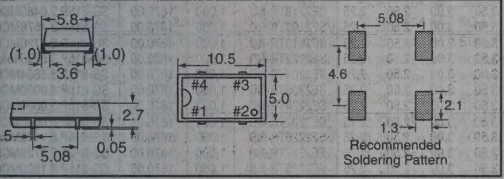
† Not available in JC Package

How to order:

#1 = Select Package.
#2 = Select Function.
#3 = Select Power Supply Duty Level.
#4 = Select Frequency Stability and Operating Temperature.

Call Digi-Key with your Base Part Number and an Operator will enter your desired frequency.

G-3030JC Crystal Oscillator



Specifications:

• **Voltage:** 1.5V ~ 5.5V • **Interface Power Supply Voltage:** 1.5V ~ 5.5V • **Storage Temperature:** -55°C ~ 125°C • **Operating Temperature:** -40°C ~ 85°C • **Frequency Tolerance:** +5/-23ppm • **Supply Current:** 2µA Max. • **Duty Cycle:** 45% ~ 55% • **Start-up Time:** 3s • **Output Load CMOS:** 15pF Max. • **Rise Time CMOS:** 200ns Max. • **Fall Time CMOS:** 200ns Max.

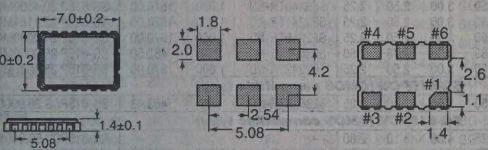
Frequency (kHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	T & R Pricing 250	Epson Part No.
32.768	SE3618CT-ND	3.12	2.67	2.23	SE3618TR-ND	371.58	SG-3030JC 32.7680KB3

G-9001 Series Oscillator with Spread Spectrum

ifications:
ply Voltage: 3.3V ±.3V • **Operating Temperature:** -20°C ~ 70°C
age Temperature: -40°C ~ 125°C • **Supply Current:** 30mA
Cycle: 45% ~ 55% • **Start-up Time:** 10ms • **Output Voltage:** (VOH): .4V (VOL) • **Load Capacitance:** 15.0pF • **Rise Time** **:** 2.7ns • **Fall Time CMOS:** 2.7ns

Spread Spectrum Specifications

Center Spread	Code	C10P	C15P	C20P
	%	±1.0%	±1.5%	±2.0%
Down Spread	Code	D15P	—	—
	%	-1.5%	—	—

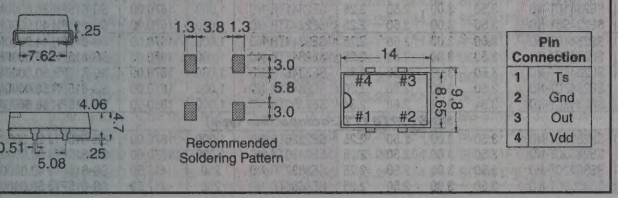


No.	Pin
1	OE
2	(SSON)*
3	GND
4	OUT
5	N.C.
6	VDD

* SSON Terminal should be kept open or GND.

Frequency (MHz)	Digi-Key Part No.	Price Each 1	10	50	Epson Part No.
16.6667	SE1915-ND	6.69	5.73	4.40	SG-9001CA C10P 16.6667MC
25.0000	SE1916-ND	6.69	5.73	4.40	SG-9001CA C10P 25.0000MC
25.0000	SE1917-ND	6.69	5.73	4.40	SG-9001CA C20P 25.0000MC
33.3333	SE1918-ND	6.69	5.73	4.40	SG-9001CA C15P 33.3333MC
33.3333	SE1919-ND	6.69	5.73	4.40	SG-9001CA D15P 33.3333MC
40.0000	SE1920-ND	6.69	5.73	4.40	SG-9001CA C20P 40.0000MC
50.0000	SE1921-ND	6.69	5.73	4.40	SG-9001CA D15P 50.0000MC
50.0000	SE1922-ND	6.69	5.73	4.40	SG-9001CA C20P 50.0000MC
66.6667	SE1923-ND	6.69	5.73	4.40	SG-9001CA C20P 66.6667MC
66.6667	SE1924-ND	6.69	5.73	4.40	SG-9001CA D15P 66.6667MC

G-1000 Oscillators



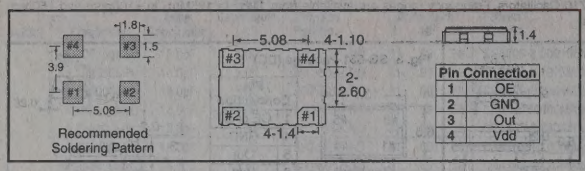
Pin	Connection
1	Ts
2	Gnd
3	Out
4	Vdd

Specifications:

• **Supply Voltage:** 5V ±.25V • **Operating Temperature:** -40°C ~ 85°C • **Storage Temperature:** -55°C ~ 125°C • **Frequency Tolerance:** ±25ppm • **Supply Current:** 10mA Maximum • **Duty @ CMOS Level (VDD/2):** 40% ~ 60% • **Load Capacitance:** 15.0pF • **Rise Time CMOS:** 8ns Maximum • **Fall Time CMOS:** 8ns Maximum • **Start-up Time:** 4ms Maximum

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	T & R Pricing 1,000	Epson Part No.
1.544	SE2861CT-ND	10.15	8.70	7.25	SE2861TR-ND	4830.00	HG-1012JA 1.5440M-BX0
16.384	SE2864CT-ND	10.15	8.70	7.25	SE2864TR-ND	4830.00	HG-1012JA 16.3840M-BX0

EG2001CA Series Surface Mount Quartz Crystal Oscillators

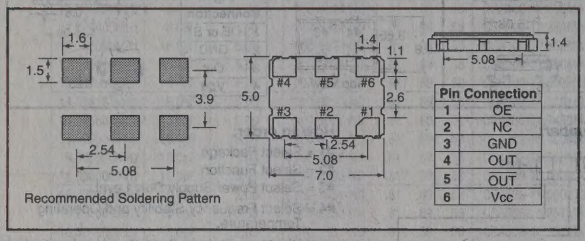


Pin	Connection
1	OE
2	GND
3	Out
4	Vdd

Specifications:
• **Supply Voltage:** 3.3V ±.3V • **Operating Temperature:** 0°C ~ 70°C • **Storage Temperature:** -40°C ~ 100°C • **Supply rent:** 50mA Maximum • **Start-up Time:** 10ms Maximum • **Rise Time CMOS:** 2ns Maximum • **Fall Time CMOS:** 2ns mum • **Frequency Stability:** ±100ppm, 0°C ~ 70°C • **Duty Cycle:** 45%-55% @ 1/2 VDD • **Output Load:** 25pF Max

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	100	Digi-Key Part No.	Tape and Reel Size	Pricing	Epson Part No.
106.25	SE1008CT-ND	13.00	11.70	10.40	9.10	SE1008TR-ND	1,000	8330.00	EG-2001CA 106.2500M-PCH
125.00	SE1009CT-ND	14.38	12.94	11.50	10.07	SE1009TR-ND	1,000	9170.00	EG-2001CA 125.0000M-PCH
133.00	SE1007CT-ND	19.25	16.50	13.75	12.38	SE1007TR-ND	250	2292.50	EG-2001CA 133.0000M-PCH

EG2101CA Series Surface Mount Quartz Crystal Oscillators

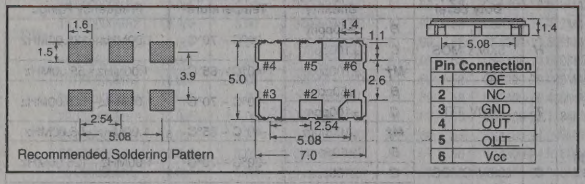


Pin	Connection
1	OE
2	NC
3	GND
4	OUT
5	OUT
6	Vcc

Specifications:
• **Supply Voltage:** 3.3V ±.15V • **Operating Temperature:** 0°C ~ 70°C • **Storage Temperature:** -40°C ~ 100°C • **Current:** 60mA Maximum • **Start-up Time:** 10ms Maximum • **Frequency Tolerance:** ±100ppm • **Duty Cycle:** 45% • **Rise Time:** 600ps Maximum • **Fall Time:** 600ps Maximum • **Accumulated Jitter:** 4ps typ., 5ps Maximum • **Output** 50Ω • **Output Disable Current:** 25mA Maximum

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	100	Digi-Key Part No.	T & R Pricing 250	Epson Part No.
125.0000	SE3610CT-ND	38.15	32.70	27.25	24.53	SE3610TR-ND	4542.49	EG-2101CA 125.0000M-PCH
155.5200	SE3611CT-ND	38.15	32.70	27.25	24.53	SE3611TR-ND	4542.49	EG-2101CA 155.5200M-PCH
156.2500	SE3612CT-ND	42.35	36.30	30.25	27.23	SE3612TR-ND	5042.49	EG-2101CA 156.2500M-PCH
159.3750	SE3613CT-ND	42.35	36.30	30.25	27.23	SE3613TR-ND	5042.49	EG-2101CA 159.3750M-PCH
161.1328	SE3614CT-ND	42.35	36.30	30.25	27.23	SE3614TR-ND	5042.49	EG-2101CA 161.1328M-PCH
250.0000	SE3615CT-ND	42.35	36.30	30.25	27.23	SE3615TR-ND	5042.49	EG-2101CA 250.0000M-PCH

EG2121CA Series Surface Mount Quartz Crystal Oscillators

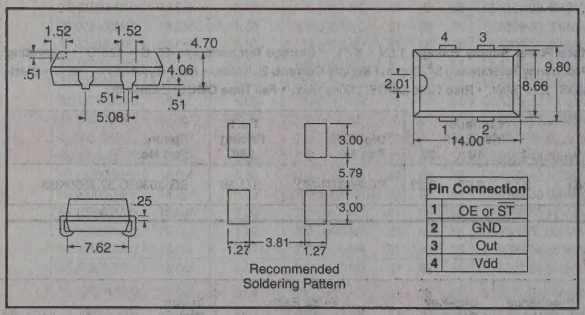


Pin	Connection
1	OE
2	NC
3	GND
4	OUT
5	OUT
6	Vcc

Specifications:
• **Supply Voltage:** 2.5V ±.125V • **Operating Temperature:** 0°C ~ 70°C • **Storage Temperature:** -40°C ~ 100°C • **Current:** 80mA Maximum • **Start-up Time:** 10ms Maximum • **Frequency Tolerance:** ±100ppm • **Duty Cycle:** 40% • **Rise Time:** 400ps • **Fall Time:** 400ps • **Accumulated Jitter:** 4ps typ., 5ps Maximum • **Output Load:** 50Ω

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	100	Digi-Key Part No.	T & R Pricing 250	Epson Part No.
125.00	SE3616CT-ND	46.20	39.60	33.00	29.70	SE3616TR-ND	5500.01	EG-2121CA 125.0000M-PHPAL
156.25	SE3617CT-ND	49.35	42.30	35.25	31.73	SE3617TR-ND	5875.01	EG-2121CA 156.2500M-PHPAL

SG615 Series Surface Mount Quartz Crystal Oscillators



Pin	Connection
1	OE or ST
2	GND
3	Out
4	Vdd

Specifications:	SG-615P	SG-615PTJ	SG-615PH	SG-615PCV	SG-615PCG
Max. Supply Voltage	-.3V ~ 7V			-.5V ~ 7V	
Operating Voltage	5V±.5V			2.7V ~ 5.5V	2.7V ~ 3.6V
Storage Temperature	-55°C ~ 125°C				
Operating Temperature	-40°C ~ 85°C			-10°C ~ 70°C	-40°C ~ 85°C
Frequency Stability	Parts ending in MB ±50ppm, MC ±100ppm				
Current Consumption	23mA Max.	35mA Max.		50mA Max.	12mA Max.
Output Disable Current	12mA Max.	28mA Max.	20mA Max.	27mA Max.	10mA Max.
Oscillation Start-up Time	4ms Max.	10ms Max.			12ms Max.
Duty					
CMOS	40% ~ 60%	—	40% ~ 60%	35% ~ 60%	45% ~ 55%
TTL	45% ~ 55%		—		
Output Voltage					
VOH	V_{DD}-.4V Min.	2.4V Min.	V_{DD}-.4VMin.	V_{DD}-0.5V	V_{DD}-.4VMin.
VOL	.4V Max.				
Output Enable / Disable Input Volt.					
VIH	2V Min.	3.5V Min.	2V Min.	.7V Min.	70%V_{DD}Min.
VIL	.8V Max.	1.5V Max.	.8V Max.	.2V Max.	20%V_{DD}Max.
Output Fall Time					
CMOS	8ns Max.	—	7ns Max.	4ns Max.	
TTL	8ns Max.	5ns Max.	—		

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	100	Digi-Key Part No.	Tape and Reel Size	Pricing	Epson Part No.
SG-615P (CMOS, TTL compatible type)									
1.54400	SE2217CT-ND	3.50	3.00	2.50	2.25	SE2217TR-ND	1,000	1670.00	SG-615P 1.5440MC0
1.84320	SE2201CT-ND	3.50	3.00	2.50	2.25	SE2201TR-ND	1,000	1670.00	SG-615P 1.8432MC0
2.00000	SE2202CT-ND	3.50	3.00	2.50	2.25	SE2202TR-ND	1,000	1670.00	SG-615P 2.0000MC0
2.04800	SE2218CT-ND	3.50	3.00	2.50	2.25	SE2218TR-ND	1,000	1670.00	SG-615P 2.0480MC0
2.45760	SE2203CT-ND	3.50	3.00	2.50	2.25	SE2203TR-ND	1,000	1670.00	SG-615P 2.4576MC0
3.07200	SE2219CT-ND	3.50	3.00	2.50	2.25	SE2219TR-ND	1,000	1670.00	SG-615P 3.0720MC0
3.57900	SE2222CT-ND	3.50	3.00	2.50	2.25	SE2222TR-ND	1,000	1670.00	SG-615P 3.579545M
3.68640	SE2204CT-ND	3.50	3.00	2.50	2.25	SE2204TR-ND	1,000	1670.00	SG-615P 3.6864MC0
4.00000	SE2205CT-ND	3.50	3.00	2.50	2.25	SE2205TR-ND	1,000	1670.00	SG-615P 4.0000MC0
5.00000	SE2224CT-ND	3.50	3.00	2.50	2.25	SE2224TR-ND	1,000	1670.00	SG-615P 5.0000MC0
6.00000	SE2207CT-ND	3.50	3.00	2.50	2.25	SE2207TR-ND	1,000	1670.00	SG-615P 6.0000MC0
6.14400	SE2226CT-ND	3.50	3.00	2.50	2.25	SE2226TR-ND	1,000	1670.00	SG-615P 6.1440MC0
7.37200	SE2227CT-ND	3.50	3.00	2.50	2.25	SE2227TR-ND	1,000	1670.00	SG-615P 7.3728MC0
8.19200	SE2228CT-ND	3.50	3.00	2.50	2.25	SE2228TR-ND	1,000	1670.00	SG-615P 8.1920MC0
9.83000	SE2229CT-ND	3.50	3.00	2.50	2.25	SE2229TR-ND	1,000	1670.00	SG-615P 9.8300MC0
10.00000	SE2209CT-ND	3.50	3.00	2.50	2.25	SE2209TR-ND	1,000	1670.00	SG-615P 10.0000MC0
11.05900	SE2232CT-ND	3.50	3.00	2.50	2.25	SE2232TR-ND	1,000	1670.00	SG-615P 11.0592MC0
12.00000	SE2210CT-ND	3.50	3.00	2.50	2.25	SE2210TR-ND	1,000	1670.00	SG-615P 12.0000MC0
12.28800	SE2233CT-ND	3.50	3.00	2.50	2.25	SE2233TR-ND	1,000	1670.00	SG-615P 12.2880MC0
14.31818	SE2211CT-ND	3.50	3.00	2.50	2.25	SE2211TR-ND	1,000	1670.00	SG-615P 14.31818M
14.74560	SE3619CT-ND	3.50	3.00	2.50	2.25	SE3619TR-ND	250	417.50	SG-615P 14.7456MC0
16.00000	SE2212CT-ND	3.50	3.00	2.50	2.25	SE2212TR-ND	1,000	1670.00	SG-615P 16.0000MC0
18.43200	SE2213CT-ND	3.50	3.00	2.50	2.25	SE2213TR-ND	1,000	1670.00	SG-615P 18.4320MC0
18.86900	SE2238CT-ND	3.50	3.00	2.50	2.25	SE2238TR-ND	1,000	1670.00	SG-615P 18.8696MC0
19.66000	SE2239CT-ND	3.50	3.00	2.50	2.25	SE2239TR-ND	1,000	1670.00	SG-615P 19.6608MC0
20.00000	SE2214CT-ND	3.50	3.00	2.50	2.25	SE2214TR-ND	1,000	1670.00	SG-615P 20.0000MC0
20.48000	SE2240CT-ND	3.50	3.00	2.50	2.25	SE2240TR-ND	1,000	1670.00	SG-615P 20.4800MC0
22.11800	SE2241CT-ND	3.50	3.00	2.50	2.25	SE2241TR-ND	1,000	1670.00	SG-615P 22.1184MC0
24.00000	SE2215CT-ND	3.50	3.00	2.50	2.25	SE2215TR-ND	1,000	1670.00	SG-615P 24.0000MC0
25.00000	SE3620CT-ND	3.89	3.33	2.78	2.50	SE3620TR-ND	250	462.50	SG-615P 25.0000MB
25.00000	SE2242CT-ND	3.50	3.00	2.50	2.25	SE2242TR-ND	1,000	1670.00	SG-615P 25.0000MC0
SG-615PCG (CMOS compatible type)									
25.00000	SE3621CT-ND	3.50	3.00	2.50	2.25	SE3621TR-ND	250	463.43	SG-615PCG 25.0000
SG-615PCV (CMOS compatible type)									
50.00000	SE3503CT-ND	5.25	4.38	3.10	2.80	—		—	SG-615PCV 50.000M
75.00000	SE3511CT-ND	5.85	4.88	3.40	3.10	SE3511TR-ND	1,000	2550.00	SG-615PCV 75.000M
90.00000	SE3513CT-ND	5.85	4.88	3.40	3.10	—		—	SG-615PCV 90.000M
106.25000	SE3515CT-ND	6.45	5.38	3.85	3.45	SE3515TR-ND	1,000	2900.00	SG-615PCV 106.250M
SG-615PH (CMOS compatible type)									
32.00000	SE2337CT-ND	3.50	3.00	2.50	2.25	SE2337TR-ND	1,000	1670.00	SG-615PH 32.0000M
33.00000	SE2339CT-ND	3.50	3.00	2.50	2.25	SE2339TR-ND	1,000	1670.00	SG-615PH 33.0000M
33.33300	SE2340CT-ND	3.50	3.00	2.50	2.25	SE2340TR-ND	1,000	1670.00	SG-615PH 33.3333M
36.00000	SE2341CT-ND	3.50	3.00	2.50	2.25	SE2341TR-ND	1,000	1670.00	SG-615PH 36.0000M
40.00000	SE2343CT-ND	3.50	3.00	2.50	2.25	SE2343TR-ND	1,000	1670.00	SG-615PH 40.0000M
44.90000	SE2344CT-ND	3.50	3.00	2.50	2.25	SE2344TR-ND	1,000	1670.00	SG-615PH 44.9000M
48.00000	SE2345CT-ND	3.50	3.00	2.50	2.25	SE2345TR-ND	1,000	1670.00	SG-615PH 48.0000M
50.00000	SE2346CT-ND	3.50	3.00	2.50	2.25	SE2346TR-ND	1,000	1670.00	SG-615PH 50.0000M
55.00000	SE2347CT-ND	3.50	3.00	2.50	2.25	SE2347TR-ND	1,000	1670.00	SG-615PH 55.0000M
66.66600	SE2352CT-ND	3.64	3.12	2.60	2.34	SE2352TR-ND	1,000	1850.00	SG-615PH 66.6660M
SG-615PTJ (TTL compatible type)									
27.00000	SE2326CT-ND	3.50	3.00	2.50	2.25	SE2326TR-ND	1,000	1670.00	SG-615PTJ 27.0000M
30.00000	SE2330CT-ND	3.50	3.00	2.50	2.25	SE2330TR-ND	1,000	1670.00	SG-615PTJ 30.0000M
40.00000	SE3622CT-ND	3.50	3.00	2.50	2.25	SE3622TR-ND	250	417.50	SG-615PTJ 40.0000M
50.00000	SE3608CT-ND	3.50	3.00	2.50	2.25	SE3608TR-ND	250	417.50	SG-615PTJ 50.0000M

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PSON ELECTRONICS
MERICA. INC.

MOS/TTL Oscillators

res:

- reliability by cylinder type AT Crystal
- matic mountable
- er current consumption by C-MOS IC
- 10 output load by using C-MOS IC
- 14-pin plastic package compatible with metal package oscillator
- 8-pin plastic package compatible with half size metal package oscillator

SG-51P, SG-531P, SG-51PH

Specifications: • **Operating Voltage:** 5.0 ±0.5V • **Operating Temperature Range:** -10°C ~ 70°C • **Frequency Stability:** ±100ppm • **Current Consumption:** 25mA Max. Typ. • **Output Voltage:** (VDD) -0.4V Min., (IOH) -400mA; 0.4V Max., (IOL) 16mA • **Input Voltage:** (VIH) 2.0V Min., (IOH) 1mA (VIH = VDD); (VIL) 0.8V Max., (IIL) -100µA (VIL = GND) • **Output Rise Time:** 8ns Max., 4ns Typ. • **Output Fall Time:** 8ns Max., 5ns Typ. • **Oscillation Time:** 4ms Max., 0.3ms

SG-531PTJ, SG-51PTJ

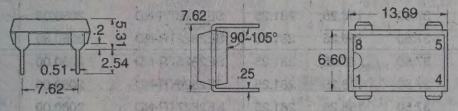
Specifications: • **Operating Voltage:** 5.0 ±0.5V • **Operating Temp. Range:** 10°C ~ 70°C • **Frequency Stability:** ±100ppm • **Current Consumption:** 25mA (32MHz) without load typ. • **Output Voltage:** (VDD) -0.4V Min., (IOH) -400 mA; 0.4V Max., (IOL) 16mA • **Input Voltage:** (VIH) 3.5V Min., (IIH) 1mA (VIH = VDD); (VIL) 1.5V Max., (IIL) 100µA (VIL = GND) • **Output Rise Time:** 10ns Max., 5ns Typ. • **Output Fall Time:** 8ns Max., 3ns Typ. • **Oscillation Time:** 10ms Max., 5ms Typ.

SG-531PH

Specifications: • **Operating Voltage:** 5.0 ±0.5V • **Operating Temp. Range:** -10°C ~ 70°C • **Frequency Stability:** ±100ppm • **Current Consumption:** 32mA Max. Typ. • **Output Voltage:** (VDD) -0.37V Min., (IOH) -4mA; 0.37V Max., (IOL) 4mA • **Output Rise Time:** 7ns Max., 3.5ns Typ. • **Output Fall Time:** 7ns Max., 3.5ns Typ. • **Oscillation Time:** 10ms Max., 3ms Typ.

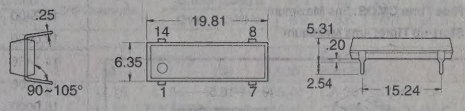
Half Size

SG-531P, PH, PTJ Pin Connection	
1	OE
4	GND
5	Out
8	Vdd



Full Size

SG-51P, PH, PTJ Pin Connection	
1	OE
7	GND
8	Out
14	Vdd



C

eries	Frequency (MHz)	Digi-Key Part No.	Pricing 1	10	50	100	Epson Part No.
			Half Size				
	1.544000	SE1216-ND	2.94	24.50	85.26	154.84	SG-531P 1.5440MC
	1.843200	SE1201-ND	2.94	24.50	85.26	154.84	SG-531P 1.8432MC
	2.000000	SE1217-ND	2.94	24.50	85.26	154.84	SG-531P 2.0000MC
	2.048000	SE1218-ND	2.94	24.50	85.26	154.84	SG-531P 2.0480MC
	2.457600	SE1202-ND	2.94	24.50	85.26	154.84	SG-531P 2.4576MC
	3.072000	SE1219-ND	2.94	24.50	85.26	154.84	SG-531P 3.0720MC
	3.088000	SE1220-ND	2.94	24.50	85.26	154.84	SG-531P 3.0880MC
	3.276800	SE1221-ND	2.94	24.50	85.26	154.84	SG-531P 3.2768MC
	3.579545	SE1222-ND	2.94	24.50	85.26	154.84	SG-531P 3.579545MC
	3.686000	SE1223-ND	2.94	24.50	85.26	154.84	SG-531P 3.6864MC
	4.000000	SE1203-ND	2.94	24.50	85.26	154.84	SG-531P 4.0000MC
	4.096000	SE1224-ND	2.94	24.50	85.26	154.84	SG-531P 4.0960MC
	4.915200	SE1204-ND	2.94	24.50	85.26	154.84	SG-531P 4.9152MC
	5.000000	SE1205-ND	2.94	24.50	85.26	154.84	SG-531P 5.0000MC
	5.068800	SE1225-ND	2.94	24.50	85.26	154.84	SG-531P 5.0688MC
	6.000000	SE1206-ND	2.94	24.50	85.26	154.84	SG-531P 6.0000MC
	6.144000	SE1226-ND	2.94	24.50	85.26	154.84	SG-531P 6.1440MC
	7.372800	SE1227-ND	2.94	24.50	85.26	154.84	SG-531P 7.3728MC
-531P	8.000000	SE1207-ND	2.94	24.50	85.26	154.84	SG-531P 8.0000MC
DS/TTL	8.192000	SE1228-ND	2.94	24.50	85.26	154.84	SG-531P 8.1920MC
Output	9.830400	SE1229-ND	2.94	24.50	85.26	154.84	SG-531P 9.8304MC
able	10.000000	SE1208-ND	2.94	24.50	85.26	154.84	SG-531P 10.0000MC
	10.240000	SE1230-ND	2.94	24.50	85.26	154.84	SG-531P 10.2400MC
	11.000000	SE1231-ND	2.94	24.50	85.26	154.84	SG-531P 11.0000MC
	11.059200	SE1232-ND	2.94	24.50	85.26	154.84	SG-531P 11.0592MC
	12.000000	SE1209-ND	2.94	24.50	85.26	154.84	SG-531P 12.0000MC
	12.288000	SE1233-ND	2.94	24.50	85.26	154.84	SG-531P 12.2880MC
	14.318180	SE1210-ND	2.94	24.50	85.26	154.84	SG-531P 14.31818MC
	14.745600	SE1234-ND	2.94	24.50	85.26	154.84	SG-531P 14.7456MC
	15.000000	SE1235-ND	2.94	24.50	85.26	154.84	SG-531P 15.0000MC
	16.257000	SE1236-ND	2.94	24.50	85.26	154.84	SG-531P 16.2570MC
	18.000000	SE1237-ND	2.94	24.50	85.26	154.84	SG-531P 18.0000MC
	18.432000	SE1238-ND	2.94	24.50	85.26	154.84	SG-531P 18.4320MC
	18.869600	SE1239-ND	2.94	24.50	85.26	154.84	SG-531P 18.8696MC
	19.660800	SE1240-ND	2.94	24.50	85.26	154.84	SG-531P 19.6608MC
	20.480000	SE1241-ND	2.94	24.50	85.26	154.84	SG-531P 20.4800MC
	22.118400	SE1242-ND	2.94	24.50	85.26	154.84	SG-531P 22.1184MC
	24.000000	SE1213-ND	2.94	24.50	85.26	154.84	SG-531P 24.0000MC
	25.175000	SE1215-ND	2.94	24.50	85.26	154.84	SG-531P 25.1750MC
	25.576000	SE1243-ND	2.94	24.50	85.26	154.84	SG-531P 25.5760MC
	32.000000	SE1111-ND	2.94	24.50	85.26	154.84	SG-531PH 32.0000MC
	32.514000	SE1112-ND	2.94	24.50	85.26	154.84	SG-531PH 32.5140MC
	32.768000	SE1113-ND	2.94	24.50	85.26	154.84	SG-531PH 32.7680MC
	33.000000	SE1114-ND	2.94	24.50	85.26	154.84	SG-531PH 33.0000MC
	33.333000	SE1115-ND	2.94	24.50	85.26	154.84	SG-531PH 33.3330MC
531PH	36.000000	SE1116-ND	2.94	24.50	85.26	154.84	SG-531PH 36.0000MC
MOS	38.000000	SE1117-ND	2.94	24.50	85.26	154.84	SG-531PH 38.0000MC
Output	42.000000	SE1119-ND	2.94	24.50	85.26	154.84	SG-531PH 42.0000MC
able	44.900000	SE1120-ND	2.94	24.50	85.26	154.84	SG-531PH 44.9000MC
	48.000000	SE1122-ND	2.94	24.50	85.26	154.84	SG-531PH 48.0000MC
	64.000000	SE1126-ND	3.09	25.75	89.88	162.27	SG-531PH 64.0000MC
	65.000000	SE1127-ND	3.09	25.75	89.88	162.27	SG-531PH 65.0000MC
	66.000000	SE1128-ND	3.09	25.75	89.88	162.27	SG-531PH 66.0000MC
	66.666700	SE1129-ND	3.09	25.75	89.88	162.27	SG-531PH 66.6667MC
	27.000000	SE1817-ND	2.94	24.50	85.26	154.84	SG-531PTJ 27.0000MC
	28.000000	SE1818-ND	2.94	24.50	85.26	154.84	SG-531PTJ 28.0000MC
	28.322000	SE1819-ND	2.94	24.50	85.26	154.84	SG-531PTJ 28.3220MC
	28.636360	SE1820-ND	2.94	24.50	85.26	154.84	SG-531PTJ 28.63636MC
531PTJ	29.491000	SE1821-ND	2.94	24.50	85.26	154.84	SG-531PTJ 29.4910MC
TTL	30.000000	SE1822-ND	2.94	24.50	85.26	154.84	SG-531PTJ 30.0000MC
Output	32.514000	SE1824-ND	2.94	24.50	85.26	154.84	SG-531PTJ 32.5140MC
able	32.768000	SE1825-ND	2.94	24.50	85.26	154.84	SG-531PTJ 32.7680MC
	33.000000	SE1826-ND	2.94	24.50	85.26	154.84	SG-531PTJ 33.0000MC
	33.333300	SE1827-ND	2.94	24.50	85.26	154.84	SG-531PTJ 33.3333MC
	36.000000	SE1828-ND	2.94	24.50	85.26	154.84	SG-531PTJ 36.0000MC

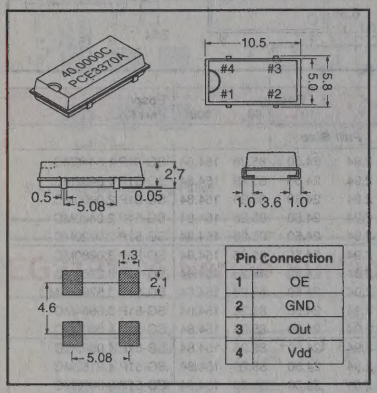
Series	Frequency (MHz)	Digi-Key Part No.	Pricing 1	10	50	100	Epson Part No.
			Full Size				
	1.544000	SE1716-ND	2.94	24.50	85.26	154.84	SG-51P 1.5440MC
	1.843200	SE1701-ND	2.94	24.50	85.26	154.84	SG-51P 1.8432MC
	2.000000	SE1717-ND	2.94	24.50	85.26	154.84	SG-51P 2.0000MC
	2.048000	SE1718-ND	2.94	24.50	85.26	154.84	SG-51P 2.0480MC
	3.072000	SE1719-ND	2.94	24.50	85.26	154.84	SG-51P 3.0720MC
	3.088000	SE1720-ND	2.94	24.50	85.26	154.84	SG-51P 3.0880MC
	3.276800	SE1721-ND	2.94	24.50	85.26	154.84	SG-51P 3.2768MC
	3.579545	SE1722-ND	2.94	24.50	85.26	154.84	SG-51P 3.579545MC
	3.686400	SE1723-ND	2.94	24.50	85.26	154.84	SG-51P 3.6864MC
	4.000000	SE1703-ND	2.94	24.50	85.26	154.84	SG-51P 4.0000MC
	4.096000	SE1724-ND	2.94	24.50	85.26	154.84	SG-51P 4.0960MC
	4.915200	SE1704-ND	2.94	24.50	85.26	154.84	SG-51P 4.9152MC
	5.000000	SE1705-ND	2.94	24.50	85.26	154.84	SG-51P 5.0000MC
	5.068000	SE1725-ND	2.94	24.50	85.26	154.84	SG-51P 5.0680MC
	6.000000	SE1706-ND	2.94	24.50	85.26	154.84	SG-51P 6.0000MC
	6.144800	SE1726-ND	2.94	24.50	85.26	154.84	SG-51P 6.1448MC
	7.372800	SE1727-ND	2.94	24.50	85.26	154.84	SG-51P 7.3728MC
	8.000000	SE1707-ND	2.94	24.50	85.26	154.84	SG-51P 8.0000MC
	8.192000	SE1728-ND	2.94	24.50	85.26	154.84	SG-51P 8.1920MC
	9.830400	SE1729-ND	2.94	24.50	85.26	154.84	SG-51P 9.8304MC
SG-51P CMOS/TTL with Output Enable	10.000000	SE1708-ND	2.94	24.50	85.26	154.84	SG-51P 10.0000MC
	10.240000	SE1730-ND	2.94	24.50	85.26	154.84	SG-51P 10.2400MC
	11.000000	SE1731-ND	2.94	24.50	85.26	154.84	SG-51P 11.0000MC
	11.059200	SE1732-ND	2.94	24.50	85.26	154.84	SG-51P 11.0592MC
	12.000000	SE1709-ND	2.94	24.50	85.26	154.84	SG-51P 12.0000MC
	12.288000	SE1733-ND	2.94	24.50	85.26	154.84	SG-51P 12.2880MC
	14.318180	SE1710-ND	2.94	24.50	85.26	154.84	SG-51P 14.318MC
	14.745600	SE1734-ND	2.94	24.50	85.26	154.84	SG-51P 14.7456MC
	15.000000	SE1735-ND	2.94	24.50	85.26	154.84	SG-51P 15.0000MC
	16.000000	SE1711-ND	2.94	24.50	85.26	154.84	SG-51P 16.0000MC
	16.257000	SE1736-ND	2.94	24.50	85.26	154.84	SG-51P 16.2570MC
	18.000000	SE1737-ND	2.94	24.50	85.26	154.84	SG-51P 18.0000MC
	18.432000	SE1738-ND	2.94	24.50	85.26	154.84	SG-51P 18.4320MC
	18.869000	SE1739-ND	2.94	24.50	85.26	154.84	SG-51P 18.8690MC
	19.660800	SE1740-ND	2.94	24.50	85.26	154.84	SG-51P 19.6608MC
	20.000000	SE1712-ND	2.94	24.50	85.26	154.84	SG-51P 20.0000MC
	20.480000	SE1741-ND	2.94	24.50	85.26	154.84	SG-51P 20.4800MC
	22.118000	SE1742-ND	2.94	24.50	85.26	154.84	SG-51P 22.1184MC
	24.000000	SE1713-ND	2.94	24.50	85.26	154.84	SG-51P 24.0000MC
	24.576000	SE1743-ND	2.94	24.50	85.26	154.84	SG-51P 24.5760MC
	25.000000	SE1714-ND	2.94	24.50	85.26	154.84	SG-51P 25.0000MC
	25.175000	SE1715-ND	2.94	24.50	85.26	154.84	SG-51P 25.1750MC
	32.768000	SE1902-ND	2.94	24.50	85.26	154.84	SG-51PH 32.7680MC
	33.000000	SE1903-ND	2.94	24.50	85.26	154.84	SG-51PH 33.0000MC
	33.333000	SE1904-ND	2.94	24.50	85.26	154.84	SG-51PH 33.3330MC
	36.000000	SE1905-ND	2.94	24.50	85.26	154.84	SG-51PH 36.0000MC
	38.000000	SE1906-ND	2.94	24.50	85.26	154.84	SG-51PH 38.0000MC
SG-51PH CMOS/TTL with Output Enable	42.000000	SE1908-ND	2.94	24.50	85.26	154.84	SG-51PH 42.0000MC
	44.900000	SE1909-ND	2.94	24.50	85.26	154.84	SG-51PH 44.9000MC
	46.000000	SE1910-ND	2.94	24.50	85.26	154.84	SG-51PH 46.0000MC
	48.000000	SE1911-ND	2.94	24.50	85.26	154.84	SG-51PH 48.0000MC
	50.000000	SE1912-ND	2.94	24.50	85.26	154.84	SG-51PH 50.0000MC
	55.000000	SE1913-ND	2.94	24.50	85.26	154.84	SG-51PH 55.0000MC
	60.000000	SE1914-ND	3.09	25.75	89.88	162.27	SG-51PH 60.0000MC
	28.000000	SE1806-ND	2.94	24.50	85.26	154.84	SG-51PTJ 28.0000MC
	28.322000	SE1807-ND	2.94	24.50	85.26	154.84	SG-51PTJ 28.3220MC
	28.636360	SE1808-ND	2.94	24.50	85.26	154.84	SG-51PTJ 28.63636MC
	29.491200	SE1809-ND	2.94	24.50	85.26	154.84	SG-51PTJ 29.4912MC
	30.000000	SE1810-ND	2.94	24.50	85.26	154.84	SG-51PTJ 30.0000MC
SG-51PTJ TTL with Output Enable	32.000000	SE1811-ND	2.94	24.50	85.26	154.84	SG-51PTJ 32.0000MC
	32.768000	SE1813-ND	2.94	24.50	85.26	154.84	SG-51PTJ 32.7680MC
	33.000000	SE1814-ND	2.94	24.50	85.26	154.84	SG-51PTJ 33.0000MC
	33.333300	SE1815-ND	2.94	24.50	85.26	154.84	SG-51PTJ 33.3333MC
	36.000000	SE1816-ND	2.94	24.50	85.26	154.84	SG-51PTJ 36.0000MC

A462-ND	Aries Electronics Inc., Full Size, 4-Pin Oscillator Sockets.....	**$.60/1**	**$12.50/25**	**$40.48/100**
A463-ND	Aries Electronics Inc., Half Size, 4-Pin Oscillator Sockets.....	**$.60/1**	**$12.50/25**	**$40.48/100**

EPSON ELECTRONICS AMERICA, INC.

SG636PCE Series Surface Mount Quartz Crystal Oscillators

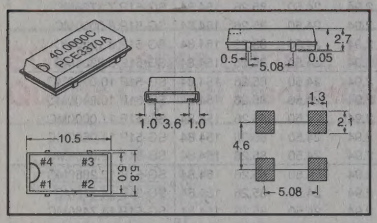
Specifications:
- **Supply Voltage:** 3.3V ±.3V
- **Operating Temperature:** -20°C ~ 70°C
- **Storage Temperature:** -55°C ~ 100°C
- **Frequency Tolerance:** ±100ppm
- **Supply Current:** 9mA
- **Disable Current:** 5mA
- **Duty @ CMOS Level (VDD/2):** 45% ~ 55%
- **Fall Time CMOS:** 5ns Maximum
- **Rise Time CMOS:** 5ns Maximum
- **Start-up Time:** 4ms Maximum



Pin Connection	
1	OE
2	GND
3	Out
4	Vdd

Frequency (MHz)	Digi-Key Part No.	Cut Tape Pricing 1	10	50	100	Digi-Key Part No.	T & R Pricing 1,000	Epson Part No.
2.4576	SE2801CT-ND	4.38	37.50	156.25	281.25	SE2801TR-ND	2080.00	SG-636PCE 2.4576MC0
3.6864	SE2806CT-ND	4.38	37.50	156.25	281.25	SE2806TR-ND	2080.00	SG-636PCE 3.6864MC0
4.0000	SE2807CT-ND	4.38	37.50	156.25	281.25	SE2807TR-ND	2080.00	SG-636PCE 4.0000MC0
5.0000	SE2810CT-ND	4.38	37.50	156.25	281.25	SE2810TR-ND	2080.00	SG-636PCE 5.0000MC0
6.0000	SE2812CT-ND	4.38	37.50	156.25	281.25	SE2812TR-ND	2080.00	SG-636PCE 6.0000MC0
8.0000	SE2815CT-ND	4.38	37.50	156.25	281.25	SE2815TR-ND	2080.00	SG-636PCE 8.0000MC0
8.1920	SE2816CT-ND	4.38	37.50	156.25	281.25	SE2816TR-ND	2080.00	SG-636PCE 8.1920MC0
10.0000	SE2818CT-ND	4.38	37.50	156.25	281.25	SE2818TR-ND	2080.00	SG-636PCE 10.0000MC0
10.2400	SE2819CT-ND	4.38	37.50	156.25	281.25	SE2819TR-ND	2080.00	SG-636PCE 10.2400MC0
12.0000	SE2822CT-ND	4.38	37.50	156.25	281.25	SE2822TR-ND	2080.00	SG-636PCE 12.0000MC0
14.7456	SE2825CT-ND	4.38	37.50	156.25	281.25	SE2825TR-ND	2080.00	SG-636PCE 14.7456MC0
15.0000	SE2826CT-ND	4.38	37.50	156.25	281.25	SE2826TR-ND	2080.00	SG-636PCE 15.0000MC0
16.0000	SE2827CT-ND	4.38	37.50	156.25	281.25	SE2827TR-ND	2080.00	SG-636PCE 16.0000MC0
18.4320	SE2830CT-ND	4.38	37.50	156.25	281.25	SE2830TR-ND	2080.00	SG-636PCE 18.4320MC0
20.0000	SE2833CT-ND	4.38	37.50	156.25	281.25	SE2833TR-ND	2080.00	SG-636PCE 20.0000MC0
24.0000	SE2836CT-ND	4.38	37.50	156.25	281.25	SE2836TR-ND	2080.00	SG-636PCE 24.0000MC0
25.0000	SE2837CT-ND	4.38	37.50	156.25	281.25	SE2837TR-ND	2080.00	SG-636PCE 25.0000MC0
25.1750	SE2838CT-ND	4.38	37.50	156.25	281.25	SE2838TR-ND	2080.00	SG-636PCE 25.1750MC0
27.0000	SE2839CT-ND	4.38	37.50	156.25	281.25	SE2839TR-ND	2080.00	SG-636PCE 27.0000MC0
29.4912	SE2842CT-ND	4.38	37.50	156.25	281.25	SE2842TR-ND	2080.00	SG-636PCE 29.4912MC0
30.0000	SE2843CT-ND	4.38	37.50	156.25	281.25	SE2843TR-ND	2080.00	SG-636PCE 30.0000MC0
32.0000	SE2844CT-ND	4.38	37.50	156.25	281.25	SE2844TR-ND	2080.00	SG-636PCE 32.0000MC0
33.0000	SE2847CT-ND	4.38	37.50	156.25	281.25	SE2847TR-ND	2080.00	SG-636PCE 33.0000MC0
33.3333	SE2848CT-ND	4.38	37.50	156.25	281.25	SE2848TR-ND	2080.00	SG-636PCE 33.3333MC0
36.0000	SE2849CT-ND	4.38	37.50	156.25	281.25	SE2849TR-ND	2080.00	SG-636PCE 36.0000MC0
38.0000	SE2850CT-ND	4.38	37.50	156.25	281.25	SE2850TR-ND	2080.00	SG-636PCE 38.0000MC0
40.0000	SE2851CT-ND	4.38	37.50	156.25	281.25	SE2851TR-ND	2080.00	SG-636PCE 40.0000MC0

SG636PCV Series Surface Mount Quartz Crystal Oscillators

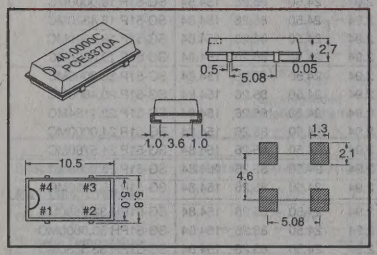


Pin Connection	
1	OE
2	GND
3	Out
4	Vdd

Specifications:
- **Supply Voltage:** 3.3V ±.3V
- **Operating Temperature:** -10°C ~ 70°C
- **Storage Temperature:** -55°C ~ 100°C
- **Frequency Tolerance:** ±100ppm
- **Supply Current:** 9mA
- **Disable Current:** 5mA
- **Duty @ CMOS Level (VDD/2):** 45% ~ 55%
- **Fall Time CMOS:** 5ns Maximum
- **Rise Time CMOS:** 5ns Maximum
- **Start-up Time:** 4ms Maximum

Frequency (MHz)	Digi-Key Part No.	Cut Tape Pricing 1	10	50	100	Epson Part No.
55.000	SE2855CT-ND	6.15	51.25	180.00	325.00	SG-636PCV 55.000MC0

SG636PTF Series Surface Mount Quartz Crystal Oscillators

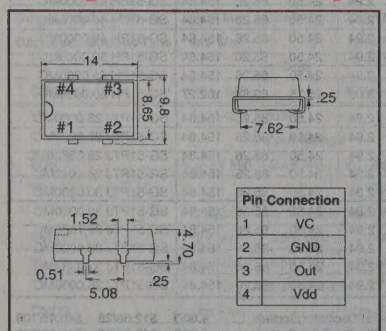


Pin Connection	
1	OE
2	GND
3	Out
4	Vdd

Specifications:
- **Supply Voltage:** 5V ±.5V
- **Operating Temperature:** -20°C ~ 70°C
- **Storage Temperature:** -55°C ~ 100°C
- **Frequency Tolerance:** ±100ppm
- **Supply Current:** 17mA
- **Disable Current:** 10mA
- **Duty @ CMOS Level (VDD/2):** 40% ~ 60%
- **Fall Time CMOS:** 7ns Maximum
- **Rise Time CMOS:** 7ns Maximum
- **Start-up Time:** 4ms Maximum

Frequency (MHz)	Digi-Key Part No.	Cut Tape Pricing 1	10	50	100	Digi-Key Part No.	T & R Pricing 250	Epson Part No.
25.000	SE3623CT-ND	3.50	30.00	125.00	225.00	SE3623TR-ND	417.50	SG-636PTF 25.0000MC3
40.000	SE3624CT-ND	3.50	30.00	125.00	225.00	SE3624TR-ND	417.50	SG-636PTF 40.0000MC3

Voltage Controlled Crystal Oscillators (VCXO) VG-1011JA Series



Pin Connection	
1	VC
2	GND
3	Out
4	Vdd

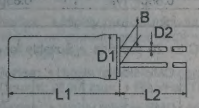
Features:
• Reflowable and high density • SMD mounting • Using the heat-resisting type AT cut quartz crystal allows almost the same temperature soldering as universal SMD IC • Using C-MOS IC allows low current consumption and assures high reliability

Specifications:
- **Frequency Adjustment Range:** ±75ppm
- **Frequency Control Sensitivity:** 2.5, ±2.0V, ±10%
- **Supply Voltage:** 5V ±.5V
- **Operating Temperature:** -20°C ~ 70°C
- **Storage Temperature:** -55°C ~ 125°C
- **Frequency Tolerance:** ±20ppm
- **Supply Current:** 13mA
- **Output Voltage:** .4V (VOL)
- **Output Current:** -0.8mA IOH, .8mA IOL
- **Duty @ CMOS Level (VDD/2):** 40% ~ 60%
- **Control Voltage:** 4.5V ~ 5.5V
- **Fall Time:** 8ns
- **Rise Time:** 8ns

Frequency (MHz)	Digi-Key Part No.	Cut Tape Pricing 1	10	50	100	Digi-Key Part No.	T & R Pricing 1,000	Epson Part No.
16.384	SE3603CT-ND	15.96	136.80	570.00	1026.00	SE3603TR-ND	7600.00	VG-1011JA 16.3840MAV
19.200	SE3605CT-ND	15.96	136.80	570.00	1026.00	SE3605TR-ND	7600.00	VG-1011JA 19.2000MAV
27.000	SE3607CT-ND	15.96	136.80	570.00	1026.00	—	—	VG-1011JA 27.0000MAV

Quartz Crystals - C-Type, Cylinder

-Type Series Specifications: • **Nominal Frequency:** 32.768KHz • **Operating Temperature:** -10°C 60°C • **Drive Level:** 1.0µW Max. • **Frequency Tolerance (Standard):** ±20ppm • **Load Capacitance:** SE3201, SE3202, SE3203) 12.5pf, (SE3204) 9pf, (SE3205) 6pf • **Series Resistance:** C-001R = 35KΩ Max. 8KΩ Typ.); C-002RX and C-004R = 50KΩ Max. (30KΩ Typ.); and C-005R = 50KΩ Max. (37KΩ Typ.)



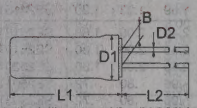
Model	L1 Max.	L2 Min.	D1 Max.	D2	B
C-001R	8.0	9.0	ø3.1	ø0.3	1.1
C-002RX	6.0	4.0	ø2.0	ø0.2	0.6
C-004R	5.0	4.0	ø1.5	ø0.18	0.5
C-005R	4.6	4.0	ø1.2	ø0.15	0.3

Frequency (kHz)	Digi-Key Part No.	Pricing 1	10	50	100	1,000	Epson Part No.
32.768	SE3201-ND	.27	2.25	7.71	14.14	115.71	C-001R 32.7680K-A
	SE3202-ND	.27	2.25	7.71	14.14	115.71	C-002RX 32.7680K-A
	SE3205-ND	.27	2.25	7.71	14.14	115.71	C-002RX 32.7680K-E
	SE3203-ND	1.38	11.50	41.00	74.00	620.00	C-004R 32.7680K-A
	SE3204-ND	5.64	47.00	166.50	300.00	2500.01	C-005R 32.7680K-AC

Quartz Crystals - C-2-Type, Cylinder

-2 Series Specifications:

Operating Temperature: -10°C ~ 60°C
Drive Level: 1.0µW Max.
Crystal Load Capacitance/Tolerance: All parts have 11pF load capacitance, ±100ppm except:(SE3311) C-2 32.560KH-AG, 7pF, ±190ppm; (SE3314) C-2 38.000KA-P 12.5pF, ±20ppm
Series Resistance Over 20KHz and Under 99KHz: 35KΩ ~ 15KΩ
Series Resistance Over 100KHz and Under 200KHz: 12KΩ ~ 8KΩ.



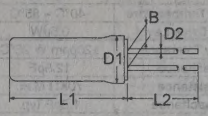
Model	L1 Max.	L2 Min.	D1 Max.	D2	B
C-2-Type	6.2	4.0	ø2.0	ø0.2	0.6

Frequency (kHz)	Digi-Key Part No.	Pricing 1	10	50	100	1,000	Epson Part No.
20.0000	SE3301-ND	1.23	10.25	36.50	66.00	550.00	C-2 20.0000K-P
25.6000	SE3302-ND	1.23	10.25	36.50	66.00	550.00	C-2 25.6000K-P
26.6670	SE3303-ND	1.23	10.25	36.50	66.00	550.00	C-2 26.6670K-P
28.0000	SE3304-ND	1.23	10.25	36.50	66.00	550.00	C-2 28.0000K-P
30.0000	SE3305-ND	1.23	10.25	36.50	66.00	550.00	C-2 30.0000K-P
30.7600	SE3306-ND	1.23	10.25	36.50	66.00	550.00	C-2 30.7600K-P
31.2500	SE3308-ND	1.23	10.25	36.50	66.00	550.00	C-2 31.2500K-P
31.5000	SE3309-ND	1.23	10.25	36.50	66.00	550.00	C-2 31.5000K-P
32.0000	SE3310-ND	1.23	10.25	36.50	66.00	550.00	C-2 32.0000K-P
32.5600	SE3311-ND	1.23	10.25	36.50	66.00	550.00	C-2 32.5600KH-AG
32.9190	SE3312-ND	1.23	10.25	36.50	66.00	550.00	C-2 32.9190KC-P
36.0000	SE3313-ND	1.23	10.25	36.50	66.00	550.00	C-2 36.0000K-P
38.0000	SE3314-ND	1.35	11.25	36.50	66.00	550.00	C-2 38.0000KA-P
38.4000	SE3315-ND	1.23	10.25	36.50	66.00	550.00	C-2 38.4000K-P
40.0000	SE3316-ND	1.23	10.25	36.50	66.00	550.00	C-2 40.0000K-P
46.6084	SE3317-ND	1.23	10.25	36.50	66.00	550.00	C-2 46.6084KC-P
50.0000	SE3318-ND	1.23	10.25	36.50	66.00	550.00	C-2 50.0000K-P
60.0000	SE3320-ND	1.23	10.25	36.50	66.00	550.00	C-2 60.0000K-P
60.0020	SE3321-ND	1.23	10.25	36.50	66.00	550.00	C-2 60.0020KC-P
65.5350	SE3322-ND	1.23	10.25	36.50	66.00	550.00	C-2 65.5350K-P
75.0000	SE3323-ND	1.23	10.25	36.50	66.00	550.00	C-2 75.0000K-P
76.8000	SE3324-ND	1.23	10.25	36.50	66.00	550.00	C-2 76.8000K-P
83.0000	SE3330-ND	1.47	12.25	43.50	78.00	650.00	C-2 83.0000K-P
96.0000	SE3331-ND	1.47	12.25	43.50	78.00	650.00	C-2 96.0000K-P
100.0000	SE3333-ND	1.47	12.25	43.50	78.00	650.00	C-2 100.0000K-P
111.0000	SE3334-ND	1.47	12.25	43.50	78.00	650.00	C-2 111.0000K-P
120.0000	SE3335-ND	1.47	12.25	43.50	78.00	650.00	C-2 120.0000K-P
120.8475	SE3336-ND	1.47	12.25	43.50	78.00	650.00	C-2 120.8475K-P
131.0720	SE3337-ND	1.77	14.75	52.00	94.00	780.00	C-2 131.0720K-P
149.4750	SE3338-ND	1.77	14.75	52.00	94.00	780.00	C-2 149.4750K-P

Quartz Crystals - CA-301 Type, Cylinder

CA-301 Series Specifications: • **Operating Temperature:** -20°C ~ 70°C • **Drive Level:** 2mW Max. • **Recommended Level:** 10µW ~ 100µW Typ. • **Frequency Tolerance (Standard):** ±30ppm • **Load Capacitance:** 18pF • **Series Resistance:** See table

Frequency MHz Over	Frequency MHz Under	Series Resistance	Mode
4.0	5.5	150 Ω Max.	Fundamental
5.5	6.0	100 Ω Max.	
6.0	10.0	80 Ω Max.	
10.0	12.0	60 Ω Max.	
12.0	16.0	50 Ω Max.	
16.0	30.0	40 Ω Max.	
26.0	36.0	100 Ω Max.	3rd Overtone
36.0	64.0	80 Ω Max.	

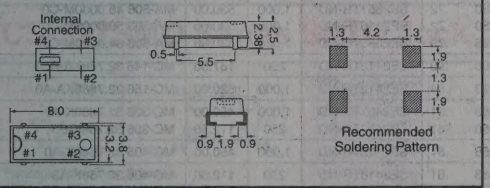


Model	L1 Max.	L2 Min.	D1 Max.	D2	B
Under 5.3MHz	9.3	9.5	ø3.1	ø0.3	1.1
Over 5.5 MHz	8.9	9.5	ø3.1	ø0.3	1.1

Frequency (MHz)	Digi-Key Part No.	Pricing 1	10	50	100	1,000	Epson Part No.
4.000000	SE3404-ND	2.13	17.75	62.55	112.70	935.40	CA-301 4.0000M-C
4.194304	SE3405-ND	2.13	17.75	62.55	112.70	935.40	CA-301 4.194304M-C
4.433619	SE3406-ND	2.13	17.75	62.55	112.70	935.40	CA-301 4.433619M-C
4.915200	SE3407-ND	2.13	17.75	62.55	112.70	935.40	CA-301 4.9152M-C
5.500000	SE3408-ND	.96	8.00	27.90	50.87	426.67	CA-301 5.5000M-C
6.000000	SE3409-ND	.96	8.00	27.90	50.87	426.67	CA-301 6.000M-C
6.144000	SE3410-ND	.96	8.00	27.90	50.87	426.67	CA-301 6.1440M-C
6.757000	SE3411-ND	.96	8.00	27.90	50.87	426.67	CA-301 6.7570M-C
7.200000	SE3412-ND	.96	8.00	27.90	50.87	426.67	CA-301 7.200M-C
7.372800	SE3413-ND	.96	8.00	27.90	50.87	426.67	CA-301 7.372M-C
8.000000	SE3414-ND	.96	8.00	27.90	50.87	426.67	CA-301 8.000M-C
8.388608	SE3415-ND	.96	8.00	27.90	50.87	426.67	CA-301 8.388M-C
8.432000	SE3416-ND	.96	8.00	27.90	50.87	426.67	CA-301 8.432M-C
9.600000	SE3418-ND	.96	8.00	27.90	50.87	426.67	CA-301 9.600M-C
9.830400	SE3419-ND	.96	8.00	27.90	50.87	426.67	CA-301 9.830M-C
10.000000	SE3420-ND	.96	8.00	27.90	50.87	426.67	CA-301 10.0000M-C
10.240000	SE3421-ND	.96	8.00	27.90	50.87	426.67	CA-301 10.2400M-C
10.624400	SE3422-ND	.96	8.00	27.90	50.87	426.67	CA-301 10.6244M-C
11.059200	SE3423-ND	.96	8.00	27.90	50.87	426.67	CA-301 11.0592M-C
12.000000	SE3424-ND	.96	8.00	27.90	50.87	426.67	CA-301 12.0000M-C
12.096000	SE3425-ND	.96	8.00	27.90	50.87	426.67	CA-301 12.0960M-C
12.288000	SE3426-ND	.96	8.00	27.90	50.87	426.67	CA-301 12.2880M-C
13.500000	SE3427-ND	.96	8.00	27.90	50.87	426.67	CA-301 13.5000M-C
14.000000	SE3428-ND	.96	8.00	27.90	50.87	426.67	CA-301 14.0000M-C
14.318180	SE3429-ND	.96	8.00	27.90	50.87	426.67	CA-301 14.31818M-C
14.500000	SE3430-ND	.96	8.00	27.90	50.87	426.67	CA-301 14.500M-C
14.745600	SE3431-ND	.96	8.00	27.90	50.87	426.67	CA-301 14.7456M-C
15.000000	SE3432-ND	.96	8.00	27.90	50.87	426.67	CA-301 15.000M-C
16.000000	SE3433-ND	.96	8.00	27.90	50.87	426.67	CA-301 16.0000M-C
18.000000	SE3435-ND	.96	8.00	27.90	50.87	426.67	CA-301 18.0000M-C
18.432000	SE3436-ND	.96	8.00	27.90	50.87	426.67	CA-301 18.4320M-C
19.660800	SE3437-ND	.96	8.00	27.90	50.87	426.67	CA-301 19.6608M-C
20.000000	SE3438-ND	.96	8.00	27.90	50.87	426.67	CA-301 20.0000M-C
22.118400	SE3439-ND	.96	8.00	27.90	50.87	426.67	CA-301 22.1184M-C
24.000000	SE3440-ND	.96	8.00	27.90	50.87	426.67	CA-301 24.0000M-C
25.000000	SE3441-ND	.96	8.00	27.90	50.87	426.67	CA-301 25.0000M-C
25.175000	SE3442-ND	.96	8.00	27.90	50.87	426.67	CA-301 25.1750M-C
27.000000	SE3443-ND	.96	8.00	28.00	50.40	424.00	CA-301 27.0000M-C:(FUND)
28.000000	SE3444-ND	.96	8.00	28.00	50.40	424.00	CA-301 28.0000M-C:(FUND)
28.322000	SE3445-ND	.96	8.00	28.00	50.40	424.00	CA-301 28.3220M-C:(FUND)
32.000000	SE3446-ND	.96	8.00	28.00	50.40	424.00	CA-301 32.0000M-C
32.768000	SE3447-ND	.96	8.00	28.00	50.40	424.00	CA-301 32.7680M-C
33.000000	SE3448-ND	.96	8.00	28.00	50.40	424.00	CA-301 33.0000M-C
33.333000	SE3449-ND	.96	8.00	28.00	50.40	424.00	CA-301 33.3330M-C
36.000000	SE3450-ND	.96	8.00	28.00	50.40	424.00	CA-301 36.0000M-C
40.000000	SE3451-ND	.96	8.00	28.00	50.40	424.00	CA-301 40.0000M-C
46.000000	SE3453-ND	.96	8.00	28.00	50.40	424.00	CA-301 46.0000M-C
49.860000	SE3454-ND	.96	8.00	28.00	50.40	424.00	CA-301 49.8600M-C
50.000000	SE3455-ND	.96	8.00	28.00	50.40	424.00	CA-301 50.0000M-C
55.000000	SE3456-ND	.96	8.00	28.00	50.40	424.00	CA-301 55.0000M-C
60.000000	SE3457-ND	1.11	9.25	31.84	57.65	481.86	CA-301 60.000M-C

MA-306 Series Crystal

pecifications: • **Storage Temperature:** -55°C ~ 100°C, stored as naked prod- ct after unpacking • **Operating Temperature:** -20°C ~ 70°C • **Maximum Drive evel:** 2mW • **Recommended Drive Level:** 10µW ~ 100µW. • **Frequency Toler- nce (standard):** ±50ppm • **Frequency Temperature Characteristics (standard):** 30ppm, -20°C ~ 70°C, DL=100µW • **Load Capacitance:** 18pF • **Series Resis- nce:** 60 Ω Max., -20°C ~ 70°C, DL=100µW • **Shunt Capacitance:** 5pF Max. **Aging:** ±5ppm/year Max.



Frequency (MHz)	Digi-Key Part No.	Cut Tape Pricing 1	10	50	100	Digi-Key Part No.	T & R Pricing 1,000	Epson Part No.
18.00000	SE2701CT-ND	2.14	18.30	76.25	137.25	SE2701TR-ND	1020.00	MA-306 18.0000M-C0
18.43200	SE2702CT-ND	2.14	18.30	76.25	137.25	SE2702TR-ND	1020.00	MA-306 18.4320M-C0
19.66080	SE2704CT-ND	2.14	18.30	76.25	137.25	SE2704TR-ND	1020.00	MA-306 19.6608M-C0
20.00000	SE2705CT-ND	2.14	18.30	76.25	137.25	SE2705TR-ND	1020.00	MA-306 20.0000M-C0
22.11840	SE2707CT-ND	2.14	18.30	76.25	137.25	SE2707TR-ND	1020.00	MA-306 22.1184M-C0
24.00000	SE2708CT-ND	2.14	18.30	76.25	137.25	SE2708TR-ND	1020.00	MA-306 24.0000M-C0
24.57600	SE2709CT-ND	2.14	18.30	76.25	137.25	SE2709TR-ND	1020.00	MA-306 24.5760M-C0
25.00000	SE2710CT-ND	2.14	18.30	76.25	137.25	SE2710TR-ND	1020.00	MA-306 25.0000M-C0
25.17500	SE2711CT-ND	2.14	18.30	76.25	137.25	SE2711TR-ND	1020.00	MA-306 25.1750M-C0
27.00000	SE2712CT-ND	2.14	18.30	76.25	137.25	SE2712TR-ND	1020.00	MA-306 27.0000M-C0
28.00000	SE2713CT-ND	2.14	18.30	76.25	137.25	SE2713TR-ND	1020.00	MA-306 28.0000M-C0
28.63636	SE2715CT-ND	2.14	18.30	76.25	137.25	SE2715TR-ND	1020.00	MA-306 28.63636M-C0
29.49120	SE2716CT-ND	2.14	18.30	76.25	137.25	SE2716TR-ND	1020.00	MA-306 29.4912M-C0
32.00000	SE2718CT-ND	2.14	18.30	76.25	137.25	SE2718TR-ND	1020.00	MA-306 32.0000M-C0
40.00000	SE2725CT-ND	2.14	18.30	76.25	137.25	SE2725TR-ND	1020.00	MA-306 40.0000M-C0

Surface Mount Quartz Crystal Products

Package	FC-135	FC-255	MA-505	MA-506	MC-146	MC-156	MC-306	MC-405	MC-406
Operating Temperature	-40°C ~ 85°C	-40°C ~ 85°C	-20°C ~ 70°C	-20°C ~ 70°C	-40°C ~ 85°C	-40°C ~ 85°C	-40°C ~ 85°C	-40°C ~ 85°C	-40°C ~ 85°C
Maximum Drive Level	0.5µW	0.5µW	2mW	2mW	1.0µW	1.0µW	1.0µW	1.0µW	1.0µW
Frequency Tolerance	±20ppm @ 25°C	±20ppm @ 25°C	±50ppm @ 25°C	±50ppm @ 25°C	±20ppm @ 25°C	±20ppm @ 25°C	±20ppm @ 25°C	±20ppm @ 25°C	±20ppm @ 25°C
Load Capacitance	12.5pF	12.5pF	18pF	18pF	9pF	12.5pF	A=12.5pf; E=6pF	12.5pF	12.5pF
Series Resistance	70KΩ Max.	65KΩ Max.	—	—	65KΩ Max.	65KΩ Max.	50KΩ Max.	50KΩ Max.	50KΩ Max.
Shunt Capacitance	1.3pF Typ.	1.3pF Typ.	5pF Max.	5pF Max.	0.8pF	—	0.9pF Max.	0.85pF Typ.	0.85pF

Fig. 1

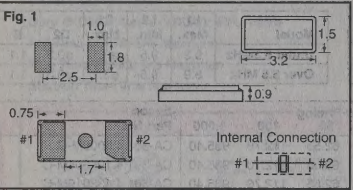


Fig. 2

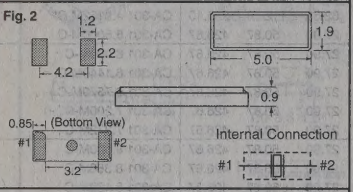


Fig. 3

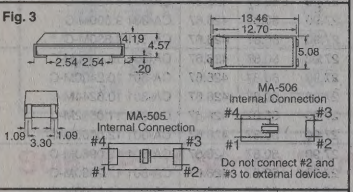


Fig. 4

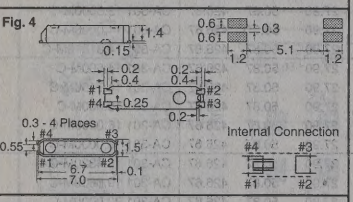


Fig. 5

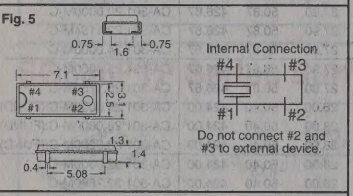


Fig. 6

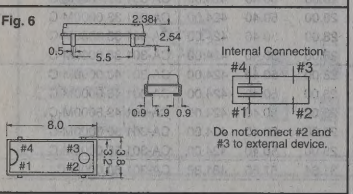


Fig. 7

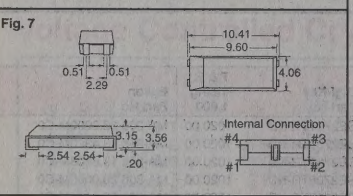
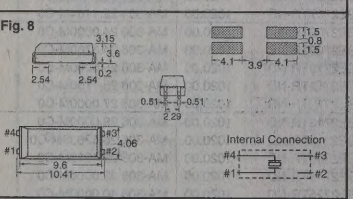
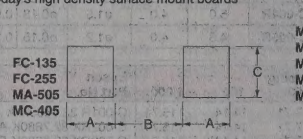


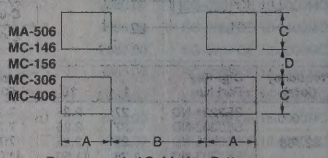
Fig. 8



Type	Dimensions (mm)			
	A	B	C	D
FC-135	1	1.7	1.8	—
FC-255	1.2	3.2	2.2	—
MA-505	4.09	7.01	5.61	—
MA-506	4.09	6.86	2.06	1.52
MC-146	1.2	5.1	0.6	0.3
MC-156	1.2	3.88	1.5	1
MC-306	1.3	4.2	1.9	1.3
MC-405	4.1	3.9	1.5	0.8
MC-406	4.1	3.9	1.5	0.8

Features: • Capable of withstanding reflow temperatures of 260°C for 20 seconds • Suitable for use in today's high density surface mount boards





Recommended Soldering Pattern

Fig.	Series	Frequency	Digi-Key Part No.	Cut Tape Price Each 1	10	50	100	Digi-Key Part No.	Tape and Reel Size	Pricing	Epson Part No.
1	FC-135	32.76800kHz	SE2413CT-ND	2.98	2.55	2.13	1.92	SE2413TR-ND	250	355.00	FC-135 32.7680KA-A3
2	FC-255	32.76800kHz	SE2415CT-ND	1.86	1.59	1.33	1.20	SE2415TR-ND	250	220.00	FC-255 32.7680K-A3
3	MA-505	4.00000MHz	SE2518CT-ND	2.80	2.40	2.00	1.80	SE2518TR-ND	1,000	1330.00	MA-505 4.0000M-C0
		4.09600MHz	SE2519CT-ND	2.80	2.40	2.00	1.80	SE2519TR-ND	1,000	1330.00	MA-505 4.0960M-C0
		4.91520MHz	SE2520CT-ND	2.80	2.40	2.00	1.80	SE2520TR-ND	1,000	1330.00	MA-505 4.9152M-C0
		6.00000MHz	SE2501CT-ND	1.12	.96	.80	.72	SE2501TR-ND	1,000	530.00	MA-505 6.0000M-C0
		7.37280MHz	SE2503CT-ND	1.12	.96	.80	.72	SE2503TR-ND	1,000	530.00	MA-505 7.3728M-C0
		8.00000MHz	SE2504CT-ND	1.12	.96	.80	.72	SE2504TR-ND	1,000	530.00	MA-505 8.0000M-C0
		9.83000MHz	SE2524CT-ND	1.12	.96	.80	.72	SE2524TR-ND	1,000	530.00	MA-505 9.8304M-C0
		10.00000MHz	SE2505CT-ND	1.12	.96	.80	.72	SE2505TR-ND	1,000	530.00	MA-505 10.0000M-C0
		10.24000MHz	SE2525CT-ND	1.12	.96	.80	.72	SE2525TR-ND	1,000	530.00	MA-505 10.2400M-C0
		11.05920MHz	SE2506CT-ND	1.12	.96	.80	.72	SE2506TR-ND	1,000	530.00	MA-505 11.0592M-C0
		12.00000MHz	SE2507CT-ND	1.12	.96	.80	.72	SE2507TR-ND	1,000	530.00	MA-505 12.0000M-C0
		14.31800MHz	SE2528CT-ND	1.12	.96	.80	.72	SE2528TR-ND	1,000	530.00	MA-505 14.3180M-C0
		14.74560MHz	SE2529CT-ND	1.12	.96	.80	.72	SE2529TR-ND	1,000	530.00	MA-505 14.7456M-C0
		16.00000MHz	SE2508CT-ND	1.12	.96	.80	.72	SE2508TR-ND	1,000	530.00	MA-505 16.0000M-C0
		18.43200MHz	SE2533CT-ND	1.12	.96	.80	.72	SE2533TR-ND	1,000	530.00	MA-505 18.4320M-C0
		19.66000MHz	SE2535CT-ND	1.12	.96	.80	.72	SE2535TR-ND	1,000	530.00	MA-505 19.6600M-C0
		20.00000MHz	SE2509CT-ND	1.12	.96	.80	.72	SE2509TR-ND	1,000	530.00	MA-505 20.0000M-C0
		24.00000MHz	SE2510CT-ND	1.12	.96	.80	.72	SE2510TR-ND	1,000	530.00	MA-505 24.0000M-C0
		24.57600MHz	SE2538CT-ND	1.12	.96	.80	.72	SE2538TR-ND	1,000	530.00	MA-505 24.5760M-C0
		25.00000MHz	SE2539CT-ND	1.12	.96	.80	.72	SE2539TR-ND	1,000	530.00	MA-505 25.0000M-C0
		29.49120MHz	SE2543CT-ND	1.12	.96	.80	.72	SE2543TR-ND	1,000	530.00	MA-505 29.4912M-C0:(30T)
		30.00000MHz	SE2544CT-ND	1.12	.96	.80	.72	SE2544TR-ND	1,000	530.00	MA-505 30.0000M-C0
		32.76800MHz	SE2546CT-ND	1.12	.96	.80	.72	SE2546TR-ND	1,000	530.00	MA-505 32.7680M-C0
		33.33330MHz	SE2514CT-ND	1.12	.96	.80	.72	SE2514TR-ND	1,000	530.00	MA-505 33.3330M-C0
		36.00000MHz	SE2548CT-ND	1.12	.96	.80	.72	SE2548TR-ND	1,000	530.00	MA-505 36.0000M-C0
		40.00000MHz	SE2515CT-ND	1.12	.96	.80	.72	SE2515TR-ND	1,000	530.00	MA-505 40.0000M-C0
3	MA-506	4.00000MHz	SE2618CT-ND	2.80	2.40	2.00	1.80	SE2618TR-ND	1,000	1330.00	MA-506 4.0000M-C0
		4.09600MHz	SE2619CT-ND	2.80	2.40	2.00	1.80	SE2619TR-ND	1,000	1330.00	MA-506 4.0960M-C0
		4.91520MHz	SE2620CT-ND	2.80	2.40	2.00	1.80	SE2620TR-ND	1,000	1330.00	MA-506 4.9152M-C0
		6.00000MHz	SE2601CT-ND	1.12	.96	.80	.72	SE2601TR-ND	1,000	530.00	MA-506 6.0000M-C0
		6.14400MHz	SE2602CT-ND	1.12	.96	.80	.72	SE2602TR-ND	1,000	530.00	MA-506 6.1440M-C0
		7.37280MHz	SE2603CT-ND	1.12	.96	.80	.72	SE2603TR-ND	1,000	530.00	MA-506 7.3728M-C0
		8.00000MHz	SE2604CT-ND	1.12	.96	.80	.72	SE2604TR-ND	1,000	530.00	MA-506 8.0000M-C0
		9.83000MHz	SE2624CT-ND	1.12	.96	.80	.72	SE2624TR-ND	1,000	530.00	MA-506 9.8300M-C0
		10.00000MHz	SE2605CT-ND	1.12	.96	.80	.72	SE2605TR-ND	1,000	530.00	MA-506 10.0000M-C0
		10.24000MHz	SE2625CT-ND	1.12	.96	.80	.72	SE2625TR-ND	1,000	530.00	MA-506 10.2400M-C0
		11.00000MHz	SE2626CT-ND	1.12	.96	.80	.72	SE2626TR-ND	1,000	530.00	MA-506 11.0000M-C0
		11.05920MHz	SE2606CT-ND	1.12	.96	.80	.72	SE2606TR-ND	1,000	530.00	MA-506 11.0592M-C0
		12.00000MHz	SE2607CT-ND	1.12	.96	.80	.72	SE2607TR-ND	1,000	530.00	MA-506 12.0000M-C0
		12.28800MHz	SE2627CT-ND	1.12	.96	.80	.72	SE2627TR-ND	1,000	530.00	MA-506 12.2880M-C0
		14.31818MHz	SE2628CT-ND	1.12	.96	.80	.72	SE2628TR-ND	1,000	530.00	MA-506 14.31818M-C0
		14.74560MHz	SE2629CT-ND	1.12	.96	.80	.72	SE2629TR-ND	1,000	530.00	MA-506 14.7456M-C0
		15.00000MHz	SE2630CT-ND	1.12	.96	.80	.72	SE2630TR-ND	1,000	530.00	MA-506 15.0000M-C0
		16.00000MHz	SE2608CT-ND	1.12	.96	.80	.72	SE2608TR-ND	1,000	530.00	MA-506 16.0000M-C0
		16.25700MHz	SE2631CT-ND	1.12	.96	.80	.72	SE2631TR-ND	1,000	530.00	MA-506 16.2570M-C0
		18.00000MHz	SE2632CT-ND	1.12	.96	.80	.72	SE2632TR-ND	1,000	530.00	MA-506 18.0000M-C0
		18.43200MHz	SE2633CT-ND	1.12	.96	.80	.72	SE2633TR-ND	1,000	530.00	MA-506 18.4320M-C0
		19.66080MHz	SE2635CT-ND	1.12	.96	.80	.72	SE2635TR-ND	1,000	530.00	MA-506 19.6608M-C0
		20.00000MHz	SE2609CT-ND	1.12	.96	.80	.72	SE2609TR-ND	1,000	530.00	MA-506 20.0000M-C0
		20.48000MHz	SE2636CT-ND	1.12	.96	.80	.72	SE2636TR-ND	1,000	530.00	MA-506 20.4800M-C0
		22.11840MHz	SE2637CT-ND	1.12	.96	.80	.72	SE2637TR-ND	1,000	530.00	MA-506 22.1184M-C0
		24.00000MHz	SE2610CT-ND	1.12	.96	.80	.72	SE2610TR-ND	1,000	530.00	MA-506 24.0000M-C0
		24.57600MHz	SE2638CT-ND	1.12	.96	.80	.72	SE2638TR-ND	1,000	530.00	MA-506 24.5760M-C0
		25.00000MHz	SE2639CT-ND	1.12	.96	.80	.72	SE2639TR-ND	1,000	530.00	MA-506 25.0000M-C0
		27.00000MHz	SE2641CT-ND	1.12	.96	.80	.72	SE2641TR-ND	1,000	530.00	MA-506 27.0000M-C0:(FUND)
		28.63600MHz	SE2642CT-ND	1.12	.96	.80	.72	SE2642TR-ND	1,000	530.00	MA-506 28.6360M-C0:(30T)
		33.00000MHz	SE2647CT-ND	1.12	.96	.80	.72	SE2647TR-ND	1,000	530.00	MA-506 33.0000M-C0
		40.00000MHz	SE2615CT-ND	1.12	.96	.80	.72	SE2615TR-ND	1,000	530.00	MA-506 40.0000M-C0
		48.00000MHz	SE2651CT-ND	1.12	.96	.80	.72	SE2651TR-ND	1,000	530.00	MA-506 48.0000M-C0
		50.00000MHz	SE2616CT-ND	1.12	.96	.80	.72	SE2616TR-ND	1,000	530.00	MA-506 50.0000M-C0
		64.00000MHz	SE2653CT-ND	1.23	1.05	.88	.79	SE2653TR-ND	1,000	530.00	MA-506 64.0000M-C0
4	MC-146	32.76800kHz	SE2416CT-ND	1.40	1.20	1.00	.90	SE2416TR-ND	250	167.50	MC-146 32.768KA-AC3
5	MC-156	32.76800kHz	SE2412CT-ND	1.30	1.11	.93	.84	SE2412TR-ND	1,000	620.00	MC-156 32.7680KA-A0
6	MC-306	32.76800kHz	SE2407CT-ND	.95	.81	.68	.61	SE2407TR-ND	1,000	450.00	MC-306 32.7680K-A0
			SE2417CT-ND	.95	.81	.68	.61	SE2417TR-ND	250	112.50	MC-306 32.768K-E3
7	MC-405	32.76800kHz	SE2405CT-ND	.95	.81	.68	.61	SE2405TR-ND	1,000	450.00	MC-405 32.7680K-A0
8	MC-406	32.76800kHz	SE2418CT-ND	.95	.81	.68	.61	SE2418TR-ND	250	112.50	MC-406 32.768K-A3

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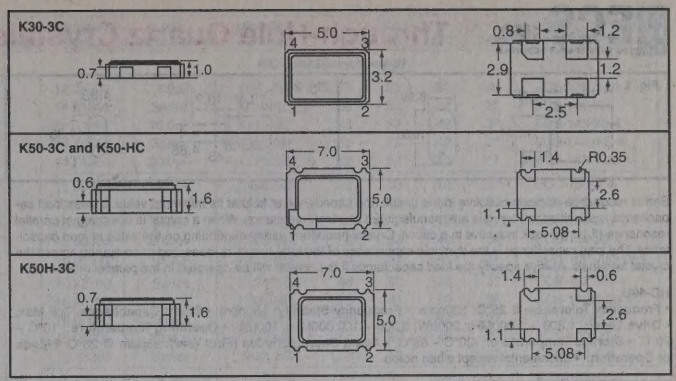
AVX Clock Oscillators (SMD)

Enable/Disable	
Pin #1	Pin #3
"H" or Open	Oscillation
"L"	High Impedance or Oscillation Stop*

*K50-HC Series does not include Oscillation Stop

Pin Connection	
1	Control
2	Case Gnd.
3	Output
4	+Vcc



Specifications: • **Operating Temperature:** -10°C ~ 70°C • **Storage Temperature:** -55°C ~ 125°C

K30-3C Series: • Highly reliable miniature SMD ceramic pkg. • Frequency Tolerance: ±50ppm • Tri-state output inhibit • Low current consumption • Supply Current: 25mA max. • Rise/Fall Time: 10nsec max. • Load Capacitance: 15pF max.

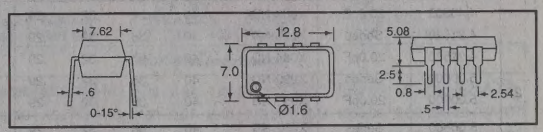
K50-3C Series: • Highly reliable SMD ceramic pkg. • Frequency Tolerance: ±50ppm • Tri-state output inhibit • Supply Current: 25mA max. • Rise/Fall Time: 10nsec max. • Load Capacitance: 15pF max.

K50-HC Series: • Highly reliable SMD ceramic pkg. • Frequency Tolerance: ±50ppm • Tri-state output inhibit • Supply Current: 50mA max. • Rise/Fall Time: 10nsec max. • Load Capacitance: 50pF max.

K50H-3C Series: • Special design pkg. for high frequency applications • Frequency Tolerance: ±50ppm • Tri-state output inhibit • Lower jitter • Supply Current: 60mA max. • Rise/Fall Time: 10nsec max. • Load Capacitance: 15pF max.

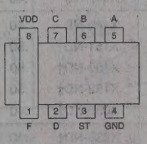
Series	Frequency (MHz)	Supply Voltage (V)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	500	Digi-Key Part No.	T & R Pricing 1,000	AVX Part No.
K30-3C	14.31818	3.3	478-2094-1-ND	3.00	2.70	2.25	1.80	478-2094-2-ND	1500.00	K30-3C0SE14.31818MR
	16.00000	3.3	478-2095-1-ND	3.00	2.70	2.25	1.80	478-2095-2-ND	1500.00	K30-3C0SE16.0000MR
	20.00000	3.3	478-2096-1-ND	3.00	2.70	2.25	1.80	478-2096-2-ND	1500.00	K30-3C0SE20.0000MR
	24.57600	3.3	478-2097-1-ND	3.00	2.70	2.25	1.80	478-2097-2-ND	1500.00	K30-3C0SE24.5760MR
	25.00000	3.3	478-2098-1-ND	3.00	2.70	2.25	1.80	478-2098-2-ND	1500.00	K30-3C0SE25.0000MR
	27.00000	3.3	478-2099-1-ND	3.00	2.70	2.25	1.80	478-2099-2-ND	1500.00	K30-3C0SE27.0000MR
	29.49890	3.3	478-2100-1-ND	3.00	2.70	2.25	1.80	478-2100-2-ND	1500.00	K30-3C0SE29.4989MR
	40.00000	3.3	478-2101-1-ND	3.00	2.70	2.25	1.80	478-2101-2-ND	1500.00	K30-3C0SE40.0000MR
	50.00000	3.3	478-2102-1-ND	3.00	2.70	2.25	1.80	478-2102-2-ND	1500.00	K30-3C0SE50.0000MR
	60.00000	3.3	478-2103-1-ND	3.00	2.70	2.25	1.80	478-2103-2-ND	1500.00	K30-3C0SE60.0000MR
	64.00000	3.3	478-2104-1-ND	3.00	2.70	2.25	1.80	478-2104-2-ND	1500.00	K30-3C0SE64.0000MR
	66.66670	3.3	478-2105-1-ND	3.00	2.70	2.25	1.80	478-2105-2-ND	1500.00	K30-3C0SE66.6667MR
K50-3C	14.31818	3.3	478-2084-1-ND	3.00	2.70	2.25	1.80	478-2084-2-ND	1500.00	K50-3C0SE14.31818MR
	16.00000	3.3	478-2085-1-ND	3.00	2.70	2.25	1.80	478-2085-2-ND	1500.00	K50-3C0SE16.0000MR
	24.57600	3.3	478-2086-1-ND	3.00	2.70	2.25	1.80	478-2086-2-ND	1500.00	K50-3C0SE24.5760MR
	25.00000	3.3	478-2087-1-ND	3.00	2.70	2.25	1.80	478-2087-2-ND	1500.00	K50-3C0SE25.0000MR
	29.49890	3.3	478-2088-1-ND	3.00	2.70	2.25	1.80	478-2088-2-ND	1500.00	K50-3C0SE29.4989MR
	40.00000	3.3	478-2089-1-ND	3.00	2.70	2.25	1.80	478-2089-2-ND	1500.00	K50-3C0SE40.0000MR
	50.00000	3.3	478-2090-1-ND	3.00	2.70	2.25	1.80	478-2090-2-ND	1500.00	K50-3C0SE50.0000MR
	66.66670	3.3	478-2091-1-ND	3.00	2.70	2.25	1.80	478-2091-2-ND	1500.00	K50-3C0SE66.6667MR
K50-HC	1.84320	5	478-2066-1-ND	3.00	2.70	2.25	1.80	478-2066-2-ND	1500.00	K50-HC0CSE1.8432MR
	3.68640	5	478-2067-1-ND	3.00	2.70	2.25	1.80	478-2067-2-ND	1500.00	K50-HC0CSE3.6864MR
	8.00000	5	478-2068-1-ND	3.00	2.70	2.25	1.80	478-2068-2-ND	1500.00	K50-HC0CSE8.0000MR
	14.31818	5	478-2069-1-ND	3.00	2.70	2.25	1.80	478-2069-2-ND	1500.00	K50-HC0CSE14.31818MR
	16.00000	5	478-2071-1-ND	3.00	2.70	2.25	1.80	478-2071-2-ND	1500.00	K50-HC0CSE16.0000MR
	20.00000	5	478-2072-1-ND	3.00	2.70	2.25	1.80	478-2072-2-ND	1500.00	K50-HC0CSE20.0000MR
	24.00000	5	478-2073-1-ND	3.00	2.70	2.25	1.80	478-2073-2-ND	1500.00	K50-HC0CSE24.0000MR
	24.57600	5	478-2074-1-ND	3.00	2.70	2.25	1.80	478-2074-2-ND	1500.00	K50-HC0CSE24.5760MR
	25.00000	5	478-2075-1-ND	3.00	2.70	2.25	1.80	478-2075-2-ND	1500.00	K50-HC0CSE25.0000MR
	27.00000	5	478-2076-1-ND	5.25	4.73	3.94	3.15	478-2076-2-ND	2625.00	K50-HC0CSE27.0000MR
	28.63630	5	478-2077-1-ND	3.00	2.70	2.25	1.80	478-2077-2-ND	1500.00	K50-HC0CSE28.6363MR
	29.49890	5	478-2078-1-ND	3.00	2.70	2.25	1.80	478-2078-2-ND	1500.00	K50-HC0CSE29.4989MR
	40.00000	5	478-2079-1-ND	3.00	2.70	2.25	1.80	478-2079-2-ND	1500.00	K50-HC0CSE40.0000MR
	48.00000	5	478-2080-1-ND	3.00	2.70	2.25	1.80	478-2080-2-ND	1500.00	K50-HC0CSE48.0000MR
	49.15200	5	478-2081-1-ND	3.00	2.70	2.25	1.80	478-2081-2-ND	1500.00	K50-HC0CSE49.1520MR
	50.00000	5	478-2082-1-ND	3.00	2.70	2.25	1.80	478-2082-2-ND	1500.00	K50-HC0CSE50.0000MR
	66.66670	5	478-2083-1-ND	3.00	2.70	2.25	1.80	478-2083-2-ND	1500.00	K50-HC0CSE66.6667MR
K50H-3C	106.25000	3.3	478-2092-1-ND	6.00	5.40	4.50	3.60	478-2092-2-ND	3000.00	K50H-3C0-SE106.250MR
	125.00000	3.3	478-2093-1-ND	6.00	5.40	4.50	3.60	478-2093-2-ND	3000.00	K50H-3C0-SE125.000MR

ECS INC. INTERNATIONAL ECS-300C Series Dual Output Oscillator



Electrical Characteristics:
Frequency Tolerance: ±0.01% • **Operating Temperature:** -10°C ~ 70°C • **Storage Temperature:** -55°C ~ 125°C • **Supply Voltage:** 5V • **Supply Current:** 20mA • **Output Load CMOS:** 15pF • **Output Voltage:** 4.5V (VOH) • **Output Voltage:** .5V (VOL) **Output Symmetry:** 40% ~ 60% • **Rise Time CMOS:** 15ns • **Fall Time CMOS:** 15ns • **Start-up Time:** 2ms

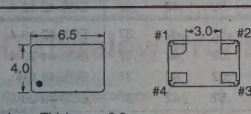
SETTING OF DIVIDING OUTPUT					
Input				Output	
Select				F (Original Frequency)	D (Divided Waveform)
C	B	A	ST		
X	X	X	L	L	L
L	L	L	H	fo clock	fo 1/2 clock
L	L	H	H	fo clock	fo 1/22clock
L	H	L	H	fo clock	fo 1/23clock
L	H	H	H	fo clock	fo 1/24clock
H	L	L	H	fo clock	fo 1/25clock
H	L	H	H	fo clock	fo 1/26clock
H	H	L	H	fo clock	fo 1/27clock
H	H	H	H	fo clock	fo 1/28clock



Pin Connection	
1	Output
2	Dividing Ratio
3	Standby
4	GND
5	A (Programming)
6	B (Programming)
7	C (Programming)
8	VDD (5V)

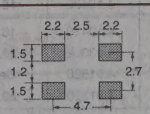
Frequency (MHz)	Digi-Key Part No.	Price Each 1	10	100	500	ECS Part No.
12.000000	XC301-ND	5.35	4.46	3.57	2.88	ECS-300C-120
12.288000	XC302-ND	5.35	4.46	3.57	2.88	ECS-300C-122.8
12.800000	XC303-ND	5.35	4.46	3.57	2.88	ECS-300C-128
14.318180	XC304-ND	5.35	4.46	3.57	2.88	ECS-300C-143
14.745600	XC305-ND	5.35	4.46	3.57	2.88	ECS-300C-147.4
15.974400	XC306-ND	5.35	4.46	3.57	2.88	ECS-300C-159.7
16.000000	XC307-ND	5.35	4.46	3.57	2.88	ECS-300C-160
16.384000	XC308-ND	5.35	4.46	3.57	2.88	ECS-300C-163.8
17.734476	XC309-ND	5.35	4.46	3.57	2.88	ECS-300C-177.3
18.432000	XC310-ND	5.35	4.46	3.57	2.88	ECS-300C-184
19.660800	XC311-ND	5.35	4.46	3.57	2.88	ECS-300C-196.6
20.000000	XC312-ND	5.35	4.46	3.57	2.88	ECS-300C-200
24.000000	XC313-ND	5.35	4.46	3.57	2.88	ECS-300C-240

ECS-327SMO Series SMD Clock Oscillator



Package Thickness: 2.0mm

Pin Connection	
1	NC
2	Ground
3	Output
4	Vcc



Specifications:
• **Frequency Stability:** -60ppm Min., +30ppm Max. @ -10°C ~ 60°C; -140ppm Min., +30ppm Max. @ -40°C ~ 85°C • **"0" Level:** Vcc x 0.1V Max. • **"1" Level:** Vcc x 0.9V Min. • **Operating Temperature:** -40°C ~ 85°C • **Output Load CMOS:** 15pF • **Storage Temperature:** -40°C ~ 85°C • **Supply Voltage:** 3.3VDC • **Supply Current:** 15µA • **Output Symmetry:** 40% ~ 60% • **Rise Time CMOS:** 200ns • **Fall Time CMOS:** 200ns

Frequency (kHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T & R Pricing 2,000	ECS Part No.
32.768	XC777CT-ND	6.74	5.52	4.90	XC777TR-ND	3430.00/M	ECS-327SMO-TR

Through-Hole Quartz Crystals

Fig. 1

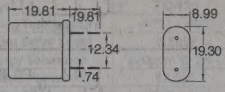


Fig. 2

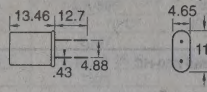


Fig. 3

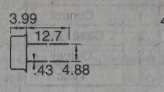
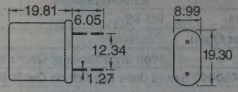


Fig. 4



Series resonance appears resistive in the circuit and impedance at fs is at its minimum value. Unless load capacitance is specified, all crystals are manufactured at series resonance. When a crystal is operating at parallel resonance (fL) it will look inductive in a circuit. Crystal frequency varies depending on the value of load capacitance. The load capacitance is the dynamic capacitance of the total circuit as measured or computed across the crystal terminals. Always specify the load capacitance if the crystal will be operated in the parallel mode.

HC-49U

• Frequency Tolerance @ 25°C: ±30ppm **• Frequency Stability:** ±50ppm **• Shunt Capacitance:** 7pF Max. **• Drive Level:** 1.800 ~ 3.000MHz 200µW; 3.000 ~ 100.000MHz 100µW **• Operating Temperature:** -10°C ~ 70°C **• Storage Temperature:** -30°C ~ 85°C **• Aging Characteristics (First Year):** ±5ppm @ 25°C **• Mode of Operation:** Fundamental except when noted

HC-49US

• Frequency Tolerance @ 25°C: ±30ppm **• Frequency Stability @ 25°C:** Standard -10°C ~ 70°C ±50pp **• Shunt Capacitance:** 7pF Max. **• Drive Level:** 500µW **• Operating Temperature:** -10°C ~ 70°C **• Storag Temperature:** -40°C ~ 105°C **• Aging Characteristics (First Year):** ±5ppm @ 25°C **• Mode of Operatio** Fundamental except when noted

HC-49US-DN

• Frequency Tolerance @ 25°C: ±30ppm **• Frequency Stability @ 25°C:** ±100ppm from -40°C ~ 85° **• Shunt Capacitance:** 7pF Max. **• Drive Level:** 500 µW **• Operating Temperature:** -40°C ~ 85°C **• Storag Temperature:** -40°C ~ 105°C **• Aging Characteristics (per year) @ 25°C ±3°C:** ±5ppm Max **• Mode Operation:** Fundamental except when noted

HC49INS-ND	Base Insulator	$.09/10	$.08/100
9256B-ND	ECS Crystal/Oscillator Databook	$2.95	

Fig.	Frequency (MHz)	Load Capacitance	Digi-Key Part No.	Price Each 1	10	100	500	ECS Part No.
			HC-33					
1	2.94912	32.0pF	X014-ND	1.37	1.14	.91	.70	ECS-29.4-32-2P
			HC-49/UA					
2	1.00000	13.0pF	X066B-ND*	17.88	14.85	8.09	7.54	ECS-10-13-1H
	48.00000	20.0pF	XC943-ND†	.50	.45	.36	.32	ECS-480-20-1
			HC-49U					
	1.84320	Series	X002-ND	1.95	1.62	1.29	1.00	ECS-18-S-1
	1.84320	13.0pF	X067-ND	1.95	1.62	1.29	1.00	ECS-18-13-1
	2.00000	Series	X004-ND	1.95	1.62	1.29	1.00	ECS-20-S-1
	2.00000	20.0pF	X068-ND	1.95	1.62	1.29	1.00	ECS-20-20-1
	2.04800	12.0pF	X098-ND	1.95	1.62	1.29	1.00	ECS-20.48-12-1
	2.45760	32.0pF	X069-ND	1.63	1.35	1.08	.83	ECS-24-32-1
	2.50000	Series	X070-ND	1.63	1.35	1.08	.83	ECS-25-S-1
	3.00000	Series	X009-ND	1.63	1.35	1.08	.83	ECS-30-S-1
	3.27680	17.0pF	X022-ND	.65	.54	.43	.34	ECS-32-17-1
	3.57955	Series	X011-ND	.40	.36	.32	.29	ECS-35-S-1
	3.57955	17.0pF	X049-ND	.40	.36	.32	.29	ECS-35-17-1
	3.68640	Series	X080-ND	.40	.36	.32	.29	ECS-36-S-1
	3.68640	18.0pF	X071-ND	.40	.36	.32	.29	ECS-36-18-1
	3.93216	17.0pF	X013-ND	.40	.36	.32	.29	ECS-39-17-1
	4.00000	Series	X081-ND	.40	.36	.32	.29	ECS-40-S-1
	4.00000	20.0pF	X006-ND	.40	.36	.32	.29	ECS-40-20-1
	4.03200	Series	X015-ND	.40	.36	.32	.29	ECS-40.3-S-1
	4.03200	20.0pF	X072-ND	.40	.36	.32	.29	ECS-40.3-20-1
	4.09600	20.0pF	X082-ND	.40	.36	.32	.29	ECS-41-20-1
	4.19430	12.0pF	X007-ND	.40	.36	.32	.29	ECS-42-12-1
	4.43362	20.0pF	X083-ND	.40	.36	.32	.29	ECS-44-20-1
	4.91520	Series	X050-ND	.40	.36	.32	.29	ECS-49-S-1
	4.91520	20.0pF	X084-ND	.40	.36	.32	.29	ECS-49-20-1
2	5.00000	Series	X099-ND	.40	.36	.32	.29	ECS-50-S-1
	5.00000	20.0pF	X051-ND	.40	.36	.32	.29	ECS-50-20-1
	5.06880	Series	X052-ND	.40	.36	.32	.29	ECS-51-S-1
	5.06880	20.0pF	X085-ND	.40	.36	.32	.29	ECS-51-20-1
	5.18500	Series	X053-ND	.40	.36	.32	.29	ECS-52-S-1
	5.18500	32.0pF	X016-ND	.40	.36	.32	.29	ECS-52-32-1
	5.99040	Series	X073-ND	.40	.36	.32	.29	ECS-59-S-1
	5.99040	20.0pF	X017-ND	.40	.36	.32	.29	ECS-59.9-20-1
	6.00000	Series	X026-ND	.40	.36	.32	.29	ECS-60-S-1
	6.00000	32.0pF	X086-ND	.40	.36	.32	.29	ECS-60-32-1
	6.14400	32.0pF	X054-ND	.40	.36	.32	.29	ECS-61-32-1
	6.55360	12.0pF	X018-ND	.40	.36	.32	.29	ECS-65-12-1
	7.37280	Series	X074-ND	.40	.36	.32	.29	ECS-73-S-1
	7.37280	20.0pF	X019-ND	.40	.36	.32	.29	ECS-73-20-1
	7.68000	20.0pF	X020-ND	.40	.36	.32	.29	ECS-76.8-20-1
	8.00000	Series	X056-ND	.40	.36	.32	.29	ECS-80-S-1
	8.00000	18.0pF	X100-ND	.40	.36	.32	.29	ECS-80-18-1
	8.00000	20.0pF	X021-ND	.40	.36	.32	.29	ECS-80-20-1
	8.00000	32.0pF	X137-ND	.40	.36	.32	.29	ECS-80-32-1
	9.21600	Series	X075-ND	.40	.36	.32	.29	ECS-92.1-S-1
	9.21600	20.0pF	X138-ND	.40	.36	.32	.29	ECS-92.1-20-1
	9.83040	Series	X023-ND	.40	.36	.32	.29	ECS-98.3-S-1
	9.83040	20.0pF	X087-ND	.40	.36	.32	.29	ECS-98.3-20-1
	10.00000	Series	X057-ND	.40	.36	.32	.29	ECS-100-S-1
	10.73864	Series	X024-ND	.40	.36	.32	.29	ECS-107.3-S-1
	11.00000	Series	X088-ND	.40	.36	.32	.29	ECS-110-S-1
	11.04600	Series	X025-ND	.40	.36	.32	.29	ECS-110.4-S-1
	11.05920	Series	X078-ND	.40	.36	.32	.29	ECS-110.5-S-1
	11.05920	20.0pF	X089-ND	.40	.36	.32	.29	ECS-110.5-20-1
	11.05920	32.0pF	X139-ND	.40	.36	.32	.29	ECS-110.5-32-1
	11.22800	Series	X028-ND	.40	.36	.32	.29	ECS-112.2-S-1
	11.52000	Series	X140-ND	.40	.36	.32	.29	ECS-115.2-S-1
	11.98135	Series	X029-ND	.40	.36	.32	.29	ECS-119.8-S-1
	12.00000	Series	X058-ND	.40	.36	.32	.29	ECS-120-S-1
	12.00000	32.0pF	X030-ND	.40	.36	.32	.29	ECS-120-32-1
	12.00039	18.0pF	X147-ND	.40	.36	.32	.29	ECS-120.003-18-1
	12.09600	Series	X031-ND	.40	.36	.32	.29	ECS-121-S-1
	12.28800	Series	X090-ND	.40	.36	.32	.29	ECS-122.8-S-1
	12.28800	20.0pF	X141-ND	.40	.36	.32	.29	ECS-122.8-20-1
	13.51680	Series	X032-ND	.40	.36	.32	.29	ECS-135-S-1
	14.31818	Series	X091-ND	.40	.36	.32	.29	ECS-143-S-1
	14.69000	Series	X033-ND	.40	.36	.32	.29	ECS-146-S-1
	14.74560	Series	X092-ND	.40	.36	.32	.29	ECS-147.4-S-1
	14.74560	20.0pF	X142-ND	.40	.36	.32	.29	ECS-147.4-20-1
	15.00000	Series	X059-ND	.40	.36	.32	.29	ECS-150-S-1
2	16.00000	Series	X077-ND	.40	.36	.32	.29	ECS-160-S-1
	16.00000	20.0pF	X143-ND	.40	.36	.32	.29	ECS-160-20-1
	16.00031	18.0pF	X148-ND	.40	.36	.32	.29	ECS-160.003-18-1
	18.00000	Series	X060-ND	.40	.36	.32	.29	ECS-180-S-1
	18.00000	20.0pF	X144-ND	.40	.36	.32	.29	ECS-180-20-1
	18.43200	Series	X061-ND	.40	.36	.32	.29	ECS-184-S-1
	18.43200	18.0pF	X145-ND	.40	.36	.32	.29	ECS-184-18-1
	18.43200	20.0pF	X146-ND	.40	.36	.32	.29	ECS-184-20-1
	19.66080	Series	X094-ND	.40	.36	.32	.29	ECS-196.6-S-1
	19.66080	20.0pF	X035-ND	.40	.36	.32	.29	ECS-196.6-20-1
	20.00000	Series	X062-ND	.40	.36	.32	.29	ECS-200-S-1
	20.00000	20.0pF	X036-ND	.40	.36	.32	.29	ECS-200-20-1
	22.11840	Series	X063-ND	.40	.36	.32	.29	ECS-221-S-1
	24.00000	Series	X095-ND	.40	.36	.32	.29	ECS-240-S-1
	24.00000	20.0pF	X037-ND	.40	.36	.32	.29	ECS-240-20-1
	24.00010	18.0pF	X149-ND	.40	.36	.32	.29	ECS-240.001-18-1
	35.25120	18.0pF	X151-ND†	.50	.45	.36	.32	ECS-352.5-18-1
	38.00053	18.0pF	X150-ND†	.50	.45	.36	.32	ECS-380.005-18-1
	40.32000	18.0pF	X152-ND†	.50	.45	.36	.32	ECS-403.2-18-1
	48.00000	Series	X065-ND†	.40	.36	.32	.29	ECS-480-S-1
	49.86000	20.0pF	X038-ND†	.40	.36	.32	.29	ECS-498.6-20-1
			HC-49US					
	3.57955	Series	X153-ND	.58	.52	.42	.37	ECS-35-S-4
	3.57955	17.0pF	X079-ND	.58	.52	.42	.37	ECS-35-17-4
	3.68640	Series	X403-ND	.58	.52	.42	.37	ECS-36-S-4
	3.68640	18.0pF	X402-ND	.58	.52	.42	.37	ECS-36-18-4
	4.00000	Series	X404-ND	.58	.52	.42	.37	ECS-40-S-4
	4.00000	20.0pF	X405-ND	.58	.52	.42	.37	ECS-40-20-4
3	4.03200	Series	X155-ND	.58	.52	.42	.37	ECS-40.3-S-4
	4.03200	20.0pF	X154-ND	.58	.52	.42	.37	ECS-40.3-20-4
	4.09600	20.0pF	X156-ND	.58	.52	.42	.37	ECS-41-20-4
	4.19430	12.0pF	X406-ND	.58	.52	.42	.37	ECS-42-12-4
	4.19430	16.0pF	X157-ND	.58	.52	.42	.37	ECS-42-16-4
	4.43362	20.0pF	X407-ND	.58	.52	.42	.37	ECS-44-20-4
	4.91520	Series	X408-ND	.58	.52	.42	.37	ECS-49-S-4
	4.91520	20.0pF	X409-ND	.58	.52	.42	.37	ECS-49-20-4

*1.0 Frequency: 100ppm @ 25°C; ±100ppm from 0°C ~ 60°C †3rd Overtone

(Continued

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Through-Hole Quartz Crystals (Cont.)

Frequency (MHz)	Load Capacitance	Digi-Key Part No.	Price Each 1	10	100	500	ECS Part No.
HC-49US(continued)							
5.00000	Series	X158-ND	.58	.52	.42	.37	ECS-50-S-4
5.00000	20.0pF	X410-ND	.58	.52	.42	.37	ECS-50-20-4
5.06880	Series	X159-ND	.58	.52	.42	.37	ECS-51-S-4
5.06880	20.0pF	X411-ND	.58	.52	.42	.37	ECS-51-20-4
5.18500	Series	X160-ND	.58	.52	.42	.37	ECS-52-S-4
5.18500	32.0pF	X064-ND	.75	.63	.50	.39	ECS-52-32-4
5.99040	Series	X161-ND	.58	.52	.42	.37	ECS-59-S-4
5.99040	20.0pF	X162-ND	.58	.52	.42	.37	ECS-59.9-20-4
6.00000	Series	X412-ND	.58	.52	.42	.37	ECS-60-S-4
6.00000	32.0pF	X413-ND	.58	.52	.42	.37	ECS-60-32-4
6.14400	32.0pF	X414-ND	.58	.52	.42	.37	ECS-61-32-4
6.50000	20.0pF	X415-ND	.58	.52	.42	.37	ECS-65-20-4
7.37280	Series	X416-ND	.58	.52	.42	.37	ECS-73-S-4
7.37280	20.0pF	X076-ND	.75	.63	.50	.39	ECS-73-20-4
7.68000	20.0pF	X163-ND	.58	.52	.42	.37	ECS-76.8-20-4
8.00000	Series	X417-ND	.58	.52	.42	.37	ECS-80-S-4
8.00000	18.0pF	X164-ND	.58	.52	.42	.37	ECS-80-18-4
8.00000	20.0pF	X165-ND	.58	.52	.42	.37	ECS-80-20-4
8.00000	32.0pF	X166-ND	.58	.52	.42	.37	ECS-80-32-4
8.50000	Series	X418-ND	.58	.52	.42	.37	ECS-85-S-4
9.00000	Series	X419-ND	.58	.52	.42	.37	ECS-90-S-4
9.21600	Series	X167-ND	.58	.52	.42	.37	ECS-92.1-S-4
9.21600	20.0pF	X168-ND	.58	.52	.42	.37	ECS-92.1-20-4
9.54500	Series	X420-ND	.58	.52	.42	.37	ECS-95.4-S-4
9.83040	Series	X421-ND	.58	.52	.42	.37	ECS-98.3-S-4
9.83040	20.0pF	X169-ND	.58	.52	.42	.37	ECS-98.3-20-4
10.00000	Series	X422-ND	.58	.52	.42	.37	ECS-100-S-4
10.00000	18.0pF	X443-ND	.58	.52	.42	.37	ECS-100-18-4
10.73864	Series	X423-ND	.58	.52	.42	.37	ECS-107.3-S-4
11.00000	Series	X424-ND	.58	.52	.42	.37	ECS-110-S-4
11.05920	Series	X425-ND	.58	.52	.42	.37	ECS-110.5-S-4
11.05920	20.0pF	X426-ND	.58	.52	.42	.37	ECS-110.5-20-4
11.05920	32.0pF	X170-ND	.58	.52	.42	.37	ECS-110.5-32-4
11.52000	Series	X171-ND	.58	.52	.42	.37	ECS-115.2-S-4
11.98135	Series	X427-ND	.58	.52	.42	.37	ECS-119.8-S-4
12.00000	Series	X428-ND	.58	.52	.42	.37	ECS-120-S-4
12.00000	20.0pF	X227-ND	.58	.52	.42	.37	ECS-120-20-4
12.00000	32.0pF	X172-ND	.58	.52	.42	.37	ECS-120-32-4
12.00039	18.0pF	X173-ND	.58	.52	.42	.37	ECS-120.003-18-4
12.09600	Series	X429-ND	.58	.52	.42	.37	ECS-121-S-4
12.28800	Series	X174-ND	.58	.52	.42	.37	ECS-122.8-S-4
12.28800	20.0pF	X228-ND	.58	.52	.42	.37	ECS-122.8-20-4

Fig.	Frequency (MHz)	Load Capacitance	Digi-Key Part No.	Price Each 1	10	100	500	ECS Part No.
HC-49US(continued)								
3	12.96000	18.0pF	X097-ND	.75	.63	.50	.39	ECS-129.6-18-4
	14.31818	Series	X430-ND	.58	.52	.42	.37	ECS-143-S-4
	14.31818	20.0pF	X444-ND	.58	.52	.42	.37	ECS-143-20-4
	14.74560	Series	X431-ND	.58	.52	.42	.37	ECS-147.4-S-4
	14.74560	20.0pF	X175-ND	.58	.52	.42	.37	ECS-147.4-20-4
	15.00000	Series	X432-ND	.58	.52	.42	.37	ECS-150-S-4
	15.36000	20.0pF	X096-ND	.75	.63	.50	.39	ECS-153-20-4
	16.00000	Series	X433-ND	.58	.52	.42	.37	ECS-160-S-4
	16.00000	20.0pF	X176-ND	.58	.52	.42	.37	ECS-160-20-4
	16.00031	18.0pF	X177-ND	.58	.52	.42	.37	ECS-160.003-18-4
	16.25700	Series	X434-ND	.58	.52	.42	.37	ECS-162.5-S-4
	16.25700	20.0pF	X039-ND	.75	.63	.50	.39	ECS-162.5-20-4
	18.00000	Series	X435-ND	.58	.52	.42	.37	ECS-180-S-4
	18.00000	20.0pF	X178-ND	.58	.52	.42	.37	ECS-180-20-4
	18.43200	Series	X436-ND	.58	.52	.42	.37	ECS-184-S-4
	18.43200	18.0pF	X179-ND	.58	.52	.42	.37	ECS-184-18-4
	18.43200	20.0pF	X180-ND	.58	.52	.42	.37	ECS-184-20-4
	19.66080	Series	X437-ND	.58	.52	.42	.37	ECS-196.6-S-4
	19.66080	20.0pF	X181-ND	.58	.52	.42	.37	ECS-196.6-20-4
	20.00000	Series	X438-ND	.58	.52	.42	.37	ECS-200-S-4
	20.00000	20.0pF	X439-ND	.58	.52	.42	.37	ECS-200-20-4
	20.48000	20.0pF	X229-ND	.58	.52	.42	.37	ECS-204.8-20-4
	21.47727	Series	X044-ND	.75	.63	.50	.39	ECS-214.7-S-4
	22.11840	Series	X182-ND	.58	.52	.42	.37	ECS-221-S-4
	24.00000	Series	X440-ND	.58	.52	.42	.37	ECS-240-S-4
	24.00000	16.0pF	X441-ND	.58	.52	.42	.37	ECS-240-16-4
	24.00000	20.0pF	X442-ND	.58	.52	.42	.37	ECS-240-20-4
	24.00014	18.0pF	X183-ND	.58	.52	.42	.37	ECS-240.001-18-4
	24.57600	20.0pF	X230-ND	.58	.52	.42	.37	ECS-245.7-20-4
	25.00000	18.0pF	X231-ND	.58	.52	.42	.37	ECS-250-18-4-F
	48.00000	20.0pF	XC942-ND	.58	.52	.42	.37	ECS-480-20-4
HC-49US-DN								
3	3.57955	17.0pF	X184-ND	.80	.72	.58	.52	ECS-35-17-4DN
	3.68640	20.0pF	X185-ND	.80	.72	.58	.52	ECS-36-20-4DN
	4.00000	20.0pF	X186-ND	.80	.72	.58	.52	ECS-40-20-4DN
	6.00000	32.0pF	X187-ND	.80	.72	.58	.52	ECS-60-32-4DN
	7.37280	20.0pF	X188-ND	.80	.72	.58	.52	ECS-73-20-4DN
	8.00000	18.0pF	X189-ND	.80	.72	.58	.52	ECS-80-18-4DN
	12.00000	20.0pF	X190-ND	.80	.72	.58	.52	ECS-120-20-4DN
	14.31818	20.0pF	X191-ND	.80	.72	.58	.52	ECS-143-20-4DN
	16.00000	20.0pF	X192-ND	.80	.72	.58	.52	ECS-160-20-4DN
	18.43200	20.0pF	X193-ND	.80	.72	.58	.52	ECS-184-20-4DN
	19.66080	20.0pF	X194-ND	.80	.72	.58	.52	ECS-196-20-4DN
	20.00000	20.0pF	X195-ND	.80	.72	.58	.52	ECS-200-20-4DN
	24.00000	20.0pF	X196-ND	.80	.72	.58	.52	ECS-240-20-4DN
HC-6/U								
4	3.64000	32.0pF	X008-ND	1.24	1.03	.82	.64	ECS-36.4-32-2P
	3.70000	32.0pF	X012-ND	1.24	1.03	.82	.64	ECS-37-32-2P

•1.0 Frequency: 100ppm @ 25°C; ±100ppm from 0°C ~ 60°C †3rd Overtone

MD Low Profile Quartz Crystals ECX-64

ctrical Characteristics: • **Frequency Tolerance:** ±50ppm • **Shunt Capacitance:** 7pF • **Drive Level:** µW • **Operating Temperature:** -10°C ~ 70°C • **Storage Temperature:** -40°C ~ 85°C • **Aging (First Year):** pm • **Equivalent Series Resistance (ESR):** 40Ω • **Operating Mode:** Fundamental

g. 1 ECX-64A (23A)

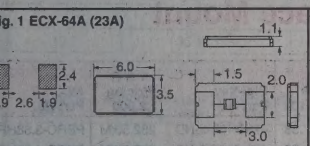
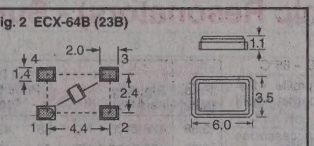


Fig. 2 ECX-64B (23B)

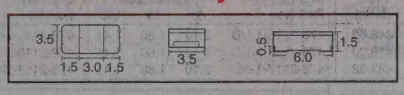


Load Cap.	Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T&R Pricing 1,000	ECS Part No.
ECX-64A								
20.0pF	14.31818	XC821CT-ND	3.30	2.97	2.48	XC821TR-ND	1650.00	ECS-143-20-23A-TR
Series	14.31818	XC822CT-ND	3.30	2.97	2.48	XC822TR-ND	1650.00	ECS-143-S-23A-TR
20.0pF	14.74560	XC823CT-ND	3.30	2.97	2.48	XC823TR-ND	1650.00	ECS-147-20-23A-TR
20.0pF	16.00000	XC824CT-ND	3.30	2.97	2.48	XC824TR-ND	1650.00	ECS-160-20-23A-TR
Series	16.00000	XC825CT-ND	3.30	2.97	2.48	XC825TR-ND	1650.00	ECS-160-S-23A-TR
20.0pF	18.43200	XC826CT-ND	3.30	2.97	2.48	XC826TR-ND	1650.00	ECS-184-20-23A-TR
Series	18.43200	XC827CT-ND	3.30	2.97	2.48	XC827TR-ND	1650.00	ECS-184-S-23A-TR
20.0pF	19.66080	XC828CT-ND	3.30	2.97	2.48	XC828TR-ND	1650.00	ECS-196-20-23A-TR

Fig.	Load Cap.	Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T&R Pricing 1,000	ECS Part No.
ECX-64A (continued)									
1	Series	19.66080	XC829CT-ND	3.30	2.97	2.48	XC829TR-ND	1650.00	ECS-196-S-23A-TR
	20.0pF	20.00000	XC830CT-ND	3.30	2.97	2.48	XC830TR-ND	1650.00	ECS-200-20-23A-TR
	Series	20.00000	XC831CT-ND	3.30	2.97	2.48	XC831TR-ND	1650.00	ECS-200-S-23A-TR
	Series	24.00000	XC832CT-ND	3.30	2.97	2.48	XC832TR-ND	1650.00	ECS-240-S-23A-TR
ECX-64B									
2	20.0pF	14.31818	XC809CT-ND	3.75	3.38	2.82	XC809TR-ND	1875.00	ECS-143-20-23B-TR
	Series	14.31818	XC810CT-ND	3.75	3.38	2.82	XC810TR-ND	1875.00	ECS-143-S-23B-TR
	20.0pF	14.74560	XC811CT-ND	3.75	3.38	2.82	XC811TR-ND	1875.00	ECS-147-20-23B-TR
	20.0pF	16.00000	XC812CT-ND	3.75	3.38	2.82	XC812TR-ND	1875.00	ECS-160-20-23B-TR
	Series	16.00000	XC813CT-ND	3.75	3.38	2.82	XC813TR-ND	1875.00	ECS-160-S-23B-TR
	20.0pF	18.43200	XC814CT-ND	3.75	3.38	2.82	XC814TR-ND	1875.00	ECS-184-20-23B-TR
	Series	18.43200	XC815CT-ND	3.75	3.38	2.82	XC815TR-ND	1875.00	ECS-184-S-23B-TR
	20.0pF	19.66080	XC816CT-ND	3.75	3.38	2.82	XC816TR-ND	1875.00	ECS-196-20-23B-TR
	Series	19.66080	XC817CT-ND	3.75	3.38	2.82	XC817TR-ND	1875.00	ECS-196-S-23B-TR
	20.0pF	20.00000	XC818CT-ND	3.75	3.38	2.82	XC818TR-ND	1875.00	ECS-200-20-23B-TR
	Series	20.00000	XC819CT-ND	3.75	3.38	2.82	XC819TR-ND	1875.00	ECS-200-S-23B-TR
	Series	24.00000	XC820CT-ND	3.75	3.38	2.82	XC820TR-ND	1875.00	ECS-240-S-23B-TR

MD Ultralow Profile Quartz Crystals

ctrical Characteristics:
perating Mode: Fundamental
ive Level: 10µW
requency Tolerance: ±50ppm
perating Temperature: -10°C ~ 70°C



Load Capacitance	Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	ECS Part No.
Series	18	XC804CT-ND	3.91	3.56	3.16	ECS-180-S-15-TR
Series	24	XC808CT-ND	3.91	3.56	3.16	ECS-240-S-15-TR

Ceramic Resonators - Surface Mount

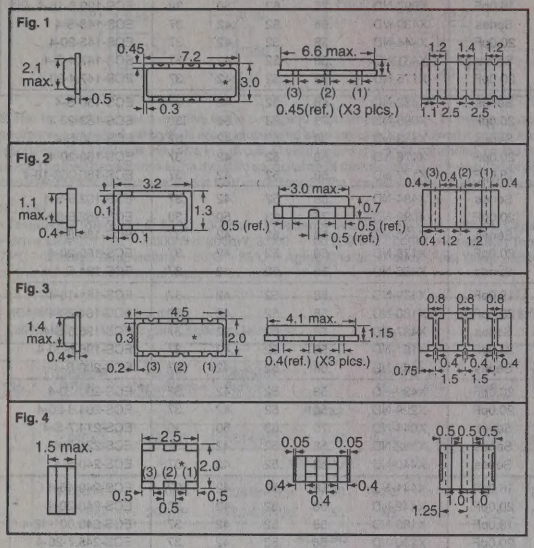


Fig.	Freq. (MHz)	Operating Temperature	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Size	Pricing	Murata Part No.
CSTCC–G Series - Commercial										
1	2.00	-20°C ~ 80°C	490-1193-1-ND	.76	.63	.49	490-1193-2-ND	2,000	378.70/M	CSTCC2M00G53-R0
	3.58	-20°C ~ 80°C	490-1194-1-ND	.58	.49	.38	490-1194-2-ND	2,000	292.08/M	CSTCC3M58G53-R0
CSTCC–G Series - Industrial										
1	2.00	-40°C ~ 125°C	490-1216-1-ND	.85	.74	.58	490-1216-2-ND	2,000	341.32/M	CSTCC2M00G53Z-R
CSTCE–G Series - Commercial										
2	8.00	-20°C ~ 80°C	490-1195-1-ND	.62	.52	.41	490-1195-2-ND	3,000	312.03/M	CSTCE8M00G55-R0
	10.00	-20°C ~ 80°C	490-1196-1-ND	.69	.57	.45	490-1196-2-ND	3,000	343.00/M	CSTCE10M00G55-R0
	12.00	-20°C ~ 80°C	490-1197-1-ND	.80	.66	.52	490-1197-2-ND	3,000	398.48/M	CSTCE12M0G55-R0
3	4.00	-20°C ~ 80°C	490-1200-1-ND	.57	.48	.37	490-1200-2-ND	3,000	286.13/M	CSTCR4M00G53-R0
	4.19	-20°C ~ 80°C	490-1201-1-ND	.57	.48	.37	490-1201-2-ND	3,000	286.13/M	CSTCR4M19G53-R0
	4.91	-20°C ~ 80°C	490-1202-1-ND	.62	.52	.41	490-1202-2-ND	3,000	311.50/M	CSTCR4M91G53-R0
	5.00	-20°C ~ 80°C	490-1203-1-ND	.62	.52	.41	490-1203-2-ND	3,000	311.50/M	CSTCR5M00G53-R0
	6.00	-20°C ~ 80°C	490-1204-1-ND	.63	.53	.41	490-1204-2-ND	3,000	314.48/M	CSTCR6M00G53-R0
CSTCE–G Series - Industrial										
2	8.00	-40°C ~ 125°C	490-1219-1-ND	.65	.55	.43	490-1219-2-ND	3,000	327.08/M	CSTCE8M00G55Z-R
	12.00	-40°C ~ 125°C	490-1220-1-ND	.70	.58	.45	490-1220-2-ND	3,000	348.78/M	CSTCE12M0G55Z-R
3	4.00	-40°C ~ 125°C	490-1217-1-ND	.65	.55	.43	490-1217-2-ND	3,000	261.94/M	CSTCR4M00G53Z-R
	6.00	-40°C ~ 125°C	490-1218-1-ND	.65	.55	.43	490-1218-2-ND	3,000	327.43/M	CSTCR6M00G53Z-R
CSTCE–V Series - Commercial										
2	16.00	-20°C ~ 80°C	490-1198-1-ND	.91	.76	.59	490-1198-2-ND	3,000	457.45/M	CSTCE16M0V53-R0
	20.00	-20°C ~ 80°C	490-1199-1-ND	.91	.76	.59	490-1199-2-ND	3,000	457.45/M	CSTCE20M0V53-R0
CSTCW–X Series - Commercial										
4	24.00	-20°C ~ 80°C	490-1205-1-ND	.77	.64	.50	490-1205-2-ND	3,000	383.08/M	CSTCW24M0X53-R0
	48.00	-20°C ~ 80°C	490-1206-1-ND	.77	.64	.50	490-1206-2-ND	3,000	383.08/M	CSTCW48M0X51-R0

Ceramic Resonators - Leaded

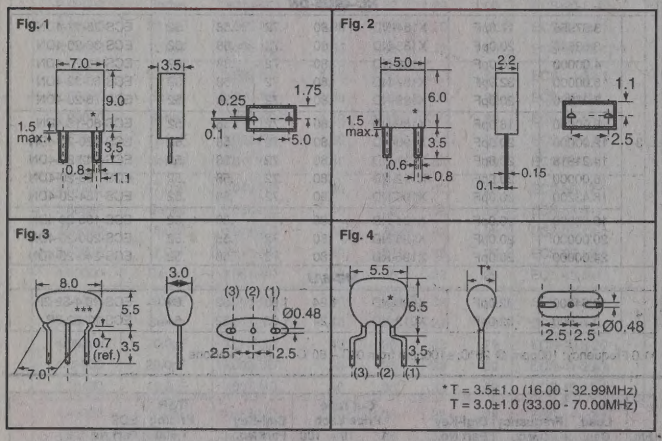
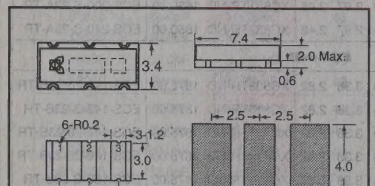


Fig.	Frequency	Operating Temperature	Digi-Key Part No.	Price Each 1	10	100	Murata Part No.
CSBLA Series - Commercial							
1	400.00kHz	-20°C ~ 80°C	490-1186-ND	.76	.64	.49	CSBLA400KECE-B0
	455.00kHz	-20°C ~ 80°C	490-1187-ND	.70	.59	.46	CSBLA455KEC8-B0
	480.00kHz	-20°C ~ 80°C	490-1188-ND	.72	.60	.47	CSBLA480KEC8-B0
	500.00kHz	-20°C ~ 80°C	490-1189-ND	.72	.60	.47	CSBLA500KEC8-B0
	540.00kHz	-20°C ~ 80°C	490-1190-ND	.70	.59	.46	CSBLA540KEC8-B0
	640.00kHz	-20°C ~ 80°C	490-1191-ND	.70	.59	.46	CSBLA640KEC8-B0
2	800.00kHz	-20°C ~ 80°C	490-1192-ND	.88	.74	.57	CSBLA800KJ58-B0
	1.00MHz	-20°C ~ 80°C	490-1185-ND	.89	.75	.58	CSBLA1M00J58-B0
CSTLS Series - Commercial							
3	3.58MHz	-20°C ~ 80°C	490-1207-ND	.35	.29	.23	CSTLS3M58G53-B0
	4.00MHz	-20°C ~ 80°C	490-1208-ND	.33	.28	.22	CSTLS4M00G53-B0
	4.19MHz	-20°C ~ 80°C	490-1209-ND	.35	.29	.23	CSTLS4M19G53-B0
	5.00MHz	-20°C ~ 80°C	490-1210-ND	.35	.29	.23	CSTLS5M00G53-B0
	6.00MHz	-20°C ~ 80°C	490-1211-ND	.35	.29	.23	CSTLS6M00G53-B0
	8.00MHz	-20°C ~ 80°C	490-1212-ND	.36	.31	.24	CSTLS8M00G53-B0
	10.00MHz	-20°C ~ 80°C	490-1213-ND	.41	.35	.27	CSTLS10M0G53-B0
4	16.00MHz	-20°C ~ 80°C	490-1214-ND	.66	.55	.43	CSTLS16M0X55-B0
	20.00MHz	-20°C ~ 80°C	490-1215-ND	.61	.51	.40	CSTLS20M0X53-B0
	50.00MHz	-20°C ~ 80°C	490-2606-ND	.71	.60	.46	CSTLS50M0X51-B0
CSTLS Series - Industrial							
3	4.00MHz	-40°C ~ 125°C	490-1221-ND	.36	.30	.24	CSTLS4M00G53Z-B0
	6.00MHz	-40°C ~ 125°C	490-1222-ND	.42	.35	.27	CSTLS6M00G53Z-B0
	8.00MHz	-40°C ~ 125°C	490-1223-ND	.39	.33	.26	CSTLS8M00G53Z-B0

PBRC-H Series (MHz Band Ceramic Resonators) - Surface Mount



Specifications: • **Operating Temperature:** -40°C ~ 85°C

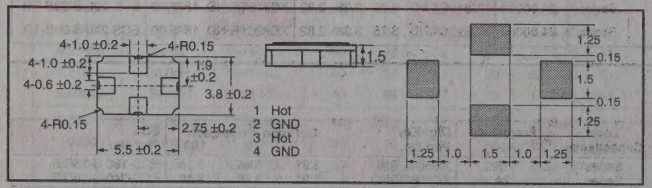
Features: • Excellent frequency stability • Low profile • Reflow solderable • Excellent solderability (Nickel barrier + gold flash termination)

Applications: • Automotive and automotive accessories • Camcorders • Digital Cameras • PDAs • PC Peripherals

Frequency Range (MHz)	Tolerance (25°C)	Temperature Stability	Standard Frequency
3.58 ~ 8.00	±0.5% (op. ±0.3%)	±0.5% (-40°C ~ 85°C)	3.58, 4.00, 4.19, 6.00, 8.00
8.01 ~ 20.00	±0.7% (op. ±0.5%)	±0.1% (-40°C ~ 85°C)	10.0, 12.0, 16.0, 20.0

Freq. (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T & R Pricing 2,000	AVX Part No.
3.58	478-2106-1-ND	.56	.49	.38	478-2106-2-ND	262.50/M	PBRC-3.58HR
4.00	478-2107-1-ND	.56	.49	.38	478-2107-2-ND	262.50/M	PBRC-4.00HR
4.19	478-2108-1-ND	.56	.49	.38	478-2108-2-ND	262.50/M	PBRC-4.19HR
6.00	478-2109-1-ND	.56	.49	.38	478-2109-2-ND	262.50/M	PBRC-6.00HR
8.00	478-2110-1-ND	.56	.49	.38	478-2110-2-ND	262.50/M	PBRC-8.00HR
10.00	478-2111-1-ND	.94	.82	.63	478-2111-2-ND	437.50/M	PBRC-10.00HR
12.00	478-2112-1-ND	.94	.82	.63	478-2112-2-ND	437.50/M	PBRC-12.00HR
16.00	478-2113-1-ND	.94	.82	.63	478-2113-2-ND	437.50/M	PBRC-16.00HR
20.00	478-2114-1-ND	.94	.82	.63	478-2114-2-ND	437.50/M	PBRC-20.00HR

PARS Series (SAW Resonators) - Surface Mount



Specifications: • **Operating Temperature:** -40°C ~ 85°C

Features: • Low profile • Highly reliable SMD ceramic package • Excellent temperature characteristics

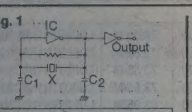
Applications: • Keyless entry systems • Garage door openers • Security systems • 1 port type surface mount resonator

Freq. (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T & R Pricing 2,000	AVX Part No.
315.00	478-2115-1-ND	2.10	1.80	1.41	478-2115-2-ND	840.00/M	PARS315.00K04R
418.00	478-2116-1-ND	2.10	1.80	1.41	478-2116-2-ND	840.00/M	PARS418.00K04R
433.92	478-2117-1-ND	2.10	1.80	1.41	478-2117-2-ND	840.00/M	PARS433.92K04R

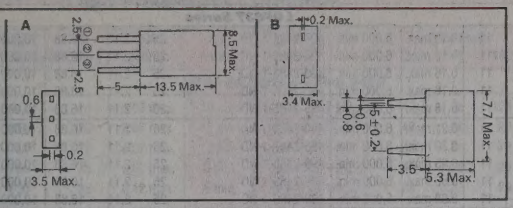
TOKO Ceramic Resonators - SMD

TOKO ceramic resonators utilize the piezoelectric principle converting a mechanical force (stress) into an electrical signal or converting an electrical signal into a mechanical force. The ceramic resonator is a thin section of piezoelectric ceramic material, such as quartz, whose sides are metallized into a corresponding pair of electrodes and upon the application of current produce a lengthwise vibration.

Fig. 1



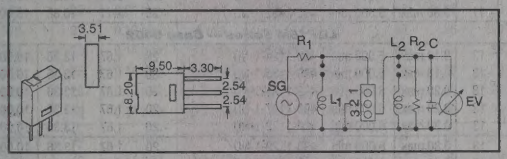
Output	
IC	1/5µ - PD4069
VDD	+5V
X	Ceramic Element
C1, C2	Capacitors



Oscillating Frequency	External Components	Digi-Key Part No.	Price Each 1	10	100	Toko Part No.
Fig. 1 A — CRL Type						
220kHz±3%	C1-300pF, C2-300pF	TK9920-ND	3.55	2.85	1.78	CRL220
262kHz±3%	C1-300pF, C2-300pF	TK9921-ND	3.55	2.85	1.78	CRL262
Fig. 1 B — CRK Type						
400kHz±1%	C1-560 pF, C2-200 pF	TK9940-ND	1.88	1.52	.94	BP11DCRK400
455kHz±1%	C1-560 pF, C2-200 pF	TK9942-ND	1.88	1.52	.94	BP11DCRK455

AM Ceramic Filters

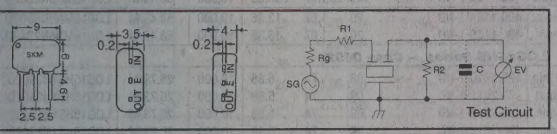
Frequency: 455kHz
Insertion Loss: 6dB
Attenuation: 30dB @ 100kHz



Bandwidth (kHz)	Stopband @ Frequency Band (f0+or-)	Impedance (kΩ)	Digi-Key Part No.	Price Each 1	10	100	Toko Part No.
CFM2 Type							
8	12dB @ 9kHz	2	TK2332-ND	2.65	2.33	1.66	AHCFM2-455CL
10	9dB @ 9kHz	2	TK2333-ND	2.89	2.53	1.81	AHCFM2-455DL
12	6dB @ 9kHz	2.5	TK2334-ND	2.89	2.53	1.81	AHCFM2-455EL

FM Ceramic Filters

Frequency: 10.7MHz
Impedance: 330Ω



Bandwidth (kHz)	Insertion Loss (Max.)	Spurious Response	Digi-Key Part No.	Price Each 1	10	100	Toko Part No.
CFSK Type							
150	10dB	40dB	TK2308-ND	2.12	1.72	1.06	SK107M4N-AO-20
330	6dB	30dB	TK2310-ND	3.12	2.52	1.56	SK107MON-AO-10
380	5dB	30dB	TK2311-ND	3.12	2.52	1.56	SK107MAN-AO-10

Murata Ceramic Filters

Innovator in Electronics
Murata Electronics

SFECS10M7 series for FM receivers are small, high performance and super thin filters
SFECV10M7 series for FM receivers are monolithic type ceramic filters which utilize the thickness expander mode of the piezoelectric ceramic
SFELA10M7 series for FM receivers are monolithic type ceramic filters which use the energy trapped thickness vibration mode of the piezoelectric ceramic. Change in center frequency is typically within ±30ppm/°C @ -20°C ~ 80°C.

Fig. 1

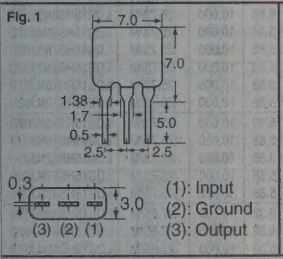


Fig. 2

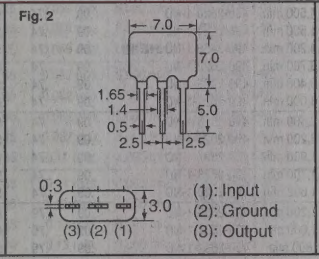


Fig. 3

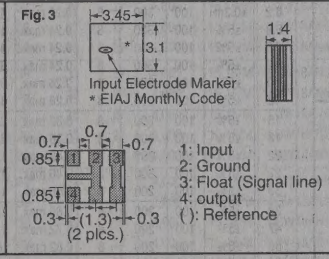


Fig.4

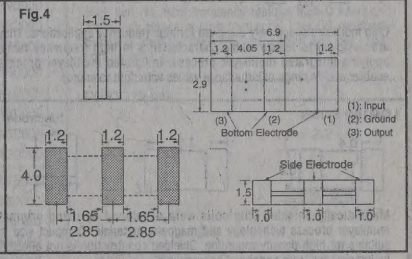


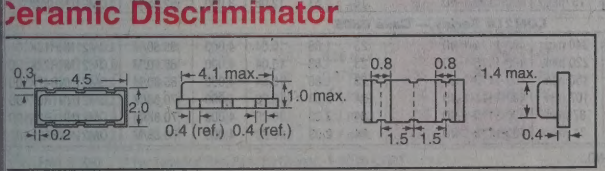
Fig.	Frequency (MHz)	Attenuation (Min) @ Frequency	Bandwidth (kHz)	Insertion Loss (dB)	Attenuation (dB)	Input/Output Impedance (Ω)	Digi-Key Part No.	Price Each 1	10	100	Murata Part No.
SFELA											
1	10.7	20 @ 950	200	3	20	470/470	490-1235-ND	.81	.67	.52	SFELA10M7DF0021-B0
	10.7	20 @ 950	350	3	20	470/470	490-1233-ND	.89	.74	.58	SFELA10M7DF00-B0
	10.7±30kHz	30 @ 650	280	4	30	330/330	490-1237-ND	.41	.34	.27	SFELA10M7FA00-B0
	10.7±30kHz	40 @ 520	180	7	40	330/330	490-1234-ND	.49	.41	.32	SFELA10M7HA00-B0
SFVLA											
2	10.7	35 @ 135	26	5	35	330/330	490-1239-ND	2.38	1.98	1.54	SFVLA10M7MF00-B0

Fig.	Frequency (MHz)	Attenuation (Min) @ Frequency	Bandwidth (kHz)	Insertion Loss (dB)	Attenuation (dB)	Input/Output Impedance (Ω)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 2,000	Murata Part No.
SFECS													
3	10.7	20 @ 950	400	3	20	330/330	490-1225-1-ND	2.18	1.89	1.46	490-1225-2-ND	1017.10/M	SFECS10M7DF0021-R0
	10.7±30kHz	30 @ 470	180	4.5	30	330/330	490-1224-1-ND	1.40	1.22	.94	490-1224-2-ND	652.58/M	SFECS10M7HA00-R0
	10.7±30kHz	30 @ 510	230	3.5	30	330/330	490-1226-1-ND	1.36	1.18	.91	—	—	SFECS10M7GA00-R0
	10.7±30kHz	30 @ 590	280	3	30	330/330	490-1227-1-ND	1.37	1.19	.92	490-1227-2-ND	637.18/M	SFECS10M7FA00-R0
	10.7±30kHz	30 @ 700	330	3	30	330/330	490-1228-1-ND	2.08	1.80	1.39	490-1228-2-ND	968.80/M	SFECS10M7EA00-R0
SFECV													
4	10.7±30kHz	20 @ 320	110	6	35	330/330	490-1229-1-ND	1.92	1.67	1.29	490-1229-2-ND	896.70/M	SFECV10M7KA00-R0
	10.7±30kHz	20 @ 380	150	5.5	35	330/330	490-1230-1-ND	1.84	1.60	1.23	490-1230-2-ND	858.55/M	SFECV10M7JA00-R0
	10.7±40kHz	20 @ 950	500	2	20	470/470	490-1231-1-ND	2.39	2.07	1.60	490-1231-2-ND	1113.53/M	SFECV10M7CQ0C01-R0

Ceramic Discriminator

CDSCB10M7 series forms a resonator on a piezoelectric ceramic substrate. In combination with IC's this type obtains stable demodulation characteristics in a wide bandwidth.

Specifications: • **Recovered Audio Output:** 75mV min. • **Recovered Audio 3dB (kHz):** 500 min. • **Distortion:** 1% max. • Detection Method: Quadrature



Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T & R Pricing 2,000	Murata Part No.
10.7	490-1240-1-ND	1.07	.89	.69	490-1240-2-ND	536.55/M	CDSCB10M7GA119-R0

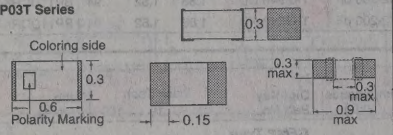
muRata *Innovator in Electronics*

Murata Electronics

Chip Coils Monolithic and Film Type SMD

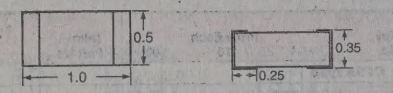
Lead Free/RoHS Compliant

LQP03T Series



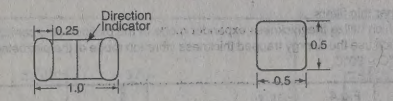
Murata's original thin film technology contributes further to miniaturizing high performance equipment because the size is small and the Q-value is high.

LQP15M Series



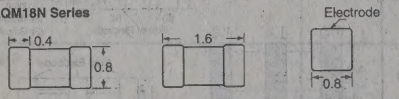
Features: • Tight inductance tolerance • Ultra small size 0402 inductor, low profile and lightest weight in the world, enables miniaturization of mobile telecommunication equipment • Weight: LQP15M Series 0.61mg/pcs. <-- --> multilayer film type inductor 0.94mg/pcs

LQG15HS Series



Chip inductors specifically designed for high frequency applications. They are designed to realize stable characteristics in high frequency range applying integrated multilayer process. Integrated multilayer process enables a wide range of inductance values with tight tolerance.

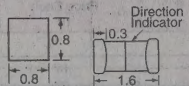
LQM18N Series



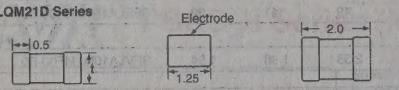
Magnetically shielded chip coils were developed by using original multilayer process technology and magnetic materials. Compact size is suitable for high density mounting. Shielded construction is not affected by interference from peripheral components.

LQG18H Series

Designed to realize stable characteristics in high frequency range applying integrated multilayer process. Monolithic air core.



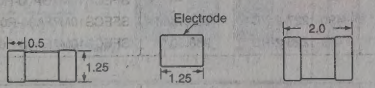
LQM21D Series



Consists of magnetically shielded chip inductors. It has less than half the DC resistance of our conventional monolithic chip inductors as well as high inductance. Monolithic design.

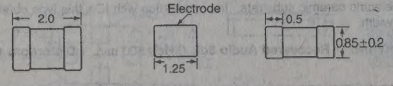
Part No.	t
LQM21DN4R7N00 to N100N00	0.85 ± 0.2
LQM21DN220N00	1.25 ± 0.2

LQM21F Series



Suitable for power line choke because of its excellent direct current characteristics. The series has larger rated current (60mA at 10 micro H) than conventional rated current. Monolithic ferrite core.

LQM21N Series



Consists of magnetically shielded chip inductors developed using Murata's original multilayer process technology and magnetic materials. The miniature size of 2.0mm x 1.25mm enables compact design of electric equipment.

Induct-ance (nH)	Toler-ance	Test Freq. (MHz)	Rated Current (mA)	Q (Min.)	DCR (ohm)	SRF (MHz)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Tape and Reel* Size	Pricing	Murata Part No.
LQP03T Series													
1.0	±0.2nH	500	400	11	0.10 max.	6,000 min.	490-2481-1-ND	.25	2.11	16.88	10,000	73.85/M	LQP03TN1N0C00D
1.2	±0.2nH	500	280	11	0.13 max.	6,000 min.	490-2482-1-ND	.25	2.11	16.88	10,000	73.85/M	LQP03TN1N2C00D
1.5	±0.2nH	500	280	11	0.16 max.	6,000 min.	490-2483-1-ND	.25	2.11	16.88	10,000	73.85/M	LQP03TN1N5C00D
1.8	±0.2nH	500	280	11	0.16 max.	6,000 min.	490-2484-1-ND	.25	2.11	16.88	10,000	73.85/M	LQP03TN1N8C00D
2.2	±0.2nH	500	220	11	0.18 max.	6,000 min.	490-2485-1-ND	.25	2.11	16.88	10,000	73.85/M	LQP03TN2N2C00D
2.7	±0.2nH	500	220	11	0.21 max.	6,000 min.	490-2486-1-ND	.25	2.11	16.88	10,000	73.85/M	LQP03TN2N7C00D
3.3	±0.2nH	500	190	11	0.30 max.	6,000 min.	490-2487-1-ND	.25	2.11	16.88	10,000	73.85/M	LQP03TN3N3C00D
3.9	±0.2nH	500	170	11	0.45 max.	6,000 min.	490-2488-1-ND	.25	2.11	16.88	10,000	73.85/M	LQP03TN3N9C00D
4.7	±5%	500	160	11	0.55 max.	6,000 min.	490-2489-1-ND	.25	2.11	16.88	10,000	73.85/M	LQP03TN4N7J00D
5.6	±5%	500	140	11	0.68 max.	6,000 min.	490-2490-1-ND	.25	2.11	16.88	10,000	73.85/M	LQP03TN5N6J00D
6.8	±5%	500	130	11	0.75 max.	6,000 min.	490-2491-1-ND	.25	2.11	16.88	10,000	73.85/M	LQP03TN6N8J00D
8.2	±5%	500	110	11	0.86 max.	5,500 min.	490-2492-1-ND	.25	2.11	16.88	10,000	73.85/M	LQP03TN8N2J00D
LQP15M Series — Case 0402													
1.0	±0.1nH	500	400	13	0.10 max.	6,000 min.	490-1124-1-ND	.20	1.67	13.36	10,000	58.45/M	LQP15MN1N0B02
1.2	±0.1nH	500	390	13	0.10 max.	6,000 min.	490-1125-1-ND	.20	1.67	13.36	10,000	58.45/M	LQP15MN1N2B02
1.5	±0.1nH	500	280	13	0.20 max.	6,000 min.	490-1126-1-ND	.20	1.67	13.36	10,000	58.45/M	LQP15MN1N5B02
1.8	±0.1nH	500	280	13	0.20 max.	6,000 min.	490-1127-1-ND	.20	1.67	13.36	10,000	58.45/M	LQP15MN1N8B02
2.2	±0.1nH	500	220	13	0.30 max.	6,000 min.	490-1128-1-ND	.20	1.67	13.36	10,000	58.45/M	LQP15MN2N2B02
2.7	±0.1nH	500	220	13	0.30 max.	6,000 min.	490-1129-1-ND	.20	1.67	13.36	10,000	58.45/M	LQP15MN2N7B02
3.3	±0.1nH	500	190	13	0.40 max.	6,000 min.	490-1130-1-ND	.20	1.67	13.36	10,000	58.45/M	LQP15MN3N3B02
3.9	±0.1nH	500	170	13	0.50 max.	6,000 min.	490-1131-1-ND	.20	1.67	13.36	10,000	58.45/M	LQP15MN3N9B02
4.7	±0.1nH	500	160	13	0.60 max.	6,000 min.	490-1132-1-ND	.20	1.67	13.36	10,000	58.45/M	LQP15MN4N7B02
5.6	±0.1nH	500	140	13	0.70 max.	6,000 min.	490-1133-1-ND	.20	1.67	13.36	10,000	58.45/M	LQP15MN5N6B02
6.8	±0.1nH	500	130	13	0.90 max.	6,000 min.	490-1134-1-ND	.20	1.67	13.36	10,000	58.45/M	LQP15MN6N8B02
8.2	±0.1nH	500	110	13	1.10 max.	5,500 min.	490-1135-1-ND	.20	1.67	13.36	10,000	58.45/M	LQP15MN8N2B02
LQG15HS Series — Case 0402													
1.0	±0.3nH	100	300	8	0.07 max.	10,000 min.	490-2610-1-ND	.09	.74	5.88	10,000	25.73/M	LQG15HS1N0S02
1.2	±0.3nH	100	300	8	0.09 max.	6,000 min.	490-2611-1-ND	.09	.74	5.88	10,000	25.73/M	LQG15HS1N2S02
1.5	±0.3nH	100	300	8	0.10 max.	6,000 min.	490-2612-1-ND	.09	.74	5.88	10,000	25.73/M	LQG15HS1N5S02
1.8	±0.3nH	100	300	8	0.10 max.	6,000 min.	490-2613-1-ND	.09	.74	5.88	10,000	25.73/M	LQG15HS1N8S02
2.2	±0.3nH	100	300	8	0.12 max.	6,000 min.	490-2614-1-ND	.09	.74	5.88	10,000	25.73/M	LQG15HS2N2S02
2.7	±0.3nH	100	300	8	0.15 max.	6,000 min.	490-2615-1-ND	.09	.74	5.88	10,000	25.73/M	LQG15HS2N7S02
3.3	±0.3nH	100	300	8	0.17 max.	6,000 min.	490-2616-1-ND	.09	.74	5.88	10,000	25.73/M	LQG15HS3N3S02
3.9	±0.3nH	100	300	8	0.18 max.	6,000 min.	490-2617-1-ND	.09	.74	5.88	10,000	25.73/M	LQG15HS3N9S02
4.7	±0.3nH	100	300	8	0.18 max.	6,000 min.	490-2618-1-ND	.09	.74	5.88	10,000	25.73/M	LQG15HS4N7S02
5.6	±0.3nH	100	300	8	0.20 max.	4,500 min.	490-2619-1-ND	.09	.74	5.88	10,000	25.73/M	LQG15HS5N6S02
6.2	±0.3nH	100	300	8	0.22 max.	4,500 min.	490-2620-1-ND	.09	.74	5.88	10,000	25.73/M	LQG15HS6N2S02
6.8	±5%	100	300	8	0.24 max.	4,500 min.	490-2621-1-ND	.09	.74	5.88	10,000	25.73/M	LQG15HS6N8J02
7.5	±5%	100	300	8	0.24 max.	4,200 min.	490-3456-1-ND **NEW!**	.09	.74	5.88	10,000	25.73/M	LQG15HS7N5J02
8.2	±5%	100	300	8	0.24 max.	3,700 min.	490-2622-1-ND	.09	.74	5.88	10,000	25.73/M	LQG15HS8N2J02
10	±5%	100	300	8	0.26 max.	3,400 min.	490-2623-1-ND	.09	.74	5.88	10,000	25.73/M	LQG15HS10NJ02
12	±5%	100	300	8	0.28 max.	3,000 min.	490-2624-1-ND	.09	.74	5.88	10,000	25.73/M	LQG15HS12NJ02
15	±5%	100	300	8	0.32 max.	2,500 min.	490-2625-1-ND	.09	.74	5.88	10,000	25.73/M	LQG15HS15NJ02
18	±5%	100	300	8	0.36 max.	2,200 min.	490-2626-1-ND	.09	.74	5.88	10,000	25.73/M	LQG15HS18NJ02
22	±5%	100	300	8	0.42 max.	1,900 min.	490-2627-1-ND	.09	.74	5.88	10,000	25.73/M	LQG15HS22NJ02
27	±5%	100	300	8	0.46 max.	1,700 min.	490-2628-1-ND	.09	.74	5.88	10,000	25.73/M	LQG15HS27NJ02
33	±5%	100	200	8	0.58 max.	1,600 min.	490-2629-1-ND	.09	.74	5.88	10,000	25.73/M	LQG15HS33NJ02
39	±5%	100	200	8	0.65 max.	1,200 min.	490-2630-1-ND	.09	.79	6.32	10,000	27.65/M	LQG15HS39NJ02
47	±5%	100	200	8	0.72 max.	1,000 min.	490-2631-1-ND	.09	.79	6.32	10,000	27.65/M	LQG15HS47NJ02
56	±5%	100	200	8	0.82 max.	800 min.	490-2632-1-ND	.09	.79	6.32	10,000	27.65/M	LQG15HS56NJ02
68	±5%	100	180	8	0.92 max.	800 min.	490-2633-1-ND	.09	.79	6.32	10,000	27.65/M	LQG15HS68NJ02
82	±5%	100	150	8	1.20 max.	700 min.	490-2634-1-ND	.11	.88	7.00	10,000	30.63/M	LQG15HS82NJ02
100	±5%	100	150	8	1.25 max.	600 min.	490-2635-1-ND	.11	.88	7.00	10,000	30.63/M	LQG15HSR10J02
120	±5%	100	150	8	1.30 max.	600 min.	490-2636-1-ND	.11	.88	7.00	10,000	30.63/M	LQG15HSR12J02
150	±5%	100	140	8	2.99 max.	550 min.	490-2637-1-ND	.11	.88	7.00	10,000	30.63/M	LQG15HSR15J02
180	±5%	100	130	8	3.38 max.	500 min.	490-2638-1-ND	.12	.98	7.80	10,000	34.13/M	LQG15HSR18J02
220	±5%	100	120	8	3.77 max.	450 min.	490-2639-1-ND	.12	.98	7.80	10,000	34.13/M	LQG15HSR22J02
270	±5%	100	110	8	4.94 max.	400 min.	490-2640-1-ND	.12	.98	7.80	10,000	34.13/M	LQG15HSR27J02
LQM18N Series — Case 0603													
47	±20%	50	50	10	0.30 max.	260 min.	490-1110-1-ND	.23	1.93	15.44	4,000	67.55/M	LQM18NN47NM0
100	±10%	25	50	15	0.50 max.	240 min.	490-1111-1-ND	.23	1.93	15.44	4,000	67.55/M	LQM18NNR10K0
1000	±10%	10	25	35	0.60 max.	75 min.	490-1112-1-ND	.26	2.18	17.40	4,000	76.13/M	LQM18NN1R0K0
2200	±10%	10	15	35	1.15 max.	50 min.	490-1113-1-ND	.26	2.18	17.40	4,000	76.13/M	LQM18NN2R2K0
LQG18H Series — Case 0603													
1.2	±0.3nH	100	300	12	0.10 max.	6,000 min.	490-1099-1-ND	.21	1.75	14.00	4,000	61.25/M	LQG18HN1N2S0
1.5	±0.3nH	100	300	12	0.10 max.	6,000 min.	490-1100-1-ND	.21	1.75	14.00	4,000	61.25/M	LQG18HN1N5S0
1.8	±0.3nH	100	300	12	0.10 max.	6,000 min.	490-1101-1-ND	.21	1.75	14.00	4,000	61.25/M	LQG18HN1N8S0
2.2	±0.3nH	100	300	12	0.10 max.	6,000 min.	490-1102-1-ND	.21	1.75	14.00	4,000	61.25/M	LQG18HN2N2S0
2.7	±0.3nH	100	300	12	0.15 max.	6,000 min.	490-1103-1-ND	.21	1.75	14.00	4,000	61.25/M	LQG18HN2N7S0
3.3	±0.3nH	100	300	12	0.15 max.	6,000 min.	490-1104-1-ND	.21	1.75	14.00	4,000	61.25/M	LQG18HN3N3S0
3.9	±0.3nH	100	300	12	0.15 max.	6,000 min.	490-1105-1-ND	.21	1.75	14.00	4,000	61.25/M	LQG18HN3N9S0
4.7	±0.3nH	100	300	12	0.20 max.	6,000 min.	490-1106-1-ND	.21	1.75	14.00	4,000	61.25/M	LQG18HN4N7S0
5.6	±0.3nH	100	300	12	0.20 max.	5,000 min.	490-1107-1-ND	.21	1.75	14.00	4,000	61.25/M	LQG18HN5N6S0
6.8	±5%	100	300	12	0.25 max.	5,000 min.	490-1108-1-ND	.21	1.75	14.00	4,000	61.25/M	LQG18HN6N8J0
8.2	±5%	100	300	12	0.25 max.	4,000 min.	490-1109-1-ND	.21	1.75	14.00	4,000	61.25/M	LQG18HN8N2J0
LQM21D Series — Case 0805													
4.7µH	±30%	1	30	—	0.30 max.	35 min.	490-1120-1-ND	.26	2.19	17.52	4,000	76.65/M	LQM21DN4R7N0
10µH	±30%	1	15	—	0.50 max.	24 min.	490-1121-1-ND	.26	2.19	17.52	4,000	76.65/M	LQM21DN100N0
22µH	±30%	1	13	—	0.65 max.	16 min.	490-1123-1-ND	.26	2.19	17.52	3,000	76.65/M	LQM21DN220N0
LQM21F Series — Case 0805													
10µH	±30%	1	60	—	0.50±30%	15 min.	490-1122-1-ND	.18	1.51	12.08	3,000	52.85/M	LQM21FN100N0
LQM21N Series — Case 0805													
0.1µH	±10%	25	250	20	0.26 max.	340 min.	490-1114-1-ND	.23	1.88	15.04	4,000	65.80/M	LQM21NNR10K1
0.22µH	±10%	25	250	20	0.38 max.	220 min.	490-1115-1-ND	.23	1.88	15.04	4,000	65.80/M	LQM21NNR22K1
0.47µH	±10%	25	200	25	0.57 max.	150 min.	490-1116-1-ND	.23	1.88	15.04	4,000	65.80/M	LQM21NNR47K1
1µH	±10%	10	50	45	0.40 max.	107 min.	490-1117-1-ND	.24	2.03	16.20	4,000	70.88/M	LQM21NN1R0K1
1.5µH	±10%	10	50	45	0.50 max.	87 min.	490-1118-1-ND	.24	2.03	16.20	4,000	70.88/M	LQM21NN1R5K1
2.2µH	±10%	10	30	45	0.63 max.	71 min.	490-1119-1-ND	.24	2.03	16.20	4,000	70.88/M	LQM21NN2R2K1

* For Tape and Reel part number, change 1-ND to 2-ND.

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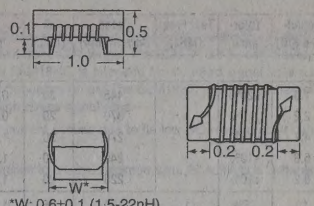
nduct-ce (nH)	Toler-ance	Test Freq. (MHz)	Rated Current (mA)	Q (Min.)	DCR (ohm)	SRF (GHz)	Digi-Key Part No.	Price Each 1	10	100	Tape and Reel* Size	Pricing	Murata Part No.
LQW15A Series — Pkg 0402													
1.5	±0.5nH	100	1000	10	0.03 max.	18 min.	490-1136-1-ND	.43	.36	.29	10,000	126.00/M	LQW15AN1N5D00D
2.7	±0.5nH	100	850	20	0.05 max.	15 min.	490-1137-1-ND	.43	.36	.29	10,000	126.00/M	LQW15AN2N7D00D
4.3	±0.2nH	100	750	25	0.07 max.	10 min.	490-1138-1-ND	.43	.36	.29	10,000	126.00/M	LQW15AN4N3C00D
4.7	±0.2nH	100	750	25	0.07 max.	8 min.	490-1139-1-ND	.43	.36	.29	10,000	126.00/M	LQW15AN4N7C00D
5.1	±0.5nH	100	600	25	0.12 max.	8 min.	490-1140-1-ND	.43	.36	.29	10,000	126.00/M	LQW15AN5N1D00D
6.2	±0.5nH	100	700	25	0.09 max	8 min.	490-1141-1-ND	.43	.36	.29	10,000	126.00/M	LQW15AN6N2D00D
6.8	±5%	100	700	25	0.09 max.	6 min.	490-1142-1-ND	.43	.36	.29	10,000	126.00/M	LQW15AN6N8J00D
7.5	±5%	100	570	25	0.13 max.	6 min.	490-1143-1-ND	.43	.36	.29	10,000	126.00/M	LQW15AN7N5J00D
8.2	±5%	100	540	25	0.14 max.	5.5 min.	490-1144-1-ND	.44	.37	.30	10,000	129.15/M	LQW15AN8N2J00D
9.1	±5%	100	540	25	0.14 max.	5.5 min.	490-1145-1-ND	.43	.36	.29	10,000	126.00/M	LQW15AN9N1J00D
10	±5%	100	500	25	0.17 max.	5.5 min.	490-1146-1-ND	.43	.36	.29	10,000	126.00/M	LQW15AN10NJ00D
12	±5%	100	500	30	0.14 max.	5.5 min.	490-1147-1-ND	.43	.36	.29	10,000	126.00/M	LQW15AN12NJ00D
15	±5%	100	460	30	0.16 max.	5 min.	490-1148-1-ND	.43	.36	.29	10,000	126.00/M	LQW15AN15NJ00D
18	±5%	100	370	25	0.27 max.	4.5 min.	490-1149-1-ND	.43	.36	.29	10,000	126.00/M	LQW15AN18NJ00D
22	±5%	100	310	25	0.30 max.	4 min.	490-1150-1-ND	.43	.36	.29	10,000	126.00/M	LQW15AN22NJ00D
27	±5%	100	280	25	0.52 max.	3.5 min.	490-1151-1-ND	.43	.36	.29	10,000	126.00/M	LQW15AN27NJ00D
33	±5%	100	260	25	0.63 max.	3.2 min.	490-1152-1-ND	.43	.36	.29	10,000	126.00/M	LQW15AN33NJ00D
39	±5%	100	250	25	0.70 max.	3 min.	490-1153-1-ND	.43	.36	.29	10,000	126.00/M	LQW15AN39NJ00D
47	±5%	100	210	25	1.08 max.	2.9 min.	490-1154-1-ND	.43	.36	.29	10,000	126.00/M	LQW15AN47NJ00D
56	±5%	100	200	25	1.17 max.	2.8 min.	490-1155-1-ND	.43	.36	.29	10,000	126.00/M	LQW15AN56NJ00D
68	±5%	100	140	20	1.96 max.	2.5 min.	490-1156-1-ND	.44	.37	.30	10,000	129.15/M	LQW15AN68NJ00D
82	±5%	100	130	20	2.24 max.	2.3 min.	490-1157-1-ND	.44	.37	.30	10,000	129.15/M	LQW15AN82NJ00D

nduct-ce (nH)	Toler-ance	Test Freq. (MHz)	Rated Current (mA)	Q (Min.)	DCR (ohm)	SRF (MHz)	Digi-Key Part No.	Price Each 1	10	100	Tape and Reel* Size	Pricing	Murata Part No.
LQW18A Series — Pkg 0603													
2.2	±0.5nH	100	700	16	0.049 max.	6,000 min.	490-1158-1-ND	.39	.33	.27	4,000	115.15/M	LQW18AN2N2D00D
3.6	±0.5nH	100	850	25	0.059 max.	6,000 min.	490-1159-1-ND	.39	.33	.27	4,000	115.15/M	LQW18AN3N6D00D
3.9	±0.5nH	100	850	35	0.059 max.	6,000 min.	490-1160-1-ND	.39	.33	.27	4,000	115.15/M	LQW18AN3N9D00D
4.3	±0.5nH	100	850	35	0.059 max.	6,000 min.	490-1161-1-ND	.39	.33	.27	4,000	115.15/M	LQW18AN4N3D00D
4.7	±0.5nH	100	850	35	0.059 max.	6,000 min.	490-1162-1-ND	.39	.33	.27	4,000	115.15/M	LQW18AN4N7D00D
5.6	±0.5nH	100	750	35	0.082 max.	6,000 min.	490-1164-1-ND	.39	.33	.27	4,000	115.15/M	LQW18AN5N6D00D
6.2	±0.5nH	100	750	35	0.082 max.	6,000 min.	490-1163-1-ND	.39	.33	.27	4,000	115.15/M	LQW18AN6N2D00D
6.8	+0.5nH	100	750	35	0.082 max.	6,000 min.	490-1165-1-ND	.39	.33	.27	4,000	115.15/M	LQW18AN6N8D00D
7.5	±0.5nH	100	750	35	0.082 max.	6,000 min.	490-1166-1-ND	.39	.33	.27	4,000	115.15/M	LQW18AN7N5D00D
8.2	±0.5nH	100	650	35	0.11 max.	6,000 min.	490-1167-1-ND	.39	.33	.27	4,000	115.15/M	LQW18AN8N2D00D
8.7	±0.5nH	100	650	35	0.11 max.	6,000 min.	490-1168-1-ND	.39	.33	.27	4,000	115.15/M	LQW18AN8N7D00D
10	±5%	100	650	35	0.11 max.	6,000 min.	490-1169-1-ND	.39	.33	.27	4,000	115.15/M	LQW18AN10NJ00D
12	±5%	100	600	35	0.13 max.	6,000 min.	490-1170-1-ND	.39	.33	.27	4,000	115.15/M	LQW18AN12NJ00D
15	±5%	100	600	40	0.13 max.	6,000 min.	490-1171-1-ND	.39	.33	.27	4,000	115.15/M	LQW18AN15NJ00D
18	±5%	100	550	40	0.16 max.	5,500 min.	490-1172-1-ND	.39	.33	.27	4,000	115.15/M	LQW18AN18NJ00D
22	±5%	100	500	40	0.17 max.	4,600 min.	490-1173-1-ND	.39	.33	.27	4,000	115.15/M	LQW18AN22NJ00D
27	±5%	100	440	40	0.21 max.	3,700 min.	490-1174-1-ND	.39	.33	.27	4,000	115.15/M	LQW18AN27NJ00D
33	±5%	100	420	40	0.23 max.	3,200 min.	490-1175-1-ND	.39	.33	.27	4,000	115.15/M	LQW18AN33NJ00D
39	±5%	100	400	40	0.26 max.	2,800 min.	490-1176-1-ND	.39	.33	.27	4,000	115.15/M	LQW18AN39NJ00D
56	±5%	100	360	38	0.35 max.	2,400 min.	490-1177-1-ND	.39	.33	.27	4,000	115.15/M	LQW18AN56NJ00D
68	±5%	100	340	38	0.38 max.	2,200 min.	490-1178-1-ND	.39	.33	.27	4,000	115.15/M	LQW18AN68NJ00D
100	±5%	100	220	34	0.68 max.	1,800 min.	490-1179-1-ND	.39	.33	.27	4,000	115.15/M	LQW18ANR10J00D
120	±5%	100	180	32	1.3 max.	1,600 min.	490-1180-1-ND	.39	.33	.27	4,000	115.15/M	LQW18ANR12J00D
270	±5%	100	110	30	3.4 max.	960 min.	490-1181-1-ND	.43	.36	.29	4,000	126.00/M	LQW18ANR27J00D
330	±5%	100	85	30	5.5 max.	800 min.	490-1182-1-ND	.43	.36	.29	4,000	126.00/M	LQW18ANR33J00D
390	±5%	100	80	30	6.2 max.	800 min.	490-1183-1-ND	.43	.36	.29	4,000	126.00/M	LQW18ANR39J00D
470	±5%	100	75	30	7.0 max.	700 min.	490-1184-1-ND	.43	.36	.29	4,000	126.00/M	LQW18ANR47J00D

nduct-ce (µH)	Toler-ance	Test Freq. (MHz)	Rated Current (mA)	Q (Min.)	DCR (ohm)	SRF (MHz)	Digi-Key Part No.	Price Each 1	10	100	Tape and Reel* Size	Pricing	Murata Part No.
LQH43C Series													
1.0	±20%	1	1080	—	0.08 max.	100	490-2514-1-ND	.64	.54	.43	500	93.10	LQH43CN1R0M03L
2.2	±20%	1	900	—	0.11 max.	60	490-2515-1-ND	.64	.54	.43	500	93.10	LQH43CN2R2M03L
3.3	±20%	1	800	—	0.13 max.	47	490-2516-1-ND	.64	.54	.43	500	93.10	LQH43CN3R3M03L
4.7	±20%	1	750	—	0.15 max.	35	490-2517-1-ND	.64	.54	.43	500	93.10	LQH43CN4R7M03L
6.8	±20%	1	720	—	0.20 max.	30	490-2518-1-ND	.64	.54	.43	500	93.10	LQH43CN6R8M03L
10	±10%	1	650	—	0.24 max.	23	490-2519-1-ND	.64	.54	.43	500	93.10	LQH43CN100K03L
33	±10%	1	310	—	1.0 max.	12	490-2520-1-ND	.64	.54	.43	500	93.10	LQH43CN330K03L
47	±10%	1	280	—	1.1 max.	10	490-2521-1-ND	.64	.54	.43	500	93.10	LQH43CN470K03L
68	±10%	1	220	—	1.7 max.	8.4	490-2522-1-ND	.64	.54	.43	500	93.10	LQH43CN680K03L
330	±10%	1	100	—	6.8 max.	3.6	490-2523-1-ND	.67	.56	.45	500	97.65	LQH43CN331K03L
470	±10%	1	90	—	8.5 max.	3.0	490-2524-1-ND	.67	.56	.45	500	97.65	LQH43CN471K03L
LQH43M Series													
3.9	±20%	1	500	20	0.38 max.	41	490-2525-1-ND	.79	.66	.53	500	114.89	LQH43MN3R9M03L
5.6	±10%	1	500	30	0.47 max.	33	490-2526-1-ND	.79	.66	.53	500	114.89	LQH43MN5R6K03L
27	±10%	1	300	35	1.1 max.	14	490-2527-1-ND	.63	.53	.43	500	92.58	LQH43MN270K03L
82	±10%	1	170	35	2.2 max.	7.5	490-2528-1-ND	.63	.53	.43	500	92.58	LQH43MN820K03L
150	±10%	1	130	40	3.7 max.	5.5	490-2529-1-ND	.63	.53	.43	500	92.58	LQH43MN151K03L

est Freq. is KHz * For Tape and Reel Part No. Change -1-ND to -2-ND

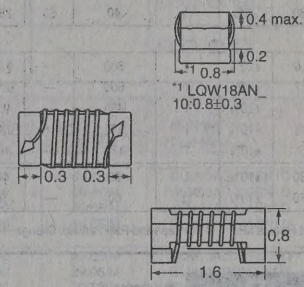
LQW15A Series



*W: 0.6±0.1 (1.5-22nH),
0.5±0.1 (27-56nH)

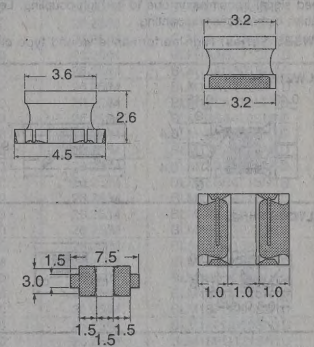
Consists of air core chip coil using a miniature alumina core. Has high Q value and high self resonant frequency in high frequency range. Suitable for high frequency circuits which are used in telecommunication equipment.

LQW18A Series



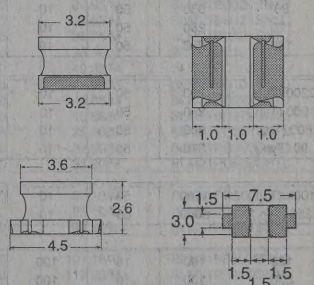
Horizontal winding structure enables tight inductance. High self resonant frequency realizes high-Q value and stable inductance at high frequency. Low DC resistance design is ideal for low loss, high output and low power consumption.

LQH43C Series



Consists of miniature chip inductors with low DC resistance, high current capacity, and high impedance characteristics. It is suitable for use as choke coil in DC power supply circuits.

LQH43M Series



Consists of winding type chip coils for general use by Murata's original auto winding technology and ferrite core. High Q value at high frequency and low DC resistance.

(Continued)

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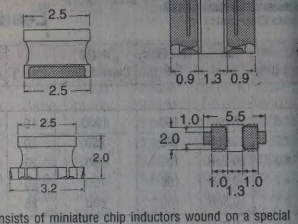
Chip Coils Wound Type SMD (Cont.)

Lead Free/RoHS Compliant

Induct-ance (pH)	Toler-ance	Test Freq. (MHz)	Rated Current (mA)	Q (Min.)	DCR (ohm)	SRF (MHz)	Digi-Key Part No.	Price Each 1	10	100	Tape and Reel* Size	Pricing	Murata Part No.
LQH32M Series													
1.0	±20%	1	445	20	0.5 max.	100	490-2500-1-ND	.39	.33	.26	2,000	113.05/M	LQH32MN1R0M23L
2.2	±10%	1	370	20	0.8 max.	50	490-2501-1-ND	.39	.33	.26	2,000	113.05/M	LQH32MN2R2K23L
4.7	±10%	1	270	20	1.2 max.	31	490-2502-1-ND	.39	.33	.26	2,000	113.05/M	LQH32MN4R7K23L
6.8	±10%	1	240	20	1.5 max.	25	490-2503-1-ND	.39	.33	.26	2,000	113.05/M	LQH32MN6R8K23L
8.2	±10%	1	225	20	1.6 max.	23	490-2504-1-ND	.39	.33	.26	2,000	113.05/M	LQH32MN8R2K23L
10	±5%	1	190	35	1.8 max.	20	490-2505-1-ND	.39	.33	.26	2,000	113.05/M	LQH32MN100J23L
22	±5%	1	150	35	2.8 max.	14	490-2506-1-ND	.39	.33	.26	2,000	113.05/M	LQH32MN220J23L
33	±5%	1	115	40	3.5 max.	12	490-2507-1-ND	.39	.33	.26	2,000	113.05/M	LQH32MN330J23L
47	±5%	1	100	40	4.3 max.	11	490-2508-1-ND	.39	.33	.26	2,000	113.05/M	LQH32MN470J23L
150	±5%	1	70	40	9.3 max.	7	490-2509-1-ND	.39	.33	.26	2,000	113.05/M	LQH32MN151J23L
270	±5%	1	65	40	12.5 max.	5	490-2510-1-ND	.39	.33	.26	2,000	113.05/M	LQH32MN271J23L
330	±5%	1	65	40	13.0 max.	5	490-2511-1-ND	.39	.33	.26	2,000	113.05/M	LQH32MN331J23L
390	±5%	1	50	50	22.0 max.	5	490-2512-1-ND	.39	.33	.26	2,000	113.05/M	LQH32MN391J23L
560	±5%	1‡	40	50	28.0 max.	5	490-2513-1-ND	.39	.33	.26	2,000	113.05/M	LQH32MN561J23L
LQH32C Series													
1.0	±20%	1	800	—	0.06±30%	96	490-2493-1-ND	.39	.33	.26	2,000	113.05/M	LQH32CN1R0M23L
2.2	±20%	1	600	—	0.13±30%	64	490-2494-1-ND	.39	.33	.26	2,000	113.05/M	LQH32CN2R2M23L
4.7	±20%	1	450	—	0.2±30%	43	490-2495-1-ND	.39	.33	.26	2,000	113.05/M	LQH32CN4R7M23L
10	±10%	1	300	—	0.44±30%	26	490-2496-1-ND	.39	.33	.26	2,000	113.05/M	LQH32CN100K23L
47	±10%	1	170	—	1.3±30%	15	490-2497-1-ND	.39	.33	.26	2,000	113.05/M	LQH32CN470K23L
330	±10%	1	60	—	10±30%	5.6	490-2498-1-ND	.39	.33	.26	2,000	113.05/M	LQH32CN331K23L
470	±10%	1‡	60	—	19±30%	5	490-2499-1-ND	.39	.33	.26	2,000	113.05/M	LQH32CN471K23L

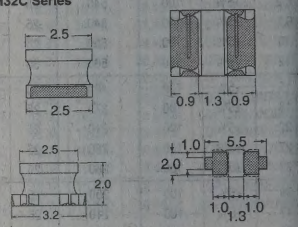
‡ Test Freq. is KHz * For Tape and Reel Part No. Change -1-ND to -2-ND

LQH32M Series



Consists of miniature chip inductors wound on a special ferrite core. High Q value at high frequency and low DC resistance.

LQH32C Series



Consists of miniature chip coils with low DC resistance, high current capacity, and high impedance characteristics. Features are possible by the development of Murata's automatic winding techniques. Excellent for use as power supply line choke coils.

D

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Common Mode Choke Coils Wound Type, Film Type and Film Type Arrays

DLW21H Series: Excellent noise suppression for limited board space applications. Suitable for differential signal line like USB2.0, IEEE1394 and LVDS. DLW21H does not provide distortion to high speed signal transmission due to its high coupling. (USB2.0:DLW21HN900SQ2). These parts are lead free.

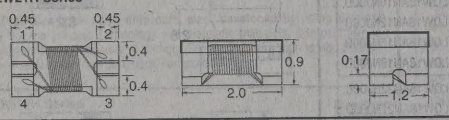
DLW31S Series: High common mode impedance at high frequency provides excellent noise suppression performance. DLW31S series enables noise suppression for differential signal line without distortion in high speed signal transmission due to its high coupling. Lead is not contained in the product. Small dimension enables higher density mounting.

DLW5BS Series: High performance wound type chip common mode choke coil. Its high impedance characteristic enables great noise suppression, but it does not damage high speed signal due to low nom mode impedance.

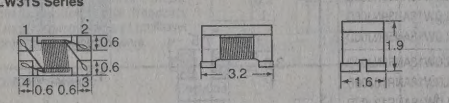
DLP31S Series: Has excellent performance at high frequency range. Suitable for differential signal line USB, because DLP31S does not provide distortion to high speed signal transmission due to its high coupl (coupling coefficient: 0.98 min.)

DLP31D Series: Utilizing ferrite materials and thin film technology, this common mode choke coil array high impedance characteristics all packaged in a small case size. 2 components are included in 3.2 x 1.6m DLP31D can suppress common mode noise without damage to signal wave.

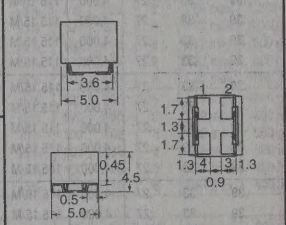
DLW21H Series



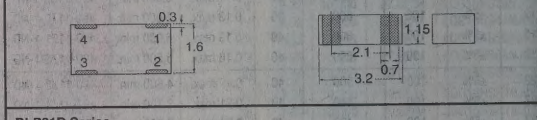
DLW31S Series



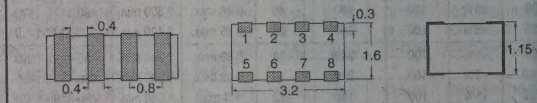
DLW5BS Series



DLP31S Series



DLP31D Series



Common Mode Impedance (at 100MHz) (ohm)	Rated Current (mA)	Rated Voltage (Vdc)	Insulation Resistance (min.) (M ohm)	With-standing Voltage (Vdc)	DC Resis-tance (ohm)	Digi-Key Part No.	Price Each 10	50	100	Digi-Key Part No.	Tape and Reel Size	Pricing	Murata Part No.
DLW21H Series — Wound Type													
67	330	50	10	125	0.35 max.	490-1063-1-ND	.60	.52	.48	490-1063-2-ND	3,000	276.50/M	DLW21HN670SQ2
90	330	50	10	125	0.35 max.	490-1064-1-ND	.60	.52	.48	490-1064-2-ND	3,000	276.50/M	DLW21HN900SQ2
120	280	50	10	125	0.45 max.	490-1065-1-ND	.60	.52	.48	490-1065-2-ND	3,000	276.50/M	DLW21HN121SQ2
180	250	50	10	125	0.50 max.	490-1066-1-ND	.60	.52	.48	490-1066-2-ND	3,000	276.50/M	DLW21HN181SQ2
DLW31S Series — Wound Type													
2200 (Typ.)	200	50	10	125	1.2	490-1070-1-ND	1.07	.93	.86	490-1070-2-ND	2,000	498.75/M	DLW31SN222SQ2
1000 (Typ.)	230	50	10	125	1.0	490-1069-1-ND	1.07	.93	.86	490-1069-2-ND	2,000	498.75/M	DLW31SN102SQ2
600 (Typ.)	260	50	10	125	0.8	490-1068-1-ND	1.07	.93	.86	490-1068-2-ND	2,000	498.75/M	DLW31SN601SQ2
90 (Typ.)	370	50	10	125	0.3	490-1067-1-ND	1.07	.93	.86	490-1067-2-ND	2,000	498.75/M	DLW31SN900SQ2
DLW5BS Series — Wound Type													
1000 (Typ.)	1500	50	10	125	0.06	490-1072-1-ND	1.67	1.44	1.33	490-1072-2-ND	400	310.10	DLW5BSN102SQ2
350 (Typ.)	2000	50	10	125	0.04	490-1071-1-ND	1.67	1.44	1.33	490-1071-2-ND	400	310.10	DLW5BSN351SQ2
DLP31S Series — Film Type													
120	100	16	100	40	2.0 max.	490-2479-1-ND	1.46	1.26	1.17	490-2479-2-ND	3,000	677.25/M	DLP31SN121SL2L
550	100	16	100	40	3.6 max.	490-2480-1-ND	1.46	1.26	1.17	490-2480-2-ND	3,000	677.25/M	DLP31SN551SL2L
DLP31D Series — Film Type Arrays													
90	160	10	100	25	1.1 max.	490-2474-1-ND	1.46	1.27	1.17	490-2474-2-ND	3,000	678.83/M	DLP31DN900ML4
130	120	10	100	25	1.6 max.	490-2475-1-ND	1.46	1.27	1.17	490-2475-2-ND	3,000	678.83/M	DLP31DN131ML4
200	100	10	100	25	2.2 max.	490-2476-1-ND	1.46	1.27	1.17	490-2476-2-ND	3,000	678.83/M	DLP31DN201ML4
320	80	10	100	25	3.5 max.	490-2477-1-ND	1.46	1.27	1.17	490-2477-2-ND	3,000	678.83/M	DLP31DN321ML4
440	70	10	100	25	4.3 max.	490-2478-1-ND	1.46	1.27	1.17	490-2478-2-ND	3,000	678.83/M	DLP31DN441ML4

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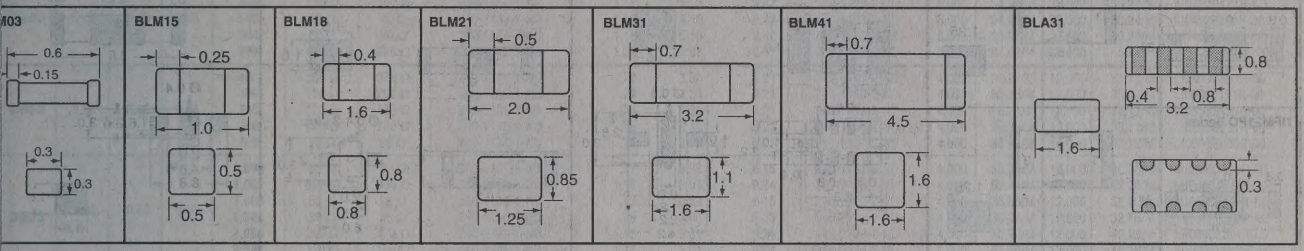
EMI Suppression Ferrite Chips and Arrays

15 Series: The BLM series comprises the A series for standard, and the B series for high speed signal. are lead free. The BLM-A series generates an impedance from the relatively low frequencies. The BLM- ies is effective in noise suppression in the wide frequency range (30MHz – several hundred MHz). The B series can minimize attenuation of the signal waveform due to its sharp impedance characteristics. ous impedances are available to match signal frequency. The BLM-B series has sharp impedance acteristics.

18 Series: The chip ferrite bead BLM18H series comprises ferrite bead inductors in the shape of a chip. inductor generates a high impedance which at high frequencies mainly consists of a resistance element. BLM18H series is effective in circuits without stable ground lines because the BLM18H series does not need a connection to ground. The BLM18HG, BLM18HD series has a modified internal electrode structure, that minimizes stray capacitance and increases the effective frequency range. The BLM_H series can provide higher levels of impedance well into the GHz range. The BLM18HG is intended for standard signal lines as this series provides significant impedance across a broad frequency range. The BLM18HD provides a sharper roll-off after the cut off frequency. This series is ideal for high speed signal lines.

BLM31 and BLM41 Series: Series can be used in high current circuits due to its low DC resistance. It can match power lines to a maxium of 6A DC (BLM41P).

BLA31 Series: The BLA31A/B is capable of filtering 4 circuits in a 3216 package size. BLA31A/B is suitable for EMI suppression in smaller digital equipment.



Impedance at 100MHz) (ohm)	Rated Current (mA)	DC Resistance (max.) (ohm)	Digi-Key Part No.	Pricing 10	50	100	Digi-Key Part No.	Tape & Reel Size	Pricing	MuRata Part No.
BLM03 Series — 0201 Case Size										
10 (Typ.)	500	0.1	490-2555-1-ND	1.49	6.47	11.94	490-2555-2-ND	15,000	69.65/M	BLM03AG100SN1D
70 (Typ.)	200	0.5	490-2556-1-ND	1.49	6.47	11.94	490-2556-2-ND	15,000	69.65/M	BLM03AG700SN1D
120 ± 25%	200	0.8	490-2557-1-ND	1.49	6.47	11.94	490-2557-2-ND	15,000	69.65/M	BLM03AG121SN1D
240 ± 25%	100	1.0	490-2558-1-ND	1.49	6.47	11.94	490-2558-2-ND	15,000	69.65/M	BLM03AG241SN1D
BLM15 Series — 0402 Case Size										
120 ± 25%	500	0.25	490-1005-1-ND	.62	2.70	4.98	490-1005-2-ND	10,000	29.05/M	BLM15AG121SN1D
120 ± 25%	300	0.55	490-1008-1-ND	.62	2.70	4.98	490-1008-2-ND	10,000	29.05/M	BLM15BB121SN1D
600 ± 25%	300	0.60	490-1006-1-ND	.66	2.84	5.25	490-1006-2-ND	10,000	30.63/M	BLM15AG601SN1D
000 ± 25%	200	1.00	490-1007-1-ND	.66	2.84	5.25	490-1007-2-ND	10,000	30.63/M	BLM15AG102SN1D
600 ± 25%	200	0.65	490-1009-1-ND	.69	2.97	5.49	490-1009-2-ND	10,000	32.03/M	BLM15BD601SN1D
000 ± 25%	200	0.90	490-1010-1-ND	.69	2.97	5.49	490-1010-2-ND	10,000	32.03/M	BLM15BD102SN1D
BLM18 Series — 0603 Case Size										
470±25%	100	1.20	490-1029-1-ND	1.20	5.20	9.60	490-1029-2-ND	4,000	56.00/M	BLM18HD471SN1D
600±25%	100	1.50	490-1030-1-ND	1.20	5.20	9.60	490-1030-2-ND	4,000	56.00/M	BLM18HD601SN1D
1000±25%	50	1.80	490-1031-1-ND	1.20	5.20	9.60	490-1031-2-ND	4,000	56.00/M	BLM18HD102SN1D
470±25%	200	0.85	490-1032-1-ND	1.20	5.20	9.60	490-1032-2-ND	4,000	56.00/M	BLM18HG471SN1D
600±25%	200	1.00	490-1033-1-ND	1.20	5.20	9.60	490-1033-2-ND	4,000	56.00/M	BLM18HG601SN1D
1000±25%	100	1.60	490-1034-1-ND	1.20	5.20	9.60	490-1034-2-ND	4,000	56.00/M	BLM18HG102SN1D
120±25%	200	0.20	490-1011-1-ND	.56	2.44	4.50	490-1011-2-ND	4,000	26.25/M	BLM18AG121SN1D
220±25%	200	0.30	490-1012-1-ND	.56	2.44	4.50	490-1012-2-ND	4,000	26.25/M	BLM18AG221SN1D
470±25%	200	0.50	490-1013-1-ND	.56	2.44	4.50	490-1013-2-ND	4,000	26.25/M	BLM18AG471SN1D
600±25%	200	0.50	490-1014-1-ND	.56	2.44	4.50	490-1014-2-ND	4,000	26.25/M	BLM18AG601SN1D
1000±25%	100	0.70	490-1015-1-ND	.56	2.44	4.50	490-1015-2-ND	4,000	26.25/M	BLM18AG102SN1D
22±25%	500	0.35	490-1016-1-ND	.56	2.44	4.50	490-1016-2-ND	4,000	26.25/M	BLM18BA220SN1D
47±25%	300	0.55	490-1017-1-ND	.56	2.44	4.50	490-1017-2-ND	4,000	26.25/M	BLM18BA470SN1D
75±25%	300	0.70	490-1018-1-ND	.56	2.44	4.50	490-1018-2-ND	4,000	26.25/M	BLM18BA750SN1D
120±25%	200	0.90	490-1019-1-ND	.56	2.44	4.50	490-1019-2-ND	4,000	26.25/M	BLM18BA121SN1D
120±25%	200	0.50	490-1020-1-ND	.56	2.44	4.50	490-1020-2-ND	4,000	26.25/M	BLM18BB121SN1D
470±25%	50	1.00	490-1021-1-ND	.56	2.44	4.50	490-1021-2-ND	4,000	26.25/M	BLM18BB471SN1D
470±25%	200	0.55	490-1022-1-ND	.56	2.44	4.50	490-1022-2-ND	4,000	26.25/M	BLM18BD471SN1D
600±25%	200	0.65	490-1023-1-ND	.56	2.44	4.50	490-1023-2-ND	4,000	26.25/M	BLM18BD601SN1D
1000±25%	100	0.85	490-1024-1-ND	.56	2.44	4.50	490-1024-2-ND	4,000	26.25/M	BLM18BD102SN1D
1500±25%	50	1.20	490-1025-1-ND	.56	2.44	4.50	490-1025-2-ND	4,000	26.25/M	BLM18BD152SN1D
1800±25%	50	1.50	490-1026-1-ND	.56	2.44	4.50	490-1026-2-ND	4,000	26.25/M	BLM18BD182SN1D
2200±25%	50	1.50	490-1027-1-ND	.56	2.44	4.50	490-1027-2-ND	4,000	26.25/M	BLM18BD222SN1D
2500±25%	50	1.50	490-1028-1-ND	.56	2.44	4.50	490-1028-2-ND	4,000	26.25/M	BLM18BD252SN1D
30 (Typ.)	1000	0.05	490-1035-1-ND	.56	2.44	4.50	490-1035-2-ND	4,000	26.25/M	BLM18PG300SN1D
60 (Typ.)	500	0.10	490-1036-1-ND	.56	2.44	4.50	490-1036-2-ND	4,000	26.25/M	BLM18PG600SN1D
120±25%	2000	0.05	490-1037-1-ND	.56	2.44	4.50	490-1037-2-ND	4,000	26.25/M	BLM18PG121SN1D
BLM21 Series — 0805 Case Size										
1000±25%	200	0.45	490-1041-1-ND	.83	3.58	6.60	490-1041-2-ND	4,000	38.50/M	BLM21AG102SN1D
120±25%	200	0.15	490-1038-1-ND	.74	3.22	5.94	490-1038-2-ND	4,000	34.65/M	BLM21AG121SN1D
470±25%	200	0.25	490-1039-1-ND	.74	3.22	5.94	490-1039-2-ND	4,000	34.65/M	BLM21AG471SN1D
600±25%	200	0.30	490-1040-1-ND	.74	3.22	5.94	490-1040-2-ND	4,000	34.65/M	BLM21AG601SN1D
120±25%	200	0.25	490-1042-1-ND	.74	3.22	5.94	490-1042-2-ND	4,000	34.65/M	BLM21BB121SN1D
470±25%	200	0.45	490-1043-1-ND	.74	3.22	5.94	490-1043-2-ND	4,000	34.65/M	BLM21BB471SN1D
120±25%	200	0.25	490-1044-1-ND	.74	3.22	5.94	490-1044-2-ND	4,000	34.65/M	BLM21BD121SN1D
470±25%	200	0.35	490-1045-1-ND	.74	3.22	5.94	490-1045-2-ND	4,000	34.65/M	BLM21BD471SN1D
600±25%	200	0.35	490-1046-1-ND	.79	3.41	6.30	490-1046-2-ND	4,000	36.75/M	BLM21BD601SN1D
1000±25%	200	0.40	490-1047-1-ND	.83	3.58	6.60	490-1047-2-ND	4,000	38.50/M	BLM21BD102SN1D
1500±25%	200	0.45	490-1048-1-ND	1.07	4.63	8.55	490-1048-2-ND	4,000	49.88/M	BLM21BD152SN1D
1800±25%	200	0.50	490-1049-1-ND	1.07	4.63	8.55	490-1049-2-ND	4,000	49.88/M	BLM21BD182SN1D
2200±25%	200	0.60	490-1050-1-ND	1.07	4.63	8.55	490-1050-2-ND	4,000	49.88/M	BLM21BD222TN1D
2700±25%	200	0.80	490-1051-1-ND	1.07	4.63	8.55	490-1051-2-ND	3,000	49.88/M	BLM21BD272SN1L
220 (Typ.)	2000	0.050	490-1054-1-ND	.56	2.41	4.44	490-1054-2-ND	4,000	25.90/M	BLM21PG221SN1D
30 (Typ.)	3000	0.015	490-1052-1-ND	.71	3.06	5.64	490-1052-2-ND	4,000	32.90/M	BLM21PG300SN1D
60 (Typ.)	3000	0.025	490-1053-1-ND	.71	3.06	5.64	490-1053-2-ND	4,000	32.90/M	BLM21PG600SN1D
BLM31 Series — 1206 Case Size										
50 (Typ.)	3000	0.025	490-1055-1-ND	2.00	8.65	15.96	490-1055-2-ND	3,000	93.10/M	BLM31PG500SN1L
120 (Typ.)	3000	0.025	490-1056-1-ND	2.00	8.65	15.96	490-1056-2-ND	3,000	93.10/M	BLM31PG121SN1L
600 (Typ.)	1500	0.09	490-1057-1-ND	2.00	8.65	15.96	490-1057-2-ND	3,000	93.10/M	BLM31PG601SN1L
BLM41 Series — 1806 Case Size										
80 (Typ.)	1000	0.10	490-1059-1-ND	2.17	9.39	17.34	490-1059-2-ND	2,500	101.16/M	BLM41PF800SN1L
60 (Typ.)	6000	0.01	490-1058-1-ND	2.53	10.95	20.22	490-1058-2-ND	2,500	117.96/M	BLM41PG600SN1L
470 (Typ.)	2000	0.05	490-1060-1-ND	2.33	10.09	18.63	490-1060-2-ND	2,500	108.68/M	BLM41PG471SN1L
000 (Typ.)	1500	0.09	490-1061-1-ND	2.57	11.12	20.52	490-1061-2-ND	2,500	119.70/M	BLM41PG102SN1L
BLA31 Series — SMD Array										
120±25%	150	0.20	490-1000-1-ND	4.50	19.50	36.00	490-1000-2-ND	4,000	210.00/M	BLA31AG121SN4D
600±25%	100	0.45	490-1001-1-ND	4.50	19.50	36.00	490-1001-2-ND	4,000	210.00/M	BLA31AG601SN4D
1000±25%	50	0.45	490-1002-1-ND	4.50	19.50	36.00	490-1002-2-ND	4,000	210.00/M	BLA31AG102SN4D
120±25%	150	0.30	490-1003-1-ND	4.50	19.50	36.00	490-1003-2-ND	4,000	210.00/M	BLA31BD121SN4D
600±25%	100	0.35	490-1004-1-ND	4.50	19.50	36.00	490-1004-2-ND	4,000	210.00/M	BLA31BD601SN4D

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Murata Electronics

Chip EMI Filters Capacitor Type

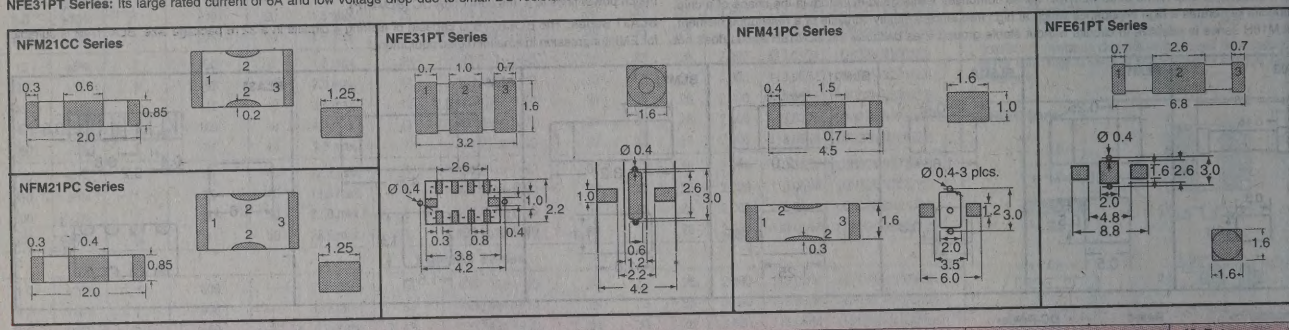
NFM21CC Series: The chip EMIFIL NFM21C series is a chip type 3-terminal EMI suppression filter. It can reduce residual inductance to an extremely low level making it excellent for noise suppression at high frequencies.

NFM21PC Series: NFM21P is a 3-terminal structure component. This product can be applied to large current DC power lines. NFM21P is suitable for noise suppression of DC power lines where relatively large current operates.

NFE31PT Series: Its large rated current of 6A and low voltage drop due to small DC resistance are suitable for DC power line use. The feedthrough capacitor realizes excellent high frequency characteristics.

NFM41PC Series: The chip EMIFIL NFM41P series consists of 3-terminal structure. These components are able to be applied to large current DC power lines. NFM41P series are suitable in noise suppression lines where relatively large currents operate.

NFE61PT Series: Its large rated current of 2A and low voltage drop due to small DC resistance are suitable for DC power line use. The feedthrough capacitor realizes excellent high frequency characteristics.



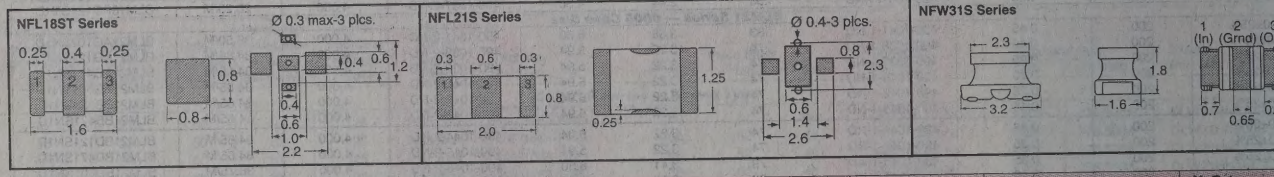
Cap. (pF)	Rated Volt. (Vdc)	Rated Current (mA)	Digi-Key Part No.	Pricing 1	10	50	100	Digi-Key Part No.	Tape & Reel Size	Tape & Reel Pricing	MuRata Part No.
NFM21CC Series — 0805 Case Size											
22	50	700	490-2532-1-ND	.24	2.04	9.42	15.70	490-2532-2-ND	4,000	109.90/M	NFM21CC220U1
47	50	700	490-2533-1-ND	.24	2.04	9.42	15.70	490-2533-2-ND	4,000	109.90/M	NFM21CC470U1
100	50	700	490-2534-1-ND	.24	2.04	9.42	15.70	490-2534-2-ND	4,000	109.90/M	NFM21CC101U1
2200	50	1000	490-2535-1-ND	.24	2.04	9.42	15.70	490-2535-2-ND	4,000	109.90/M	NFM21CC222R1
NFM21PC Series — 0805 Case Size											
100	25	2	490-2536-1-ND	.18	1.57	7.25	12.08	490-2536-2-ND	4,000	84.53/M	NFM21PC104R1
470	16	2	490-2537-1-ND	.23	2.00	9.23	15.38	490-2537-2-ND	4,000	107.63/M	NFM21PC474R1
1000	16	2	490-2538-1-ND	.19	1.66	7.65	12.75	490-2538-2-ND	4,000	89.25/M	NFM21PC105F1
NFE31PT Series — 1206 Case Size											
22	25	6	490-2544-1-ND	.54	4.66	21.53	35.88	490-2544-2-ND	2,000	251.13/M	NFE31PT220R1
100	25	6	490-2545-1-ND	.54	4.66	21.53	35.88	490-2545-2-ND	2,000	251.13/M	NFE31PT101C1
470	25	6	490-2546-1-ND	.54	4.66	21.53	35.88	490-2546-2-ND	2,000	251.13/M	NFE31PT471F1
2200	25	6	490-2547-1-ND	.54	4.66	21.53	35.88	490-2547-2-ND	2,000	251.13/M	NFE31PT222Z1
NFM41PC Series — 1806 Case Size											
200	50	2	490-2550-1-ND	.84	7.25	33.45	55.75	490-2550-2-ND	4,000	390.25/M	NFM41PC204F1
NFE61PT Series — 2606 Case Size											
33	50	2	490-2551-1-ND	.70	6.08	28.07	46.78	490-2551-2-ND	2,500	327.43/M	NFE61PT330B1
680	50	2	490-2552-1-ND	.70	6.08	28.07	46.78	490-2552-2-ND	2,500	327.43/M	NFE61PT681B1
1000	50	2	490-2553-1-ND	.70	6.08	28.07	46.78	490-2553-2-ND	2,500	327.43/M	NFE61PT102E1
4700	50	2	490-2554-1-ND	.85	7.39	34.13	56.88	490-2554-2-ND	2,500	398.13/M	NFE61PT472C1

LC Combined Chip EMIFIL

NFL18ST Series: The NFL18ST series is an EMI suppression filter for high seed signal lines, achieving T-type structure in 1.6 x 0.8mm size with Murata's multilayer technology. Noise suppression for video signal lines (RGB lines) and high speed clock lines.

NFL21S Series: Murata's original internal structure design enables excellent noise suppression up to high frequencies. Available in five different values of cut off frequency ranging from 20MHz up to 500MHz.

NFW31S Series: The signal line chip EMI filter NFW31S series consists of high performance suppression filters LC combined wound type. They are designed for noise suppression in high speed digital circuits in which the signal harmonics are prone to becoming noise sources. These filters achieve 100dB/dec. (typ.) damping characteristic with Murata's innovative circuit design. This makes these effective in applications where the signal and noise frequencies are close to each other.



Cut-off Freq. (MHz)	Cap. (pF)	Inductance (nH)	Rated Volt. (Vdc)	Rated Current (mA)	Digi-Key Part No.	Pricing 1	10	50	100	Digi-Key Part No.	Tape & Reel Size	Tape & Reel Pricing	MuRata Part No.
NFL18ST Series													
150	32	140	16	100	490-2531-1-ND	.50	4.37	20.19	33.65	490-2531-2-ND	4,000	235.55/M	NFL18ST157
300	18	62	16	200	490-2530-1-ND	.50	4.37	20.19	33.65	490-2530-2-ND	4,000	235.55/M	NFL18ST307
NFL21S Series													
20	240	700	16	100	490-2543-1-ND	.40	3.43	15.84	26.40	490-2543-2-ND	4,000	184.80/M	NFL21SP206
50	84	305	16	150	490-2542-1-ND	.40	3.43	15.84	26.40	490-2542-2-ND	4,000	184.80/M	NFL21SP506
70	76	185	16	150	490-2541-1-ND	.37	3.22	14.88	24.80	490-2541-2-ND	4,000	173.60/M	NFL21SP706
100	44	135	16	200	490-2540-1-ND	.29	2.54	11.72	19.53	490-2540-2-ND	4,000	136.68/M	NFL21SP107
300	19	45	16	300	490-2539-1-ND	.28	2.40	11.07	18.45	490-2539-2-ND	4,000	129.15/M	NFL21SP307

Nominal Cut-off Freq. (MHz)	Attenuation at 10 MHz (dB)	Attenuation at 400 MHz (dB)	Digi-Key Part No.	Pricing 1	10	50	100	Digi-Key Part No.	Tape & Reel Size	Tape & Reel Pricing	MuRata Part No.
NFW31S Series											
10	6 max.	—	490-2548-1-ND	.74	6.37	29.42	49.03	490-2548-2-ND	2,000	343.18/M	NFW31SP106
400	—	6 max.	490-2549-1-ND	.74	6.37	29.42	49.03	490-2549-2-ND	2,000	343.18/M	NFW31SP407

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ations: • Filtering of power input pins of oscillators and logic devices using high speed clocks • Filtering frequency input/output signals entering/exiting shielded enclosures • High frequency filtering of m speed clocks and video signals • Chips up to 10 Amps continuous operation

Fig. 1

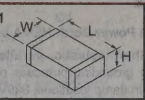
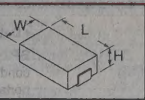


Fig. 2



Steward's Part Number Prefix Code

HR: High Retention under bias	**LI:** Low Current
HI: High Current	**DM:** Differential Mode and Ultra High Current
MI: Mid Current	**HZ:** High Impedance

Size Code	Dimensions - mm Length	Width	Height	Current Rating IMax (mA) Continuous	Typical Impedance @ 100 MHz	Typical Impedance @ 200 MHz	Digi-Key Part No.	Cut Tape Pricing 10	50	100	Digi-Key Part No.	Tape & Reel Size	Pricing	Size	Pricing	Steward Part No.
0402	1.01	0.50	0.50	200	300 Ω	460 Ω	240-1136-1-ND	1.18	5.10	9.42	240-1136-2-ND	8,000	54.95/M	32,000	50.24/M	LI0402B301R-00
				400	120 Ω	150 Ω	240-1135-1-ND	1.18	5.10	9.42	240-1135-2-ND	8,000	54.95/M	32,000	50.24/M	LI0402D121R-00
				500	30 Ω	40 Ω	240-1133-1-ND	1.18	5.10	9.42	240-1133-2-ND	8,000	54.95/M	32,000	50.24/M	LI0402E300R-00
				500	60 Ω	80 Ω	240-1134-1-ND	1.18	5.10	9.42	240-1134-2-ND	8,000	54.95/M	32,000	50.24/M	LI0402E600R-00
				100	600 Ω	925 Ω	240-1142-1-ND	1.31	5.67	10.47	240-1142-2-ND	8,000	61.08/M	32,000	55.84/M	HZ0402A601R-00
0603	1.60	0.80	0.80	400	300 Ω	375 Ω	240-1141-1-ND	.78	3.36	6.21	240-1141-2-ND	4,000	36.23/M	12,000	33.12/M	LI0603D301R-00
				500	150 Ω	200 Ω	240-1139-1-ND	.78	3.36	6.21	240-1139-2-ND	4,000	36.23/M	12,000	33.12/M	LI0603E151R-00
				700	120 Ω	160 Ω	240-1138-1-ND	.78	3.36	6.21	240-1138-2-ND	4,000	36.23/M	12,000	33.12/M	LI0603G121R-00
				700	220 Ω	280 Ω	240-1140-1-ND	.78	3.36	6.21	240-1140-2-ND	4,000	36.23/M	12,000	33.12/M	LI0603G221R-00
				700	80 Ω	90 Ω	240-1137-1-ND	.78	3.36	6.21	240-1137-2-ND	4,000	36.23/M	12,000	33.12/M	LI0603G800R-00
0603	1.60	0.80	0.80	1,000	60 Ω	80 Ω	240-1131-1-ND	.77	3.33	6.15	240-1131-2-ND	4,000	35.88/M	12,000	32.80/M	MI0603J600R-00
				1,000	600 Ω	600 Ω	240-2198-1-ND	1.16	5.01	9.24	240-2198-2-ND	4,000	53.90/M	12,000	49.28/M	MI0603J601R-00
				1,000	68 Ω	90 Ω	240-1132-1-ND	.77	3.33	6.15	240-1132-2-ND	4,000	35.88/M	12,000	32.80/M	MI0603J680R-00
				1,500	30 Ω	35 Ω	240-1130-1-ND	.79	3.43	6.33	240-1130-2-ND	4,000	36.93/M	12,000	33.76/M	MI0603K300R-00
				2,000	300 Ω	420 Ω	240-2239-1-ND	1.16	5.01	9.24	240-2239-2-ND	4,000	53.90/M	12,000	49.28/M	MI0603L301R-00
				2,500	120 Ω	155 Ω	240-2238-1-ND	1.16	5.01	9.24	240-2238-2-ND	4,000	53.90/M	12,000	49.28/M	MI0603M121R-00
0603	1.60	0.80	0.80	4,000	60 Ω	80 Ω	240-2193-1-ND	1.16	5.02	9.27	240-2193-2-ND	4,000	54.08/M	12,000	49.44/M	HI0603P600R-00
0603	1.60	0.80	0.80	100	2,200 Ω	1,100 Ω	240-2208-1-ND	.88	3.80	7.02	240-2208-2-ND	4,000	40.95/M	12,000	37.44/M	HZ0603A222R-00
				200	1,000 Ω	900 Ω	240-1145-1-ND	.88	3.80	7.02	240-1145-2-ND	4,000	40.95/M	12,000	37.44/M	HZ0603B102R-00
				200	1,100 Ω	1,450 Ω	240-2209-1-ND	.88	3.80	7.02	240-2209-2-ND	4,000	40.95/M	12,000	37.44/M	HZ0603B112R-00
				300	600 Ω	750 Ω	240-1143-1-ND	.88	3.80	7.02	240-1143-2-ND	4,000	40.95/M	12,000	37.44/M	HZ0603C601R-00
				300	650 Ω	825 Ω	240-2210-1-ND	.88	3.80	7.02	240-2210-2-ND	4,000	40.95/M	12,000	37.44/M	HZ0603C651R-00
0805	2.00	1.25	0.90	700	300 Ω	350 Ω	240-2218-1-ND	.80	3.48	6.42	240-2218-2-ND	4,000	37.45/M	12,000	34.24/M	LI0805G301R-00
				800	120 Ω	160 Ω	240-1041-1-ND	.80	3.48	6.42	240-1041-2-ND	4,000	37.45/M	12,000	34.24/M	LI0805H121R-00
				800	150 Ω	190 Ω	240-1021-1-ND	.80	3.48	6.42	240-1021-2-ND	4,000	37.45/M	12,000	34.24/M	LI0805H151R-00
				800	75 Ω	105 Ω	240-2219-1-ND	.80	3.48	6.42	240-2219-2-ND	4,000	37.45/M	12,000	34.24/M	LI0805H750R-00
0805	2.00	1.25	0.90	1,000	7 Ω	15 Ω	240-2200-1-ND	.88	3.80	7.02	240-2200-2-ND	4,000	40.95/M	12,000	37.44/M	MI0805J070R-00
				1,500	11 Ω	14 Ω	240-1034-1-ND	.88	3.80	7.02	240-1034-2-ND	4,000	40.95/M	12,000	37.44/M	MI0805K110R-00
				1,500	26 Ω	32 Ω	240-2201-1-ND	.88	3.80	7.02	240-2201-2-ND	4,000	40.95/M	12,000	37.44/M	MI0805K260R-00
				1,500	40 Ω	55 Ω	240-1035-1-ND	.88	3.80	7.02	240-1035-2-ND	4,000	40.95/M	12,000	37.44/M	MI0805K400R-00
				1,500	600 Ω	625 Ω	240-2202-1-ND	1.04	4.49	8.28	240-2202-2-ND	4,000	48.30/M	12,000	44.16/M	MI0805K601R-00
				2,000	300 Ω	380 Ω	240-2203-1-ND	1.04	4.49	8.28	240-2203-2-ND	4,000	48.30/M	12,000	44.16/M	MI0805L301R-00
				2,500	220 Ω	275 Ω	240-2204-1-ND	1.12	4.84	8.94	240-2204-2-ND	4,000	52.15/M	12,000	47.68/M	MI0805M221R-00
0805	2.00	1.25	0.90	3,500	120 Ω	170 Ω	240-2194-1-ND	.98	4.26	7.86	240-2194-2-ND	4,000	45.85/M	12,000	41.92/M	HI0805O121R-00
				4,500	31 Ω	34 Ω	240-1007-1-ND	.98	4.26	7.86	240-1007-2-ND	4,000	45.85/M	12,000	41.92/M	HI0805Q310R-00
				5,000	80 Ω	95 Ω	240-2195-1-ND	.98	4.26	7.86	240-2195-2-ND	4,000	45.85/M	12,000	41.92/M	HI0805R800R-01
0805	2.00	1.25	0.90	300	2,000 Ω	1,000 Ω	240-2211-1-ND	.96	4.14	7.65	240-2211-2-ND	4,000	44.63/M	12,000	40.80/M	HZ0805C202R-00
				400	1,000 Ω	900 Ω	240-2212-1-ND	.96	4.14	7.65	240-2212-2-ND	4,000	44.63/M	12,000	40.80/M	HZ0805D102R-00
				400	1,500 Ω	1,000 Ω	240-2213-1-ND	.96	4.14	7.65	240-2213-2-ND	4,000	44.63/M	12,000	40.80/M	HZ0805D152R-00
				500	600 Ω	650 Ω	240-1018-1-ND	.80	3.46	6.39	240-1018-2-ND	4,000	37.28/M	12,000	34.08/M	HZ0805E601R-00
				700	470 Ω	525 Ω	240-2214-1-ND	.80	3.46	6.39	240-2214-2-ND	4,000	37.28/M	12,000	34.08/M	HZ0805G471R-00
1206	3.20	1.60	1.10	800	120 Ω	140 Ω	240-2222-1-ND	.85	3.69	6.81	240-2222-2-ND	3,000	39.73/M	6,000	37.46/M	LI1206H121R-00
			1.10	800	150 Ω	180 Ω	240-2223-1-ND	.85	3.69	6.81	240-2223-2-ND	3,000	39.73/M	6,000	37.46/M	LI1206H151R-00
1206	3.20	1.60	1.10	1,500	26 Ω	35 Ω	240-1027-1-ND	1.03	4.47	8.25	240-1027-2-ND	3,000	48.13/M	6,000	45.38/M	MI1206K260R-00
				1,500	31 Ω	34 Ω	240-1036-1-ND	1.22	5.28	9.75	240-1036-2-ND	3,000	56.88/M	6,000	53.63/M	MI1206K310R-00
				1,800	600 Ω	350 Ω	240-2206-1-ND	1.41	6.09	11.25	240-2206-2-ND	3,000	65.63/M	6,000	61.88/M	MI1206K601R-00
				1,500	90 Ω	125 Ω	240-1037-1-ND	1.22	5.28	9.75	240-1037-2-ND	3,000	56.88/M	6,000	53.63/M	MI1206K900R-00
				2,000	500 Ω	280 Ω	240-2207-1-ND	1.22	5.28	9.75	240-2207-2-ND	3,000	56.88/M	6,000	53.63/M	MI1206L501R-00
1206	3.20	1.60	1.10	3,000	100 Ω	125 Ω	240-1008-1-ND	1.37	5.92	10.92	240-1008-2-ND	3,000	63.70/M	6,000	60.06/M	HI1206N101R-00
			1.10	3,000	80 Ω	100 Ω	240-1010-1-ND	1.37	5.92	10.92	240-1010-2-ND	3,000	63.70/M	6,000	60.06/M	HI1206N800R-00
			1.10	4,000	120 Ω	145 Ω	240-2235-1-ND	1.26	5.46	10.08	240-2235-2-ND	3,000	58.80/M	6,000	55.44/M	HI1206P121R-00
			1.35	6,000	160 Ω	220 Ω	240-2196-1-ND	1.37	5.92	10.92	240-2196-2-ND	3,000	63.70/M	6,000	60.06/M	HI1206T161R-00
			1.10	6,000	50 Ω	55 Ω	240-1009-1-ND	1.37	5.92	10.92	240-1009-2-ND	3,000	63.70/M	6,000	60.06/M	HI1206T500R-00
1206	3.20	1.60	1.10	300	2,000 Ω	500 Ω	240-2215-1-ND	1.13	4.88	9.00	240-2215-2-ND	3,000	52.50/M	6,000	49.50/M	HZ1206C202R-00
				400	1,000 Ω	500 Ω	240-2216-1-ND	1.13	4.88	9.00	240-2216-2-ND	3,000	52.50/M	6,000	49.50/M	HZ1206D102R-00
				500	600 Ω	300 Ω	240-1019-1-ND	.83	3.59	6.63	240-1019-2-ND	3,000	38.68/M	6,000	36.47/M	HZ1206E601R-00
1210	3.20	2.50	1.40	1,500	60 Ω	80 Ω	240-1038-1-ND	1.88	8.13	15.00	240-1038-2-ND	3,000	87.50/M	6,000	82.50/M	MI1210K600R-00
1612	4.06	3.05	2.28	10,000	56 Ω	65 Ω	240-1128-1-ND	7.22	31.30	57.78	240-1128-2-ND	2,500	337.06/M	5,000	317.79/M	DM1612X560R-00
1806	4.50	1.60	1.60	300	150 Ω	180 Ω	240-1030-1-ND	2.42	10.47	19.32	240-1030-2-ND	2,000	112.70/M	6,000	106.26/M	LI1806C151R-00
				500	100 Ω	125 Ω	240-1031-1-ND	2.42	10.47	19.32	240-1031-2-ND	2,000	112.70/M	6,000	106.26/M	LI1806E101R-00
				500	80 Ω	90 Ω	240-1032-1-ND	2.42	10.47	19.32	240-1032-2-ND	2,000	112.70/M	6,000	106.26/M	LI1806E800R-00
1806	4.50	1.60	1.60	6,000	60 Ω	75 Ω	240-1012-1-ND	2.63	11.38	21.00	240-1012-2-ND	2,000	122.50/M	6,000	115.50/M	HI1806T600R-00
1812	4.50	3.20	1.40	1,500	120 Ω	130 Ω	240-1040-1-ND	2.70	11.70	21.60	240-1040-2-ND	2,500	126.00/M	5,000	118.80/M	MI1812K121R-00
1812	4.50	3.20	1.40	6,000	80 Ω	85 Ω	240-1013-1-ND	2.70	11.70	21.60	240-1013-2-ND	2,500	126.00/M	5,000	118.80/M	HI1812T800R-00
2220	5.59	5.08	1.52	4,000	170 Ω	225 Ω	240-1014-1-ND	7.31	31.69	58.50	240-1014-2-ND	2,000	341.25/M	6,000	321.75/M	HI2220P171R-00
			1.80	4,000	250 Ω	300 Ω	240-1015-1-ND	7.31	31.69	58.50	240-1015-2-ND	2,000	341.25/M	6,000	321.75/M	HI2220P251R-00
			1.97	4,000	550 Ω	820 Ω	240-2236-1-ND	8.72	37.78	69.75	240-2236-2-ND	2,000	406.88/M	6,000	383.63/M	HI2220P551R-00
			3.05	4,000	600 Ω	400 Ω	240-1016-1-ND	8.72	37.78	69.75	240-1016-2-ND	2,000	406.88/M	6,000	383.63/M	HI2220P601R-00
			3.05	4,000	700 Ω	450 Ω	240-1126-1-ND	8.72	37.78	69.75	240-1126-2-ND	2,000	406.88/M	6,000	383.63/M	HI2220P701R-00
			1.80	5,000	150 Ω	190 Ω	240-1121-1-ND	7.31	31.69	58.50	240-1121-2-ND	2,000	341.25/M	6,000	321.75/M	HI2220R151R-00
			3.20	5,000	300 Ω	370 Ω	240-1124-1-ND	7.31	31.69	58.50	240-1124-2-ND	2,000	341.25/M	6,000	321.75/M	HI2220R301R-00
			1.80	6,000	100 Ω	130 Ω	240-1120-1-ND	7.31	31.69	58.50	240-1120-2-ND	2,000	341.25/M	6,000	321.75/M	HI2220T101R-00
2220	5.59	5.08	3.05	4,000	600 Ω	400 Ω	240-2197-1-ND	11.56	50.08	92.46	240-2197-2-ND	2,000	539.35/M	6,000	508.53/M	HR2220P601R-00
			3.61	8,000	800 Ω	290 Ω	240-1127-1-ND	16.05	69.55	128.40	240-1127-2-ND	2,000	749.00/M	6,000	706.20/M	HR2220V801R-00
3312	8.50	3.05	2.28	10,000	100 Ω	125 Ω	240-1129-1-ND	12.84	55.64	102.72	240-1129-2-ND	2,500	599.20/M	5,000	564.96/M	DM3312X101R-00
1612	5.08	3.05	3.05	10,000	48 Ω	52 Ω	240-1002-1-ND	1.60	6.94	12.81	240-1002-2-ND	2,500	74.73/M	5,000	70.46/M	28F0121-0SR
3312	9.53	3.05	3.05	10,000	96 Ω	110 Ω	240-1001-1-ND	1.60	6.94	12.81	240-1001-2-ND	2,500	74.73/M	5,000	70.46/M	28F0121-1SR

227-ND Surface Mount Ferrite Chip Bead Sample Kit (10-30 samples each of over 70 parts; 0402 to 3312 sizes) $60.00

- **Temperature Rating:** +60°C
- **Volt Rating:** 125V/AC.
- **Small Appliance Line Cord:** NEMA 1-15 P Polarized Plug
- **Male Plug Power Cord:** NEMA 5-15 P Plug
- **Detachable Power Cord:** NEMA 5-15 P Plug, IEC 320 Connector

SPT-1: All thermoplastic, parallel-jacketed, with or without third conductor for grounding purposes only. Light duty cord for pendant or portable use in damp locations. 300V.

SVT: Two or three-conductor, all plastic construction with or wit third conductor for grounding purposes only. 300V, +60° C.

SJT: Junior hard service thermoplastic or rubber-insulated condu with overall thermoplastic jacket. 300V, +60°C to +105°C

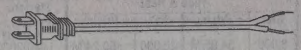
Fig. 1 

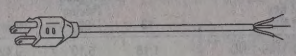
Fig. 2 

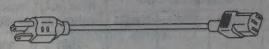
Fig. 3 

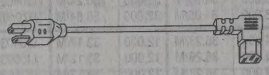
Fig. 4 

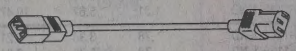
Fig. 5 

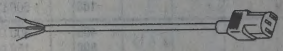
Fig. 6 

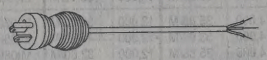
Fig. 7 

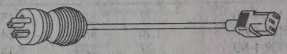
Fig. 8 

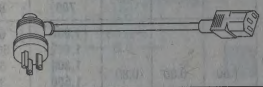
Fig. 9 

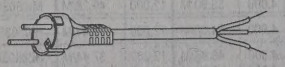
Fig. 10 

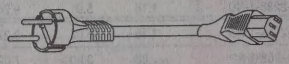
Fig. 11 

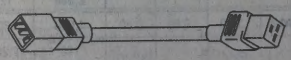
Fig. 12 

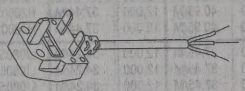
Fig. 13 

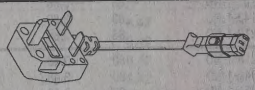
Fig. 14 

Fig. 15

Description	Fig.	Length Feet (Meter)	Cord/Plug Color	AWG	Rating Amps @ 125V	Cord Type	Digi-Key Part No.	Price Each 1	10	100	250	Qualtek Part No.
Small Appliance Line Cord UL Listed	1	6'0" (1.83)	Brown/Brown	18/2	10	SPT-1	Q100-ND	1.58	1.43	1.15	.97	221001-03
		6'0" (1.83)	White/White	18/2	10	SPT-1	Q101-ND	2.29	2.08	1.67	1.41	221001-08
		6'0" (1.83)	Black/Black	18/2	10	SPT-1	Q114-ND	1.61	1.46	1.17	.99	221001-01
		9'0" (2.74)	Black/Black	18/2	10	SPT-1	Q121-ND	1.77	1.60	1.29	1.09	221002-01
Male Plug Power Cord UL Listed CSA Certified CEE Color Code	2	6'7" (2.01)	Black/Black	18/3	10	SVT	Q106-ND	3.10	2.80	2.25	1.90	311007-01
		9'10" (3.00)	Black/Black	18/3	10	SVT	Q107-ND	3.35	3.03	2.44	2.06	311010-01
		6'7" (2.01)	Black/Black	18/3	10	SJT	Q108-ND	2.98	2.69	2.16	1.83	311013-01
		9'10" (3.00)	Black/Black	18/3	10	SJT	Q109-ND	4.99	4.51	3.63	3.06	311016-01
		6'7" (2.01)	Black/Black	16/3	13	SJT	Q110-ND	3.21	2.91	2.34	1.98	311019-01
		9'10" (3.00)	Black/Black	16/3	13	SJT	Q111-ND	5.63	5.09	4.09	3.46	311022-01
		6'7" (2.01)	Black/Black	14/3	15	SJT	Q112-ND	3.96	3.58	2.88	2.43	311024-01
		9'10" (3.00)	Black/Black	14/3	15	SJT	Q113-ND	4.86	4.39	3.53	2.98	311027-01
N. Amer. Color Code	2	8'0" (2.44)	Gray/Gray	18/3	10	SVT	Q122-ND	4.06	3.67	2.95	2.49	211012-06
		8'0" (2.44)	Gray/Gray	18/3	10	SJT	Q123-ND	3.26	2.95	2.37	2.01	211018-06
Detachable Power Cord UL Listed CSA Certified CEE Color Code	3	6'7" (2.01)	Black/Black	18/3	10	SJT	Q102-ND	3.37	3.05	2.45	2.07	312007-01
		9'10" (3.00)	Black/Black	18/3	10	SJT	Q103-ND	6.67	6.03	4.85	4.09	312010-01
		6'7" (2.01)	Black/Black	16/3	13	SJT	Q115-ND	3.92	3.54	2.85	2.41	312011-01
		9'10" (3.00)	Black/Black	16/3	13	SJT	Q116-ND	4.88	4.41	3.55	3.00	312014-01
		9'10" (3.00)	Black/Black	16/3	13	SJT	Q120-ND†	10.11	9.13	7.34	6.20	312040-01
		7'6" (2.29)	Black/Black	16/3	13	SJT	Q124-ND	4.23	3.83	3.08	2.60	212013-01
		7'6" (2.29)	Black/Black	18/3	10	SVT	Q125-ND	2.64	2.39	1.92	1.63	312003-01
		7'6" (2.29)	Black/Black	18/3	10	SVT	Q126-ND*	3.67	3.32	2.67	2.25	312021-01
	4	6'7" (2.01)	Black/Black	18/3	10	SJT	Q104-ND	5.85	5.29	4.25	3.59	313006-01
		6'7" (2.01)	Black/Black	16/3	13	SJT	Q117-ND	6.23	5.64	4.53	3.83	313010-01
		9'10" (3.00)	Black/Black	18/3	10	SJT	Q105-ND	4.50	4.07	3.27	2.76	313009-01
		9'10" (3.00)	Black/Black	16/3	13	SJT	Q118-ND	7.66	6.92	5.56	4.70	313014-01
		9'10" (3.00)	Black/Black	16/3	13	SJT	Q119-ND†	10.14	9.16	7.36	6.22	313026-01
	5	3'3" (.99)	Black/Black	18/3	10	SVT	Q127-ND	2.98	2.69	2.16	1.83	318002-01
		3'3" (.99)	Black/Black	18/3	10	SJT	Q128-ND	2.73	2.47	1.99	1.68	318005-01
	12	9'10" (3.00)	Black/Black	14/3	15	SJT	Q268-ND	14.13	12.77	10.26	8.67	331010-01
	6	9'10" (3.00)	Black/Black	18/3	10	SJT	Q129-ND	3.59	3.25	2.61	2.21	315008-01
	15	6'0" (1.83)	Black/Black	18/3	10	SVT	Q139-ND	2.78	2.52	2.02	1.71	350049-LD
		10'0" (3.50)	Black/Black	18/3	10	SVT	Q140-ND	3.28	2.97	2.39	2.02	350050-LD
Hospital Grade UL Listed CSA Certified N. Amer. Color Code	7	10'0" (3.05)	Gray/Clear	18/3	10	SJT	Q130-ND	5.53	5.00	4.02	3.39	232003-06
		10'0" (3.05)	Gray/Gray	18/3	10	SJT	Q131-ND	11.05	9.98	8.02	6.77	232011-06
	8	10'0" (3.05)	Gray/Clear	18/3	10	SJT	Q132-ND	6.20	5.60	4.50	3.80	233003-06
		10'0" (3.05)	Gray/Gray	18/3	10	SJT	Q133-ND	6.20	5.60	4.50	3.80	233009-06
	9	10'0" (3.05)	Gray/Clear	18/3	10	SJT	Q263-ND	13.51	12.20	9.81	8.28	243003-06

† Shielded with Mylar Foil * Temperature Rating: +105° C VW-1

Description	Fig.	Length Feet (Meter)	Color	Cordage	Conductors (MM2)	Rating Amps @ 250V	Digi-Key Part No.	Price Each 1	10	100	250	Qualtek Part No.
International Power Cords												
Continental Europe	10	8'2" (2.5)	Black	H05VV-F	3 X 1.00	10	Q134-ND	5.36	4.85	3.90	3.29	363012-D01
	11	8'2" (2.5)	Black	H05VV-F	3 X 1.00	10	Q135-ND	6.18	5.58	4.49	3.79	364002-D01
	5	8'2" (2.5)	Black	H05VV-F/SJT	3 X 1.00	10	Q136-ND	5.36	4.85	3.90	3.29	319004-T01
United Kingdom	13	8'2" (2.5)	Black	H05VV-F	3 X 1.00	10	Q137-ND	10.85	9.80	7.88	6.65	369003-E01
	14	8'2" (2.5)	Black	H05VV-F	3 X 1.00	10	Q138-ND	11.65	10.53	8.46	7.15	370001-E01

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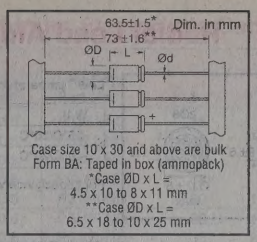
BC COMPONENTS ASM 021

ial Standard Miniature
ectrolytic Capacitors

TURES: • Polarized aluminum electrolytic capacitors, non-solid • Axial leads, cylindrical inum case, insulated with a blue sleeve • Charge and discharge proof • Case Ø10mm nm to 21mm x 40 mm with pressure relief • Taped versions up to case Ø15mm x 30 available for automatic insertion • Miniaturized, high CV-product per unit volume

LICATIONS: • General purpose, industrial, automotive, audio-video • Coupling, upling, smoothing, filtering, buffering and timing • Portable and mobile equipment ll size, low mass) • Low mounting height boards, vibration and shock resistant.



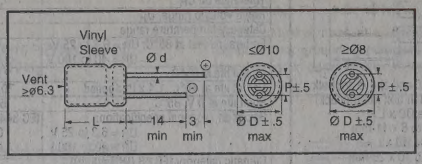
Case size 10 x 30 and above are bulk
Form BA: Taped in box (ammopack)
*Case ØD x L =
4.5 x 10 to 8 x 11 mm
**Case ØD x L =
6.5 x 18 to 10 x 25 mm

DESCRIPTION	VALUE	
Case sizes (ØDnom x Lnom in mm)	4.5 x 10 to 10 x 25	10 x 30 to 21 x 40
Rated capacitance range, CR	0.47 to 15,000 µF	
Tolerance on CR	±20%	
Rated voltage range, UR	6.3 to 100V	
Category temperature range	-40°C to +85°C	
Endurance test at 85°C: UR = 6.3 to 25 V	1,000 hours	5,000 hours
UR = 40 to 100 V	2,000 hours	5,000 hours
Useful life at 85°C	2,500 hours	8,000 hours
Useful life at 40°C, 1.4 x IR applied	70,000 hours	200,000 hours
Shelf life at 0 V, 85°C	500 hours	500 hours
Based on sectional specification:	IEC 384-4/CECC 30300	IEC384-4/CECC 30300
UR = 6.3 to 25 V	GP grade	LL grade
UR = 40 to 100 V	LL grade	LL grade
Climatic category IEC 68 (DIN 40040)	40/085/56 (GPF)	

/V DC)	Cap. (µF)	Leakage Curr. (µA)	tan d	Ripple Curr. (mA)	Dimensions (mm) L	D	d	Digi-Key Part No.	Pricing* 1	10	100	Digi-Key Part No.	Pricing* 500	1,000	5,000	10,000	BC Components Part No.
3	470	22	0.250	260	11	8	0.6	4000PHCT-ND	.70	6.04	47.31	4000PHTB-ND	193.38	300.45	283.52/M	261.43/M	2222 021 33471
	1000	42	0.250	440	18	8	0.8	4001PHCT-ND	.81	6.91	54.12	4001PHTB-ND	221.23	343.73	324.37/M	299.10/M	2222 021 33102
	2200	87	0.290	710	25	10	0.8	4002PHCT-ND	1.17	10.07	78.84	4002PHTB-ND	322.29	500.74	472.54/M	435.72/M	2222 021 90589
	100	10	0.200	100	10	4.5	0.6	4003PHCT-ND	.50	4.30	33.70	4003PHTB-ND	—	214.03	201.98/M	186.24/M	2222 021 34101
	220	17	0.200	160	10	6	0.6	4004PHCT-ND	.55	4.74	37.11	4004PHTB-ND	—	235.67	222.40/M	205.07/M	2222 021 34221
	330	24	0.200	230	11	8	0.6	4005PHCT-ND	.70	6.04	47.31	4005PHTB-ND	193.38	300.45	283.52/M	261.43/M	2222 021 34331
	470	32	0.200	310	18	6.5	0.8	4006PHCT-ND	.70	6.04	47.31	4006PHTB-ND	—	300.45	283.52/M	261.43/M	2222 021 34471
	680	45	0.200	400	18	8	0.8	4007PHCT-ND	.81	6.91	54.12	4007PHTB-ND	221.23	343.73	324.37/M	299.10/M	2222 021 34681
	1000	64	0.200	550	18	10	0.8	4008PHCT-ND	.93	7.94	62.16	4008PHTB-ND	254.09	394.77	372.54/M	343.51/M	2222 021 34102
0	1500	94	0.230	690	25	10	0.8	4009PHCT-ND	1.17	10.07	78.84	4009PHTB-ND	322.29	500.74	472.54/M	435.72/M	2222 021 90525
	1500	94	0.230	740	30	10	0.8	4010PHBK-ND	1.32	11.29	88.43	—	361.49	561.64	530.00/M	488.71/M	2222 021 14152
	2200	136	0.250	800	30	12.5	0.8	4011PHBK-ND	1.45	12.44	97.41	—	398.18	618.65	583.81/M	538.32/M	2222 021 14222
	3300	202	0.270	1000	30	12.5	0.8	4012PHBK-ND	1.67	14.29	111.93	—	457.55	710.89	670.85/M	618.58/M	2222 021 14332
	4700	286	0.290	1180	30	15	0.8	4013PHBK-ND	1.94	16.62	130.17	—	532.10	826.71	780.14/M	719.35/M	2222 021 14472
	10000	604	0.400	1860	38	18	0.8	4015PHBK-ND	2.97	25.46	199.44	—	815.29	1266.71	1195.36/M	1102.21/M	2222 021 14103
	68	11	0.160	90	10	4.5	0.6	4017PHCT-ND	.50	4.30	33.70	4017PHTB-ND	—	214.03	201.98/M	186.24/M	2222 021 35689
	150	18	0.160	140	10	6	0.6	4018PHCT-ND	.55	4.74	37.11	4018PHTB-ND	—	235.67	222.40/M	205.07/M	2222 021 35151
	220	25	0.160	210	11	8	0.6	4019PHCT-ND	.70	6.04	47.31	4019PHTB-ND	193.38	300.45	283.52/M	261.43/M	2222 021 35221
	330	36	0.160	290	18	6.5	0.8	4020PHCT-ND	.70	6.04	47.31	4020PHTB-ND	—	300.45	283.52/M	261.43/M	2222 021 35331
	470	49	0.160	380	18	8	0.8	4021PHCT-ND	.81	6.91	54.12	4021PHTB-ND	221.23	343.73	324.37/M	299.10/M	2222 021 35471
	680	69	0.160	500	18	10	0.8	4022PHCT-ND	.93	7.94	62.16	4022PHTB-ND	254.09	394.77	372.54/M	343.51/M	2222 021 35681
6	1000	100	0.160	660	25	10	0.8	4023PHCT-ND	1.17	10.07	78.84	4023PHTB-ND	322.29	500.74	472.54/M	435.72/M	2222 021 90518
	1000	100	0.160	700	30	10	0.8	4024PHBK-ND	1.31	11.25	88.13	—	360.24	559.70	528.17/M	487.02/M	2222 021 15102
	2200	216	0.210	890	30	12.5	0.8	4026PHBK-ND	1.66	14.21	111.32	—	455.05	707.01	667.19/M	615.20/M	2222 021 15222
	3300	321	0.230	1130	30	15	0.8	4027PHBK-ND	1.98	16.94	132.66	—	542.28	842.53	795.07/M	733.12/M	2222 021 15332
	4700	455	0.250	1410	30	18	0.8	4028PHBK-ND	2.38	20.37	159.54	—	652.18	1013.28	956.20/M	881.69/M	2222 021 15472
	6800	656	0.300	1780	38	18	0.8	4029PHBK-ND	2.98	25.58	200.36	—	819.04	1272.53	1200.85/M	1107.28/M	2222 021 15682
	10000	964	0.360	2170	38	21	0.8	4030PHBK-ND	3.91	33.47	262.21	—	1071.88	1665.36	1571.55/M	1449.09/M	2222 021 15103
	47	11	0.140	80	10	4.5	0.6	4031PHCT-ND	.50	4.30	33.70	4031PHTB-ND	—	214.03	201.98/M	186.24/M	2222 021 36479
	100	19	0.140	150	10	6.0	0.6	4032PHCT-ND	.55	4.74	37.11	4032PHTB-ND	—	235.67	222.40/M	205.07/M	2222 021 36101
	150	27	0.140	190	11	8.0	0.6	4033PHCT-ND	.70	6.04	47.31	4033PHTB-ND	193.38	300.45	283.52/M	261.43/M	2222 021 90535
	150	27	0.140	210	18	6.5	0.8	4034PHCT-ND	.70	6.04	47.31	4034PHTB-ND	—	300.45	283.52/M	261.43/M	2222 021 36151
	220	37	0.140	250	18	6.5	0.8	4035PHCT-ND	.70	6.04	47.31	4035PHTB-ND	—	300.45	283.52/M	261.43/M	2222 021 36221
	330	54	0.140	340	18	8.0	0.8	4036PHCT-ND	.81	6.91	54.12	4036PHTB-ND	221.23	343.73	324.37/M	299.10/M	2222 021 36331
	470	75	0.140	450	18	10	0.8	4037PHCT-ND	.93	7.94	62.16	4037PHTB-ND	254.09	394.77	372.54/M	343.51/M	2222 021 36471
5	680	106	0.140	560	25	10	0.8	4038PHCT-ND	1.17	10.07	78.84	4038PHTB-ND	322.29	500.74	472.54/M	435.72/M	2222 021 90528
	680	106	0.140	640	30	10	0.8	4039PHBK-ND	1.32	11.33	88.74	—	362.74	563.58	531.83/M	490.39/M	2222 021 16681
	1000	154	0.140	720	30	12.5	0.8	4040PHBK-ND	1.46	12.47	97.71	—	399.43	620.59	585.64/M	540.00/M	2222 021 16102
	1500	229	0.170	790	30	12.5	0.8	4041PHBK-ND	1.67	14.29	111.93	—	457.55	710.89	670.85/M	618.58/M	2222 021 16152
	2200	334	0.190	1030	30	15	0.8	4042PHBK-ND	1.96	16.82	131.72	—	538.44	836.56	789.44/M	727.93/M	2222 021 16222
	3300	499	0.210	1310	30	18	0.8	4043PHBK-ND	2.42	20.76	162.64	—	664.86	1032.98	974.79/M	898.83/M	2222 021 16332
	4700	709	0.230	1680	38	18	0.8	4044PHBK-ND	3.01	25.82	202.22	—	826.63	1284.32	1211.98/M	1117.54/M	2222 021 16472
	6800	1024	0.280	2070	38	21	0.8	4045PHBK-ND	3.90	33.40	261.60	—	1069.38	1661.48	1567.89/M	1445.72/M	2222 021 16682
	22	9.0	0.110	60	10	4.5	0.6	4046PHCT-ND	.50	4.30	33.70	4046PHTB-ND	—	214.03	201.98/M	186.24/M	2222 021 37229
	47	15	0.110	110	10	6.0	0.6	4047PHCT-ND	.55	4.74	37.11	4047PHTB-ND	—	235.67	222.40/M	205.07/M	2222 021 37479
	100	28	0.110	170	11	8.0	0.6	4048PHCT-ND	.70	6.04	47.31	4048PHTB-ND	193.38	300.45	283.52/M	261.43/M	2222 021 90538
	100	28	0.110	190	18	6.5	0.8	4049PHCT-ND	.70	6.04	47.31	4049PHTB-ND	—	300.45	283.52/M	261.43/M	2222 021 37101
	150	40	0.110	250	18	8	0.8	4050PHCT-ND	.81	6.91	54.12	4050PHTB-ND	221.23	343.73	324.37/M	299.10/M	2222 021 37151
	220	57	0.110	330	18	10	0.8	4051PHCT-ND	.93	7.94	62.16	4051PHTB-ND	254.09	394.77	372.54/M	343.51/M	2222 021 37221
	330	83	0.110	430	25	10	0.8	4052PHCT-ND	1.17	10.07	78.84	4052PHTB-ND	322.29	500.74	472.54/M	435.72/M	2222 021 37331
0	470	117	0.110	520	25	10	0.8	4053PHCT-ND	1.17	10.07	78.84	4053PHTB-ND	322.29	500.74	472.54/M	435.72/M	2222 021 90515
	470	117	0.120	570	30	10	0.8	4054PHBK-ND	1.25	10.70	83.80	—	342.56	532.24	502.26/M	463.12/M	2222 021 17471
	680	167	0.120	620	30	12.5	0.8	4055PHBK-ND	1.39	11.92	93.39	—	381.76	593.13	559.72/M	516.11/M	2222 021 17681
	1000	244	0.120	770	30	12.5	0.8	4056PHBK-ND	1.61	13.82	108.22	—	442.37	687.31	648.60/M	598.06/M	2222 021 17102
	1500	364	0.150	930	30	15	0.8	4057PHBK-ND	1.96	16.78	131.41	—	537.19	834.62	787.61/M	726.24/M	2222 021 17152
	2200	532	0.170	1200	30	18	0.8	4058PHBK-ND	2.45	20.96	164.19	—	671.20	1042.83	984.09/M	907.41/M	2222 021 17222
	3300	796	0.190	1550	38	18	0.8	4059PHBK-ND	3.21	27.47	215.21	—	879.75	1366.86	1289.86/M	1189.35/M	2222 021 17332
	4700	1132	0.210	1880	38	21	0.8	4060PHBK-ND	4.18	35.80	280.45	—	1146.42	1781.19	1680.85/M	1549.87/M	2222 021 17472
	0.47	4.2	0.090	8.0	10	4.5	0.6	4061PHCT-ND	.46	3.91	30.62	4061PHTB-ND	—	194.48	183.53/M	169.23/M	2222 021 38477
	1.0	4.4	0.090	12	10	4.5	0.6	4062PHCT-ND	.46	3.91	30.62	4062PHTB-ND	—	194.48	183.53/M	169.23/M	2222 021 38108
	2.2	4.8	0.090	21	10	4.5	0.6	4063PHCT-ND	.46	3.91	30.62	4063PHTB-ND	—	194.48	183.53/M	169.23/M	2222 021 38228
	3.3	5.2	0.090	25	10	4.5	0.6	4064PHCT-ND	.46	3.91	30.62	4064PHTB-ND	—	194.48	183.53/M	169.23/M	2222 021 38338
	4.7	5.8	0.090	31	10	4.5	0.6	4065PHCT-ND	.46	3.91	30.62	4065PHTB-ND	—	194.48	183.53/M	169.23/M	2222 021 38478
	10	7.8	0.080	50	10	4.5	0.6	4066PHCT-ND	.46	3.91	30.62	4066PHTB-ND	—	194.48	183.53/M	169.23/M	2222 021 38109
	15	9.5	0.080	55	10	4.5	0.6	4067PHCT-ND	.50	4.30	33.70	4067PHTB-ND	—	214.03	201.98/M	186.24/M	2222 021 38159
	22	12	0.080	90	10	6.0	0.6	4068PHCT-ND	.50	4.30	33.70	4068PHTB-ND	—	214.03	201.98/M	186.24/M	2222 021 38229
	33	16	0.080	100	10	6.0	0.6	4069PHCT-ND	.55	4.74	37.11	4069PHTB-ND	—	235.67	222.40/M	205.07/M	2222 021 38339
	47	22	0.080	140	11	8.0	0.6	4070PHCT-ND	.70	6.04	47.31	4070PHTB-ND	193.38	300.45	283.52/M	261.43/M	2222 021 90542
	47	22	0.080	150	18	6.5	0.8	4071PHCT-ND	.70	6.04	47.31	4071PHTB-ND	—	300.45	283.52/M	261.43/M	2222 021 38479
3	68	30	0.080	160	11	8.0	0.6	4072PHCT-ND	.70	6.04	47.31	4072PHTB-ND	193.38	300.45	283.52/M	261.43/M	2222 021 90545
	68	30	0.080	170	18	6.5	0.8	4073PHCT-ND	.70	6.04	47.31	4073PHTB-ND	—	300.45	283.52/M	261.43/M	2222 021 38689
	100	42	0.080	250	18	8.0	0.8	4074PHCT-ND	.81	6.91	54.12	4074PHTB-ND	221.23	343.73	324.37/M	299.10/M	2222 021 38101
	150	61	0.080	320	18	10	0.8	4075PHCT-ND	.93	7.94	62.16	4075PHTB-ND	254.09	394.77	372.54/M	343.51/M	2222 021 38151
	220	88	0.080	430	25	10	0.8	4076PHCT-ND	1.17	10.07	78.84	4076PHTB-ND	322.29	500.74	472.54/M	435.72/M	2222 021 90512
	220	88	0.080	480	30	10	0.8	4077PHBK-ND	1.23	10.58	82.86	—	338.72	526.27	496.62/M	457.93/M	2222 021 18221
	330	129	0.080	530	30	12.5	0.8	4078PHBK-ND	1.39	11.92	93.39	—	381.76	593.13	559.72/M	516.11/M	2222 021 18331
	470	182	0.080	630	30	12.5	0.8	4079PHBK-ND	1.59	13.62	106.67	—	436.03	677.46	639.30/M	589.48/M	2222 021 18471
	680	261	0.080	830	30	15	0.8	4080PHBK-ND	1.88	16.15	126.48	—	517.01	803.28	758.03/M	698.96/M	2222 021 18681
	1000	382	0.080	1120	30	18	0.8	4081PHBK-ND	2.33	20.01	156.77	—	640.84	995.67	939.58/M	866.37/M	2222 021 18102
	1500	571	0.110	1350	38	18	0.8	4082PHBK-ND	3.04	26.05	204.07	—	834.22	1296.11	1223.10/M	1127.80/M	2222 021 18152
	2200	836	0.130	1780	38	21	0.8	4083PHBK-ND	4.03	34.50	270.25	—	1104.73	1716.41	1619.72/M	1493.51/M	2222 021 18222
	1.0	4.6	0.080	14	10	4.5	0.6	4084PHCT-ND	.46	3.91	30.62	4084PHTB-ND	—	194.48	183.53/M	169.23/M	2222 021 39108
	2.2	5.3	0.080	20	10	4.5	0.6	4085PHCT-ND	.46	3.91	30.62	4085PHTB-ND	—	194.48	183.53/M	169.23/M	2222 021 39228
	4.7	7.0	0.080	30	10	4.5	0.6	4086PHCT-ND	.50	4.30	33.70	4086PHTB-ND	—	214.03	201.98/M	186.24/M	2222 021 39478
	10	10	0.080	65	10	6.0	0.6	4087PHCT-ND	.53	4.54	35.56	4087PHTB-ND	—	225.82	213.10/M	196.50/M	2222 021 39109
	15	13	0.080	77	11	8.0	0.6	4088PHCT-ND	.70	6.04	47.31	4088PHTB-ND	193.38	300.45	283.52/M	261.43/M	2222 021 90548
	15	13	0.080	85	18	6.5	0.8	4089PHCT-ND	.70	6.04	47.31	4089PHTB-ND	—	300.45	283.52/M	261.43/M	2222 021 39159
	22	17	0.080	95	11	8.0	0.6	4090PHCT-ND	.70	6.04	47.31	4090PHTB-ND	193.38	300.45	283.52/M	261.43/M	2222 021 90552
	22	17	0.080	100	18	6.5	0.8	4091PHCT-ND	.70	6.04	47.31	4091PHTB-ND	—	300.45	283.52/M	261.43/M	2222 021 39229
	33	24	0.080	120	18	6.5	0.8	4092PHCT-ND	.70	6.04	47.31	4092PHTB-ND	—	300.45	283.52/M	261.43/M	2222 021 39339
0	47	32	0.080	160	18	8.0	0.8	4093PHCT-ND	.81	6.91	54.12	4093PHTB-ND	221.23	343.73	324.37/M	299.10/M	2222 021 39479
	68	45	0.080	220	18	10	0.8	4094PHCT-ND	.93	7.94	62.16	4094PHTB-ND	254.09	394.77	372.54/M	343.51/M	2222 021 39689
	100	64	0.080	300	25	10	0.8	4095PHCT-ND	1.17	10.07	78.84	4095PHTB-ND	322.29	500.74	472.54/M	435.72/M	2222 021 90532
	100	64	0.070	360	30	10	0.8	4096PHBK-ND	1.22	10.46	81.94	—	334.97	520.45	491.13/M	452.86/M	2222 021 19101
	220	136	0.080	460	30	12.5	0.8	4098PHBK-ND	1.63	13.97	109.46	—	447.46	695.22	656.06/M	604.94/M	2222 021 19221
	330	202	0.090	580	30	15	0.8	4099PHBK-ND	2.01	17.21	134.82	—	551.12	856.26	808.03/M	745.07/M	2222 021 19331
	470	286	0.090	740	30	18	0.8	4100PHBK-ND	2.49	21.35	167.27	—	683.78	1062.38	1002.54/M	924.42/M	2222 021 19471
	680	412	0.090	1050	38	18	0.8	4101PHBK-ND	3.21	27.51	215.52	—	881.00	1368.80	1291.69/M	1191.04/M	2222 021 19681
	1000	604	0.100	1260	38	21	0.8	4102PHBK-ND	4.31	36.95	289.43	—	1183.12	1838.20	1734.65/M	1599.48/M	2222 021 19102

" stands for Cut Tape; "TB" stands for Tape and Box; "BK" stands for Bulk.

PANASONIC M SERIES CROSS REFERENCES
Nichicon: VR; **Chemicon:** SMG; **Marcon:** DSM; **Rubycon:** YK; **Elna:** RE3; **Nitsuko:** MK; **Sanyo:** HC/HPC



FEATURES:
- Miniaturized size version for general purpose use
- Life: 2000 hours at +85°C
- Vent construction for ≥ø6.3 mm products

SPECIFICATIONS:

Operating Temperature Range	-40°C ~ 85°C	-25°C ~ 85°C
Rated Working Voltage Range	6.3 ~ 100 V DC	160 ~ 450 V DC
Nominal Capacitance Range	0.33 ~ 22000 µF	1 ~ 470 µF

Capacitance Tolerance: ±20% (120 Hz, 20°C)

Leakage Current	I≤ 0.03 CV or 4 (µA) after 1 minute I≤ 0.01 CV or 3 (µA) after 2 minutes Whichever is greater measured with rated working voltage at 20°C.	I≤ 0.06 CV + 10 (µA) after 2 minutes application of rated working voltage at 20°C.

tan δ: (at 120 Hz, 20°C)

W.V.	6.3	10	16	25	35	50	63	100	160	250	450
tan δ	0.28	0.24	0.20	0.16	0.14	0.12	0.11	0.10	0.16	0.18	0.20

For capacitance value > 1000 µF, add 0.02 per every 1000 µF.

Low Temperature Characteristics: Impedance ratio max. at 120 Hz

W.V.	6.3	10	16	25	35	50	63	100	160	250	450
-25°C/20°C	5	4	3	2	2	2	2	2	2	3	6
-40°C/20°C	12	10	8	5	4	3	3	3	—	—	—

For capacitance value >1000 µF, add 0.5 per every 1000 µF for -25°C/20°C.
add 1.0 per every 1000 µF for -40°C/20°C.

Ripple Current: 120 Hz, 85°C

Frequency (Hz)	50/60	120	1k	10k
Correction Factor (Multiplier)	0.7	1	1.3	1.7

Endurance:

Test Conditions		Post Test Requirements at 20°C	
Duration	2000 Hours	Leakage Current	≤ initial specified value
Ambient Temperature	85°C	Capacitance Change	±20% of initial measured valu
Applied Voltage	Rated DC Working Voltage	tan δ	≤ 150% initial specified valu

Shelf Life:

Test Conditions		Post Test Requirements at 20°C	
Duration	1000 Hours	Leakage Current	≤ initial specified value
Ambient Temperature	85°C	Capacitance Change	±20% of initial measured valu
Applied Voltage	—	tan δ	≤ 150% initial specified valu

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WV (VDC)	Cap. (µF)	Leakage Current (µA)	tan δ max.	Ripple Current (mA) rms	Dimensions (mm) øD	L	P	ød	Digi-Key Part No.	Pricing 1	10	100	500	1,000	5,000	Panasonic Part No.
6.3	100	6.3	0.28	130	5	11	2.0	0.5	P5111-ND	.15	.77	5.21	17.64	27.00	23.00/M	ECA-0JM101
	220	13.8	0.28	240	5	11	2.0	0.5	P5112-ND	.16	.77	5.21	17.64	27.00	23.00/M	ECA-0JM221
	330	20.7	0.28	300	6.3	11.2	2.5	0.5	P5113-ND	.20	1.02	7.21	24.89	39.00	34.00/M	ECA-0JM331
	470	29.6	0.28	380	6.3	11.2	2.5	0.5	P5114-ND	.20	1.02	7.21	24.89	39.00	34.00/M	ECA-0JM471
	1000	63.0	0.28	580	8	11.5	3.5	0.6	P5115-ND	.25	1.48	10.58	38.07	59.00	55.00/M	ECA-0JM102
	2200	138.6	0.30	890	10	16	5.0	0.6	P5116-ND	.46	2.60	18.58	66.87	104.00	97.00/M	ECA-0JM222
	3300	207.9	0.32	1020	10	20	5.0	0.6	P5117-ND	.57	3.26	23.97	86.70	138.00	133.00/M	ECA-0JM332
	4700	296.1	0.34	1170	12.5	20	5.0	0.6	P5118-ND	.82	4.66	34.24	123.85	197.00	189.00/M	ECA-0JM472
	6800	428.4	0.38	1270	12.5	25	5.0	0.6	P5119-ND	.93	5.90	44.26	157.36	262.00	252.00/M	ECA-0JM682
	10000	630.0	0.46	1450	16	25	7.5	0.8	P5120-ND	1.30	7.43	55.73	198.16	329.00	317.00/M	ECA-0JM103
	15000	945.0	0.56	1700	16	31.5	7.5	0.8	P5121-ND	1.61	9.27	69.94	262.28	455.00	441.00/M	ECA-0JM153
	22000	1386.0	0.70	1900	18	35.5	7.5	0.8	P5122-ND	2.35	13.52	102.00	382.50	663.00	643.00/M	ECA-0JM223
10	100	10.0	0.24	150	5	11	2.0	0.5	P5123-ND	.16	.77	5.21	17.64	27.00	23.00/M	ECA-1AM101
	220	22.0	0.24	250	6.3	11.2	2.5	0.5	P5124-ND	.24	1.21	8.12	27.51	42.00	35.00/M	ECA-1AM221
	330	33.0	0.24	330	6.3	11.2	2.5	0.5	P5125-ND	.20	1.02	7.21	24.89	39.00	34.00/M	ECA-1AM331
	470	47.0	0.24	400	8	11.5	3.5	0.6	P5126-ND	.32	1.65	11.63	40.19	63.00	55.00/M	ECA-1AM471
	1000	100.0	0.24	630	10	12.5	5.0	0.6	P5127-ND	.34	1.99	14.20	51.12	80.00	74.00/M	ECA-1AM102
	2200	220.0	0.26	920	10	20	5.0	0.6	P5128-ND	.57	3.26	23.97	86.70	138.00	133.00/M	ECA-1AM222
	3300	330.0	0.28	1090	12.5	20	5.0	0.6	P5129-ND	.74	4.66	34.24	123.85	197.00	189.00/M	ECA-1AM332
	4700	470.0	0.30	1200	12.5	25	5.0	0.6	P5130-ND	.94	5.90	44.26	157.36	262.00	252.00/M	ECA-1AM472
	6800	680.0	0.34	1400	16	25	7.5	0.8	P5131-ND	1.30	7.43	55.73	198.16	329.00	317.00/M	ECA-1AM682
	10000	1000.0	0.42	1600	16	31.5	7.5	0.8	P5132-ND	1.56	9.27	69.94	262.28	455.00	441.00/M	ECA-1AM103
	15000	1500.0	0.52	1850	18	35.5	7.5	0.8	P5133-ND	2.35	13.52	102.00	382.50	663.00	643.00/M	ECA-1AM153
16	10	3.0	0.20	30	5	11	2.0	0.5	P5134-ND	.15	.77	5.21	17.64	27.00	23.00/M	ECA-1CM100
	22	3.5	0.20	75	5	11	2.0	0.5	P5135-ND	.15	.77	5.21	17.64	27.00	23.00/M	ECA-1CM220
	33	5.2	0.20	110	5	11	2.0	0.5	P5136-ND	.15	.77	5.21	17.64	27.00	23.00/M	ECA-1CM330
	47	7.5	0.20	130	5	11	2.0	0.5	P5137-ND	.15	.77	5.21	17.64	27.00	23.00/M	ECA-1CM470
	100	16.0	0.20	180	5	11	2.0	0.5	P5138-ND	.18	.87	5.86	19.85	30.00	26.00/M	ECA-1CM101
	220	35.2	0.20	280	6.3	11.2	2.5	0.5	P5139-ND	.19	1.02	7.21	24.89	39.00	34.00/M	ECA-1CM221
	330	52.8	0.20	350	8	11.5	3.5	0.6	P5140-ND	.32	1.65	11.63	40.19	63.00	55.00/M	ECA-1CM331
	470	75.2	0.20	440	8	11.5	3.5	0.6	P5141-ND	.26	1.48	10.58	38.07	59.00	55.00/M	ECA-1CM471
	1000	160.0	0.20	680	10	16	5.0	0.6	P5142-ND	.40	2.60	18.58	66.87	104.00	97.00/M	ECA-1CM102
	2200	352.0	0.22	1000	12.5	20	5.0	0.6	P5143-ND	.82	4.66	34.24	123.85	197.00	189.00/M	ECA-1CM222
	3300	528.0	0.24	1200	12.5	25	5.0	0.6	P5144-ND	1.03	5.90	44.26	157.36	262.00	252.00/M	ECA-1CM332
	4700	752.0	0.26	1360	16	25	7.5	0.8	P5145-ND	1.30	7.43	55.73	198.16	329.00	317.00/M	ECA-1CM472
	6800	1088.0	0.30	1600	16	31.5	7.5	0.8	P5146-ND	1.58	9.27	69.94	262.28	455.00	441.00/M	ECA-1CM682
	10000	1600.0	0.38	1800	18	35.5	7.5	0.8	P5147-ND	2.35	13.52	102.00	382.50	663.00	643.00/M	ECA-1CM103
25	10	3.0	0.16	50	5	11	2.0	0.5	P5148-ND	.15	.77	5.21	17.64	27.00	23.00/M	ECA-1EM100
	22	5.5	0.16	90	5	11	2.0	0.5	P5149-ND	.15	.77	5.21	17.64	27.00	23.00/M	ECA-1EM220
	33	8.2	0.16	110	5	11	2.0	0.5	P5150-ND	.15	.77	5.21	17.64	27.00	23.00/M	ECA-1EM330
	47	11.7	0.16	130	5	11	2.0	0.5	P5151-ND	.18	.87	5.86	19.85	30.00	26.00/M	ECA-1EM470
	100	25.0	0.16	180	6.3	11.2	2.5	0.5	P5152-ND	.23	1.21	8.12	27.51	42.00	35.00/M	ECA-1EM101
	220	55.0	0.16	310	8	11.5	3.5	0.6	P5153-ND	.31	1.65	11.63	40.19	63.00	55.00/M	ECA-1EM221
	330	82.5	0.16	390	8	11.5	3.5	0.6	P5154-ND	.25	1.48	10.58	38.07	59.00	55.00/M	ECA-1EM331
	470	117.5	0.16	480	10	12.5	5.0	0.6	P5155-ND	.39	2.30	16.40	59.04	92.00	85.00/M	ECA-1EM471
	1000	250.0	0.16	850	10	20	5.0	0.6	P5156-ND	.58	3.50	25.69	92.91	148.00	142.00/M	ECA-1EM102
	2200	550.0	0.18	1200	12.5	25	5.0	0.6	P5157-ND	1.04	5.90	44.26	157.36	262.00	252.00/M	ECA-1EM222
	3300	825.0	0.20	1300	16	25	7.5	0.8	P5158-ND	1.35	8.31	62.30	221.52	368.00	354.00/M	ECA-1EM332
	4700	1175.0	0.22	1500	16	31.5	7.5	0.8	P5159-ND	1.72	10.04	75.78	284.18	493.00	477.00/M	ECA-1EM472
	6800	1700.0	0.26	1750	18	35.5	7.5	0.8	P5160-ND	2.55	14.67	110.74	415.28	720.00	698.00/M	ECA-1EM682

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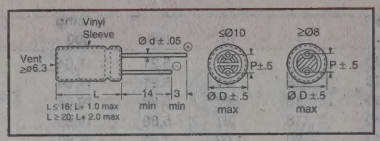
/V DC)	Cap. (µF)	Leakage Current (µA)	tan δ max.	Ripple Current (mA) rms	Dimensions (mm) øD	L	P	ød	Digi-Key Part No.	Pricing 1	10	100	500	1,000	5,000	Panasonic Part No.
	10	3.5	0.14	60	5	11	2.0	0.5	P5161-ND	.15	.77	5.21	17.64	27.00	23.00/M	ECA-1VM100
	22	7.7	0.14	95	5	11	2.0	0.5	P5162-ND	.15	.77	5.21	17.64	27.00	23.00/M	ECA-1VM220
	33	11.5	0.14	110	5	11	2.0	0.5	P5163-ND	.18	.87	5.86	19.85	30.00	26.00/M	ECA-1VM330
	47	16.4	0.14	130	5	11	2.0	0.5	P5164-ND	.18	.87	5.86	19.85	30.00	26.00/M	ECA-1VM470
	100	35.0	0.14	210	6.3	11.2	2.5	0.5	P5165-ND	.20	1.02	7.21	24.89	39.00	34.00/M	ECA-1VM101
	220	77.0	0.14	350	8	11.5	3.5	0.6	P5166-ND	.26	1.48	10.58	38.07	59.00	55.00/M	ECA-1VM221
35	330	115.5	0.14	440	10	12.5	5.0	0.6	P5167-ND	.36	2.30	16.40	59.04	92.00	85.00/M	ECA-1VM331
	470	164.5	0.14	550	10	16	5.0	0.6	P5168-ND	.43	2.65	18.95	68.22	106.00	99.00/M	ECA-1VM471
	1000	350.0	0.14	900	12.5	20	5.0	0.6	P5169-ND	.74	5.13	37.67	136.26	216.00	208.00/M	ECA-1VM102
	2200	770.0	0.16	1250	16	25	7.5	0.8	P5170-ND	1.26	8.31	62.30	221.52	368.00	354.00/M	ECA-1VM222
	3300	1155.0	0.18	1400	16	31.5	7.5	0.8	P5171-ND	1.48	10.04	75.78	284.18	493.00	477.00/M	ECA-1VM332
	4700	1645.0	0.20	1600	18	35.5	7.5	0.8	P5172-ND	2.42	14.67	110.74	415.28	720.00	698.00/M	ECA-1VM472
	0.33	3.0	0.12	4.4	5	11	2.0	0.5	P5349-ND*	.21	1.33	8.99	30.45	46.00	39.00/M	ECA-1HMR33
	0.47	3.0	0.12	5	5	11	2.0	0.5	P5173-ND*	.15	.77	5.21	17.64	27.00	23.00/M	ECA-1HMR47
	1.0	3.0	0.12	10	5	11	2.0	0.5	P5174-ND*	.15	.77	5.21	17.64	27.00	23.00/M	ECA-1HM010
	2.2	3.0	0.12	20	5	11	2.0	0.5	P5175-ND*	.15	.77	5.21	17.64	27.00	23.00/M	ECA-1HM2R2
	3.3	3.0	0.12	35	5	11	2.0	0.5	P5176-ND*	.15	.77	5.21	17.64	27.00	23.00/M	ECA-1HM3R3
	4.7	3.0	0.12	45	5	11	2.0	0.5	P5177-ND*	.15	.77	5.21	17.64	27.00	23.00/M	ECA-1HM4R7
50	10	5.0	0.12	65	5	11	2.0	0.5	P5178-ND*	.15	.77	5.21	17.64	27.00	23.00/M	ECA-1HM100
	22	11.0	0.12	100	5	11	2.0	0.5	P5179-ND*	.18	.87	5.86	19.85	30.00	26.00/M	ECA-1HM220
	33	16.5	0.12	110	5	11	2.0	0.5	P5180-ND*	.18	.87	5.86	19.85	30.00	26.00/M	ECA-1HM330
	47	23.5	0.12	130	6.3	11.2	2.5	0.5	P5181-ND*	.25	1.21	8.12	27.51	42.00	35.00/M	ECA-1HM470
	100	50.0	0.12	250	8	11.5	3.5	0.6	P5182-ND*	.29	1.65	11.63	40.19	63.00	55.00/M	ECA-1HM101
	220	110.0	0.12	400	10	12.5	5.0	0.6	P5183-ND*	.37	2.45	17.48	62.91	98.00	91.00/M	ECA-1HM221
	330	165.0	0.12	500	10	16	5.0	0.6	P5184-ND*	.43	2.56	18.82	68.09	108.00	104.00/M	ECA-1HM331
	470	235.0	0.12	650	10	20	5.0	0.6	P5185-ND*	.52	3.50	25.69	92.91	148.00	142.00/M	ECA-1HM471
	1000	500.0	0.12	1050	12.5	25	5.0	0.6	P5186-ND*	1.03	6.12	45.90	163.20	271.00	261.00/M	ECA-1HM102
	2200	1100.0	0.14	1300	16	31.5	7.5	0.8	P5187-ND*	1.85	10.81	81.60	306.00	530.00	514.00/M	ECA-1HM222
	3300	1650.0	0.16	1500	18	35.5	7.5	0.8	P5188-ND*	2.51	14.67	110.74	415.28	720.00	698.00/M	ECA-1HM332
	10	6.3	0.11	70	5	11	2.0	0.5	P5189-ND	.17	.87	5.86	19.85	30.00	26.00/M	ECA-1JM100
	22	13.8	0.11	105	5	11	2.0	0.5	P5190-ND	.18	.87	5.86	19.85	30.00	26.00/M	ECA-1JM220
	33	20.7	0.11	130	6.3	11.2	2.5	0.5	P5191-ND	.19	1.02	7.21	24.89	39.00	34.00/M	ECA-1JM330
	47	29.6	0.11	160	6.3	11.2	2.5	0.5	P5192-ND	.21	1.11	7.81	26.98	43.00	37.00/M	ECA-1JM470
63	100	63.0	0.11	270	8	11.5	3.5	0.6	P5193-ND	.31	1.79	12.75	45.90	71.00	66.00/M	ECA-1JM101
	220	138.6	0.11	450	10	16	5.0	0.6	P5194-ND	.45	2.56	18.82	68.09	108.00	104.00/M	ECA-1JM221
	330	207.9	0.11	550	10	20	5.0	0.6	P5195-ND	.63	3.64	26.72	96.65	153.00	148.00/M	ECA-1JM331
	470	296.1	0.11	750	12.5	20	5.0	0.6	P5196-ND	.92	5.25	39.35	139.92	233.00	224.00/M	ECA-1JM471
	1000	630.0	0.11	1100	16	25	7.5	0.8	P5197-ND	1.40	8.31	62.30	221.52	368.00	354.00/M	ECA-1JM102
	2200	1386.0	0.13	1400	18	35.5	7.5	0.8	P5198-ND	2.64	15.45	116.58	437.18	758.00	734.00/M	ECA-1JM222
	0.47	3.0	0.10	10	5	11	2.0	0.5	P5199-ND	.18	.91	6.11	20.69	32.00	27.00/M	ECA-2AMR47
	1.0	3.0	0.10	20	5	11	2.0	0.5	P5305-ND	.18	.91	6.11	20.69	32.00	27.00/M	ECA-2AM010
	2.2	3.0	0.10	30	5	11	2.0	0.5	P5306-ND	.19	.91	6.11	20.69	32.00	27.00/M	ECA-2AM2R2
	3.3	3.3	0.10	40	5	11	2.0	0.5	P5307-ND	.19	.91	6.11	20.69	32.00	27.00/M	ECA-2AM3R3
	4.7	4.7	0.10	50	5	11	2.0	0.5	P5308-ND	.19	.91	6.11	20.69	32.00	27.00/M	ECA-2AM4R7
	10	10.0	0.10	70	5	11	2.0	0.5	P5309-ND	.19	.94	6.32	21.42	33.00	28.00/M	ECA-2AM100
00	22	22.0	0.10	115	6.3	11.2	2.5	0.5	P5310-ND	.21	1.11	7.81	26.98	43.00	37.00/M	ECA-2AM220
	33	33.0	0.10	145	8	11.5	3.5	0.6	P5311-ND	.38	1.99	14.03	48.45	77.00	66.00/M	ECA-2AM330
	47	47.0	0.10	180	8	11.5	3.5	0.6	P5312-ND	.32	1.89	13.48	48.51	75.00	70.00/M	ECA-2AM470
	100	100.0	0.10	350	10	16	5.0	0.6	P5313-ND	.48	2.89	21.22	76.76	122.00	117.00/M	ECA-2AM101
	220	220.0	0.10	550	12.5	20	5.0	0.6	P5314-ND	.94	5.46	40.97	145.68	242.00	233.00/M	ECA-2AM221
	330	330.0	0.10	700	12.5	25	5.0	0.6	P5315-ND	1.21	6.99	52.45	186.48	310.00	298.00/M	ECA-2AM331
	470	470.0	0.10	900	16	25	7.5	0.8	P5316-ND	1.59	9.27	69.94	262.28	455.00	441.00/M	ECA-2AM471
	1000	1000.0	0.10	1300	18	35.5	7.5	0.8	P5317-ND	2.91	17.76	134.06	502.73	871.00	845.00/M	ECA-2AM102
	1.0	19.6	0.16	36	6.3	11.2	2.5	0.5	P5318-ND	.32	1.37	9.63	33.25	53.00	46.00/M	ECA-2CM010
	2.2	31.1	0.16	53	6.3	11.2	2.5	0.5	P5319-ND	.33	1.37	9.63	33.25	53.00	46.00/M	ECA-2CM2R2
	3.3	41.6	0.16	66	6.3	11.2	2.5	0.5	P5320-ND	.29	1.23	8.75	31.50	49.00	46.00/M	ECA-2CM3R3
	4.7	55.1	0.16	78	6.3	11.2	2.5	0.5	P5321-ND	.31	1.23	8.75	31.50	49.00	46.00/M	ECA-2CM4R7
	10	103.0	0.16	105	10	12.5	5.0	0.6	P5322-ND	.42	2.30	16.40	59.04	92.00	85.00/M	ECA-2CM100
60	22	221.0	0.16	175	10	16	5.0	0.6	P5323-ND	.51	2.56	18.82	68.09	108.00	104.00/M	ECA-2CM220
	33	326.0	0.16	235	10	20	5.0	0.6	P5324-ND	.68	3.03	22.25	80.50	128.00	123.00/M	ECA-2CM330
	47	461.0	0.16	320	12.5	20	5.0	0.6	P5325-ND	.99	4.81	36.07	128.24	213.00	205.00/M	ECA-2CM470
	100	970.0	0.16	515	12.5	25	5.0	0.6	P5326-ND	1.24	6.12	45.90	163.20	271.00	261.00/M	ECA-2CM101
	220	2122.0	0.16	830	16	31.5	7.5	0.8	P5327-ND	1.79	9.65	72.86	273.23	474.00	459.00/M	ECA-2CM221
	330	3178.0	0.16	1090	18	31.5	7.5	0.8	P5328-ND	3.07	18.53	139.88	524.55	909.00	881.00/M	ECA-2CM331
	470	4522.0	0.16	1440	18	40	7.5	0.8	P5329-ND	4.16	24.33	183.60	688.50	1193.00	1157.00/M	ECA-2CM471
	1.0	25.0	0.18	34	6.3	11.2	2.5	0.5	P5330-ND	.29	1.23	8.75	31.50	49.00	46.00/M	ECA-2EM010
	2.2	43.0	0.18	50	6.3	11.2	2.5	0.5	P5331-ND	.29	1.23	8.75	31.50	49.00	46.00/M	ECA-2EM2R2
	3.3	59.5	0.18	72	8	11.5	3.5	0.6	P5332-ND	.36	1.79	12.75	45.90	71.00	66.00/M	ECA-2EM3R3
	4.7	80.5	0.18	86	8	11.5	3.5	0.6	P5333-ND	.41	1.79	12.75	45.90	71.00	66.00/M	ECA-2EM4R7
50	10	160.0	0.18	110	10	16	5.0	0.6	P5334-ND	.51	2.56	18.82	68.09	108.00	104.00/M	ECA-2EM100
	22	340.0	0.18	180	10	20	5.0	0.6	P5335-ND	.81	3.36	24.65	89.17	142.00	136.00/M	ECA-2EM220
	33	505.0	0.18	250	12.5	20	5.0	0.6	P5336-ND	1.00	4.81	36.07	128.24	213.00	205.00/M	ECA-2EM330
	47	715.0	0.18	350	12.5	25	5.0	0.6	P5337-ND	1.21	6.12	45.90	163.20	271.00	261.00/M	ECA-2EM470
	100	1510.0	0.18	530	16	31.5	7.5	0.8	P5338-ND	1.91	9.65	72.86	273.23	474.00	459.00/M	ECA-2EM101
	220	3310.0	0.18	930	18	40	7.5	0.8	P5339-ND	4.15	24.33	183.60	688.50	1193.00	1157.00/M	ECA-2EM221
	1.0	37.0	0.20	37	8	11.5	3.5	0.6	P5340-ND	.44	1.94	13.85	49.86	78.00	72.00/M	ECA-2WM010
	2.2	69.4	0.20	44	10	12.5	5.0	0.6	P5341-ND	.52	2.65	18.95	68.22	106.00	99.00/M	ECA-2WM2R2
	3.3	99.1	0.20	60	10	16	5.0	0.6	P5342-ND	.59	2.80	20.54	74.29	118.00	114.00/M	ECA-2WM3R3
50	4.7	136.0	0.20	79	10	20	5.0	0.6	P5343-ND	.85	3.50	25.69	92.91	148.00	142.00/M	ECA-2WM4R7
	10	280.0	0.20	130	12.5	20	5.0	0.6	P5344-ND	1.18	5.46	40.97	145.68	242.00	233.00/M	ECA-2WM100
	22	604.0	0.20	210	16	25	7.5	0.8	P5345-ND	1.63	8.50	64.12	240.45	417.00	404.00/M	ECA-2WM220
	33	901.0	0.20	285	16	31.5	7.5	0.8	P5346-ND	1.95	10.81	81.60	306.00	530.00	514.00/M	ECA-2WM330

KIT-ND *Digi-Key® M Series Capacitors Kit* 10 each of values denoted. 170 total pieces. Included notebook style storage case and bin storage guide..... $69.95

Panasonic NHG Series Radial Lead Aluminum Electrolytic Capacitors

Panasonic NHG Series Cross References:
Nippon Chemicon: KMG; **Nichicon:** VZ;
Elna: RJ4; **Rubycon:** YXA



FEATURES:
- Compact size (same case size with series M)
- Life: 1000 ~ 2000 hours at +105°C

SPECIFICATIONS:

Operating Temperature Range	-55°C to +105°C	-25°C to +105°C
Rated Working Voltage Range	6.3 to 100 VDC	160 to 450 VDC
Nominal Capacitance Range	0.1 to 22000 µF	1.0 to 330 µF

Capacitance Tolerance: ±20% (120 Hz, +20°C)

Leakage Current	I ≤ 0.01 CV µA or 3µA, whichever is greater after 2 minutes application of rated working voltage at +20°C.	I ≤ 0.06 CV + 10µA after 2 minutes application of rated working voltage at +20°C.

tan δ: (at 120 Hz, +20°C)

W.V.	6.3	10	16	25	35	50	63	100	160	250	450
tan δ max.	0.28	0.24	0.20	0.16	0.14	0.12	0.10	0.08	0.15	0.15	0.24

For capacitance value > 1000 µF, add 0.02 per every 1000 µF.

Ripple Current: 120 Hz, +105°C

W.V. (V.DC)	Cap (µF)	Frequency (Hz) 60	120	1k	10k	100k
6.3 ~ 100	~ 33	0.75	1	1.55	1.80	2.00
	47 ~ 470	0.80	1	1.35	1.50	1.50
	1000 ~	0.85	1	1.10	1.15	1.15
160 ~ 450	1.0 ~ 330	0.80	1	1.35	1.50	1.50

Endurance:

Test Conditions		Post Test Requirements at +20°C	
Duration	2000 Hours*	**Leakage Current**	≤ initial specified value
Ambient Temperature	+105°C	**Capacitance Change**	±20% of initial measured va
Applied Voltage	Rated DC Working Voltage	**tan δ**	≤ 200% initial specified val

* 1000 Hours for ≤ Ø8mm products.

Shelf Life:

Test Conditions		Post Test Requirements at +20°C	
Duration	1000 Hours	**Leakage Current**	≤ initial specified value
Ambient Temperature	+105°C	**Capacitance Change**	±20% of initial measured va
Applied Voltage	—	**tan δ**	≤ 200% initial specified val

WV (VDC)	Cap. µF	D.C.L. (+20°C) (µA) max.	tan δ max.	Ripple Current (mA) rms	Dimensions (mm) øD	L	P	ød	Digi-Key Part No.	Pricing 1	10	100	500	1,000	5,000	Panasonic Part No.
6.3	100	6.3	0.28	91	5	11	2.0	0.5	P5505-ND	.24	1.14	7.69	26.04	40.00	33.00/M	ECA-0JHG101
	220	13.8	0.28	140	5	11	2.0	0.5	P5506-ND	.19	.97	6.82	23.56	37.00	32.00/M	ECA-0JHG221
	330	20.7	0.28	190	6.3	11.2	2.5	0.5	P5507-ND	.30	1.53	10.81	37.34	59.00	51.00/M	ECA-0JHG331
	470	29.6	0.28	230	6.3	11.2	2.5	0.5	P5508-ND	.24	1.38	9.83	35.37	55.00	51.00/M	ECA-0JHG471
	1000	63.0	0.28	380	8	11.5	3.5	0.6	P5509-ND	.38	2.24	16.03	57.69	90.00	83.00/M	ECA-0JHG102
	2200	138.6	0.30	710	10	16	5.0	0.6	P5510-ND	.63	3.54	26.01	94.10	149.00	144.00/M	ECA-0JHG222
	3300	207.9	0.32	840	10	20	5.0	0.6	P5511-ND	.82	4.66	34.24	123.85	197.00	189.00/M	ECA-0JHG332
	4700	296.1	0.34	1090	12.5	20	5.0	0.6	P5512-ND	.99	5.68	42.62	151.52	252.00	242.00/M	ECA-0JHG472
	6800	428.4	0.38	1350	12.5	25	5.0	0.6	P5513-ND	1.27	7.21	54.09	192.32	320.00	308.00/M	ECA-0JHG682
	10000	630.0	0.46	1650	16	25	7.5	0.8	P5514-ND	1.61	9.27	69.94	262.28	455.00	441.00/M	ECA-0JHG103
	15000	945.0	0.56	2010	16	31.5	7.5	0.8	P5515-ND	2.14	12.36	93.26	349.73	606.00	588.00/M	ECA-0JHG153
	22000	1386.0	0.70	2350	18	35.5	7.5	0.8	P5516-ND	3.02	17.38	131.14	491.78	852.00	826.00/M	ECA-0JHG223
10	100	10.0	0.24	110	5	11	2.0	0.5	P5517-ND	.18	.97	6.82	23.56	37.00	32.00/M	ECA-1AHG101
	220	22.0	0.24	170	6.3	11.2	2.5	0.5	P5518-ND	.30	1.53	10.81	37.34	59.00	51.00/M	ECA-1AHG221
	330	33.0	0.24	200	6.3	11.2	2.5	0.5	P5519-ND	.25	1.38	9.83	35.37	55.00	51.00/M	ECA-1AHG331
	470	47.0	0.24	250	8	11.5	3.5	0.6	P5520-ND	.35	2.04	14.58	52.47	82.00	76.00/M	ECA-1AHG471
	1000	100.0	0.24	460	10	12.5	5.0	0.6	P5521-ND	.41	2.80	20.54	74.29	118.00	114.00/M	ECA-1AHG102
	2200	220.0	0.26	760	10	20	5.0	0.6	P5522-ND	.79	4.43	32.52	117.64	187.00	180.00/M	ECA-1AHG222
	3300	330.0	0.28	1000	12.5	20	5.0	0.6	P5523-ND	.96	5.68	42.62	151.52	252.00	242.00/M	ECA-1AHG332
	4700	470.0	0.30	1260	12.5	25	5.0	0.6	P5524-ND	1.30	7.65	57.38	204.00	339.00	326.00/M	ECA-1AHG472
	6800	680.0	0.34	1570	16	25	7.5	0.8	P5525-ND	1.84	10.49	78.68	279.76	465.00	448.00/M	ECA-1AHG682
	10000	1000.0	0.42	1890	16	31.5	7.5	0.8	P5526-ND	2.15	12.36	93.26	349.73	606.00	588.00/M	ECA-1AHG103
	15000	1500.0	0.52	2180	18	35.5	7.5	0.8	P5527-ND	3.02	17.38	131.14	491.78	852.00	826.00/M	ECA-1AHG153
16	47	7.5	0.20	77	5	11	2.0	0.5	P5528-ND	.24	1.14	7.69	26.04	40.00	33.00/M	ECA-1CHG470
	100	16.0	0.20	110	5	11	2.0	0.5	P5529-ND	.19	.97	6.82	23.56	37.00	32.00/M	ECA-1CHG101
	220	35.2	0.20	180	6.3	11.2	2.5	0.5	P5530-ND	.25	1.38	9.83	35.37	55.00	51.00/M	ECA-1CHG221
	330	52.8	0.20	260	8	11.5	3.5	0.6	P5531-ND	.37	2.04	14.58	52.47	82.00	76.00/M	ECA-1CHG331
	470	75.2	0.20	310	8	11.5	3.5	0.6	P5532-ND	.40	2.24	16.03	57.69	90.00	83.00/M	ECA-1CHG471
	1000	160.0	0.20	560	10	16	5.0	0.6	P5533-ND	.63	3.54	26.01	94.10	149.00	144.00/M	ECA-1CHG102
	2200	352.0	0.22	920	12.5	20	5.0	0.6	P5534-ND	.99	5.68	42.62	151.52	252.00	242.00/M	ECA-1CHG222
	3300	528.0	0.24	1170	12.5	25	5.0	0.6	P5535-ND	1.35	7.65	57.38	204.00	339.00	326.00/M	ECA-1CHG332
	4700	752.0	0.26	1480	16	25	7.5	0.8	P5536-ND	1.61	9.27	69.94	262.28	455.00	441.00/M	ECA-1CHG472
	6800	1088.0	0.30	1780	16	31.5	7.5	0.8	P5537-ND	2.07	12.36	93.26	349.73	606.00	588.00/M	ECA-1CHG682
	10000	1600.0	0.38	2060	18	35.5	7.5	0.8	P5538-ND	3.02	17.38	131.14	491.78	852.00	826.00/M	ECA-1CHG103
25	47	11.7	0.16	91	5	11	2.0	0.5	P5539-ND	.18	.97	6.82	23.56	37.00	32.00/M	ECA-1EHG470
	100	25.0	0.16	130	6.3	11.2	2.5	0.5	P5540-ND	.28	1.53	10.81	37.34	59.00	51.00/M	ECA-1EHG101
	220	55.0	0.16	230	8	11.5	3.5	0.6	P5541-ND	.35	2.04	14.58	52.47	82.00	76.00/M	ECA-1EHG221
	330	82.5	0.16	310	8	11.5	3.5	0.6	P5542-ND	.42	2.35	16.75	60.30	94.00	87.00/M	ECA-1EHG331
	470	117.5	0.16	380	10	12.5	5.0	0.6	P5543-ND	.49	2.94	21.57	78.03	124.00	119.00/M	ECA-1EHG471
	1000	250.0	0.16	680	10	20	5.0	0.6	P5544-ND	.82	4.66	34.24	123.85	197.00	189.00/M	ECA-1EHG102
	2200	550.0	0.18	1090	12.5	25	5.0	0.6	P5545-ND	1.29	7.65	57.38	204.00	339.00	326.00/M	ECA-1EHG222
	3300	825.0	0.20	1400	16	25	7.5	0.8	P5546-ND	1.65	9.85	74.32	278.70	483.00	468.00/M	ECA-1EHG332
	4700	1175.0	0.22	1750	16	31.5	7.5	0.8	P5547-ND	1.84	12.36	93.26	349.73	606.00	588.00/M	ECA-1EHG472
	6800	1700.0	0.26	2040	18	35.5	7.5	0.8	P5548-ND	3.15	18.15	136.98	513.68	890.00	863.00/M	ECA-1EHG682
35	33	11.5	0.14	75	5	11	2.0	0.5	P5549-ND	.18	.97	6.82	23.56	37.00	32.00/M	ECA-1VHG330
	47	16.4	0.14	90	5	11	2.0	0.5	P5550-ND	.19	.97	6.82	23.56	37.00	32.00/M	ECA-1VHG470
	100	35.0	0.14	150	6.3	11.2	2.5	0.5	P5551-ND	.25	1.38	9.83	35.37	55.00	51.00/M	ECA-1VHG101
	220	77.0	0.14	270	8	11.5	3.5	0.6	P5552-ND	.42	2.35	16.75	60.30	94.00	87.00/M	ECA-1VHG221
	330	115.5	0.14	350	10	12.5	5.0	0.6	P5553-ND	.52	2.94	21.57	78.03	124.00	119.00/M	ECA-1VHG331
	470	164.5	0.14	460	10	16	5.0	0.6	P5554-ND	.56	3.54	26.01	94.10	149.00	144.00/M	ECA-1VHG471
	1000	350.0	0.14	810	12.5	20	5.0	0.6	P5555-ND	1.03	5.90	44.26	157.36	262.00	252.00/M	ECA-1VHG102
	2200	770.0	0.16	1260	16	25	7.5	0.8	P5556-ND	1.71	9.85	74.32	278.70	483.00	468.00/M	ECA-1VHG222
	3300	1155.0	0.18	1610	16	31.5	7.5	0.8	P5557-ND	2.15	12.36	93.26	349.73	606.00	588.00/M	ECA-1VHG332
	4700	1645.0	0.20	1910	18	35.5	7.5	0.8	P5558-ND	3.15	18.15	136.98	513.68	890.00	863.00/M	ECA-1VHG472
50	0.1	3.0	0.12	1.1	5	11	2.0	0.5	P5559-ND*	.24	1.14	7.69	26.04	40.00	33.00/M	ECA-1HHG0R1
	0.22	3.0	0.12	2.3	5	11	2.0	0.5	P5560-ND*	.24	1.14	7.69	26.04	40.00	33.00/M	ECA-1HHGR22
	0.33	3.0	0.12	3.5	5	11	2.0	0.5	P5561-ND*	.24	1.14	7.69	26.04	40.00	33.00/M	ECA-1HHGR33
	0.47	3.0	0.12	5	5	11	2.0	0.5	P5562-ND*	.24	1.14	7.69	26.04	40.00	33.00/M	ECA-1HHGR47
	1.0	3.0	0.12	10	5	11	2.0	0.5	P5563-ND*	.24	1.14	7.69	26.04	40.00	33.00/M	ECA-1HHG010
	2.2	3.0	0.12	18	5	11	2.0	0.5	P5564-ND*	.24	1.14	7.69	26.04	40.00	33.00/M	ECA-1HHG2R2
	3.3	3.0	0.12	22	5	11	2.0	0.5	P5565-ND*	.24	1.14	7.69	26.04	40.00	33.00/M	ECA-1HHG3R3
	4.7	3.0	0.12	26	5	11	2.0	0.5	P5566-ND*	.24	1.14	7.69	26.04	40.00	33.00/M	ECA-1HHG4R7
	10	5.0	0.12	39	5	11	2.0	0.5	P5567-ND*	.22	1.14	7.69	26.04	40.00	33.00/M	ECA-1HHG100
	22	11.0	0.12	65	5	11	2.0	0.5	P5568-ND*	.18	.97	6.82	23.56	37.00	32.00/M	ECA-1HHG220
	33	16.5	0.12	90	5	11	2.0	0.5	P5569-ND*	.19	.97	6.82	23.56	37.00	32.00/M	ECA-1HHG330
	47	23.5	0.12	110	6.3	11.2	2.5	0.5	P5570-ND*	.29	1.53	10.81	37.34	59.00	51.00/M	ECA-1HHG470
	100	50.0	0.12	180	8	11.5	3.5	0.6	P5571-ND*	.39	2.14	15.30	55.08	86.00	80.00/M	ECA-1HHG101
	220	110.0	0.12	330	10	12.5	5.0	0.6	P5572-ND*	.50	2.94	21.57	78.03	124.00	119.00/M	ECA-1HHG221
	330	165.0	0.12	410	10	16	5.0	0.6	P5573-ND*	.57	3.54	26.01	94.10	149.00	144.00/M	ECA-1HHG331
	470	235.0	0.12	530	10	20	5.0	0.6	P5574-ND*	.70	4.66	34.24	123.85	197.00	189.00/M	ECA-1HHG471
	1000	500.0	0.12	950	12.5	25	5.0	0.8	P5575-ND*	1.19	7.65	57.38	204.00	339.00	326.00/M	ECA-1HHG102
	2200	1100.0	0.14	1470	16	31.5	7.5	0.8	P5576-ND*	1.74	12.36	93.26	349.73	606.00	588.00/M	ECA-1HHG222
	3300	1650.0	0.16	1770	18	35.5	7.5	0.8	P5577-ND*	3.04	18.15	136.98	513.68	890.00	863.00/M	ECA-1HHG332

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Panasonic NHG Series Radial Lead Aluminum Electrolytic Capacitors (Cont.)

WV (VDC)	Cap. µF	D.C.L. (±20°C) (µA) max.	tan δ max.	Ripple Current (mA) rms	Dimensions (mm) øD	L	P	ød	Digi-Key Part No.	Pricing 1	10	100	500	1,000	5,000	Panasonic Part No.
	10	6.3	0.10	46	5	11	2.0	0.5	P5578-ND	.20	1.02	7.21	24.89	39.00	34.00/M	ECA-1JHG100
	22	13.8	0.10	71	5	11	2.0	0.5	P5579-ND	.20	1.02	7.21	24.89	39.00	34.00/M	ECA-1JHG220
	33	20.7	0.10	100	6.3	11.2	2.5	0.5	P5580-ND	.31	1.59	11.22	38.76	61.00	53.00/M	ECA-1JHG330
	47	29.6	0.10	120	6.3	11.2	2.5	0.5	P5581-ND	.25	1.43	10.20	36.72	57.00	53.00/M	ECA-1JHG470
63	100	63.0	0.10	215	10	12.5	5.0	0.6	P5582-ND	.48	3.21	22.95	82.62	129.00	119.00/M	ECA-1JHG101
	220	138.6	0.10	335	10	16	5.0	0.6	P5583-ND	.69	3.87	28.41	102.77	163.00	157.00/M	ECA-1JHG221
	330	207.9	0.10	510	10	20	5.0	0.6	P5584-ND	.91	5.13	37.67	136.26	216.00	208.00/M	ECA-1JHG331
	470	296.1	0.10	640	12.5	20	5.0	0.6	P5585-ND	1.15	6.56	49.19	174.88	291.00	280.00/M	ECA-1JHG471
	1000	630.0	0.10	930	16	25	7.5	0.8	P5586-ND	1.78	10.23	77.22	289.58	502.00	486.00/M	ECA-1JHG102
	2200	1386.0	0.12	1610	18	35.5	7.5	0.8	P5587-ND	3.49	20.08	151.54	568.28	985.00	955.00/M	ECA-1JHG222
	0.47	3.0	0.08	9	5	11	2.0	0.5	P5588-ND	.20	1.02	7.21	24.89	39.00	34.00/M	ECA-2AHGR47
	1.0	3.0	0.08	14	5	11	2.0	0.5	P5589-ND	.20	1.02	7.21	24.89	39.00	34.00/M	ECA-2AHG010
	2.2	3.0	0.08	21	5	11	2.0	0.5	P5590-ND	.20	1.02	7.21	24.89	39.00	34.00/M	ECA-2AHG2R2
	3.3	3.3	0.08	31	5	11	2.0	0.5	P5591-ND	.20	1.02	7.21	24.89	39.00	34.00/M	ECA-2AHG3R3
	4.7	4.7	0.08	38	5	11	2.0	0.5	P5592-ND	.20	1.02	7.21	24.89	39.00	34.00/M	ECA-2AHG4R7
	10	10.0	0.08	54	6.3	11.2	2.5	0.5	P5593-ND	.30	1.59	11.22	38.76	61.00	53.00/M	ECA-2AHG100
	22	22.0	0.08	93	6.3	11.2	2.5	0.5	P5594-ND	.25	1.43	10.20	36.72	57.00	53.00/M	ECA-2AHG220
100	33	33.0	0.08	130	8	11.5	3.5	0.6	P5595-ND	.44	2.45	17.48	62.91	98.00	91.00/M	ECA-2AHG330
	47	47.0	0.08	165	10	12.5	5.0	0.6	P5596-ND	.53	2.96	21.13	76.05	118.00	110.00/M	ECA-2AHG470
	100	100.0	0.08	265	10	20	5.0	0.6	P5597-ND	.91	5.13	37.67	136.26	216.00	208.00/M	ECA-2AHG101
	220	220.0	0.08	440	12.5	25	5.0	0.6	P5598-ND	1.36	7.78	58.37	207.52	345.00	332.00/M	ECA-2AHG221
	330	330.0	0.08	540	16	25	7.5	0.8	P5599-ND	1.92	10.93	81.97	291.44	485.00	466.00/M	ECA-2AHG331
	470	470.0	0.08	715	16	25	7.5	0.8	P5850-ND	2.02	11.58	87.42	327.83	568.00	551.00/M	ECA-2AHG471
	1000	1000.0	0.08	985	18	35.5	7.5	0.8	P5851-ND	3.49	20.08	151.54	568.28	985.00	955.00/M	ECA-2AHG102
	1.0	19.6	0.15	17	6.3	11.2	2.5	0.5	P5852-ND	.34	1.53	10.93	39.33	61.00	57.00/M	ECA-2CHG010
	2.2	31.1	0.15	25	6.3	11.2	2.5	0.5	P5853-ND	.38	1.53	10.93	39.33	61.00	57.00/M	ECA-2CHG2R2
	3.3	41.6	0.15	36	6.3	11.2	2.5	0.5	P5854-ND	.41	1.53	10.93	39.33	61.00	57.00/M	ECA-2CHG3R3
	4.7	55.1	0.15	43	6.3	11.2	2.5	0.5	P5855-ND	.45	1.53	10.93	39.33	61.00	57.00/M	ECA-2CHG4R7
	10	106.0	0.15	70	10	12.5	5.0	0.6	P5856-ND	.53	2.70	19.86	71.83	114.00	110.00/M	ECA-2CHG100
160	22	221.0	0.15	130	10	20	5.0	0.6	P5857-ND	.71	3.64	26.72	96.65	153.00	148.00/M	ECA-2CHG220
	33	326.0	0.15	180	10	20	5.0	0.6	P5858-ND	.82	3.41	25.58	90.96	151.00	146.00/M	ECA-2CHG330
	47	461.0	0.15	220	12.5	20	5.0	0.6	P5859-ND	1.02	4.81	36.07	128.24	213.00	205.00/M	ECA-2CHG470
	100	970.0	0.15	335	16	25	7.5	0.8	P5860-ND	1.50	7.87	59.02	209.84	349.00	336.00/M	ECA-2CHG101
	220	2122.0	0.15	540	16	31.5	7.5	0.8	P5861-ND	2.28	10.81	81.60	306.00	530.00	514.00/M	ECA-2CHG221
	330	3178.0	0.15	705	18	31.5	7.5	0.8	P5862-ND	3.26	19.31	145.72	546.45	947.00	918.00/M	ECA-2CHG331
	1.0	25.0	0.15	17	6.3	11.2	2.5	0.5	P5863-ND	.40	1.53	10.93	39.33	61.00	57.00/M	ECA-2EHG010
	2.2	43.0	0.15	29	6.3	11.2	2.5	0.5	P5864-ND	.42	1.53	10.93	39.33	61.00	57.00/M	ECA-2EHG2R2
	3.3	59.5	0.15	42	8	11.5	3.5	0.6	P5865-ND	.45	1.87	13.70	49.56	79.00	76.00/M	ECA-2EHG3R3
	4.7	80.5	0.15	50	8	11.5	3.5	0.6	P5866-ND	.52	2.10	15.42	55.76	89.00	85.00/M	ECA-2EHG4R7
250	10	160.0	0.15	88	10	16	5.0	0.6	P5867-ND	.78	3.54	26.01	94.10	149.00	144.00/M	ECA-2EHG100
	22	340.0	0.15	155	12.5	20	5.0	0.6	P5868-ND	.94	5.03	37.71	134.08	223.00	215.00/M	ECA-2EHG220
	33	505.0	0.15	190	12.5	20	5.0	0.6	P5869-ND	1.12	5.46	40.97	145.68	242.00	233.00/M	ECA-2EHG330
	47	715.0	0.15	230	12.5	25	5.0	0.6	P5870-ND	1.45	6.99	52.45	186.48	310.00	298.00/M	ECA-2EHG470
	100	1510.0	0.15	365	16	31.5	7.5	0.8	P5871-ND	2.22	10.81	81.60	306.00	530.00	514.00/M	ECA-2EHG101
	1.0	37.0	0.20	18	8	11.5	3.5	0.6	P5872-ND	.56	2.33	17.13	61.97	98.00	95.00/M	ECA-2WHG010
	2.2	69.4	0.20	29	10	12.5	5.0	0.6	P5873-ND	.60	2.80	20.54	74.29	118.00	114.00/M	ECA-2WHG2R2
	3.3	99.1	0.20	41	10	16	5.0	0.6	P5874-ND	.84	3.64	26.72	96.65	153.00	148.00/M	ECA-2WHG3R3
450	4.7	136.0	0.20	49	10	20	5.0	0.6	P5875-ND	.88	3.72	27.88	99.12	165.00	159.00/M	ECA-2WHG4R7
	10	280.0	0.20	75	12.5	20	5.0	0.6	P5876-ND	1.50	6.56	49.19	174.88	291.00	280.00/M	ECA-2WHG100
	22	604.0	0.20	115	16	25	7.5	0.8	P5877-ND	2.00	9.27	69.94	262.28	455.00	441.00/M	ECA-2WHG220
	33	901.0	0.20	155	16	31.5	7.5	0.8	P5878-ND	2.45	11.58	87.42	327.83	568.00	551.00/M	ECA-2WHG330

NHG-KIT-ND ***Digi-Key® NHG Series Capacitors Kit*** 10 each of values denoted. 180 total pieces. Included notebook style storage case and bin storage guide **$69.95**

E

Panasonic® Z Series Miniature Aluminum Electrolytic Capacitors

±20%, Low Leakage, Low Impedance

SPECIFICATIONS:

Operating Temperature: -40°C to +85°C • **Rated Working Voltage:** 6.3 to 100VDC • **Rated Capacitance:** 0.1 to 2200µF • **Capacitance Tolerance:** ±20% • **Leakage Current:** I = 0.002CV + 1 (mA) max.; Where, I: DC leakage current (µA) C: rated capacitance (µF), V: DC rated working voltage (V). Leakage current is measured after 2-minute application of the rated DC working voltage. • **Surge Voltage:** The listed surge voltage is applied to the capacitor in series with 1,000 ohms resistor at a cycle of 0.5 minute "ON" and 4.5 minute "OFF" repeating 1,000 times at 25°C ±10°C. After the test, the capacitor should meet the following limits:

Working Voltage	Surge Voltage
10 V DC	13 V DC

Capacitance change	Within ±10% of the initial measured value
tan ∂	Less than 150% of the initial specified value
DC leakage current	Less than the initial specified value

• **tan ∂. (Dissipation Factor) Max.**

Working Voltage	tan ∂	D.F.
10V DC	0.17	17

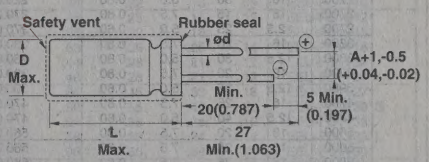
0.06 for 1µF or less.

• **Low Temperature Stability:** Maximum impedance ratio against +20°C at 120Hz

Working Voltage	-25°C to +20°C	-40°C to +20°C
10V	2	4

• **Lead Life:** After 2,000 hour application of DC working voltage at +85°C with specified RMS ripple current, the measurements should meet the following requirements:

Capacitance change	Within ±20% of the initial measured value
tan ∂	Less than 200% of the initial specified value
DC leakage current	Less than the initial specified value



PANASONIC Z CROSS REFERENCES

IC: RLR
Sprague: 30D
UCC: SX

Not recommended for new designs.

Rating WV DC	Rating Cap. µF	Dimensions mm (inch) D	L	A	d	Max. RMS Ripple Current (mA) @ 120 Hz, 85°C	Max. Leakage Current µA	Digi-Key Part No.	Price Each 1	10	100	1,000	Panasonic Part No.
10	2200	16.0 (.630)	31.5 (1.299)	7.5 (.295)	0.8 (.032)	850	45.0	P6614-ND	1.43	1.08	.81	.48	ECE-A10Z2200

FEATURES:
• Low impedance • Long life: 1000 ~ 5000 hours at +105°C

SPECIFICATIONS:
• **Operating Temperature Range:** -55 to +105°C • **Rated Working Voltage Range:** 6.3 to 100V DC • **Nominal Capacitance Range:** 1.0 to 15000µF • **Capacitance Tolerance:** ±20% (120Hz, +20°C) • **Leakage Current:** I ≤ 0.01CV or 3 (µA) whichever is greater measured after 2 minutes application of rated working voltage at +20°C
• **tan** δ (120 Hz, +20°C)

Working volt. (V)	6.3	10	16	25	35	50	63	100
tan δ max.	0.22	0.19	0.16	0.14	0.12	0.10	0.08	0.07

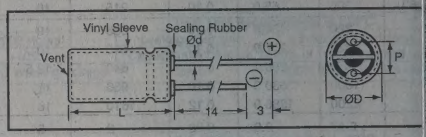
For capacitance value > 1000µF, add 0.02 per every 1000µF.

• **Impedance at High Frequency:** Refer to standard product table (100kHz, +20°C)
• **Ripple Current:** Refer to standard product table (100kHz, +105°C)

Endurance:
Test Conditions — Duration: 1000 hours (for Ø4 ~ Ø6.3mm), 2000 hours (for Ø8mm), 3000 hours (for Ø10mm), 5000 hours (for Ø12.5mm~) • **Ambient Temperature:** +105°C ±2°C • **Applied Voltage:** DC voltage with maximum permissible ripple current specified at +105°C (the sum of the DC voltage and super-imposed peak AC voltage for maximum permissible ripple current should be equal to rated DC working voltage.)
Post Test Requirements at +20°C — Leakage Current: ≤ Initial specified value • **Capacitance change:** ±20% of initial measured value • **tan** δ: ≤ 200% of initial specified value
Shelf Life:
Test Conditions — Duration: 1000 hours • **Ambient Temperature:** +105°C ±2°C • **Applied Voltage:** (none)
Post Test Requirements at +20°C — Leakage Current: ≤ Initial specified value • **Capacitance change:** ±20% of initial measured value • **tan** δ: ≤ 200% of initial specified value
• **Body Color:** Black Blue • **Marking Color:** Gold

Frequency Correction Factor for Ripple Current

W.V. (V DC)	Frequency (Hz) / Cap. (µF)	60	120	1K	10K	100K
6.3 ~ 100	1.0 ~ 330	0.55	0.65	0.85	0.90	1.0
	390 ~ 1000	0.70	0.75	0.90	0.95	1.0
	1200 ~ 2200	0.75	0.80	0.90	0.95	1.0
	2700 ~ 15000	0.80	0.85	0.95	1.00	1.0



W.V. (V)	Cap. (µF)	Dimensions (mm) ØD	L	P	Ød	Leakage Current (+20°C) (2 min.) (µA) Max	Impedance (100kHz) (+20°C) (Ω) Max	Ripple Current (+105°C) (mA) rms max.	Life Time (hours)	Digi-Key Part No.	Price Each 1	10	100	1,000	Panasonic Part No.
	68	4	11	1.5	0.45	4.28	1.30	120	1000	P12700-ND	.28	.19	.14	.08	EEU-FC0J680
	100	5	11	2.0	0.50	6.3	0.80	175	1000	P10195-ND	.34	.14	.10	.06	EEU-FC0J101
	150	5	15	2.0	0.50	9.4	0.50	235	1000	P10196-ND	.30	.21	.15	.08	EEU-FC0J151
	220	6.3	11.2	2.0	0.50	13.86	0.350	290	1000	P12701-ND	.34	.17	.13	.07	EEU-FC0J221
	330	6.3	11.2	2.5	0.50	20.7	0.35	290	1000	P10197-ND	.28	.16	.11	.07	EEU-FC0J331S
	330	6.3	15	2.5	0.50	20.79	0.250	400	1000	P12702-ND	.39	.26	.18	.10	EEU-FC0J331
	390	8	11.5	3.5	0.60	24.57	0.117	555	2000	P12703-ND	.48	.25	.18	.10	EEU-FC0J391
	470	8	11.5	3.5	0.60	29.61	0.117	555	2000	P12704-ND	.48	.25	.18	.10	EEU-FC0J471
	560	8	11.5	3.5	0.60	35.28	0.117	555	2000	P12705-ND	.48	.25	.18	.10	EEU-FC0J561
	820	10	12.5	5.0	0.60	51.66	0.090	755	3000	P12706-ND	.63	.35	.25	.14	EEU-FC0J821
	820	8	15	3.5	0.60	51.6	0.085	730	2000	P10198-ND	.48	.28	.21	.12	EEU-FC0J821L
	1000	10	12.5	5.0	0.60	63.0	0.090	755	3000	P10199-ND	.47	.28	.21	.12	EEU-FC0J102
	1200	10	16	5.0	0.60	75.6	0.068	1050	3000	P10201-ND	.61	.38	.28	.16	EEU-FC0J122
	1200	8	20	3.5	0.60	75.6	0.065	995	2000	P10200-ND	.53	.33	.24	.14	EEU-FC0J122L
	1500	12.5	15	5.0	0.60	94.5	0.065	1205	5000	P10203-ND	.80	.55	.40	.23	EEU-FC0J152S
	1500	10	20	5.0	0.60	94.5	0.052	1220	3000	P10202-ND	.73	.45	.33	.19	EEU-FC0J152
	1800	10	25	5.0	0.60	113.4	0.045	1440	3000	P12707-ND	1.07	.62	.44	.24	EEU-FC0J182
	2200	16	15	7.5	0.80	138.6	0.043	1690	5000	P10205-ND	1.05	.73	.55	.32	EEU-FC0J222S
	2200	10	25	5.0	0.60	138.6	0.045	1440	3000	P10204-ND	.80	.51	.37	.22	EEU-FC0J222
6.3	2700	16	15	7.5	0.80	170.1	0.043	1690	5000	P11175-ND	1.51	.94	.67	.37	EEU-FC0J272S
	2700	12.5	20	5.0	0.60	170.1	0.038	1655	5000	P12709-ND	1.30	.77	.55	.30	EEU-FC0J272
	2700	10	30	5.0	0.60	170.1	0.035	1815	3000	P12708-ND	1.20	.76	.54	.30	EEU-FC0J272L
	3300	18	15	7.5	0.80	207.9	0.038	2000	5000	P10207-ND	1.39	.98	.74	.44	EEU-FC0J332S
	3300	12.5	20	5.0	0.60	207.9	0.038	1655	5000	P10206-ND	.90	.59	.45	.27	EEU-FC0J332
	3900	12.5	25	5.0	0.60	245.7	0.030	1945	5000	P10208-ND	1.24	.75	.56	.33	EEU-FC0J392
	4700	16	20	7.5	0.80	296.1	0.029	2205	5000	P10210-ND	1.41	.92	.69	.41	EEU-FC0J472S
	4700	12.5	30	5.0	0.80	296.1	0.025	2310	5000	P10209-ND	1.26	.77	.58	.34	EEU-FC0J472
	5600	16	20	7.5	0.80	352.8	0.029	2205	5000	P11176-ND	2.03	1.20	.85	.46	EEU-FC0J562
	5600	12.5	35	5.0	0.80	352.8	0.022	2510	5000	P10211-ND	1.39	1.00	.75	.45	EEU-FC0J562L
	6800	18	20	7.5	0.80	428.4	0.028	2490	5000	P10214-ND	1.61	1.11	.84	.54	EEU-FC0J682S
	6800	16	25	7.5	0.80	428.4	0.022	2555	5000	P10213-ND	1.66	1.10	.82	.49	EEU-FC0J682
	6800	12.5	40	5.0	0.80	428.4	0.018	2655	5000	P10212-ND	1.59	1.15	.86	.51	EEU-FC0J682L
	8200	16	31.5	7.5	0.80	516.6	0.018	3010	5000	P11177-ND	3.23	1.82	1.29	.70	EEU-FC0J822
	10000	18	25	7.5	0.80	630.0	0.020	2740	5000	P10216-ND	2.04	1.39	1.05	.69	EEU-FC0J103S
	10000	16	35.5	7.5	0.80	630.0	0.016	3150	5000	P10215-ND	1.99	1.42	1.07	.70	EEU-FC0J103
	12000	18	31.5	7.5	0.80	756.0	0.016	3635	5000	P11178-ND	3.71	2.37	1.67	.91	EEU-FC0J123
	12000	16	40	7.5	0.80	756.0	0.015	3360	5000	P11179-ND	3.76	2.30	1.62	.89	EEU-FC0J123L
	15000	18	35.5	7.5	0.80	945.0	0.015	3680	5000	P10217-ND	2.71	1.74	1.32	.86	EEU-FC0J153
	47	4	11	1.5	0.45	4.7	1.30	120	1000	P11180-ND	.28	.19	.14	.08	EEU-FC1A470
	82	5	11	2.0	0.50	8.2	0.80	175	1000	P10218-ND	.34	.14	.10	.06	EEU-FC1A820
	100	5	11	2.0	0.50	10.0	0.80	175	1000	P11181-ND	.34	.14	.10	.06	EEU-FC1A101S
	100	5	15	2.0	0.50	10.0	0.50	235	1000	P10219-ND	.30	.21	.15	.08	EEU-FC1A101
	180	6.3	11.2	2.5	0.50	18.0	0.35	290	1000	P11182-ND	.34	.17	.13	.07	EEU-FC1A181
	220	6.3	11.2	2.5	0.50	22.0	0.35	290	1000	P10220-ND	.28	.16	.11	.07	EEU-FC1A221S
	220	6.3	15	2.5	0.50	22.0	0.25	400	1000	P11183-ND	.39	.26	.18	.10	EEU-FC1A221
	330	8	11.5	3.5	0.60	33.0	0.117	555	2000	P11184-ND	.48	.25	.18	.10	EEU-FC1A331
	390	8	11.5	3.5	0.60	39.0	0.117	555	2000	P11185-ND	.48	.25	.18	.10	EEU-FC1A391
	470	8	11.5	3.5	0.60	47.0	0.117	555	2000	P10221-ND	.40	.22	.16	.09	EEU-FC1A471
	560	10	12.5	5.0	0.60	56.0	0.09	755	3000	P11186-ND	.63	.35	.25	.14	EEU-FC1A561
	680	10	12.5	5.0	0.60	68.0	0.090	755	3000	P10223-ND	.45	.28	.21	.12	EEU-FC1A681
	680	8	15	3.5	0.60	68.0	0.085	730	2000	P10222-ND	.48	.28	.21	.12	EEU-FC1A681L
	820	10	16	5.0	0.60	82.0	0.068	1050	3000	P11187-ND	.81	.46	.33	.18	EEU-FC1A821
	1000	10	16	5.0	0.60	100.0	0.068	1050	3000	P10225-ND	.59	.38	.28	.16	EEU-FC1A102
	1000	8	20	3.5	0.60	82.0	0.065	995	2000	P10224-ND	.53	.33	.24	.14	EEU-FC1A102L
	1200	12.5	15	5.0	0.60	120.0	0.065	1205	5000	P10227-ND	.80	.55	.40	.23	EEU-FC1A122S
	1200	10	20	5.0	0.60	120.0	0.052	1220	3000	P10226-ND	.72	.45	.33	.19	EEU-FC1A122
	1500	10	25	5.0	0.60	150.0	0.045	1440	3000	P10228-ND	.80	.51	.37	.22	EEU-FC1A152
10	1800	16	15	7.5	0.80	180.0	0.043	1690	5000	P10229-ND	1.05	.73	.55	.32	EEU-FC1A182S
	1800	12.5	20	5.0	0.60	180.0	0.038	1655	5000	P11188-ND	1.30	.77	.55	.30	EEU-FC1A182
	2200	12.5	20	5.0	0.60	220.0	0.038	1655	5000	P10230-ND	.90	.59	.45	.27	EEU-FC1A222
	2200	10	30	5.0	0.60	220.0	0.035	1815	3000	P11189-ND	1.20	.76	.54	.30	EEU-FC1A222L
	2700	18	15	7.5	0.80	270.0	0.038	2000	5000	P10232-ND	1.39	.98	.74	.44	EEU-FC1A272S
	2700	12.5	25	5.0	0.60	270.0	0.030	1945	5000	P10231-ND	1.20	.75	.56	.33	EEU-FC1A272
	3300	16	20	7.5	0.80	330.0	0.029	2205	5000	P10234-ND	1.41	.92	.69	.41	EEU-FC1A332S
	3300	12.5	30	5.0	0.80	330.0	0.025	2310	5000	P10233-ND	1.26	.77	.58	.34	EEU-FC1A332
	3900	16	20	7.5	0.80	390.0	0.029	2205	5000	P11190-ND	2.13	1.20	.85	.46	EEU-FC1A392
	3900	12.5	35	5.0	0.80	390.0	0.022	2510	5000	P10235-ND	1.39	1.00	.75	.45	EEU-FC1A392L
	4700	16	25	7.5	0.80	470.0	0.022	2555	5000	P10237-ND	1.81	1.10	.82	.49	EEU-FC1A472
	4700	12.5	40	5.0	0.80	470.0	0.018	2655	5000	P10236-ND	1.53	1.15	.86	.51	EEU-FC1A472L
	5600	18	20	7.5	0.80	560.0	0.028	2490	5000	P10238-ND	1.61	1.11	.84	.54	EEU-FC1A562S
	5600	16	25	7.5	0.80	560.0	0.022	2555	5000	P11191-ND	2.60	1.43	1.01	.55	EEU-FC1A562
	6800	18	25	7.5	0.80	680.0	0.020	2740	5000	P10240-ND	1.97	1.39	1.05	.69	EEU-FC1A682S
	6800	16	31.5	7.5	0.80	680.0	0.018	3010	5000	P10239-ND	1.97	1.24	.94	.61	EEU-FC1A682
	8200	18	31.5	7.5	0.80	820.0	0.016	3635	5000	P11193-ND	3.71	2.37	1.67	.91	EEU-FC1A822
	8200	16	35.5	7.5	0.80	820.0	0.016	3150	5000	P11192-ND	3.27	2.09	1.47	.81	EEU-FC1A822L
	10000	18	35.5	7.5	0.80	1000.0	0.015	3680	5000	P10241-ND	2.71	1.74	1.32	.86	EEU-FC1A103
	12000	18	40	7.5	0.80	1200.0	0.014	3735	5000	P11194-ND	4.77	3.02	2.13	1.16	EEU-FC1A123
	39	4	11	1.5	0.45	6.24	1.30	120	1000	P11195-ND	.28	.19	.14	.08	EEU-FC1C390
	47	5	11	2.0	0.50	7.52	0.80	175	1000	P11196-ND	.34	.14	.10	.06	EEU-FC1C470
	56	5	11	2.0	0.50	8.96	0.80	175	1000	P11197-ND	.34	.14	.10	.06	EEU-FC1C560
	68	5	11	2.0	0.50	10.8	0.80	175	1000	P10242-ND	.34	.14	.10	.06	EEU-FC1C680
	82	5	15	2.0	0.50	13.1	0.50	235	1000	P10243-ND	.30	.21	.15	.08	EEU-FC1C820
	100	6.3	11.2	2.5	0.50	16.0	0.35	290	1000	P11198-ND	.34	.17	.13	.07	EEU-FC1C101
16	120	6.3	11.2	2.5	0.50	19.2	0.35	290	1000	P10244-ND	.28	.16	.11	.07	EEU-FC1C121
	180	6.3	15	2.5	0.50	28.8	0.25	400	1000	P10245-ND	.32	.23	.17	.10	EEU-FC1C181
	220	8	11.5	3.5	0.60	35.2	0.117	555	2000	P11199-ND	.48	.25	.18	.10	EEU-FC1C221
	270	8	11.5	3.5	0.60	43.2	0.117	555	2000	P11200-ND	.46	.25	.18	.10	EEU-FC1C271
	330	8	11.5	3.5	0.60	52.8	0.117	555	2000	P10246-ND	.40	.22	.16	.09	EEU-FC1C331
	390	10	12.5	5.0	0.60	62.4	0.09	755	3000	P11201-ND	.63	.35	.25	.14	EEU-FC1C391

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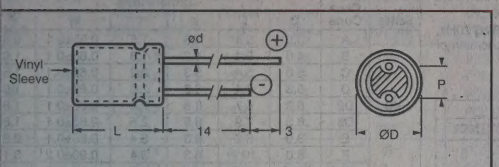
.V. (V)	Cap. (µF)	Dimensions (mm) ØD	L	P	Ød	Leakage Current (+20°C) (2 min.) (µA) Max	Impedance (100kHz) (+20°C) (Ω) Max	Ripple Current (+105°C) (mA) rms max.	Life Time (hours)	Digi-Key Part No.	Price Each 1	10	100	1,000	Panasonic Part No.
	470	10	12.5	5.0	0.60	75.2	0.090	755	3000	P10248-ND	.47	.28	.21	.12	EEU-FC1C471
	470	8	15	3.5	0.60	75.2	0.085	730	2000	P10247-ND	.47	.28	.21	.12	EEU-FC1C471L
	560	10	16	5.0	0.60	89.6	0.068	1050	3000	P11202-ND	.81	.46	.33	.18	EEU-FC1C561
	680	10	16	5.0	0.60	108.8	0.068	1050	3000	P10250-ND	.51	.38	.28	.16	EEU-FC1C681
	680	8	20	3.5	0.60	108.8	0.065	995	2000	P10249-ND	.56	.33	.24	.14	EEU-FC1C681L
	820	12.5	15	5.0	0.60	131.2	0.065	1205	5000	P10252-ND	.80	.55	.40	.23	EEU-FC1C821S
	820	10	20	5.0	0.60	131.2	0.052	1220	3000	P10251-ND	.74	.45	.33	.19	EEU-FC1C821
	1000	10	20	5.0	0.60	160.0	0.052	1220	3000	P11203-ND	1.03	.55	.39	.21	EEU-FC1C102S
	1000	10	25	5.0	0.60	160.0	0.045	1440	3000	P10253-ND	.77	.51	.37	.22	EEU-FC1C102
	1200	16	15	7.5	0.80	192.0	0.043	1690	5000	P11205-ND	1.51	.94	.67	.37	EEU-FC1C122S
	1200	10	25	5.0	0.60	192.0	0.045	1440	3000	P11204-ND	1.07	.62	.44	.24	EEU-FC1C122
	1500	16	15	7.5	0.80	240.0	0.043	1690	5000	P11206-ND	1.56	.94	.67	.37	EEU-FC1C152S
6	1500	12.5	20	5.0	0.60	240.0	0.038	1655	5000	P10254-ND	.90	.59	.45	.27	EEU-FC1C152
	1500	10.0	30	5.0	0.60	240.0	0.035	1815	3000	P10255-ND	.90	.62	.46	.27	EEU-FC1C152L
	1800	18	15	7.5	0.80	288.0	0.038	2000	5000	P10256-ND	1.39	.98	.74	.44	EEU-FC1C182S
	1800	12.5	25	5.0	0.60	288.0	0.03	1945	5000	P11207-ND	1.78	.97	.69	.38	EEU-FC1C182
	2200	16	20	7.5	0.80	352.0	0.029	2205	5000	P10258-ND	1.41	.92	.69	.41	EEU-FC1C222S
	2200	12.5	25	5.0	0.60	352.0	0.030	1945	5000	P10257-ND	1.14	.75	.56	.33	EEU-FC1C222
	2700	16	20	7.5	0.80	432.0	0.029	2205	5000	P11208-ND	2.03	1.20	.85	.46	EEU-FC1C272
	2700	12.5	30	5.0	0.80	432.0	0.025	2310	5000	P10259-ND	1.26	.77	.58	.34	EEU-FC1C272L
	3300	18	20	7.5	0.80	528.0	0.028	2490	5000	P10261-ND	1.61	1.11	.84	.54	EEU-FC1C332S
	3300	12.5	35	5.0	0.80	528.0	0.022	2510	5000	P10260-ND	1.35	1.00	.75	.45	EEU-FC1C332
	3900	18	20	7.5	0.80	624.0	0.028	2490	5000	P11209-ND	2.65	1.62	1.15	.63	EEU-FC1C392S
	3900	16	25	7.5	0.80	624.0	0.022	2555	5000	P10262-ND	1.60	1.10	.82	.49	EEU-FC1C392
	4700	18	25	7.5	0.80	752.0	0.020	2740	5000	P10264-ND	1.97	1.39	1.05	.69	EEU-FC1C472S
	4700	16	31.5	7.5	0.80	752.0	0.018	3010	5000	P10263-ND	1.97	1.24	.94	.61	EEU-FC1C472
	5600	18	31.5	7.5	0.80	896.0	0.016	3635	5000	P11210-ND	3.71	2.37	1.67	.91	EEU-FC1C562
	5600	16	35.5	7.5	0.80	896.0	0.016	3150	5000	P10265-ND	1.87	1.42	1.07	.70	EEU-FC1C562L
	6800	16	40	7.5	0.80	1088.0	0.015	3360	5000	P11211-ND	3.65	2.30	1.62	.89	EEU-FC1C682
	8200	18	35.5	7.5	0.80	1312.0	0.015	3680	5000	P10266-ND	2.71	1.74	1.32	.86	EEU-FC1C822
	10	4	7	1.5	0.45	2.5	2	65	1000	P11212-ND	.30	.13	.09	.05	EEA-FC1E100
	22	5	7	2	0.45	5.5	0.95	120	1000	P11213-ND	.32	.14	.10	.06	EEA-FC1E220
	27	4	11	1.5	0.45	6.75	1.3	120	1000	P11214-ND	.28	.19	.14	.08	EEU-FC1E270
	39	5	11	2	0.50	9.75	0.80	175	1000	P11215-ND	.28	.19	.14	.08	EEU-FC1E390
	47	5	11	2.0	0.50	11.7	0.80	175	1000	P10267-ND	.28	.19	.14	.08	EEU-FC1E470
	56	5	15	2.0	0.50	14.0	0.50	235	1000	P10268-ND	.30	.21	.15	.08	EEU-FC1E560
	82	6.3	11.2	2.5	0.50	20.5	0.35	290	1000	P11216-ND	.33	.17	.13	.07	EEU-FC1E820
	100	6.3	11.2	2.5	0.50	25.0	0.35	290	1000	P10269-ND	.23	.16	.11	.07	EEU-FC1E101S
	120	6.3	15	2.5	0.50	30.0	0.25	400	1000	P10270-ND	.32	.23	.17	.10	EEU-FC1E121
	180	8	11.5	3.5	0.60	45.0	0.117	555	2000	P11217-ND	.48	.25	.18	.10	EEU-FC1E181
	220	8	11.5	3.5	0.60	55.0	0.117	555	2000	P10271-ND	.38	.22	.16	.09	EEU-FC1E221
	270	10	12.5	5	0.60	67.5	0.09	755	3000	P11218-ND	.63	.35	.25	.14	EEU-FC1E271
	330	10	12.5	5.0	0.60	82.5	0.090	755	3000	P10273-ND	.44	.28	.21	.12	EEU-FC1E331
	330	8	15	3.5	0.60	82.5	0.085	730	2000	P10272-ND	.47	.28	.21	.12	EEU-FC1E331L
	390	10	16	5	0.60	97.5	0.068	1050	3000	P11219-ND	.81	.46	.33	.18	EEU-FC1E391
	470	10	16	5.0	0.60	117.5	0.068	1050	3000	P10275-ND	.57	.38	.28	.16	EEU-FC1E471
	470	8	20	3.5	0.60	117.5	0.065	995	2000	P10274-ND	.53	.33	.24	.14	EEU-FC1E471L
	560	12.5	15	5.0	0.60	140.0	0.065	1205	5000	P10276-ND	.80	.55	.40	.23	EEU-FC1E561S
	560	10	20	5	0.60	140.0	0.052	1220	3000	P11220-ND	.93	.55	.39	.21	EEU-FC1E561
	680	10	20	5.0	0.60	170.0	0.052	1220	3000	P10277-ND	.72	.45	.33	.19	EEU-FC1E681
5	820	12.5	20	5	0.60	205.0	0.038	1655	5000	P11222-ND	1.30	.77	.55	.30	EEU-FC1E821S
	820	10	25	5	0.60	205.0	0.045	1440	3000	P11221-ND	1.07	.62	.44	.24	EEU-FC1E821
	1000	16	15	7.5	0.80	250.0	0.043	1690	5000	P10279-ND	1.05	.73	.55	.32	EEU-FC1E102S
	1000	12.5	20	5.0	0.60	250.0	0.038	1655	5000	P10278-ND	.87	.59	.45	.27	EEU-FC1E102
	1000	10	30	5	0.60	250.0	0.035	1815	3000	P11223-ND	1.20	.76	.54	.30	EEU-FC1E102L
	1200	18	15	7.5	0.80	300.0	0.038	2000	5000	P10280-ND	1.39	.98	.74	.44	EEU-FC1E122S
	1200	12.5	25	5	0.60	300.0	0.03	1945	5000	P11224-ND	1.78	.97	.69	.38	EEU-FC1E122
	1500	16	20	7.5	0.80	375.0	0.029	2205	5000	P10282-ND	1.41	.92	.69	.41	EEU-FC1E152S
	1500	12.5	25	5.0	0.60	375.0	0.030	1945	5000	P10281-ND	1.24	.75	.56	.33	EEU-FC1E152
	1800	16	20	7.5	0.80	450.0	0.029	2205	5000	P11225-ND	2.03	1.20	.85	.46	EEU-FC1E182
	1800	12.5	30	5.0	0.80	450.0	0.025	2310	5000	P10283-ND	1.26	.77	.58	.34	EEU-FC1E182L
	2200	18	20	7.5	0.80	550.0	0.028	2490	5000	P10285-ND	1.61	1.11	.84	.54	EEU-FC1E222S
	2200	12.5	35	5.0	0.80	550.0	0.022	2510	5000	P10284-ND	1.35	1.00	.75	.45	EEU-FC1E222
	2700	16	25	7.5	0.80	675.0	0.022	2555	5000	P10286-ND	1.81	1.10	.82	.49	EEU-FC1E272
	3300	18	25	7.5	0.80	825.0	0.020	2740	5000	P10288-ND	1.97	1.39	1.05	.69	EEU-FC1E332S
	3300	16	31.5	7.5	0.80	825.0	0.018	3010	5000	P10287-ND	1.97	1.24	.94	.61	EEU-FC1E332
	3900	18	31.5	7.5	0.80	975.0	0.016	3635	5000	P11227-ND	3.71	2.37	1.67	.91	EEU-FC1E392
	3900	16	35.5	7.5	0.80	975.0	0.016	3150	5000	P11226-ND	3.27	2.09	1.47	.81	EEU-FC1E392L
	4700	18	35.5	7.5	0.80	1175.0	0.015	3680	5000	P10289-ND	2.71	1.74	1.32	.86	EEU-FC1E472
	5600	18	40	7.5	0.80	1400.0	0.014	3735	5000	P11228-ND	4.77	3.02	2.13	1.16	EEU-FC1E562
	18	4	11	1.5	0.45	6.3	1.3	120	1000	P11229-ND	.28	.19	.14	.08	EEU-FC1V180
	22	5	11	2	0.50	7.7	0.80	175	1000	P11230-ND	.34	.14	.10	.06	EEU-FC1V220
	27	5	11	2	0.50	9.45	0.80	175	1000	P11231-ND	.34	.14	.10	.06	EEU-FC1V270
	33	5	11	2.0	0.50	11.5	0.80	175	1000	P10290-ND	.34	.14	.10	.06	EEU-FC1V330
	39	5	15	2.0	0.50	13.6	0.50	235	1000	P10291-ND	.30	.21	.15	.08	EEU-FC1V390
	47	6.3	11.2	2.5	0.50	16.45	0.35	290	1000	P11232-ND	.34	.17	.13	.07	EEU-FC1V470
	56	6.3	11.2	2.5	0.50	19.6	0.35	290	1000	P11233-ND	.33	.17	.13	.07	EEU-FC1V560
	68	6.3	11.2	2.5	0.50	23.8	0.35	290	1000	P10292-ND	.28	.16	.11	.07	EEU-FC1V680
	82	6.3	15	2.5	0.50	28.7	0.25	400	1000	P10293-ND	.32	.23	.17	.10	EEU-FC1V820
	100	8	11.5	3.5	0.60	35.0	0.117	555	2000	P10294-ND	.38	.22	.16	.09	EEU-FC1V101
	120	8	11.5	3.5	0.60	42.0	0.117	555	2000	P11234-ND	.46	.25	.18	.10	EEU-FC1V121
	150	8	11.5	3.5	0.60	52.5	0.117	555	2000	P10295-ND	.36	.22	.16	.09	EEU-FC1V151
	180	10	12.5	5	0.60	63.0	0.09	755	3000	P11235-ND	.63	.35	.25	.14	EEU-FC1V181
	220	10	12.5	5.0	0.60	77.0	0.090	755	3000	P10297-ND	.44	.28	.21	.12	EEU-FC1V221
	220	8	15	3.5	0.60	77.0	0.085	730	2000	P10296-ND	.48	.28	.21	.12	EEU-FC1V221L
	270	10	16	5	0.60	94.5	0.068	1050	3000	P11236-ND	.81	.46	.33	.18	EEU-FC1V271
	390	12.5	15	5.0	0.60	136.5	0.065	1205	5000	P10300-ND	.80	.55	.40	.23	EEU-FC1V391S
	330	10	16	5.0	0.60	115.5	0.068	1050	3000	P10299-ND	.61	.38	.28	.16	EEU-FC1V331
	330	8	20	3.5	0.60	115.5	0.065	995	2000	P10298-ND	.56	.33	.24	.14	EEU-FC1V331L
	390	10	20	5	0.60	136.5	0.052	1220	3000	P11237-ND	.96	.55	.39	.21	EEU-FC1V391
	470	10	20	5.0	0.60	164.5	0.052	1220	3000	P10301-ND	.72	.45	.33	.19	EEU-FC1V471
5	560	12.5	20	5	0.60	196.0	0.038	1655	5000	P11239-ND	1.25	.77	.55	.30	EEU-FC1V561S
	560	10	25	5	0.60	196.0	0.045	1440	3000	P11238-ND	1.07	.62	.44	.24	EEU-FC1V561
	680	16	15	7.5	0.80	238.0	0.043	1690	5000	P10303-ND	1.01	.73	.55	.32	EEU-FC1V681S
	680	12.5	20	5.0	0.60	238.0	0.038	1655	5000	P10302-ND	.90	.59	.45	.27	EEU-FC1V681
	680	10	30	5	0.60	238.0	0.035	1815	3000	P11240-ND	1.20	.76	.54	.30	EEU-FC1V681L
	820	18	15	7.5	0.80	287.0	0.038	2000	5000	P10304-ND	1.35	.98	.74	.44	EEU-FC1V821
	820	12.5	25	5	0.60	287.0	0.03	1945	5000	P11241-ND	1.78	.97	.69	.38	EEU-FC1V821L
	1000	16	20	7.5	0.80	350.0	0.029	2205	5000	P10876-ND	1.42	.92	.69	.41	EEU-FC1V102S
	1000	12.5	25	5.0	0.60	350.0	0.030	1945	5000	P10305-ND	1.11	.75	.56	.33	EEU-FC1V102
	1200	16	20	7.5	0.80	420.0	0.029	2205	5000	P11242-ND	2.03	1.20	.85	.46	EEU-FC1V122
	1200	12.5	30	5.0	0.80	420.0	0.025	2310	5000	P10306-ND	1.26	.77	.58	.34	EEU-FC1V122L
	1500	18	20	7.5	0.80	525.0	0.028	2490	5000	P11243-ND	2.65	1.62	1.15	.63	EEU-FC1V152S
	1500	16	25	7.5	0.80	525.0	0.022	2555	5000	P10308-ND	1.81	1.10	.82	.49	EEU-FC1V152
	1500	12.5	35	5.0	0.80	525.0	0.022	2510	5000	P10307-ND	1.39	1.00	.75	.45	EEU-FC1V152L
	1800	18	20	7.5	0.80	630.0	0.026	2490	5000	P11246-ND	2.65	1.62	1.15	.63	EEU-FC1V182S
	1800	16	25	7.5	0.80	630.0	0.022	2555	5000	P11245-ND	2.39	1.43	1.01	.55	EEU-FC1V182
	1800	12.5	40	5	0.80	630.0	0.018	2655	5000	P11244-ND	2.29	1.49	1.05	.58	EEU-FC1V182L

(Continued)

W.V. (V)	Cap. (µF)	Dimensions (mm) ØD	L	P	Ød	Leakage Current (+20°C) (2 min.) (µA) Max	Impedance (100kHz) (+20°C) (Ω) Max	Ripple Current (+105°C) (mA) rms max.	Life Time (hours)	Digi-Key Part No.	Price Each 1	10	100	1,000	Panasonic Part No.
35	2200	18	25	7.5	0.80	770.0	0.020	2740	5000	P10310-ND	1.97	1.39	1.05	.69	EEU-FC1V222S
	2200	16	31.5	7.5	0.80	770.0	0.018	3010	5000	P10309-ND	1.78	1.24	.94	.61	EEU-FC1V222
	2700	18	31.5	7.5	0.80	945.0	0.016	3635	5000	P11248-ND	3.71	2.37	1.67	.91	EEU-FC1V272
	2700	16	35.5	7.5	0.80	945.0	0.016	3150	5000	P11247-ND	3.27	2.09	1.47	.81	EEU-FC1V272L
	3300	18	35.5	7.5	0.80	1155.0	0.015	3680	5000	P10311-ND	2.71	1.74	1.32	.86	EEU-FC1V332
	3900	18	40	7.5	0.80	1365.0	0.014	3735	5000	P11249-ND	4.77	3.02	2.13	1.16	EEU-FC1V392
50	1.0	5	11	2.0	0.50	0.5	2.40	20	1000	P10312-ND	.27	.14	.10	.06	EEU-FC1H1R0
	2.2	5	11	2.0	0.50	1.1	1.30	45	1000	P10313-ND	.27	.14	.10	.06	EEU-FC1H2R2
	3.3	5	11	2.0	0.50	1.6	1.30	65	1000	P10314-ND	.34	.14	.10	.06	EEU-FC1H3R3
	4.7	5	11	2.0	0.50	2.3	1.30	95	1000	P10315-ND	.27	.14	.10	.06	EEU-FC1H4R7
	10	4	11	1.5	0.45	5.0	2.5	90	1000	P11250-ND	.28	.19	.14	.08	EEU-FC1H100
	10	5	11	2.0	0.50	5.0	1.30	125	1000	P10316-ND	.34	.14	.10	.06	EEU-FC1H100L
	15	5	11	2.0	0.50	7.5	1.30	145	1000	P10317-ND	.34	.14	.10	.06	EEU-FC1H150
	18	5	11	2	0.50	9.0	1.3	155	1000	P11251-ND	.34	.14	.10	.06	EEU-FC1H180
	22	5	11	2.0	0.50	11.0	1.30	155	1000	P10318-ND	.34	.14	.10	.06	EEU-FC1H220
	27	5	15	2.0	0.50	13.5	0.90	215	1000	P10319-ND	.30	.21	.15	.08	EEU-FC1H270
	33	6.3	11.2	2.5	0.50	16.5	0.60	260	1000	P10320-ND	.27	.16	.11	.07	EEU-FC1H330
	47	6.3	11.2	2.5	0.50	23.5	0.60	260	1000	P10321-ND	.28	.16	.11	.07	EEU-FC1H470
	56	6.3	15	2.5	0.50	28.0	0.40	360	1000	P10322-ND	.32	.23	.17	.10	EEU-FC1H560
	68	8	11.5	3.5	0.60	34.0	0.234	485	2000	P11252-ND	.48	.25	.18	.10	EEU-FC1H680
	82	8	11.5	3.5	0.60	41.0	0.234	485	2000	P11253-ND	.43	.25	.18	.10	EEU-FC1H820
	100	10	12.5	5.0	0.60	50.0	0.162	615	3000	P10323-ND	.44	.28	.21	.12	EEU-FC1H101
	120	10	12.5	5	0.60	60.0	0.162	615	3000	P11255-ND	.63	.35	.25	.14	EEU-FC1H121
	120	8	15	3.5	0.60	60.0	0.155	635	2000	P11254-ND	.65	.35	.25	.14	EEU-FC1H121L
	150	10	16	5	0.60	75.0	0.119	850	3000	P11256-ND	.81	.46	.33	.18	EEU-FC1H151
	180	8	20	3.5	0.60	90.0	0.120	860	2000	P10324-ND	.56	.33	.24	.14	EEU-FC1H181L
	220	12.5	15	5.0	0.60	110.0	0.110	1150	5000	P10326-ND	.80	.55	.40	.23	EEU-FC1H221S
	220	10	20	5.0	0.60	110.0	0.090	1030	3000	P10325-ND	.72	.45	.33	.19	EEU-FC1H221
	270	10	25	5	0.60	135.0	0.082	1200	3000	P11257-ND	1.07	.62	.44	.24	EEU-FC1H271
	330	12.5	20	5	0.60	165.0	0.063	1480	5000	P11258-ND	1.30	.77	.55	.30	EEU-FC1H331
	390	16	15	7.5	0.80	195.0	0.080	1610	5000	P10327-ND	1.05	.73	.55	.32	EEU-FC1H391S
	390	12.5	20	5	0.60	195.0	0.063	1480	5000	P11259-ND	1.30	.77	.55	.30	EEU-FC1H391
	470	12.5	25	5.0	0.60	235.0	0.050	1832	5000	P10328-ND	1.08	.75	.56	.33	EEU-FC1H471
	470	10	30	5	0.60	235.0	0.06	1610	3000	P11260-ND	1.20	.76	.54	.30	EEU-FC1H471L
	560	18	15	7.5	0.80	280.0	0.068	1900	5000	P10329-ND	1.39	.98	.74	.44	EEU-FC1H561S
	560	12.5	25	5	0.60	280.0	0.05	1832	5000	P11261-ND	1.78	.97	.69	.38	EEU-FC1H561
	680	16	20	7.5	0.80	340.0	0.048	1835	5000	P10331-ND	1.41	.92	.69	.41	EEU-FC1H681
	680	12.5	30	5.0	0.80	340.0	0.040	2215	5000	P10330-ND	1.26	.77	.58	.34	EEU-FC1H681L
	820	18	20	7.5	0.80	410.0	0.042	2420	5000	P11262-ND	2.65	1.62	1.15	.63	EEU-FC1H821
	820	12.5	35	5.0	0.80	410.0	0.034	2285	5000	P10332-ND	1.39	1.00	.75	.45	EEU-FC1H821L
	1000	16	25	7.5	0.80	500.0	0.034	2235	5000	P10333-ND	1.75	1.10	.82	.49	EEU-FC1H102
	1000	12.5	40	5	0.80	500.0	0.03	2590	5000	P11263-ND	2.29	1.49	1.05	.58	EEU-FC1H102L
	1200	18	25	7.5	0.80	600.0	0.029	2610	5000	P11265-ND	3.23	2.05	1.45	.79	EEU-FC1H122S
	1200	16	31.5	7.5	0.80	600.0	0.028	2700	5000	P11264-ND	3.23	1.82	1.29	.70	EEU-FC1H122
	1500	16	35.5	7.5	0.80	750.0	0.025	2790	5000	P10334-ND	1.99	1.42	1.07	.70	EEU-FC1H152L
	1800	18	31.5	7.5	0.80	900.0	0.025	3000	5000	P11267-ND	3.58	2.37	1.67	.91	EEU-FC1H182
	1800	16	40	7.5	0.80	900.0	0.023	2845	5000	P11266-ND	3.51	2.30	1.62	.89	EEU-FC1H182L
	2200	18	35.5	7.5	0.80	1100.0	0.023	3100	5000	P10335-ND	2.60	1.74	1.32	.86	EEU-FC1H222
63	6.8	4	11	1.5	0.45	4.284	3.5	80	1000	P11268-ND	.28	.19	.14	.08	EEU-FC1J6R8
	12	5	11	2.0	0.50	7.5	2.00	145	1000	P10336-ND	.34	.14	.10	.06	EEU-FC1J120
	18	5	15	2.0	0.50	11.3	1.30	200	1000	P10337-ND	.30	.21	.15	.08	EEU-FC1J180
	22	6.3	11.2	2.5	0.50	13.8	1.00	240	1000	P10338-ND	.27	.16	.11	.07	EEU-FC1J220
	33	6.3	11.2	2.5	0.50	20.7	1.000	240	1000	P10764-ND	.29	.16	.11	.07	EEU-FC1J330
	39	6.3	15	2.5	0.50	24.5	0.70	330	1000	P10339-ND	.32	.23	.17	.10	EEU-FC1J390
	47	8	11.5	3.5	0.60	29.6	0.342	405	2000	P10340-ND	.38	.22	.16	.09	EEU-FC1J470
	68	8	11.5	3.5	0.60	42.8	0.342	405	2000	P10341-ND	.40	.22	.16	.09	EEU-FC1J680
	56	8	11.5	3.5	0.60	35.28	0.342	405	2000	P11269-ND	.48	.25	.18	.10	EEU-FC1J560
	82	10	12.5	5	0.60	51.66	0.256	535	3000	P11270-ND	.63	.35	.25	.14	EEU-FC1J820
	100	10	12.5	5.0	0.60	63.0	0.256	535	3000	P10343-ND	.44	.28	.21	.12	EEU-FC1J101
	100	8	15	3.5	0.60	63.0	0.230	535	2000	P10342-ND	.40	.28	.21	.12	EEU-FC1J101L
	120	10	16	5	0.60	75.6	0.194	600	3000	P11271-ND	.81	.46	.33	.18	EEU-FC1J121
	150	8	20	3.5	0.60	94.5	0.178	690	2000	P10344-ND	.56	.33	.24	.14	EEU-FC1J151
	180	12.5	15	5.0	0.60	113.4	0.150	1020	5000	P10345-ND	.80	.55	.40	.23	EEU-FC1J181S
	180	10	20	5	0.60	113.4	0.147	885	3000	P11272-ND	.99	.55	.39	.21	EEU-FC1J181
	220	12.5	20	5.0	0.60	138.6	0.085	1285	5000	P10347-ND	.90	.59	.45	.27	EEU-FC1J221S
	220	10	25	5.0	0.60	138.6	0.130	1050	3000	P10346-ND	.68	.51	.37	.22	EEU-FC1J221
	270	16	15	7.5	0.80	170.1	0.090	1410	5000	P10348-ND	1.05	.73	.55	.32	EEU-FC1J271
	330	12.5	20	5.0	0.60	207.9	0.085	1285	5000	P10349-ND	.87	.59	.45	.27	EEU-FC1J331
	330	10	30	5	0.60	207.9	0.09	1300	3000	P11273-ND	1.20	.76	.54	.30	EEU-FC1J331L
	390	18	15	7.5	0.80	245.7	0.086	1690	5000	P10350-ND	1.39	.98	.74	.44	EEU-FC1J391S
	390	12.5	25	5	0.60	245.7	0.07	1720	5000	P11274-ND	1.78	.97	.69	.38	EEU-FC1J391
	470	16	20	7.5	0.80	296.1	0.059	1765	5000	P10352-ND	1.36	.92	.69	.41	EEU-FC1J471
	470	12.5	30	5.0	0.80	296.1	0.055	2090	5000	P10351-ND	1.26	.77	.58	.34	EEU-FC1J471L
	560	16	25	7.5	0.80	352.8	0.05	2160	5000	P11275-ND	2.60	1.43	1.01	.55	EEU-FC1J561
	680	18	20	7.5	0.80	428.4	0.055	2290	5000	P11276-ND	2.65	1.62	1.15	.63	EEU-FC1J681S
	680	16	25	7.5	0.80	428.4	0.050	2160	5000	P10354-ND	1.78	1.10	.82	.49	EEU-FC1J681
	680	12.5	35	5.0	0.80	428.4	0.047	2265	5000	P10353-ND	1.35	1.00	.75	.45	EEU-FC1J681L
	820	18	25	7.5	0.80	516.6	0.043	2585	5000	P11279-ND	3.23	2.05	1.45	.79	EEU-FC1J821S
	820	16	31.5	7.5	0.80	516.6	0.043	2670	5000	P11278-ND	3.23	1.82	1.29	.70	EEU-FC1J821
	820	12.5	40	5	0.80	516.6	0.042	2560	5000	P11277-ND	2.29	1.49	1.05	.58	EEU-FC1J821L
	1000	16	31.5	7.5	0.80	630.0	0.043	2670	5000	P11280-ND	3.33	1.82	1.29	.70	EEU-FC1J102U
	1000	16	35.5	7.5	0.80	630.0	0.036	2770	5000	P10355-ND	1.99	1.42	1.07	.70	EEU-FC1J102
	1200	16	40	7.5	0.80	756.0	0.032	2950	5000	P11282-ND	3.65	2.30	1.62	.89	EEU-FC1J122L
	1200	18	31.5	7.5	0.80	756.0	0.03	2825	5000	P11281-ND	3.71	2.37	1.67	.91	EEU-FC1J122
	1500	18	35.5	7.5	0.80	945.0	0.030	3095	5000	P10356-ND	2.71	1.74	1.32	.86	EEU-FC1J152
	1800	18	40	7.5	0.80	1134.0	0.025	3205	5000	P11283-ND	4.77	3.02	2.13	1.16	EEU-FC1J182
100	1.0	5	11	2.0	0.50	1.0	7.500	15	1000	P10765-ND	.24	.14	.10	.06	EEU-FC2A1R0
	2.2	5	11	2.0	0.50	2.2	5.400	35	1000	P10766-ND	.30	.14	.10	.06	EEU-FC2A2R2
	3.3	5	11	2.0	0.50	3.3	4.400	50	1000	P10767-ND	.30	.14	.10	.06	EEU-FC2A3R3
	4.7	5	11	2.0	0.50	4.7	4.400	65	1000	P10768-ND	.30	.14	.10	.06	EEU-FC2A4R7
	10	6.3	11.2	2.5	0.50	10.0	1.800	114	1000	P10769-ND	.31	.17	.13	.07	EEU-FC2A100
	22	8	11.5	3.5	0.60	22.0	0.680	260	2000	P10770-ND	.44	.24	.18	.10	EEU-FC2A220
	33	10	12.5	5.0	0.60	33.0	0.530	306	3000	P10771-ND	.51	.31	.23	.13	EEU-FC2A330
	33	8	15	3.5	0.60	33.0	0.450	340	2000	P10772-ND	.54	.31	.23	.13	EEU-FC2A330L
	47	10	20	5.0	0.60	47.0	0.240	463	3000	P10773-ND	.82	.50	.37	.21	EEU-FC2A470
	68	10	25	5.0	0.60	68.0	0.210	599	3000	P10774-ND	.88	.56	.41	.24	EEU-FC2A680L
	100	12.5	20	5.0	0.60	100.0	0.180	671	5000	P10776-ND	1.01	.66	.49	.29	EEU-FC2A101
	100	10	30	5.0	0.60	100.0	0.150	698	3000	P10775-ND	.93	.64	.48	.29	EEU-FC2A101L
	150	18	15	7.5	0.80	150.0	0.120	917	5000	P10778-ND	1.55	1.08	.81	.48	EEU-FC2A151S
	150	12.5	25	5.0	0.60	150.0	0.110	807	5000	P10777-ND	1.15	.80	.60	.36	EEU-FC2A151
	220	16	25	7.5	0.80	220.0	0.089	1170	5000	P10780-ND	1.76	1.07	.81	.53	EEU-FC2A221
	220	12.5	35	5.0	0.80	220.0	0.087	1040	5000	P10779-ND	1.55	1.10	.83	.49	EEU-FC2A221L
	270	12.5	40	5.0	0.80	270.0	0.072	1130	5000	P10781-ND	1.55	1.11	.84	.55	EEU-FC2A271L
	330	18	25	7.5	0.80	330.0	0.070	1420	5000	P10783-ND	2.21	1.55	1.17	.76	EEU-FC2A331S
	330	16	31.5	7.5	0.80	330.0	0.062	1520	5000	P10782-ND	2.19	1.36	1.03	.67	EEU-FC2A331
	390	16	35.5	7.5	0.80	390.0	0.053	1730	5000	P10784-ND	2.21	1.56	1.18	.77	EEU-FC2A391L
	470	16	40	7.5	0.80	470.0	0.047	1920	5000	P10874-ND	2.47	1.72	1.30	.85	EEU-FC2A471
	680	18	40	7.5	0.80	680.0	0.036	2300	5000	P10875-ND	3.28	2.26	1.70	1.11	EEU-FC2A681

Panasonic KS Capacitors



Body dia. D	3	4	5	6.3	8
Lead dia. d	0.4	0.45	0.45	0.45	0.45
Lead space P	1.0	1.5	2.0	2.5	2.5

atures:
ow profile 5mm height for Ø3 ~ Ø8 mm

ecifications:
Operating Temperature Range: -40°C to +85°C • **Rated Working Voltage nge:** 4 to 50V DC • **Nominal Capacitance Range:** 0.1 to 330µF • **Capacitance lerance:** ±20% (120Hz, +20°C) • **Leakage Current:** I ≤ 0.01CV or 3 (µA), ichever is greater measured after 2 minutes application of rated working voltage at 0°C

durance:
est Conditions — Duration: 1000 hours • **Ambient Temperature:** +85°C **pplied Voltage:** Rated DC working voltage • **Post Test Requirements at +20°C Leakage Current:** ≤ Initial specified value • **Capacitance Change:** ±20% of initial asured value (4V: ±30%) • **tan δ:** ≤ 200% of initial specified value

elf Life:
est Conditions — Duration: 1000 hours • **Ambient Temperature:** +85°C **pplied voltage:** (None) • **Post Test Requirements at +20°C — Leakage rrent:** ≤ Initial specified value • **Capacitance Change:** ±20% of initial measured ue (4V: ±30%) • **tan δ:** ≤ 200% of initial specified value

nasonic KS Cross Reference:
pon Chemi-Con: SRE, Nichicon: MA, Elna: RC3, Rubycon: MS5, Marcon: LSM

commended Applications:
(TV, Audio, Video), Office, Home Appliance

n δ: (120Hz, +20°C)

orking voltage (V)	4	6.3	10	16	25	35	50
tan δ max.	0.35	0.24	0.20	0.16	0.14	0.12	0.10

aracteristics at Low Temperature: Impedance ratio max. at 120Hz

orking voltage (V)	4	6.3	10	16	25	35	50
-25°C/+25°C	7	4	3	2	2	2	2
-40°C/+20°C	15	8	6	4	4	3	3

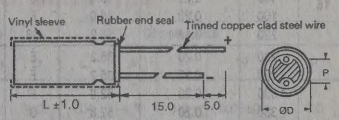
WV (VDC)	Cap. (µF)	D.C.L. (+20°C/2 min)	tan δ (120Hz/+20°C)	Ripple Current	Dim. (mm) ØD	L	P	Digi-Key Part No.	Pricing 10	100	1,000	Panasonic Part No.
4	22	3.0	0.35	19	3	5	1.0	P950-ND	1.38	10.81	59.00	ECE-A0GKK220
	33	3.0	0.35	26	4	5	1.5	P951-ND	.77	6.02	33.00	ECE-A0GKS330
	47	3.0	0.35	34	4	5	1.5	P952-ND	.77	6.02	33.00	ECE-A0GKS470
	100	4.0	0.35	61	5	5	2.0	P953-ND	.84	6.60	36.00	ECE-A0GKS101
	220	8.8	0.35	82	6.3	5	2.5	P954-ND	1.02	8.00	44.00	ECE-A0GKS221
6.3	22	3.0	0.24	29	4	5	1.5	P955-ND	.77	6.02	33.00	ECE-A0JKS220
	33	3.0	0.24	38	5	5	2.0	P956-ND	.84	6.60	36.00	ECE-A0JKS330
	47	3.0	0.24	46	5	5	2.0	P957-ND	.84	6.60	36.00	ECE-A0JKS470
	100	6.3	0.24	71	6.3	5	2.5	P958-ND	1.02	8.00	44.00	ECE-A0JKS101
	330	20.7	0.24	130	8	5	2.5	P959-ND	1.84	14.44	79.00	ECE-A0JKS331
10	22	3.0	0.20	35	5	5	2.0	P960-ND	.84	6.60	36.00	ECE-A1AKS220
	33	3.3	0.20	43	5	5	2.0	P961-ND	.84	6.60	36.00	ECE-A1AKS330
	47	4.7	0.20	65	6.3	5	2.5	P962-ND	1.02	8.00	44.00	ECE-A1AKS470
	100	10.0	0.20	80	6.3	5	2.5	P963-ND	1.02	8.00	44.00	ECE-A1AKS101
	220	22.0	0.20	120	8	5	2.5	P964-ND	1.84	14.44	79.00	ECE-A1AKS221
16	10	3.0	0.16	20	3	5	1.0	P965-ND	1.38	10.81	59.00	ECE-A1CKK100
	10	3.0	0.16	28	4	5	1.5	P966-ND	.77	6.02	33.00	ECE-A1CKS100
	22	3.5	0.16	39	5	5	2.0	P967-ND	.84	6.60	36.00	ECE-A1CKS220
	33	5.2	0.16	60	6.3	5	2.5	P968-ND	1.02	8.00	44.00	ECE-A1CKS330
	47	7.5	0.16	70	6.3	5	2.5	P969-ND	1.02	8.00	44.00	ECE-A1CKS470
	100	16.0	0.16	91	8	5	2.5	P970-ND	1.84	14.44	79.00	ECE-A1CKS101
25	2.2	3.0	0.14	8	3	5	1.0	P971-ND	1.38	10.81	59.00	ECE-A1EKK2R2
	3.3	3.0	0.14	10	3	5	1.0	P972-ND	1.38	10.81	59.00	ECE-A1EKK3R3
	4.7	3.0	0.14	12	3	5	1.0	P973-ND	1.38	10.81	59.00	ECE-A1EKK4R7
	4.7	3.0	0.14	22	4	5	1.5	P974-ND	.77	6.02	33.00	ECE-A1EKS4R7
	10	3.0	0.14	28	5	5	2.0	P975-ND	.84	6.60	36.00	ECE-A1EKS100
	22	5.5	0.14	55	6.3	5	2.5	P976-ND	1.02	8.00	44.00	ECE-A1EKS220
	33	8.2	0.14	65	6.3	5	2.5	P977-ND	1.02	8.00	44.00	ECE-A1EKS330
35	3.3	3.0	0.12	16	4	5	1.5	P978-ND	.77	6.02	33.00	ECE-A1VKS3R3
	4.7	3.0	0.12	22	4	5	1.5	P979-ND	.77	6.02	33.00	ECE-A1VKS4R7
	10	3.5	0.12	30	5	5	2.0	P980-ND	.84	6.60	36.00	ECE-A1VKS100
	22	7.7	0.12	60	6.3	5	2.5	P981-ND	1.02	8.00	44.00	ECE-A1VKS220
	33	11.6	0.12	65	8	5	2.5	P982-ND	1.84	14.44	79.00	ECE-A1VKS330
	47	16.4	0.12	85	8	5	2.5	P983-ND	1.84	14.44	79.00	ECE-A1VKS470
50	0.1	3.0	0.10	1	4	5	1.5	P984-ND	.77	6.02	33.00	ECE-A1HKS0R1
	0.1	3.0	0.10	1	3	5	1.0	P985-ND	1.38	10.81	59.00	ECE-A1HKK0R1
	0.22	3.0	0.10	2	4	5	1.5	P986-ND	.77	6.02	33.00	ECE-A1HKSR22
	0.22	3.0	0.10	2	3	5	1.0	P987-ND	1.38	10.81	59.00	ECE-A1HKKR22
	0.33	3.0	0.10	3	4	5	1.5	P988-ND	.77	6.02	33.00	ECE-A1HKSR33
	0.33	3.0	0.10	3	3	5	1.0	P989-ND	1.38	10.81	59.00	ECE-A1HKKR33
	0.47	3.0	0.10	5	4	5	1.5	P990-ND	.77	6.02	33.00	ECE-A1HKSR47
	0.47	3.0	0.10	5	3	5	1.0	P991-ND	1.38	10.81	59.00	ECE-A1HKKR47
	1.0	3.0	0.10	8	3	5	1.0	P992-ND	1.38	10.81	59.00	ECE-A1HKK010
	1.0	3.0	0.10	10	4	5	1.5	P993-ND	.77	6.02	33.00	ECE-A1HKS010
	2.2	3.0	0.10	16	4	5	1.5	P994-ND	.77	6.02	33.00	ECE-A1HKS2R2
	3.3	3.0	0.10	16	4	5	1.5	P995-ND	.77	6.02	33.00	ECE-A1HKS3R3
	4.7	3.0	0.10	23	5	5	2.0	P996-ND	.84	6.60	36.00	ECE-A1HKS4R7
	10	5.0	0.10	35	6.3	5	2.5	P997-ND	1.02	8.00	44.00	ECE-A1HKS100
	22	11.0	0.10	60	8	5	2.5	P998-ND	1.84	14.44	79.00	ECE-A1HKS220

E

A-Series Miniature Aluminum Electrolytic Capacitors

Rating WV	Rating µF	Dimensions (mm) D	L	P	Digi-Key Part No.	Pricing 1	10	100	500	1,000	5,000	Panasonic Part No.
.3	22	4.0	7.0	1.5	P800-ND	.14	.91	6.11	20.69	32.00	27.00/M	ECE-A0JKA220
	33	4.0	7.0	1.5	P801-ND	.14	.91	6.11	20.69	32.00	27.00/M	ECE-A0JKA330
	47	4.0	7.0	1.5	P802-ND	.14	.91	6.11	20.69	32.00	27.00/M	ECE-A0JKA470
	100	5.0	7.0	2.0	P803-ND*	.16	1.01	6.79	23.00	35.00	30.00/M	ECE-A0JKA101
	220	6.3	7.0	2.5	P829-ND	.15	1.02	7.21	24.89	39.00	34.00/M	ECE-A0JKA221
	330	8.0	7.0	3.5	P830-ND	.23	1.68	12.03	43.29	67.00	63.00/M	ECE-A0JKA331
0	22	4.0	7.0	1.5	P804-ND	.14	.91	6.11	20.69	32.00	27.00/M	ECE-A1AKA220
	33	4.0	7.0	1.5	P805-ND	.14	.91	6.11	20.69	32.00	27.00/M	ECE-A1AKA330
	47	5.0	7.0	2.0	P806-ND	.16	1.01	6.79	23.00	35.00	30.00/M	ECE-A1AKA470
	100	6.3	7.0	2.5	P831-ND	.15	1.02	7.21	24.89	39.00	34.00/M	ECE-A1AKA101
	220	8.0	7.0	3.5	P832-ND	.23	1.68	12.03	43.29	67.00	63.00/M	ECE-A1AKA221
6	10	4.0	7.0	1.5	P807-ND	.14	.91	6.11	20.69	32.00	27.00/M	ECE-A1CKA100
	22	4.0	7.0	1.5	P808-ND	.14	.91	6.11	20.69	32.00	27.00/M	ECE-A1CKA220
	33	5.0	7.0	2.0	P809-ND*	.16	1.01	6.79	23.00	35.00	30.00/M	ECE-A1CKA330
	47	5.0	7.0	2.0	P810-ND*	.16	1.01	6.79	23.00	35.00	30.00/M	ECE-A1CKA470
	100	6.3	7.0	2.5	P833-ND	.15	1.02	7.21	24.89	39.00	34.00/M	ECE-A1CKA101
25	4.7	4.0	7.0	1.5	P812-ND*	.14	.91	6.11	20.69	32.00	27.00/M	ECE-A1EKA4R7
	10	4.0	7.0	1.5	P813-ND	.14	.91	6.11	20.69	32.00	27.00/M	ECE-A1EKA100
	22	5.0	7.0	2.0	P814-ND	.16	1.01	6.79	23.00	35.00	30.00/M	ECE-A1EKA220
	33	6.3	7.0	2.5	P815-ND	.15	1.02	7.21	24.89	39.00	34.00/M	ECE-A1EKA330
	47	6.3	7.0	2.5	P834-ND	.15	1.02	7.21	24.89	39.00	34.00/M	ECE-A1EKA470
5	4.7	4.0	7.0	1.5	P817-ND*	.14	.91	6.11	20.69	32.00	27.00/M	ECE-A1VKA4R7
	10	5.0	7.0	2.0	P818-ND*	.16	1.01	6.79	23.00	35.00	30.00/M	ECE-A1VKA100
	22	6.3	7.0	2.5	P819-ND*	.15	1.02	7.21	24.89	39.00	34.00/M	ECE-A1VKA220
	33	6.3	7.0	2.5	P835-ND	.15	1.02	7.21	24.89	39.00	34.00/M	ECE-A1VKA330
	47	8.0	7.0	3.5	P836-ND	.23	1.68	12.03	43.29	67.00	63.00/M	ECE-A1VKA470
	0.1	4.0	7.0	1.5	P820-ND*	.14	.91	6.11	20.69	32.00	27.00/M	ECE-A1HKA0R1
	0.22	4.0	7.0	1.5	P821-ND*	.14	.91	6.11	20.69	32.00	27.00/M	ECE-A1HKAR22
	0.33	4.0	7.0	1.5	P822-ND*	.14	.91	6.11	20.69	32.00	27.00/M	ECE-A1HKAR33
	0.47	4.0	7.0	1.5	P823-ND*	.14	.91	6.11	20.69	32.00	27.00/M	ECE-A1HKAR47
	1.0	4.0	7.0	1.5	P824-ND*	.14	.91	6.11	20.69	32.00	27.00/M	ECE-A1HKA010
0	2.2	4.0	7.0	1.5	P825-ND*	.14	.91	6.11	20.69	32.00	27.00/M	ECE-A1HKA2R2
	3.3	4.0	7.0	1.5	P826-ND*	.14	.91	6.11	20.69	32.00	27.00/M	ECE-A1HKA3R3
	4.7	4.0	7.0	1.5	P827-ND*	.14	.91	6.11	20.69	32.00	27.00/M	ECE-A1HKA4R7
	10	5.0	7.0	2.0	P828-ND*	.16	1.01	6.79	23.00	35.00	30.00/M	ECE-A1HKA100
	22	6.3	7.0	2.5	P837-ND	.15	1.02	7.21	24.89	39.00	34.00/M	ECE-A1HKA220
	33	8.0	7.0	3.5	P838-ND	.23	1.68	12.03	43.29	67.00	63.00/M	ECE-A1HKA330

The KA-Series is a tantalum substitute for many applications.



- **Operating Temperature Range:** -40°C to +85°C.
- **Rated DC Voltage Range:** 6.3 to 63VDC.
- **Rated Capacitance Range:** 1.0 to 100µF.
- **Capacitance Tolerance:** ±20%.
- **tan ∂:** Max. at 120Hz.

W.V.	6.3	10	16	25	35	50
tan	0.24	0.2	0.16	0.14	0.12	0.10

- **DC Leakage Current, Max.:** After 5 minutes application of the DC working voltage, I=0.01 C V or 3µA, whichever is greater.
- **Load Life:** 1,000 hours application of the rated DC working voltage at +85°C, the capacitor shall meet the following limits:

Capacitance Change	Within ±20% of the initial measured value
tan δ	Less than 200% of the initial specified value
DC Leakage Current	Less than the initial specified value

- **Stability at Low and High Temperature:** Impedance ratio at 120Hz -25/20°C, -40/20°C.

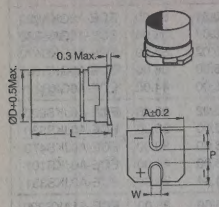
W.V.	6.3	10	16	25	35	50
-25/20°C	4	3	2	2	2	2
-40/20°C	8	6	4	4	3	3

- **Shelf Life:** After 1,000 hours storage without load at +85°C, the capacitor shall meet the above "Load life."
- **Others shall be in accordance with JIS-C-5141 (1976).**

PANASONIC K CROSS REFERENCES:
Elna: RC2, **IC:** RSS, **Marcon:** SSM, **Nichicon:** SR/SA, **Rubycon:** MS7, **UCC:** SRG/SRA

835-KIT-ND ***Digi-Key® KA-Series Capacitors Kit*** 10 each of parts indicated. (160 total pieces) Notebook style storage case **$29.95**

Panasonic® VS Series Aluminum Electrolytic Capacitors, Surface Mount Type



Features: • General Purpose • Life Time: 2000H @ 85°C • Surface Mount Type • High CV Volumetric Efficiency • Tape and Reel Packaging for Automatic Placement

Specifications: • **Operating Temperature Range:** -40°C ~ 85°C • **Capacitance Tolerance:** ±20% (120Hz, +20°C) • **Leakage Current:** I ≤ 0.01CV or 3(μA) whichever is greater measured after a 2 min. application of rated working voltage at +20°C • **Low Temperature Characteristics:** Impedance ratio (120Hz)

Following specified values:

Impedance 120Hz	Series	Working Voltage								
		4.0V	6.3V	10V	16V	25V	35V	50V	63V	100V
-25°C/+20°C	VS	7	4	3	2	2	2	2	3	3
-40°C/+20°C		15	8	6	4	4	3	3	4	4

Series	Case Code	Dimensions					
		D	L	A	I	W	P
VS	A	3.0	5.4	3.3	1.5	0.55±0.1	0.6
	B	4.0	5.4	4.3	1.8	0.65±0.1	1.0
	C	5.0	5.4	5.3	2.2	0.65±0.1	1.5
	D	6.3	5.4	6.6	2.6	0.65±0.1	1.8
	D2	6.3	5.7	6.6	2.6	0.65±0.1	1.8
	D8	6.3	7.9	6.6	2.6	0.65±0.1	1.8
	E	8.0	6.2	8.3	3.4	0.65±0.1	2.2
	F	8.0	10.2	8.3	3.4	0.90±0.2	3.1
	G	10.0	10.2	10.3	3.5	0.90±0.2	4.6

Rated W.V. (VDC)	Nom. Cap. (pF)	tan δ ≤ spec. values (120Hz, +20°C)	Max. Leak. Current (μA)	Size Code	Max. Ripple Cur. 120Hz, 85°C (mA rms)	Digi-Key Part No.	Cut Tape Price Each 5	10	25	100	Digi-Key Part No.	Tape & Reel Size	Tape & Reel Pricing	Panasonic Part No.
VS General Purpose Low Profile Series: -40°C ~ 85°C (2000 Hour Life)														
4	22	0.37	3.0	A	19	PCE3051CT-ND	.24	.20	.19	.17	PCE3051TR-ND	2,000	64.00/M	ECE-V0GS220SR
	33	0.35	3.0	B	26	PCE3052CT-ND	.21	.17	.16	.15	PCE3052TR-ND	2,000	53.00/M	ECE-V0GA330SR
	47	0.35	3.0	B	34	PCE3053CT-ND	.21	.17	.16	.15	PCE3053TR-ND	2,000	53.00/M	ECE-V0GA470SR
	100	0.35	4.0	C	61	PCE3054CT-ND	.30	.25	.23	.21	PCE3054TR-ND	1,000	64.00	ECE-V0GA101SR
	220	0.35	8.8	D	82	PCE3055CT-ND	.28	.23	.21	.20	PCE3055TR-ND	1,000	75.00	ECE-V0GA221SP
6.3	22	0.35	3.0	A	20	PCE3308CT-ND	.24	.20	.19	.17	PCE3308TR-ND	2,000	64.00/M	ECE-V0JS220WR
	22	0.26	3.0	B	29	PCE3056CT-ND	.26	.21	.20	.18	PCE3056TR-ND	2,000	53.00/M	ECE-V0JA220SR
	47	0.35	3.0	B	36	PCE3309CT-ND	.23	.19	.18	.16	PCE3309TR-ND	2,000	59.00/M	ECE-V0JA470WR
	47	0.26	3.0	C	46	PCE3057CT-ND	.30	.25	.23	.21	PCE3057TR-ND	1,000	64.00	ECE-V0JA470SR
	100	0.26	6.3	D	71	PCE3058CT-ND	.34	.28	.26	.24	PCE3058TR-ND	1,000	75.00	ECE-V0JA101SP
	220	0.35	13.8	D	74	PCE3310CT-ND	.35	.29	.27	.25	PCE3310TR-ND	1,000	89.00	ECE-V0JA221WP
	330	0.26	20.8	D8	150	PCE3351CT-ND	.43	.35	.33	.30	PCE3351TR-ND	900	91.80	ECE-V0JA331XP
	330	0.35	20.8	E	300	PCE2034CT-ND	.56	.46	.43	.39	PCE2034TR-ND	1,000	123.00	ECE-V0JA331P
	470	0.35	29.6	F	380	PCE2035CT-ND	.55	.46	.42	.39	PCE2035TR-ND	500	79.50	ECE-V0JA471P
	1000	0.35	63.0	F	500	PCE3173CT-ND	.61	.50	.47	.43	PCE3173TR-ND	500	86.50	ECE-V0JA102UP
	1000	0.35	63.0	G	700	PCE2038CT-ND	.69	.57	.53	.49	PCE2038TR-ND	500	93.00	ECE-V0JA102P
	1500	0.35	94.5	G	750	PCE3174CT-ND	.76	.62	.58	.54	PCE3174TR-ND	500	102.00	ECE-V0JA152P
10	33	0.30	3.3	B	29	PCE3175CT-ND	.23	.19	.17	.16	PCE3175TR-ND	2,000	59.00/M	ECE-V1AA330WR
	33	0.20	3.3	C	43	PCE3059CT-ND	.24	.20	.19	.17	PCE3059TR-ND	1,000	64.00	ECE-V1AA330SR
	47	0.20	4.7	D	65	PCE3060CT-ND	.41	.34	.31	.29	PCE3060TR-ND	1,000	142.00	ECE-V1AA470SP
	100	0.30	10.0	C	50	PCE3311CT-ND	.35	.29	.27	.25	PCE3311TR-ND	1,000	69.00	ECE-V1AA101WR
	100	0.20	10.0	D	70	PCE3176CT-ND	.37	.30	.28	.26	PCE3176TR-ND	1,000	75.00	ECE-V1AA101SP
	220	0.20	22.0	D8	150	PCE3352CT-ND	.51	.42	.39	.36	PCE3352TR-ND	900	91.80	ECE-V1AA221XP
	220	0.26	22.0	E	250	PCE2040CT-ND	.51	.42	.39	.36	PCE2040TR-ND	1,000	123.00	ECE-V1AA221P
	330	0.26	33.0	F	330	PCE2041CT-ND	.55	.46	.42	.39	PCE2041TR-ND	500	79.50	ECE-V1AA331P
	470	0.26	47.0	G	400	PCE2042CT-ND	.69	.57	.53	.49	PCE2042TR-ND	500	93.00	ECE-V1AA471P
	470	0.26	47.0	F	330	PCE3177CT-ND	.55	.46	.42	.39	PCE3177TR-ND	500	79.50	ECE-V1AA471UP
	1000	0.26	100.0	G	580	PCE3178CT-ND	.69	.57	.53	.49	PCE3178TR-ND	500	93.00	ECE-V1AA102P
16	10	0.18	3.0	A	20	PCE3061CT-ND	.24	.20	.19	.17	PCE3061TR-ND	2,000	64.00/M	ECE-V1CS100SR
	10	0.16	3.0	B	28	PCE3062CT-ND	.32	.26	.25	.23	PCE3062TR-ND	2,000	53.00/M	ECE-V1CA100SR
	22	0.26	3.5	B	28	PCE3179CT-ND	.29	.24	.22	.21	PCE3179TR-ND	2,000	59.00/M	ECE-V1CA220WR
	22	0.16	3.5	C	39	PCE3063CT-ND	.30	.25	.23	.21	PCE3063TR-ND	1,000	64.00	ECE-V1CA220SR
	33	0.26	5.3	C	35	PCE3180CT-ND	.26	.21	.20	.18	PCE3180TR-ND	1,000	69.00	ECE-V1CA330WR
	47	0.26	7.5	C	39	PCE3181CT-ND	.33	.27	.26	.24	PCE3181TR-ND	1,000	69.00	ECE-V1CA470WR
	47	0.16	7.5	D	70	PCE3064CT-ND	.34	.28	.26	.24	PCE3064TR-ND	1,000	75.00	ECE-V1CA470SP
	100	0.26	16.0	D	70	PCE3182CT-ND	.43	.35	.33	.30	PCE3182TR-ND	1,000	89.00	ECE-V1CA101WP
	100	0.20	16.0	E	200	PCE2043CT-ND	.51	.42	.39	.36	PCE2043TR-ND	1,000	123.00	ECE-V1CA101P
	220	0.16	35.2	D8	150	PCE3353CT-ND	.64	.53	.49	.45	PCE3353TR-ND	900	91.80	ECE-V1CA221XP
	220	0.20	35.2	E	200	PCE3275CT-ND	.64	.53	.49	.45	PCE3275TR-ND	1,000	123.00	ECE-V1CA221UP
	220	0.20	35.2	F	280	PCE2044CT-ND	.77	.63	.59	.54	PCE2044TR-ND	500	79.50	ECE-V1CA221P
	330	0.20	52.8	F	320	PCE3183CT-ND	.81	.67	.62	.57	PCE3183TR-ND	500	79.50	ECE-V1CA331UP
	330	0.20	52.8	G	380	PCE2045CT-ND	.94	.77	.72	.66	PCE2045TR-ND	500	93.00	ECE-V1CA331P
	470	0.20	75.2	F	350	PCE3184CT-ND	.85	.70	.65	.60	PCE3184TR-ND	500	86.50	ECE-V1CA471UP
	470	0.20	75.2	G	420	PCE2046CT-ND	.94	.77	.72	.66	PCE2046TR-ND	500	93.00	ECE-V1CA471P
25	4.7	0.16	3.0	A	12	PCE3065CT-ND	.24	.20	.19	.17	PCE3065TR-ND	2,000	64.00/M	ECE-V1ES4R7SR
	4.7	0.14	3.0	B	22	PCE3066CT-ND	.21	.17	.16	.15	PCE3066TR-ND	2,000	53.00/M	ECE-V1EA4R7SR
	10	0.14	3.0	C	28	PCE3067CT-ND	.34	.28	.26	.24	PCE3067TR-ND	1,000	64.00	ECE-V1EA100SR
	22	0.14	5.5	D	55	PCE3068CT-ND	.28	.23	.21	.20	PCE3068TR-ND	1,000	75.00	ECE-V1EA220SP
	33	0.20	8.2	C	42	PCE3276CT-ND	.33	.27	.26	.24	PCE3276TR-ND	1,000	69.00	ECE-V1EA330WR
	33	0.14	8.3	D	65	PCE3069CT-ND	.34	.28	.26	.24	PCE3069TR-ND	1,000	75.00	ECE-V1EA330SP
	47	0.16	11.8	D2	70	PCE3185CT-ND	.35	.29	.27	.25	PCE3185TR-ND	1,000	95.00	ECE-V1EA470UP
	100	0.14	25.0	D8	150	PCE3354CT-ND	.51	.42	.39	.36	PCE3354TR-ND	900	91.80	ECE-V1EA101XP
	100	0.16	25.0	E	91	PCE3186CT-ND	.51	.42	.39	.36	PCE3186TR-ND	1,000	123.00	ECE-V1EA101UP
	100	0.16	25.0	F	180	PCE2047CT-ND	.64	.53	.49	.45	PCE2047TR-ND	500	79.50	ECE-V1EA101P
	220	0.16	55.0	F	140	PCE3187CT-ND	.68	.56	.52	.48	PCE3187TR-ND	500	86.50	ECE-V1EA221UP
	220	0.16	55.0	G	310	PCE2048CT-ND	.77	.63	.59	.54	PCE2048TR-ND	500	93.00	ECE-V1EA221P
	330	0.16	82.5	F	270	PCE3188CT-ND	.61	.50	.47	.43	PCE3188TR-ND	500	86.50	ECE-V1EA331UP
	470	0.16	117.5	G	380	PCE3189CT-ND	.90	.74	.69	.63	PCE3189TR-ND	500	102.00	ECE-V1EA471P
35	2.2	0.14	3.0	A	8	PCE3070CT-ND	.24	.20	.19	.17	PCE3070TR-ND	2,000	64.00/M	ECE-V1VS2R2SR
	3.3	0.14	3.0	A	10	PCE3071CT-ND	.24	.20	.19	.17	PCE3071TR-ND	2,000	64.00/M	ECE-V1VS3R3SR
	4.7	0.12	3.0	B	22	PCE3072CT-ND	.26	.21	.20	.18	PCE3072TR-ND	2,000	53.00/M	ECE-V1VA4R7SR
	10	0.16	3.5	B	22	PCE3277CT-ND	.29	.24	.22	.21	PCE3277TR-ND	2,000	59.00/M	ECE-V1VA100WR
	10	0.12	3.5	C	30	PCE3073CT-ND	.30	.25	.23	.21	PCE3073TR-ND	1,000	64.00	ECE-V1VA100SR
	22	0.16	7.7	C	36	PCE3278CT-ND	.33	.27	.26	.24	PCE3278TR-ND	1,000	69.00	ECE-V1VA220WR
	22	0.12	7.7	D	60	PCE3074CT-ND	.34	.28	.26	.24	PCE3074TR-ND	1,000	75.00	ECE-V1VA220SP
	33	0.16	11.5	D	60	PCE3279CT-ND	.35	.29	.27	.25	PCE3279TR-ND	1,000	89.00	ECE-V1VA330WP
	33	0.14	11.6	D2	65	PCE3190CT-ND	.35	.29	.27	.25	PCE3190TR-ND	1,000	95.00	ECE-V1VA330UP
	33	0.14	11.6	E	130	PCE2049CT-ND	.43	.35	.33	.30	PCE2049TR-ND	1,000	123.00	ECE-V1VA330P
	47	0.16	16.4	D	70	PCE3280CT-ND	.43	.35	.33	.30	PCE3280TR-ND	1,000	89.00	ECE-V1VA470WP
	47	0.14	16.5	E	165	PCE2050CT-ND	.51	.42	.39	.36	PCE2050TR-ND	1,000	123.00	ECE-V1VA470P

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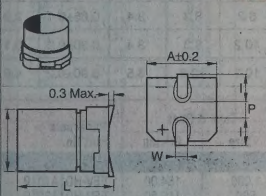
Rated W.V. (VDC)	Nom. Cap. (µF)	tan δ ≤ spec. values (120Hz, +20°C)	Max. Leak. Current (µA)	Size Code	Max. Ripple Cur. 120Hz, 85°C (mA rms)	Cut Tape Price Each Digi-Key Part No.	5	10	25	100	Digi-Key Part No.	Tape & Reel Size	Tape & Reel Pricing	Panasonic Part No.
35	100	0.12	35.0	D8	130	PCE3355CT-ND	.64	.53	.49	.45	PCE3355TR-ND	900	91.80	ECE-V1VA101XP
	100	0.14	35.0	F	140	PCE3191CT-ND	.77	.63	.59	.54	PCE3191TR-ND	500	79.50	ECE-V1VA101UP
	100	0.14	35.0	G	210	PCE2051CT-ND	.90	.74	.69	.63	PCE2051TR-ND	500	93.00	ECE-V1VA101P
	220	0.14	77.0	F	200	PCE3192CT-ND	.61	.50	.47	.43	PCE3192TR-ND	500	86.50	ECE-V1VA221UP
	330	0.14	115.5	G	350	PCE3193CT-ND	.76	.62	.58	.54	PCE3193TR-ND	500	102.00	ECE-V1VA331P
50	0.1	0.14	3.0	A	1	PCE3075CT-ND	.24	.20	.19	.17	PCE3075TR-ND	2,000	64.00/M	ECE-V1HS0R1SR
	0.1	0.12	3.0	B	1	PCE3076CT-ND	.22	.18	.17	.15	PCE3076TR-ND	2,000	53.00/M	ECE-V1HA0R1SR
	0.22	0.14	3.0	A	2	PCE3077CT-ND	.24	.20	.19	.17	PCE3077TR-ND	2,000	64.00/M	ECE-V1HSR22SR
	0.22	0.12	3.0	B	2	PCE3078CT-ND	.21	.17	.16	.15	PCE3078TR-ND	2,000	53.00/M	ECE-V1HAR22SR
	0.33	0.14	3.0	A	3	PCE3079CT-ND	.24	.20	.19	.17	PCE3079TR-ND	2,000	64.00/M	ECE-V1HSR33SR
	0.33	0.12	3.0	B	3	PCE3080CT-ND	.21	.17	.16	.15	PCE3080TR-ND	2,000	53.00/M	ECE-V1HAR33SR
	0.47	0.14	3.0	A	5	PCE3081CT-ND	.24	.20	.19	.17	PCE3081TR-ND	2,000	64.00/M	ECE-V1HSR47SR
	0.47	0.12	3.0	B	5	PCE3082CT-ND	.21	.17	.16	.15	PCE3082TR-ND	2,000	53.00/M	ECE-V1HAR47SR
	1	0.14	3.0	A	8	PCE3083CT-ND	.24	.20	.19	.17	PCE3083TR-ND	2,000	64.00/M	ECE-V1HS010SR
	1	0.12	3.0	B	10	PCE3084CT-ND	.22	.18	.17	.15	PCE3084TR-ND	2,000	53.00/M	ECE-V1HA010SR
	2.2	0.14	3.0	A	10	PCE3085CT-ND	.24	.20	.19	.17	PCE3085TR-ND	2,000	64.00/M	ECE-V1HS2R2SR
	2.2	0.12	3.0	B	16	PCE3086CT-ND	.21	.17	.16	.15	PCE3086TR-ND	2,000	53.00/M	ECE-V1HA2R2SR
	3.3	0.12	3.0	B	16	PCE3087CT-ND	.26	.21	.20	.18	PCE3087TR-ND	2,000	53.00/M	ECE-V1HA3R3SR
	4.7	0.14	3.0	B	18	PCE3281CT-ND	.23	.19	.18	.16	PCE3281TR-ND	2,000	59.00/M	ECE-V1HA4R7WR
	4.7	0.12	3.0	C	23	PCE3088CT-ND	.24	.20	.19	.17	PCE3088TR-ND	1,000	64.00	ECE-V1HA4R7SR
	10	0.14	5.0	C	27	PCE3282CT-ND	.34	.28	.26	.24	PCE3282TR-ND	1,000	69.00	ECE-V1HA100WR
	10	0.12	5.0	D	35	PCE3089CT-ND	.37	.30	.28	.26	PCE3089TR-ND	1,000	75.00	ECE-V1HA100SP
	22	0.14	11.0	D	40	PCE3283CT-ND	.43	.35	.33	.30	PCE3283TR-ND	1,000	89.00	ECE-V1HA220WP
	22	0.12	11.0	D2	60	PCE3194CT-ND	.43	.35	.33	.30	PCE3194TR-ND	1,000	95.00	ECE-V1HA220UP
	22	0.12	11.0	E	120	PCE2053CT-ND	.51	.42	.39	.36	PCE2053TR-ND	1,000	123.00	ECE-V1HA220P
63	33	0.12	16.5	D8	85	PCE3356CT-ND	.43	.35	.33	.30	PCE3356TR-ND	900	91.80	ECE-V1HA330XP
	33	0.12	16.5	E	65	PCE3195CT-ND	.43	.35	.33	.30	PCE3195TR-ND	1,000	123.00	ECE-V1HA330UP
	33	0.12	16.5	F	110	PCE2054CT-ND	.55	.46	.42	.39	PCE2054TR-ND	500	79.50	ECE-V1HA330P
	47	0.12	23.5	D8	90	PCE3357CT-ND	.43	.35	.33	.30	PCE3357TR-ND	900	91.80	ECE-V1HA470XP
	47	0.12	23.5	F	110	PCE3196CT-ND	.55	.46	.42	.39	PCE3196TR-ND	500	79.50	ECE-V1HA470UP
	47	0.12	23.5	G	130	PCE2055CT-ND	.71	.59	.55	.51	PCE2055TR-ND	500	93.00	ECE-V1HA470P
	100	0.12	50.0	F	200	PCE3197CT-ND	.61	.50	.47	.43	PCE3197TR-ND	500	86.50	ECE-V1HA101UP
	220	0.12	110.0	G	300	PCE3198CT-ND	.76	.62	.58	.54	PCE3198TR-ND	500	102.00	ECE-V1HA221P
100	10	0.18	6.3	E	35	PCE3199CT-ND	.35	.29	.27	.25	PCE3199TR-ND	1,000	95.00	ECE-V1JA100P
	22	0.18	13.9	E	40	PCE3284CT-ND	.54	.45	.41	.38	PCE3284TR-ND	1,000	136.00	ECE-V1JA220UP
	22	0.18	13.9	F	40	PCE3200CT-ND	.61	.50	.47	.43	PCE3200TR-ND	500	87.50	ECE-V1JA220P
	33	0.18	20.8	F	45	PCE3201CT-ND	.61	.50	.47	.43	PCE3201TR-ND	500	87.50	ECE-V1JA330P
	47	0.18	29.6	G	45	PCE3202CT-ND	.76	.62	.58	.54	PCE3202TR-ND	500	133.00	ECE-V1JA470P
	100	0.18	63.0	G	60	PCE3203CT-ND	.76	.62	.58	.54	PCE3203TR-ND	500	102.00	ECE-V1JA101P
	3.3	0.18	3.3	E	50	PCE3204CT-ND	.45	.38	.35	.32	PCE3204TR-ND	1,000	136.00	ECE-V2AA3R3P
	4.7	0.18	4.7	E	50	PCE3285CT-ND	.54	.45	.41	.38	PCE3285TR-ND	1,000	150.00	ECE-V2AA4R7UP
	4.7	0.18	4.7	F	80	PCE3205CT-ND	.61	.50	.47	.43	PCE3205TR-ND	500	87.50	ECE-V2AA4R7P
	10	0.18	10.0	E	50	PCE3286CT-ND	.54	.45	.41	.38	PCE3286TR-ND	1,000	150.00	ECE-V2AA100UP
	10	0.18	10.0	F	85	PCE3206CT-ND	.61	.50	.47	.43	PCE3206TR-ND	500	87.50	ECE-V2AA100P
	22	0.18	22.0	F	70	PCE3287CT-ND	.69	.57	.53	.49	PCE3287TR-ND	500	95.50	ECE-V2AA220UP
	22	0.18	22.0	G	85	PCE3207CT-ND	.76	.62	.58	.54	PCE3207TR-ND	500	102.00	ECE-V2AA220P
	33	0.18	33.0	G	90	PCE3208CT-ND	.76	.62	.58	.54	PCE3208TR-ND	500	102.00	ECE-V2AA330P

Panasonic VS Bi-Polar Series Aluminum Electrolytic Capacitors, Surface Mount Type



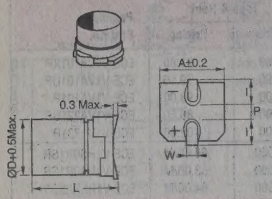
Features: • General Purpose Bi-Polar • Life Time: 1000H @ 85°C • Surface Mount Type • High CV Volumetric Efficiency • Tape and Reel Packaging for Automatic Placement
Specifications: • **Operating Temperature Range:** -40°C ~ 85°C • **Capacitance Tolerance:** ±20% (120Hz, +20°C) • **Leakage Current:** I ≤ 0.01CV or 3(µA) whichever is greater measured after a 2 min. application of rated working voltage at +20°C • **Low Temperature Characteristics:** Impedance ratio (120Hz)
Following specified values:

Impedance 120Hz	Series	Working Voltage 4.0V	6.3V	10V	16V	25V	35V	50V
-25°C/+20°C	VS	7	4	3	2	2	2	2
-40°C/+20°C		15	8	6	4	4	3	3

Series	Case Code	Dimensions D	L	A	I	W	P
VS-BIPOLAR	B	4.0	5.4	4.3	1.8	0.65±0.1	1.0
	C	5.0	5.4	5.3	2.2	0.65±0.1	1.5
	D	6.3	5.4	6.6	2.6	0.65±0.1	1.8

Rated W.V. (VDC)	Nom. Cap. (µF)	tan δ ≤ spec. values (120Hz, +20°C)	Max. Leak. Current (µA)	Size Code	Max. Ripple Cur. 120Hz, 85°C (mA rms)	Cut Tape Price Each Digi-Key Part No.	5	10	25	100	Digi-Key Part No.	Tape & Reel Size	Tape & Reel Pricing	Panasonic Part No.
VS BI-POLAR General Purpose Series: -40°C ~ 85°C (1000 Hour Life)														
6.3	22	0.52	6.0	C	29	PCE3123CT-ND	.37	.30	.28	.26	PCE3123TR-ND	1,000	95.00	ECE-V0JA220NR
	47	0.52	6.0	D	46	PCE3124CT-ND	.42	.34	.32	.30	PCE3124TR-ND	1,000	113.00	ECE-V0JA470NP
10	10	0.40	6.0	B	25	PCE3125CT-ND	.31	.26	.24	.22	PCE3125TR-ND	2,000	80.00/M	ECE-V1AA100NR
	33	0.40	6.6	D	43	PCE3126CT-ND	.42	.34	.32	.30	PCE3126TR-ND	1,000	113.00	ECE-V1AA330NP
16	4.7	0.32	6.0	B	20	PCE3127CT-ND	.31	.26	.24	.22	PCE3127TR-ND	2,000	80.00/M	ECE-V1CA4R7NR
	10	0.32	6.0	C	25	PCE3128CT-ND	.37	.30	.28	.26	PCE3128TR-ND	1,000	95.00	ECE-V1CA100NR
	22	0.32	7.0	D	39	PCE3129CT-ND	.42	.34	.32	.30	PCE3129TR-ND	1,000	113.00	ECE-V1CA220NP
25	3.3	0.28	6.0	B	12	PCE3130CT-ND	.31	.26	.24	.22	PCE3130TR-ND	2,000	80.00/M	ECE-V1EA3R3NR
	4.7	0.28	6.0	C	21	PCE3131CT-ND	.37	.30	.28	.26	PCE3131TR-ND	1,000	95.00	ECE-V1EA4R7NR
	10	0.28	6.0	D	28	PCE3132CT-ND	.43	.35	.33	.30	PCE3132TR-ND	1,000	113.00	ECE-V1EA100NP
35	2.2	0.24	6.0	B	12	PCE3133CT-ND	.31	.26	.24	.22	PCE3133TR-ND	2,000	80.00/M	ECE-V1VA2R2NR
	4.7	0.24	6.0	C	22	PCE3134CT-ND	.37	.30	.28	.26	PCE3134TR-ND	1,000	95.00	ECE-V1VA4R7NR
	10	0.24	7.0	D	30	PCE3135CT-ND	.42	.34	.32	.30	PCE3135TR-ND	1,000	113.00	ECE-V1VA100NP
50	0.22	0.24	6.0	B	2	PCE3136CT-ND	.31	.26	.24	.22	PCE3136TR-ND	2,000	80.00/M	ECE-V1HAR22NR
	0.33	0.24	6.0	B	3	PCE3137CT-ND	.31	.26	.24	.22	PCE3137TR-ND	2,000	80.00/M	ECE-V1HAR33NR
	0.47	0.24	6.0	B	5	PCE3138CT-ND	.31	.26	.24	.22	PCE3138TR-ND	2,000	80.00/M	ECE-V1HAR47NR
	1	0.24	6.0	B	10	PCE3139CT-ND	.31	.26	.24	.22	PCE3139TR-ND	2,000	80.00/M	ECE-V1HA010NR
	2.2	0.24	6.0	C	16	PCE3140CT-ND	.37	.30	.28	.26	PCE3140TR-ND	1,000	95.00	ECE-V1HA2R2NR
	3.3	0.24	6.0	C	21	PCE3141CT-ND	.68	.56	.52	.48	PCE3141TR-ND	1,000	239.00	ECE-V1HA3R3NP
	4.7	0.24	6.0	D	31	PCE3142CT-ND	.42	.34	.32	.30	PCE3142TR-ND	1,000	113.00	ECE-V1HA4R7NP

Panasonic® HB Series Aluminum Electrolytic Capacitors, Surface Mount Type



Features: • General Purpose • Life Time: 2000H @105°C • Surface Mount Type • High CV Volumetric Efficiency • Tape and Reel Packaging for Automatic Placement

Specifications: • **Operating Temperature Range:** -40°C ~ 105°C • **Capacitance Tolerance:** ±20% (120Hz, +20°C) • **Leakage Current:** I ≤ 0.01CV or 3(μA) whichever is greater measured after a 2 min. application of rated working voltage at +20°C • **Low Temperature Characteristics:** Impedance ratio (120Hz)

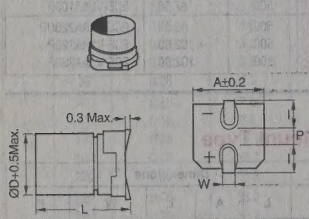
Following specified values:

Impedance 120Hz	Series	Working Voltage						
		4.0V	6.3V	10V	16V	25V	35V	50V
-25°C/+20°C	HB	7	4	3	2	2	2	2
-40°C/+20°C		15	8	6	4	4	3	3

Series	Case Code	Dimensions					
		D	L	A	I	W	P
HB	B	4.0	5.8	4.3	1.8	0.65±0.1	1.0
	C	5.0	5.8	5.3	2.2	0.65±0.1	1.5
	D	6.3	5.8	6.6	2.6	0.65±0.1	1.8

Rated W.V. (VDC)	Nom. Cap. (μF)	tan δ ≤ spec. values (120Hz, +20°C)	Max. Leak. Current (μA)	Size Code	Max. Ripple Cur. 120Hz, 105°C (mA rms)	Digi-Key Part No.	Cut Tape Price Each 5	10	25	100	Digi-Key Part No.	Tape & Reel Size	Tape & Reel Pricing	Panasonic Part No.
HB Long Life High Reliability Series: -40°C ~ 105°C (2000 Hour Life)														
4	47	0.50	3.0	B	34	PCE3023CT-ND	.19	.15	.14	.13	PCE3023TR-ND	2,000	64.00/M	EEV-HB0G470R
	100	0.50	4.0	C	61	PCE3024CT-ND	.22	.18	.17	.16	PCE3024TR-ND	1,000	76.00	EEV-HB0G101R
	220	0.50	8.8	D	82	PCE3025CT-ND	.26	.21	.20	.18	PCE3025TR-ND	1,000	90.00	EEV-HB0G221P
6.3	22	0.30	3.0	B	26	PCE3026CT-ND	.19	.15	.14	.13	PCE3026TR-ND	2,000	64.00/M	EEV-HB0J220R
	33	0.30	3.0	B	29	PCE3027CT-ND	.19	.15	.14	.13	PCE3027TR-ND	2,000	64.00/M	EEV-HB0J330R
	47	0.30	3.0	C	46	PCE3028CT-ND	.22	.18	.17	.16	PCE3028TR-ND	1,000	76.00	EEV-HB0J470R
	100	0.30	6.3	D	71	PCE3029CT-ND	.26	.21	.20	.18	PCE3029TR-ND	1,000	90.00	EEV-HB0J101P
10	33	0.22	3.3	C	43	PCE3030CT-ND	.22	.18	.17	.16	PCE3030TR-ND	1,000	76.00	EEV-HB1A330R
16	10	0.16	3.0	B	28	PCE3031CT-ND	.19	.15	.14	.13	PCE3031TR-ND	2,000	64.00/M	EEV-HB1C100R
	22	0.16	3.5	C	39	PCE3032CT-ND	.22	.18	.17	.16	PCE3032TR-ND	1,000	76.00	EEV-HB1C220R
	47	0.16	7.5	D	70	PCE3033CT-ND	.26	.21	.20	.18	PCE3033TR-ND	1,000	90.00	EEV-HB1C470P
25	4.7	0.14	3.0	B	22	PCE3034CT-ND	.19	.15	.14	.13	PCE3034TR-ND	2,000	64.00/M	EEV-HB1E4R7R
	6.8	0.14	3.0	B	25	PCE3035CT-ND	.19	.15	.14	.13	PCE3035TR-ND	2,000	64.00/M	EEV-HB1E6R8R
	10	0.14	3.0	C	28	PCE3036CT-ND	.74	.61	.56	.52	PCE3036TR-ND	1,000	258.00	EEV-HB1E100R
	22	0.14	5.5	D	55	PCE3037CT-ND	.85	.70	.65	.60	PCE3037TR-ND	1,000	300.00	EEV-HB1E220P
	33	0.14	8.3	D	65	PCE3038CT-ND	.26	.21	.20	.18	PCE3038TR-ND	1,000	90.00	EEV-HB1E330P
35	10	0.12	3.5	C	28	PCE3039CT-ND	.22	.18	.17	.16	PCE3039TR-ND	1,000	76.00	EEV-HB1V100R
	22	0.12	7.7	D	55	PCE3040CT-ND	.26	.21	.20	.18	PCE3040TR-ND	1,000	90.00	EEV-HB1V220P
50	0.1	0.12	3.0	B	1	PCE3041CT-ND	.19	.15	.14	.13	PCE3041TR-ND	2,000	64.00/M	EEV-HB1HR10R
	0.22	0.12	3.0	B	2	PCE3042CT-ND	.19	.15	.14	.13	PCE3042TR-ND	2,000	64.00/M	EEV-HB1HR22R
	0.33	0.12	3.0	B	3	PCE3043CT-ND	.19	.15	.14	.13	PCE3043TR-ND	2,000	64.00/M	EEV-HB1HR33R
	0.47	0.12	3.0	B	5	PCE3044CT-ND	.19	.15	.14	.13	PCE3044TR-ND	2,000	64.00/M	EEV-HB1HR47R
	1	0.12	3.0	B	10	PCE3045CT-ND	.19	.15	.14	.13	PCE3045TR-ND	2,000	64.00/M	EEV-HB1H1R0R
	2.2	0.12	3.0	B	16	PCE3046CT-ND	.19	.15	.14	.13	PCE3046TR-ND	2,000	64.00/M	EEV-HB1H2R2R
	3.3	0.12	3.0	B	16	PCE3047CT-ND	.19	.15	.14	.13	PCE3047TR-ND	2,000	64.00/M	EEV-HB1H3R3R
	4.7	0.12	3.0	C	23	PCE3048CT-ND	.22	.18	.17	.16	PCE3048TR-ND	1,000	76.00	EEV-HB1H4R7R
	6.8	0.12	3.4	C	23	PCE3049CT-ND	.26	.21	.20	.18	PCE3049TR-ND	1,000	90.00	EEV-HB1H6R8R
	10.0	0.12	5.0	D	35	PCE3050CT-ND	.26	.21	.20	.18	PCE3050TR-ND	1,000	90.00	EEV-HB1H100P

Panasonic® HD Series Aluminum Electrolytic Capacitors, Surface Mount Type



Features: • Long Life • Life Time: 5000H @105°C • Surface Mount Type • High CV Volumetric Efficiency • Tape and Reel Packaging for Automatic Placement • Anti-solvent: Freon-TE, TES, TP-35

Specifications: • **Operating Temperature Range:** -40°C ~ 105°C • **Capacitance Tolerance:** ±20% (120Hz, +20°C) • **Leakage Current:** I ≤ 0.01CV or 3(μA) whichever is greater measured after a 2 min. application of rated working voltage at +20°C • **Low Temperature Characteristics:** Impedance ratio (120Hz)

Following specified values:

Impedance 120Hz	Series	Working Voltage						
		10V	16V	25V	35V	50V	63V	100V
-25°C/+20°C	HD	6	2	2	2	2	2	2
-40°C/+20°C		12	5	3	3	3	3	3

Series	Case Code	Dimensions					
		D	L	A	I	W	P
HD	B	4.0	5.8	4.3	1.8	0.65±0.1	1.0
	C	5.0	5.8	5.3	2.2	0.65±0.1	1.5
	D	6.3	5.8	6.6	2.6	0.65±0.1	1.8
	E	8.0	6.2	8.3	3.4	0.65±0.1	2.2
	F	8.0	10.2	8.3	3.4	0.90±0.2	3.1
	G	10.0	10.2	10.3	3.5	0.90±0.2	4.6

Rated W.V. (VDC)	Nom. Cap. (μF)	tan δ ≤ spec. values (120Hz, +20°C)	Impedance (ohms)	Max. Leak. Current (μA)	Size Code	Max. Ripple Cur. 120Hz, 105°C (mA rms)	Digi-Key Part No.	Cut Tape Price Each 5	10	25	100	Digi-Key Part No.	Tape & Reel Size	Tape & Reel Pricing	Panasonic Part No.
HD Series: -40°C ~ 105°C (5000 Hour Life)															
10	100	0.30	2.0	10.0	E	62	PCE3364CT-ND	.53	.43	.40	.37	PCE3364TR-ND	1,000	184.00	EEV-HD1A101P
	220	0.30	1.5	22.0	F	93	PCE3365CT-ND	.68	.56	.52	.48	PCE3365TR-ND	500	119.50	EEV-HD1A221P
	330	0.30	0.8	33.0	G	118	PCE3366CT-ND	.80	.66	.61	.56	PCE3366TR-ND	500	139.50	EEV-HD1A331P
16	10	0.20	12.0	3.0	B	20	PCE3338CT-ND	.23	.19	.18	.17	PCE3338TR-ND	2,000	80.00/M	EEV-HD1C100R
	22	0.20	7.2	3.5	C	33	PCE3339CT-ND	.27	.23	.21	.20	PCE3339TR-ND	1,000	95.00	EEV-HD1C220R
	47	0.20	4.0	7.5	D	55	PCE3340CT-ND	.32	.27	.25	.23	PCE3340TR-ND	1,000	113.00	EEV-HD1C470P
	100	0.23	1.5	16.0	F	89	PCE3367CT-ND	.68	.56	.52	.48	PCE3367TR-ND	500	119.50	EEV-HD1C101P
	220	0.23	0.8	35.2	G	113	PCE3368CT-ND	1.25	1.03	.95	.88	PCE3368TR-ND	500	219.00	EEV-HD1C221P
25	33	0.16	4.0	8.3	D	52	PCE3341CT-ND	.32	.27	.25	.23	PCE3341TR-ND	1,000	113.00	EEV-HD1E330P
	47	0.18	2.0	11.8	E	56	PCE3369CT-ND	.53	.43	.40	.37	PCE3369TR-ND	1,000	184.00	EEV-HD1E470P
	100	0.18	1.5	25.0	F	84	PCE3370CT-ND	.68	.56	.52	.48	PCE3370TR-ND	500	119.50	EEV-HD1E101P
35	4.7	0.13	12.0	3.0	B	17	PCE3342CT-ND	.23	.19	.18	.17	PCE3342TR-ND	2,000	80.00/M	EEV-HD1V4R7R
	10	0.13	7.2	3.5	C	28	PCE3343CT-ND	.27	.23	.21	.20	PCE3343TR-ND	1,000	95.00	EEV-HD1V100R
	22	0.13	4.0	7.7	D	47	PCE3344CT-ND	.32	.27	.25	.23	PCE3344TR-ND	1,000	113.00	EEV-HD1V220P
	33	0.16	2.0	11.6	E	53	PCE3371CT-ND	.53	.43	.40	.37	PCE3371TR-ND	1,000	184.00	EEV-HD1V330P
	47	0.16	1.5	16.5	F	79	PCE3372CT-ND	.68	.56	.52	.48	PCE3372TR-ND	500	119.50	EEV-HD1V470P
	100	0.16	0.8	35.0	G	101	PCE3373CT-ND	.80	.66	.61	.56	PCE3373TR-ND	500	139.50	EEV-HD1V101P
50	0.47	0.12	12.0	3.0	B	5	PCE3345CT-ND	.23	.19	.18	.17	PCE3345TR-ND	2,000	80.00/M	EEV-HD1HR47R
	1.0	0.12	12.0	3.0	B	7	PCE3346CT-ND	.23	.19	.18	.17	PCE3346TR-ND	2,000	80.00/M	EEV-HD1H1R0R
	2.2	0.12	12.0	3.0	B	12	PCE3347CT-ND	.23	.19	.18	.17	PCE3347TR-ND	2,000	80.00/M	EEV-HD1H2R2R
	3.3	0.12	12.0	3.0	B	16	PCE3348CT-ND	.23	.19	.18	.17	PCE3348TR-ND	2,000	80.00/M	EEV-HD1H3R3R
	4.7	0.12	7.2	3.0	C	21	PCE3349CT-ND	.27	.23	.21	.20	PCE3349TR-ND	1,000	95.00	EEV-HD1H4R7R
	10	0.12	4.0	5.0	D	33	PCE3350CT-ND	.32	.27	.25	.23	PCE3350TR-ND	1,000	113.00	EEV-HD1H100P
	22	0.14	2.0	11.0	E	50	PCE3374CT-ND	.53	.43	.40	.37	PCE3374TR-ND	1,000	184.00	EEV-HD1H220P
	33	0.14	1.5	16.5	F	74	PCE3375CT-ND	.68	.56	.52	.48	PCE3375TR-ND	500	119.50	EEV-HD1H330P
	47	0.14	0.8	23.5	G	94	PCE3376CT-ND	.80	.66	.61	.56	PCE3376TR-ND	500	139.50	EEV-HD1H470P
63	10	0.18	2.0	6.3	E	45	PCE3571CT-ND	.49	.46	.40	.31	PCE3571TR-ND	1,000	184.00	EEV-HD1J100P
	22	0.18	1.5	13.8	F	65	PCE3572CT-ND	.64	.60	.52	.48	PCE3572TR-ND	500	119.50	EEV-HD1J220P
	33	0.18	0.8	20.7	G	80	PCE3573CT-ND	.75	.70	.61	.56	PCE3573TR-ND	500	139.50	EEV-HD1J330P
100	3.3	0.18	2.0	3.3	E	30	PCE3576CT-ND	.49	.46	.40	.37	PCE3576TR-ND	1,000	184.00	EEV-HD2A3R3P
	4.7	0.18	1.5	4.7	F	50	PCE3577CT-ND	.64	.60	.52	.48	PCE3577TR-ND	500	119.50	EEV-HD2A4R7P
	10.0	0.18	1.5	10.0	F	55	PCE3574CT-ND	.64	.60	.52	.48	PCE3574TR-ND	500	119.50	EEV-HD2A100P
	22.0	0.18	0.8	22.0	G	70	PCE3575CT-ND	.75	.70	.61	.56	PCE3575TR-ND	500	139.50	EEV-HD2A220P

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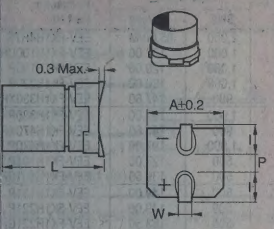
anasonic® FK Series Aluminum Electrolytic Capacitors, Surface Mount Type



Features: • Low Impedance (40-60% lower than FC) • Small Size (30-50% smaller than FC) • Long Life: 2000-5000H @ 105°C • Surface Mount Type • High CV Volumetric Efficiency • Tape and Reel Packaging for Automatic Placement

Specifications: • **Operating Temperature Range:** -55°C ~ 105°C • **Capacitance Tolerance:** ±20% (120Hz, +20°C) • **Leakage Current:** I ≤ 0.01CV or 3(μA) whichever is greater measured after a 2 min. application of rated working voltage at +20°C • **Low Temperature Characteristics:** Impedance ratio (120Hz)

Following specified values.

Impedance 120Hz	Series	Working Voltage 6.3V	10V	16V	25V	35V	50V	63V	80V	100V
-25°C/+20°C	FK	2	2	2	2	2	2	2	2	2
-40°C/+20°C		3	3	3	3	3	3	3	3	3
-55°C/+20°C		4	4	4	3	3	3	3	3	3

Series	Case Code	Dimensions D	L	A	I	W	P
FK	B	4	5.8	4.3	1.8	0.65±0.1	1.0
	C	5	5.8	5.3	2.2	0.65±0.1	1.5
	D	6.3	5.8	6.6	2.6	0.65±0.1	1.8
	D8	6.3	7.7	6.6	2.6	0.65±0.1	1.8
	E	8	6.2	8.3	3.4	0.65±0.1	2.2
	F	8	10.2	8.3	3.4	0.90±0.2	3.1
	G	10	10.2	10.3	3.5	0.90±0.2	4.6
	H13	12.5	13.5	13.5	4.7	0.90±0.3	4.4
	J16	16	16.5	17.0	5.5	1.2±0.3	6.7
	K16	18	16.5	19.0	6.7	1.2±0.3	6.7

d . :)	Nom. Cap. (μF)	tan δ ≤ spec. values (120Hz, +20°C)	Impedance (ohms)	Max. Leak. Current (μA)	Size Code	Max. Ripple Cur. 100KHz, 105°C (mA rms)	Digi-Key Part No.	Cut Tape Price Each 5	10	25	100	Digi-Key Part No.	Tape & Reel Size	Pricing	Panasonic Part No.
FK Series: Low Impedance (40-60% lower than FC), High Reliability, -55°C ~ 105°C (2000 Hour Life, GP Suffix 5000 Hour)															
	22	0.26	1.35	3.0	B	90	PCE3377CT-ND	.25	.20	.19	.18	PCE3377TR-ND	2,000	85.00/M	EEV-FK0J220R
	47	0.26	1.35	3.0	B	90	PCE3378CT-ND	.25	.20	.19	.18	PCE3378TR-ND	2,000	85.00/M	EEV-FK0J470UR
	47	0.26	0.70	3.0	C	160	PCE3379CT-ND	.29	.24	.23	.21	PCE3379TR-ND	1,000	102.00	EEV-FK0J470R
	100	0.26	0.70	6.3	C	160	PCE3380CT-ND	.29	.24	.23	.21	PCE3380TR-ND	1,000	102.00	EEV-FK0J101UR
	100	0.26	0.36	6.3	D	240	PCE3381CT-ND	.34	.28	.26	.24	PCE3381TR-ND	1,000	120.00	EEV-FK0J101P
	220	0.26	0.36	13.9	D	240	PCE3382CT-ND	.34	.28	.26	.24	PCE3382TR-ND	1,000	120.00	EEV-FK0J221P
	330	0.26	0.26	20.8	E	300	PCE3383CT-ND	.56	.46	.43	.40	PCE3383TR-ND	1,000	196.00	EEV-FK0J331P
	330	0.26	0.34	20.8	D8	280	PCE3507CT-ND	.47	.39	.36	.33	PCE3507TR-ND	900	147.60	EEV-FK0J331XP
	470	0.26	0.16	29.6	F	600	PCE3384CT-ND	.72	.60	.56	.51	PCE3384TR-ND	500	127.00	EEV-FK0J471P
	470	0.26	0.16	29.6	F	600	PCE3708CT-ND	.79	.66	.61	.56	PCE3708TR-ND	500	139.50	EEV-FK0J471GP
	1000	0.26	0.16	63.0	F	600	PCE3385CT-ND	.72	.60	.56	.51	PCE3385TR-ND	500	127.00	EEV-FK0J102P
	1000	0.26	0.16	63.0	F	600	PCE3706CT-ND	.79	.66	.61	.56	PCE3706TR-ND	500	139.50	EEV-FK0J102GP
	1500	0.26	0.08	94.5	G	850	PCE3386CT-ND	.85	.70	.65	.60	PCE3386TR-ND	500	149.00	EEV-FK0J152P
	1500	0.26	0.08	94.5	G	850	PCE3707CT-ND	.93	.77	.71	.66	PCE3707TR-ND	500	163.50	EEV-FK0J152GP
	3300	0.30	0.060	207.9	H13	1100	PCE3454CT-ND	1.42	1.17	1.09	1.00	PCE3454TR-ND	200	100.00	EEV-FK0J332Q
	6800	0.36	0.035	428.4	J16	1800	PCE3455CT-ND	2.32	1.91	1.78	—	PCE3455TR-ND	125	102.25	EEV-FK0J682M
	22	0.19	1.35	3.0	B	90	PCE3387CT-ND	.25	.20	.19	.18	PCE3387TR-ND	2,000	85.00/M	EEV-FK1A220R
	33	0.19	1.35	3.3	B	90	PCE3388CT-ND	.25	.20	.19	.18	PCE3388TR-ND	2,000	85.00/M	EEV-FK1A330UR
	33	0.19	0.70	3.3	C	160	PCE3389CT-ND	.29	.24	.23	.21	PCE3389TR-ND	1,000	102.00	EEV-FK1A330R
	150	0.19	0.36	15.0	D	240	PCE3508CT-ND	.34	.28	.26	.24	PCE3508TR-ND	1,000	120.00	EEV-FK1A151P
	220	0.19	0.34	22.0	D8	280	PCE3509CT-ND	.47	.39	.36	.33	PCE3509TR-ND	900	147.60	EEV-FK1A221XP
	220	0.19	0.26	22.0	E	300	PCE3390CT-ND	.56	.46	.43	.40	PCE3390TR-ND	1,000	196.00	EEV-FK1A221P
	330	0.19	0.16	33.0	F	600	PCE3391CT-ND	.72	.60	.56	.51	PCE3391TR-ND	500	127.00	EEV-FK1A331P
	330	0.19	0.16	33.0	F	600	PCE3710CT-ND	.79	.66	.61	.56	PCE3710TR-ND	500	139.50	EEV-FK1A331GP
	470	0.19	0.16	47.0	F	600	PCE3392CT-ND	.72	.60	.56	.51	PCE3392TR-ND	500	127.00	EEV-FK1A471P
	470	0.19	0.16	47.0	F	600	PCE3711CT-ND	.79	.66	.61	.56	PCE3711TR-ND	500	139.50	EEV-FK1A471GP
	680	0.49	0.016	68.0	G	600	PCE3510CT-ND	.72	.60	.56	.51	PCE3510TR-ND	500	127.00	EEV-FK1A681P
	1000	0.19	0.08	100.0	G	850	PCE3393CT-ND	.85	.70	.65	.60	PCE3393TR-ND	500	149.00	EEV-FK1A102P
	1000	0.19	0.08	100.0	G	850	PCE3709CT-ND	.93	.77	.71	.66	PCE3709TR-ND	500	163.50	EEV-FK1A102GP
	2200	0.21	0.060	220.0	H13	1100	PCE3456CT-ND	1.42	1.17	1.09	1.00	PCE3456TR-ND	200	100.00	EEV-FK1A222Q
	4700	0.25	0.035	470.0	J16	1800	PCE3457CT-ND	2.32	1.91	1.78	—	PCE3457TR-ND	125	102.25	EEV-FK1A472M
	6800	0.29	0.033	680.0	K16	2060	PCE3458CT-ND	2.74	2.26	2.10	—	PCE3458TR-ND	125	120.63	EEV-FK1A682M
	10	0.16	1.35	3.0	B	90	PCE3394CT-ND	.25	.20	.19	.18	PCE3394TR-ND	2,000	85.00/M	EEV-FK1C100R
	22	0.16	1.35	3.5	B	90	PCE3395CT-ND	.25	.20	.19	.18	PCE3395TR-ND	2,000	85.00/M	EEV-FK1C220UR
	22	0.16	0.70	3.5	C	160	PCE3396CT-ND	.29	.24	.23	.21	PCE3396TR-ND	1,000	102.00	EEV-FK1C220R
	47	0.16	0.70	7.5	C	160	PCE3397CT-ND	.29	.24	.23	.21	PCE3397TR-ND	1,000	102.00	EEV-FK1C470UR
	47	0.16	0.36	7.5	D	240	PCE3398CT-ND	.34	.28	.26	.24	PCE3398TR-ND	1,000	120.00	EEV-FK1C470P
	68	0.16	0.36	10.9	D	240	PCE3511CT-ND	.34	.28	.26	.24	PCE3511TR-ND	1,000	120.00	EEV-FK1C680P
	100	0.16	0.36	16.0	D	240	PCE3399CT-ND	.34	.28	.26	.24	PCE3399TR-ND	1,000	120.00	EEV-FK1C101P
	150	0.16	0.34	24.0	D8	280	PCE3512CT-ND	.47	.39	.36	.33	PCE3512TR-ND	900	147.60	EEV-FK1C151XP
	220	0.16	0.34	35.2	D8	280	PCE3513CT-ND	.47	.39	.36	.33	PCE3513TR-ND	900	147.60	EEV-FK1C221XP
	220	0.16	0.26	35.2	E	300	PCE3400CT-ND	.56	.46	.43	.40	PCE3400TR-ND	1,000	196.00	EEV-FK1C221P
	330	0.16	0.16	52.8	F	600	PCE3401CT-ND	.72	.60	.56	.51	PCE3401TR-ND	500	127.00	EEV-FK1C331P
	330	0.16	0.16	52.8	F	600	PCE3712CT-ND	.79	.66	.61	.56	PCE3712TR-ND	500	139.50	EEV-FK1C331GP
	470	0.16	0.16	75.2	F	600	PCE3402CT-ND	.72	.60	.56	.51	PCE3402TR-ND	500	127.00	EEV-FK1C471P
	470	0.16	0.16	75.2	F	600	PCE3713CT-ND	.79	.66	.61	.56	PCE3713TR-ND	500	139.50	EEV-FK1C471GP
	680	0.16	0.08	108.8	G	850	PCE3501CT-ND	1.24	1.02	.95	.87	PCE3501TR-ND	500	217.50	EEV-FK1C681P
	680	0.16	0.08	108.8	G	850	PCE3714CT-ND	.93	.77	.71	.66	PCE3714TR-ND	500	163.50	EEV-FK1C681GP
	1500	0.16	0.060	240.0	H13	1100	PCE3459CT-ND	1.42	1.17	1.09	1.00	PCE3459TR-ND	200	100.00	EEV-FK1C152Q
	3300	0.20	0.035	528.0	J16	1800	PCE3460CT-ND	2.32	1.91	1.78	—	PCE3460TR-ND	125	102.25	EEV-FK1C332M
	4700	0.22	0.033	752.0	K16	2060	PCE3461CT-ND	2.74	2.26	2.10	—	PCE3461TR-ND	125	120.63	EEV-FK1C472M
	10	0.14	1.35	3.0	B	90	PCE3403CT-ND	.25	.20	.19	.18	PCE3403TR-ND	2,000	85.00/M	EEV-FK1E100R
	22	0.14	0.70	5.5	C	160	PCE3404CT-ND	.29	.24	.23	.21	PCE3404TR-ND	1,000	102.00	EEV-FK1E220R
	33	0.14	0.70	8.3	C	160	PCE3405CT-ND	.29	.24	.23	.21	PCE3405TR-ND	1,000	102.00	EEV-FK1E330UR
	33	0.14	0.36	8.3	D	240	PCE3406CT-ND	.34	.28	.26	.24	PCE3406TR-ND	1,000	120.00	EEV-FK1E330P
	47	0.14	0.36	11.8	D	240	PCE3407CT-ND	.34	.28	.26	.24	PCE3407TR-ND	1,000	120.00	EEV-FK1E470P
	68	0.14	0.36	17.0	D	240	PCE3514CT-ND	.34	.28	.26	.24	PCE3514TR-ND	1,000	120.00	EEV-FK1E680P
	100	0.14	0.34	25.0	D8	280	PCE3515CT-ND	.47	.39	.36	.33	PCE3515TR-ND	900	147.60	EEV-FK1E101XP
	100	0.14	0.26	25.0	E	300	PCE3408CT-ND	.56	.46	.43	.40	PCE3408TR-ND	1,000	196.00	EEV-FK1E101P
	150	0.14	0.16	37.5	F	600	PCE3516CT-ND	.72	.60	.56	.51	PCE3516TR-ND	500	127.00	EEV-FK1E151P
	220	0.14	0.16	55.0	F	600	PCE3409CT-ND	.72	.60	.56	.51	PCE3409TR-ND	500	127.00	EEV-FK1E221P
	220	0.14	0.16	55.0	F	600	PCE3715CT-ND	.79	.66	.61	.56	PCE3715TR-ND	500	139.50	EEV-FK1E221GP
	330	0.14	0.16	82.5	F	600	PCE3410CT-ND	.72	.60	.56	.51	PCE3410TR-ND	500	127.00	EEV-FK1E331P
	330	0.14	0.16	82.5	F	600	PCE3716CT-ND	.79	.66	.61	.56	PCE3716TR-ND	500	139.50	EEV-FK1E331GP
	470	0.14	0.08	117.5	G	850	PCE3411CT-ND	.85	.70	.65	.60	PCE3411TR-ND	500	149.00	EEV-FK1E471P
	470	0.14	0.08	117.5	G	850	PCE3717CT-ND	.93	.77	.71	.66	PCE3717TR-ND	500	163.50	EEV-FK1E471GP
	1000	0.14	0.060	250.0	H13	1100	PCE3462CT-ND	1.42	1.17	1.09	1.00	PCE3462TR-ND	200	100.00	EEV-FK1E102Q
	2200	0.16	0.035	550.0	J16	1800	PCE3463CT-ND	2.32	1.91	1.78	—	PCE3463TR-ND	125	102.25	EEV-FK1E222M
	3300	0.18	0.033	825.0	K16	2060	PCE3506CT-ND	2.74	2.26	2.10	—	PCE3506TR-ND	125	120.63	EEV-FK1E332M
	4.7	0.12	1.35	3.0	B	90	PCE3412CT-ND	.25	.20	.19	.18	PCE3412TR-ND	2,000	85.00/M	EEV-FK1V4R7R
	10	0.12	1.35	3.5	B	90	PCE3413CT-ND	.25	.20	.19	.18	PCE3413TR-ND	2,000	85.00/M	EEV-FK1V100UR
	10	0.12	0.70	3.5	C	160	PCE3414CT-ND	.29	.24	.23	.21	PCE3414TR-ND	1,000	102.00	EEV-FK1V100R
	22	0.12	0.70	7.7	C	160	PCE3415CT-ND	.29	.24	.23	.21	PCE3415TR-ND	1,000	102.00	EEV-FK1V220R
	33	0.12	0.36	11.6	D	240	PCE3416CT-ND	.34	.28	.26	.24	PCE3416TR-ND	1,000	120.00	EEV-FK1V330P
	47	0.12	0.36	16.5	D	240	PCE3417CT-ND	.34	.28	.26	.24	PCE3417TR-ND	1,000	120.00	EEV-FK1V470P
	68	0.12	0.34	23.8	D8	280	PCE3517CT-ND	.47	.39	.36	.33	PCE3517TR-ND	900	147.60	EEV-FK1V680XP
	100	0.12	0.34	35.0	D8	280	PCE3518CT-ND	.47	.39	.36	.33	PCE3518TR-ND	900	147.60	EEV-FK1V101XP
	100	0.12	0.16	35.0	F	600	PCE3418CT-ND	.72	.60	.56	.51	PCE3418TR-ND	500	127.00	EEV-FK1V101P
	100	0.12	0.16	35.0	F	600	PCE3720CT-ND	.79	.66	.61	.56	PCE3720TR-ND	500	139.50	EEV-FK1V101GP
	150	0.12	0.16	52.5	F	600	PCE3519CT-ND	.72	.60	.56	.51	PCE3519TR-ND	500	127.00	EEV-FK1V151P
	220	0.12	0.16	77.0	F	600	PCE3419CT-ND	.72	.60	.56	.51	PCE3419TR-ND	500	127.00	EEV-FK1V221P
	220	0.12	0.16	77.0	F	600	PCE3721CT-ND	.79	.66	.61	.56	PCE3721TR-ND	500	139.50	EEV-FK1V221GP
	330	0.12	0.08	115.5	G	850	PCE3420CT-ND	.85	.70	.65	.60	PCE3420TR-ND	500	149.00	EEV-FK1V331P
	330	0.12	0.08	115.5	G	850	PCE3722CT-ND	.93	.77	.71	.66	PCE3722TR-ND	500	163.50	EEV-FK1V331GP
	470	0.12	0.060	164.5	H13	1100	PCE3464CT-ND	1.42	1.17	1.09	1.00	PCE3464TR-ND	200	100.00	EEV-FK1V471Q
	680	0.12	0.060	238.0	H13	1100	PCE3465CT-ND	1.42	1.17	1.09	1.00	PCE3465TR-ND	200	100.00	EEV-FK1V681Q
	1500	0.12	0.035	525.0	J16	1800	PCE3466CT-ND	2.32	1.91	1.78	—	PCE3466TR-ND	125	102.25	EEV-FK1V152M

(Continued)

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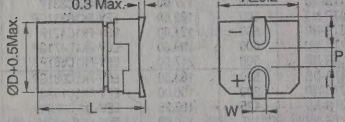
Panasonic FK Series Aluminum Electrolytic Capacitors, Surface Mount Type (Cont.)

Rated W.V. (VDC)	Nom. Cap. (µF)	tan δ ≤ spec. values (120Hz, +20°C)	Impedance (ohms)	Max. Leak. Current (µA)	Size Code	Max. Ripple Cur. 100KHz, 105°C (mA rms)	Digi-Key Part No.	Cut Tape Price Each 5	10	25	100	Digi-Key Part No.	Tape & Reel Size	Tape & Reel Pricing	Panasonic Part No.
50	4.7	0.10	2.90	3.0	B	60	PCE3467CT-ND	.25	.20	.19	.18	PCE3467TR-ND	2,000	85.00/M	EEV-FK1H4R7R
	10	0.10	1.52	5.0	C	85	PCE3468CT-ND	.29	.24	.23	.21	PCE3468TR-ND	1,000	102.00	EEV-FK1H100UR
	10	0.10	0.88	5.0	D	165	PCE3469CT-ND	.34	.28	.26	.24	PCE3469TR-ND	1,000	120.00	EEV-FK1H100P
	22	0.10	0.88	11.0	D	165	PCE3470CT-ND	.34	.28	.26	.24	PCE3470TR-ND	1,000	120.00	EEV-FK1H220P
	33	0.10	0.68	16.5	D8	195	PCE3520CT-ND	.47	.39	.36	.33	PCE3520TR-ND	900	147.60	EEV-FK1H330XP
	33	0.10	0.68	16.5	E	195	PCE3471CT-ND	.56	.46	.43	.40	PCE3471TR-ND	1,000	197.00	EEV-FK1H330P
	47	0.10	0.68	23.5	D8	195	PCE3521CT-ND	.47	.39	.36	.33	PCE3521TR-ND	900	147.60	EEV-FK1H470XP
	47	0.10	0.68	23.5	E	195	PCE3472CT-ND	.56	.46	.43	.40	PCE3472TR-ND	1,000	197.00	EEV-FK1H470P
	100	0.10	0.34	50.0	F	350	PCE3473CT-ND	.72	.60	.56	.51	PCE3473TR-ND	500	127.00	EEV-FK1H101P
	100	0.10	0.34	50.0	F	350	PCE3718CT-ND	.79	.66	.61	.56	PCE3718TR-ND	500	139.50	EEV-FK1H101GP
	150	0.10	0.18	75.0	G	670	PCE3522CT-ND	.85	.70	.65	.60	PCE3522TR-ND	500	149.00	EEV-FK1H151P
	220	0.10	0.18	110.0	G	670	PCE3474CT-ND	.85	.70	.65	.60	PCE3474TR-ND	500	149.00	EEV-FK1H221P
	220	0.10	0.18	110.0	G	670	PCE3719CT-ND	.93	.77	.71	.66	PCE3719TR-ND	500	163.50	EEV-FK1H221GP
	330	0.10	0.12	165.0	H13	900	PCE3475CT-ND	1.42	1.17	1.09	1.00	PCE3475TR-ND	200	100.00	EEV-FK1H331Q
	680	0.10	0.073	340.0	J16	1610	PCE3523CT-ND	2.32	1.91	1.78	—	PCE3523TR-ND	125	102.25	EEV-FK1H681M
	1000	0.10	0.073	500.0	J16	1610	PCE3477CT-ND	2.32	1.91	1.78	—	PCE3477TR-ND	125	102.25	EEV-FK1H102M
63	4.7	0.08	3.00	3.0	C	50	PCE3478CT-ND	.31	.25	.24	.22	PCE3478TR-ND	1,000	107.00	EEV-FK1J4R7R
	10	0.08	1.50	6.3	D	80	PCE3479CT-ND	.36	.30	.28	.26	PCE3479TR-ND	1,000	126.00	EEV-FK1J100P
	22	0.08	1.20	13.9	D8	120	PCE3524CT-ND	.49	.41	.38	.35	PCE3524TR-ND	900	154.80	EEV-FK1J220XR
	22	0.08	1.20	13.9	E	120	PCE3480CT-ND	.59	.49	.45	.42	PCE3480TR-ND	1,000	206.00	EEV-FK1J220P
	33	0.08	0.65	20.8	F	250	PCE3481CT-ND	.76	.63	.58	.54	PCE3481TR-ND	500	133.50	EEV-FK1J330P
	47	0.08	0.65	29.6	F	250	PCE3482CT-ND	.76	.63	.58	.54	PCE3482TR-ND	500	133.50	EEV-FK1J470P
	68	0.08	0.35	42.8	G	400	PCE3525CT-ND	.89	.73	.68	.63	PCE3525TR-ND	500	156.50	EEV-FK1J680P
	100	0.08	0.35	63.0	G	400	PCE3483CT-ND	.89	.73	.68	.63	PCE3483TR-ND	500	156.50	EEV-FK1J101P
	150	0.08	0.16	94.5	H13	800	PCE3526CT-ND	1.49	1.23	1.14	1.05	PCE3526TR-ND	200	105.00	EEV-FK1J151Q
	220	0.08	0.16	138.6	H13	800	PCE3484CT-ND	1.49	1.23	1.14	1.05	PCE3484TR-ND	200	105.00	EEV-FK1J221Q
	470	0.08	0.082	296.1	J16	1410	PCE3485CT-ND	2.44	2.01	1.87	—	PCE3485TR-ND	125	107.38	EEV-FK1J471M
	680	0.08	0.080	428.4	K16	1690	PCE3486CT-ND	2.87	2.37	2.20	—	PCE3486TR-ND	125	126.63	EEV-FK1J681M
80	3.3	0.08	5.00	3.0	C	25	PCE3487CT-ND	.31	.25	.24	.22	PCE3487TR-ND	1,000	107.00	EEV-FK1K3R3R
	4.7	0.08	3.00	3.76	D	40	PCE3488CT-ND	.36	.30	.28	.26	PCE3488TR-ND	1,000	126.00	EEV-FK1K4R7P
	10	0.08	2.40	8.0	D8	60	PCE3527CT-ND	.49	.41	.38	.35	PCE3527TR-ND	900	154.80	EEV-FK1K100XP
	10	0.08	2.40	8.0	E	60	PCE3489CT-ND	.59	.49	.45	.42	PCE3489TR-ND	1,000	206.00	EEV-FK1K100P
	22	0.08	1.30	17.6	F	130	PCE3490CT-ND	.76	.63	.58	.54	PCE3490TR-ND	500	133.50	EEV-FK1K220P
	33	0.08	1.30	26.4	F	130	PCE3491CT-ND	.76	.63	.58	.54	PCE3491TR-ND	500	133.50	EEV-FK1K330P
	47	0.08	0.70	37.6	G	200	PCE3492CT-ND	.89	.73	.68	.63	PCE3492TR-ND	500	156.50	EEV-FK1K470P
	68	0.08	0.32	54.4	H13	500	PCE3528CT-ND	1.49	1.23	1.14	1.05	PCE3528TR-ND	200	105.00	EEV-FK1K680Q
	100	0.08	0.32	80.0	H13	500	PCE3493CT-ND	1.49	1.23	1.14	1.05	PCE3493TR-ND	200	105.00	EEV-FK1K101Q
	150	0.08	0.32	120.0	H13	500	PCE3494CT-ND	1.49	1.23	1.14	1.05	PCE3494TR-ND	200	105.00	EEV-FK1K151Q
	330	0.08	0.17	264.0	J16	793	PCE3495CT-ND	2.44	2.01	1.87	—	PCE3495TR-ND	125	107.38	EEV-FK1K331M
	470	0.08	0.153	376.0	K16	917	PCE3496CT-ND	2.87	2.37	2.20	—	PCE3496TR-ND	125	126.63	EEV-FK1K471M
100	22	0.07	1.30	22.0	F	130	PCE3502CT-ND	.75	.62	.58	.53	PCE3502TR-ND	500	132.00	EEV-FK2A220P
	33	0.07	0.70	33.0	G	200	PCE3503CT-ND	.87	.72	.67	.62	PCE3503TR-ND	500	153.50	EEV-FK2A330P
	47	0.07	0.32	47.0	H13	500	PCE3497CT-ND	1.49	1.23	1.14	1.05	PCE3497TR-ND	200	105.00	EEV-FK2A470Q
	68	0.07	0.32	68.0	H13	500	PCE3498CT-ND	1.49	1.23	1.14	1.05	PCE3498TR-ND	200	105.00	EEV-FK2A680Q
	100	0.07	0.17	100.0	J16	793	PCE3504CT-ND	2.44	2.01	1.87	—	PCE3504TR-ND	125	107.38	EEV-FK2A101M
	150	0.07	0.17	150.0	J16	793	PCE3499CT-ND	2.44	2.01	1.87	—	PCE3499TR-ND	125	107.38	EEV-FK2A151M
	220	0.07	0.153	220.0	K16	917	PCE3500CT-ND	2.87	2.37	2.20	—	PCE3500TR-ND	125	126.63	EEV-FK2A221M
	330	0.07	0.153	330.0	K16	917	PCE3505CT-ND	2.87	2.37	2.20	—	PCE3505TR-ND	125	126.63	EEV-FK2A331M

Panasonic EB Series Aluminum Electrolytic Capacitors, Surface Mount Type



Features: • Long Life: 3000-5000H @ 105°C • High Voltage • Surface Mount Type • High CV Volumetric Efficiency • Tape and Reel Packaging for Automatic Placement

Specifcations: • **Operating Temperature Range:** -25°C ~ 105°C • **Capacitance Tolerance:** ±20% (120Hz, +20°C) • **Leakage Current:** I ≤ 0.06CV +10(µA) after 2 minutes application of rated working voltage at +20°C • **Low Temperature Characteristics:** Impedance ratio (120Hz)

Following specified values:

Impedance		Working Voltage					
120Hz	Series	160V	200V	250V	350V	400V	450V
-25°C/+20°C	EB	2	2	3	5	6	6

Series	Case Code	Dimensions D	L	A	I	W	P
EB	G13	10	13.5	10.3	3.5	0.90±0.2	4.6
	G17	10	16.5	10.3	3.5	0.90±0.2	4.6
	H16	12.5	16.5	13.5	4.7	0.90±0.3	4.4
	J16	16	16.5	17.0	5.5	1.2±0.3	6.7
	J21	16	21.5	17.0	5.5	1.2±0.3	6.7
	K16	18	16.5	19.0	6.5	1.2±0.3	6.7
	K21	18	21.5	19.0	6.5	1.2±0.3	6.7

Rated W.V. (VDC)	Nom. Cap. (µF)	tan δ ≤ spec. values (120Hz, +20°C)	Max. Leak. Current (µA)	Size Code	Max. Ripple Cur. 100KHz, 105°C (mA rms)	Digi-Key Part No.	Cut Tape Price Each 5	10	25	Digi-Key Part No.	Tape & Reel Size	Tape & Reel Pricing	Panasonic Part No.
EB Long Life, High Ripple Series: -25°C ~ 105°C (3000 ~ 5000 Hour Life)													
160	10	0.15	106.0	G13	70	PCE3421CT-ND	1.13	.93	.87	PCE3421TR-ND	250	99.50	EEV-EB2C100Q
	33	0.15	326.8	H16	470	PCE3422CT-ND	1.86	1.53	1.42	PCE3422TR-ND	150	98.10	EEV-EB2C330SQ
	47	0.15	461.2	J16	600	PCE3579CT-ND	2.32	1.91	1.78	PCE3579TR-ND	125	102.25	EEV-EB2C470SM
	68	0.15	662.8	J21	750	PCE3580CT-ND	2.74	2.26	2.10	PCE3580TR-ND	75	72.38	EEV-EB2C680M
	68	0.15	662.8	K16	750	PCE3581CT-ND	2.74	2.26	2.10	PCE3581TR-ND	125	120.63	EEV-EB2C680SM
	100	0.15	970.0	K21	1060	PCE3578CT-ND	3.26	2.69	2.49	PCE3578TR-ND	75	86.18	EEV-EB2C101M
200	22	0.15	274.0	H16	470	PCE3427CT-ND	1.86	1.53	1.42	PCE3427TR-ND	150	98.10	EEV-EB2D220SQ
	33	0.15	406.0	J16	600	PCE3583CT-ND	2.32	1.91	1.78	PCE3583TR-ND	125	102.25	EEV-EB2D330SM
	47	0.15	574.0	K16	600	PCE3584CT-ND	2.74	2.26	2.10	PCE3584TR-ND	125	120.63	EEV-EB2D470SM
	68	0.15	826.0	J21	750	PCE3585CT-ND	2.74	2.26	2.10	PCE3585TR-ND	75	72.38	EEV-EB2D680M
	100	0.15	1210.0	K21	1060	PCE3582CT-ND	3.26	2.69	2.49	PCE3582TR-ND	75	86.18	EEV-EB2D101M
250	10	0.15	160.0	G17	88	PCE3432CT-ND	1.30	1.07	.99	PCE3432TR-ND	200	91.40	EEV-EB2E100Q
	22	0.15	340.0	J16	560	PCE3586CT-ND	2.32	1.91	1.78	PCE3586TR-ND	125	102.25	EEV-EB2E220SM
	33	0.15	505.0	K16	560	PCE3587CT-ND	2.74	2.26	2.10	PCE3587TR-ND	125	120.63	EEV-EB2E330SM
	47	0.15	715.0	J21	710	PCE3588CT-ND	2.74	2.26	2.10	PCE3588TR-ND	75	72.38	EEV-EB2E470M
	68	0.15	1030.0	K21	990	PCE3589CT-ND	3.26	2.69	2.49	PCE3589TR-ND	75	86.18	EEV-EB2E680M
350	10	0.20	220.0	J16	270	PCE3593CT-ND	2.32	1.91	1.78	PCE3593TR-ND	125	102.25	EEV-EB2V100SM
	22	0.20	472.0	K16	350	PCE3594CT-ND	2.74	2.26	2.10	PCE3594TR-ND	125	120.63	EEV-EB2V220SM
	33	0.20	703.0	J21	480	PCE3595CT-ND	2.74	2.26	2.10	PCE3595TR-ND	75	72.38	EEV-EB2V330M
	47	0.20	997.0	K21	670	PCE3596CT-ND	3.26	2.69	2.49	PCE3596TR-ND	75	86.18	EEV-EB2V470M
400	3.3	0.24	89.2	G13	40	PCE3441CT-ND	1.13	.93	.87	PCE3441TR-ND	250	99.50	EEV-EB2G3R3Q
	4.7	0.24	122.8	G17	50	PCE3442CT-ND	1.30	1.07	.99	PCE3442TR-ND	200	91.40	EEV-EB2G4R7Q
	10	0.24	250.0	J16	250	PCE3590CT-ND	2.32	1.91	1.78	PCE3590TR-ND	125	102.25	EEV-EB2G100SM
	22	0.24	538.0	J21	410	PCE3591CT-ND	2.74	2.26	2.10	PCE3591TR-ND	75	72.38	EEV-EB2G220M
	33	0.24	802.0	K21	600	PCE3592CT-ND	3.26	2.69	2.49	PCE3592TR-ND	75	86.18	EEV-EB2G330M
450	2.2	0.24	69.4	G13	29	PCE3446CT-ND	1.13	.93	.87	PCE3446TR-ND	250	99.50	EEV-EB2W2R2Q
	3.3	0.24	99.1	G17	41	PCE3447CT-ND	1.30	1.07	.99	PCE3447TR-ND	200	91.40	EEV-EB2W3R3Q
	4.7	0.24	136.9	H16	49	PCE3448CT-ND	1.86	1.53	1.42	PCE3448TR-ND	150	98.10	EEV-EB2W4R7SQ
	10	0.24	280.0	K16	310	PCE3597CT-ND	2.74	2.26	2.10	PCE3597TR-ND	125	120.63	EEV-EB2W100SM
	22	0.24	604.0	K21	560	PCE3598CT-ND	3.26	2.69	2.49	PCE3598TR-ND	75	86.18	EEV-EB2W220M

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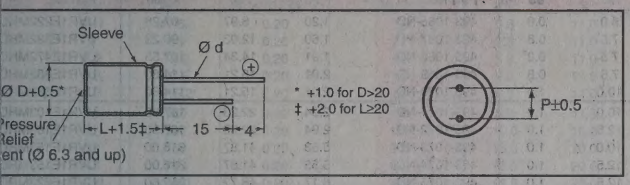
ichicon VR Series Aluminum Electrolytic Capacitors (Radial Lead)

General Purpose 85°C ** Lead (Pb) Free/RoHS Compliant Part Numbers Stocked **



URES: • Radial lead standard type for general purpose • Miniature sized • Life: 2000 hours at 85°C

IFICATIONS:

perature Range	-40°C to 85°C (6.3V to 400V), -25°C to 85°C (450V)
acitance Tolerance	±20% at 120Hz, 20°C

age Current:

d Voltage: 6.3V to 100V	Rated Voltage: 160V to 450V
1 minute application of rated voltage, leakage current t more than 0.03CV or 4(μA), whichever is greater.	After 1 minute application of rated voltage, CV ≤ 1000: I=0.1CV+40μA or less
2 minutes application of rated voltage, leakage current t more than 0.01CV or 3 (μA), whichever is greater.	After 1 minute application of rated voltage, CV > 1000: I=0.04CV +100μA or less

• **tan δ:**
For capacitance of more than 1000μF, add 0.02 for every increase of 1000μF.
Measurement frequency: 120Hz, Temperature: 20°C.

Rated Voltage (V)	6.3	10	16	25	35	50	63	100	160 to 315	350 to 450
tan δ (Max.)	0.28	0.24	0.20	0.16	0.14	0.12	0.10	0.08	0.20	0.25

• **Stability at Low Temperature:**

Rated Voltage (V)		6.3	10	16	25	35	50	63	100	160-200	250-350	400	450
Impedance Ratio ZT/Z20 Max.	Z-25°C/Z+20°C	5	4	3	2	2	2	2	2	3	4	6	15
	Z-40°C/Z+20°C	12	10	8	5	4	3	3	3	4	8	10	—

• **Endurance:** After 2000 hours application of rated voltage at 85°C, capacitors meet the characteristic requirements listed at right.

Capacitance Change	Within ±20% of initial value
tan δ	200% or less of initial specified value
Leakage Current	Initial specified value or less

• **Shelf Life:** After leaving capacitors under no load at 85°C for 1000 hours, they meet the specified value for endurance characteristics listed above

• **Marking:** Printed with white color letter on black sleeve

ted V. DC)	Cap. (μF)	Leakage Current (μA)	tan δ Max. @120Hz/20°C	Rated Ripple Cur. @120Hz/85°C (mA rms)	Dimensions (mm) ØD	L	P	ød	Digi-Key Part No.	Pricing 1	10	100	Lead (Pb) Free Nichicon Part No.
	22	3.00	0.28	65	5.0	11.0	2.0	0.5	493-1000-ND	.20	1.24	8.37	UVR0J220MDD
	33	3.00	0.28	80	5.0	11.0	2.0	0.5	493-1001-ND	.20	1.24	8.37	UVR0J330MDD
	47	3.00	0.28	95	5.0	11.0	2.0	0.5	493-1002-ND	.20	1.24	8.37	UVR0J470MDD
	100	6.30	0.28	135	5.0	11.0	2.0	0.5	493-1003-ND	.24	1.52	10.23	UVR0J101MDD
	220	13.86	0.28	200	5.0	11.0	2.0	0.5	493-1004-ND	.24	1.60	11.28	UVR0J221MDD
	330	20.79	0.28	270	6.3	11.0	2.5	0.5	493-1005-ND	.26	1.79	12.65	UVR0J331MED
	470	29.61	0.28	320	6.3	11.0	2.5	0.5	493-1006-ND	.29	1.99	14.03	UVR0J471MED
	1000	63.00	0.28	540	8.0	11.5	3.5	0.6	493-1007-ND	.41	3.01	21.50	UVR0J102MPD
.3	2200	138.60	0.30	1000	10.0	20.0	5.0	0.6	493-1008-ND	.57	4.24	30.25	UVR0J222MPD
	3300	207.90	0.32	1190	10.0	20.0	5.0	0.6	493-1009-ND	.58	4.29	31.49	UVR0J332MPD
	4700	296.10	0.34	1550	12.5	20.0	5.0	0.6	493-1010-ND	.96	7.14	52.41	UVR0J472MHD
	6800	428.40	0.38	1920	12.5	25.0	5.0	0.6	493-1011-ND	1.25	9.39	70.43	UVR0J682MHD
	10000	630.00	0.46	2350	16.0	25.0	7.5	0.8	493-1012-ND	1.64	12.30	92.25	UVR0J103MHD
	15000	945.00	0.56	2850	16.0	35.5	7.5	0.8	493-1013-ND	1.91	14.34	107.55	UVR0J153MHD
	22000	1386.00	0.70	3350	18.0	40.0	7.5	0.8	493-1014-ND	1.97	14.92	112.60	UVR0J223MHD
	22000	1386.00	0.70	3200	22.0	30.0	10.0	1.0	493-1015-ND	1.97	14.92	112.60	UVR0J223MRD6
	33000	2079.00	0.92	3900	22.0	50.0	10.0	1.0	493-1016-ND	4.98	37.68	284.40	UVR0J333MRD
	33000	2079.00	0.92	3800	25.0	40.0	12.5	1.0	493-1017-ND	4.98	37.68	284.40	UVR0J333MRD6
	22	3.00	0.24	65	5.0	11.0	2.0	0.5	493-1018-ND	.20	1.24	8.37	UVR1A220MDD
	33	3.30	0.24	85	5.0	11.0	2.0	0.5	493-1019-ND	.20	1.24	8.37	UVR1A330MDD
	47	4.70	0.24	100	5.0	11.0	2.0	0.5	493-1020-ND	.20	1.24	8.37	UVR1A470MDD
	100	10.00	0.24	145	5.0	11.0	2.0	0.5	493-1021-ND	.24	1.52	10.23	UVR1A101MDD
	220	22.00	0.24	240	6.3	11.0	2.5	0.5	493-1022-ND	.26	1.79	12.65	UVR1A221MED
	330	33.00	0.24	290	6.3	11.0	2.5	0.5	493-1023-ND	.30	2.03	14.30	UVR1A331MED
	470	47.00	0.24	350	6.3	11.0	2.5	0.5	493-1024-ND	.39	2.65	18.70	UVR1A471MED
	1000	100.00	0.24	650	10.0	12.5	5.0	0.6	493-1025-ND	.45	3.33	23.75	UVR1A102MPD
	2200	220.00	0.26	1100	10.0	20.0	5.0	0.6	493-1026-ND	.58	4.29	31.49	UVR1A222MPD
10	3300	330.00	0.28	1450	12.5	20.0	5.0	0.6	493-1027-ND	.89	6.59	48.41	UVR1A332MHD
	4700	470.00	0.30	1800	12.5	25.0	5.0	0.6	493-1028-ND	1.10	8.22	61.65	UVR1A472MHD
	6800	680.00	0.34	2250	16.0	25.0	7.5	0.8	493-1029-ND	1.65	12.39	92.93	UVR1A682MHD
	10000	1000.00	0.42	2700	16.0	35.5	7.5	0.8	493-1030-ND	1.91	14.34	107.55	UVR1A103MHD
	15000	1500.00	0.52	3100	18.0	35.5	7.5	0.8	493-1031-ND	1.99	14.91	111.83	UVR1A153MHD
	22000	2200.00	0.66	3700	20.0	40.0	10.0	1.0	493-1032-ND	2.71	20.48	154.60	UVR1A223MRD
	22000	2200.00	0.66	3300	25.0	30.0	12.5	1.0	493-1033-ND	2.71	20.48	154.60	UVR1A223MRD6
	33000	3300.00	0.88	4500	22.0	50.0	10.0	1.0	493-1034-ND	5.43	41.08	310.00	UVR1A333MRD
	33000	3300.00	0.88	4800	25.0	40.0	12.5	1.0	493-1035-ND	5.43	41.08	310.00	UVR1A333MRD6
	10	3.00	0.20	50	5.0	11.0	2.0	0.5	493-1036-ND	.20	1.24	8.37	UVR1C100MDD
	22	3.52	0.20	75	5.0	11.0	2.0	0.5	493-1037-ND	.20	1.24	8.37	UVR1C220MDD
	33	5.28	0.20	90	5.0	11.0	2.0	0.5	493-1038-ND	.20	1.24	8.37	UVR1C330MDD
	47	7.52	0.20	110	5.0	11.0	2.0	0.5	493-1039-ND	.24	1.52	10.23	UVR1C470MDD
	100	16.00	0.20	160	5.0	11.0	2.0	0.5	493-1040-ND	.24	1.60	11.28	UVR1C101MDD
	220	35.20	0.20	260	6.3	11.0	2.5	0.5	493-1041-ND	.30	2.03	14.30	UVR1C221MED
	330	52.80	0.20	370	8.0	11.5	3.5	0.6	493-1042-ND	.39	2.65	18.70	UVR1C331MPD
	470	75.20	0.20	440	8.0	11.5	3.5	0.6	493-1043-ND	.36	2.63	18.75	UVR1C471MPD
	1000	160.00	0.20	790	10.0	16.0	5.0	0.6	493-1044-ND	.57	4.20	30.00	UVR1C102MPD
	2200	352.00	0.22	1300	12.5	20.0	5.0	0.6	493-1045-ND	.78	5.82	42.77	UVR1C222MHD
6	3300	528.00	0.24	1700	12.5	25.0	5.0	0.6	493-1046-ND	1.20	8.97	67.28	UVR1C332MHD
	4700	752.00	0.26	2100	16.0	25.0	7.5	0.8	493-1047-ND	1.60	12.03	90.23	UVR1C472MHD
	6800	1088.00	0.30	2650	16.0	35.5	7.5	0.8	493-1048-ND	1.91	14.34	107.55	UVR1C682MHD
	10000	1600.00	0.38	2950	18.0	35.5	7.5	0.8	493-1049-ND	1.99	14.91	111.83	UVR1C103MHD
	10000	1600.00	0.38	3000	20.0	31.0	10.0	1.0	493-1050-ND	1.99	14.91	111.83	UVR1C103MRD6
	15000	2400.00	0.46	3400	20.0	40.0	10.0	1.0	493-1051-ND	2.79	21.12	159.40	UVR1C153MRD
	15000	2400.00	0.46	3300	25.0	30.0	12.5	1.0	493-1052-ND	2.79	21.12	159.40	UVR1C153MRD6
	22000	3520.00	0.58	4200	22.0	50.0	10.0	1.0	493-1053-ND	5.53	41.87	316.00	UVR1C223MRD
	22000	3520.00	0.58	4000	25.0	40.0	12.5	1.0	493-1054-ND	5.53	41.87	316.00	UVR1C223MRD6
	33000	5280.00	0.78	4800	25.0	50.0	12.5	1.0	493-1055-ND	6.17	46.72	352.60	UVR1C333MRD
	4.7	3.00	0.16	35	5.0	11.0	2.0	0.5	493-1056-ND	.20	1.24	8.37	UVR1E4R7MDD
	10	3.00	0.16	55	5.0	11.0	2.0	0.5	493-1057-ND	.20	1.24	8.37	UVR1E100MDD
	22	5.50	0.16	80	5.0	11.0	2.0	0.5	493-1058-ND	.24	1.52	10.23	UVR1E220MDD
	33	8.25	0.16	95	5.0	11.0	2.0	0.5	493-1059-ND	.24	1.52	10.23	UVR1E330MDD
25	47	11.75	0.16	115	5.0	11.0	2.0	0.5	493-1060-ND	.23	1.56	11.00	UVR1E470MDD
	100	25.00	0.16	190	6.3	11.0	2.5	0.5	493-1061-ND	.27	1.83	12.93	UVR1E101MED
	220	55.00	0.16	330	8.0	11.5	3.5	0.6	493-1062-ND	.39	2.65	18.70	UVR1E221MPD
	330	82.50	0.16	440	10.0	12.5	5.0	0.6	493-1063-ND	.41	3.05	21.75	UVR1E331MPD
	470	117.50	0.16	550	10.0	12.5	5.0	0.6	493-1064-ND	.41	3.01	21.50	UVR1E471MPD
	1000	250.00	0.16	960	10.0	20.0	5.0	0.6	493-1065-ND	.58	4.29	31.49	UVR1E102MPD

(Continued)

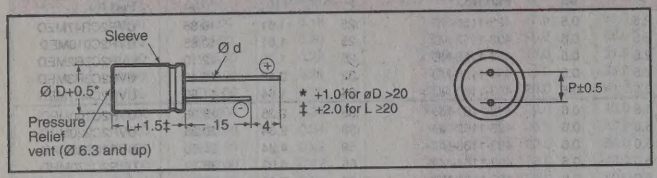
Rated W.V. (VDC)	Cap. (µF)	Leakage Current (µA)	tan δ Max. @120Hz/20°C	Rated Ripple Cur. @120Hz/85°C (mA rms)	Dimensions (mm) ØD	L	P	ød	Digi-Key Part No.	Pricing 1	10	100	Lead (Pb) Free Nichicon Part No.
25	2200	550.00	0.18	1550	12.5	25.0	5.0	0.6	493-1066-ND	1.20	8.97	67.28	UVR1E222MHD
	3300	825.00	0.20	1980	16.0	25.0	7.5	0.8	493-1067-ND	1.60	12.03	90.23	UVR1E332MHD
	4700	1175.00	0.22	2450	16.0	31.5	7.5	0.8	493-1068-ND	1.91	14.34	107.55	UVR1E472MHD
	6800	1700.00	0.26	2900	18.0	35.5	7.5	0.8	493-1069-ND	2.01	15.21	114.80	UVR1E682MHD
	6800	1700.00	0.26	2700	20.0	31.0	10.0	1.0	493-1070-ND	2.01	15.21	114.80	UVR1E682MRD6
	10000	2500.00	0.34	3000	20.0	40.0	10.0	1.0	493-1071-ND	2.94	22.23	167.80	UVR1E103MRD
	10000	2500.00	0.34	2900	25.0	30.0	12.5	1.0	493-1072-ND	2.94	22.23	167.80	UVR1E103MRD6
	15000	3750.00	0.42	3800	22.0	50.0	10.0	1.0	493-1073-ND	5.53	41.87	316.00	UVR1E153MRD
	15000	3750.00	0.42	3600	25.0	40.0	12.5	1.0	493-1074-ND	5.53	41.87	316.00	UVR1E153MRD6
	22000	5500.00	0.54	4500	25.0	50.0	12.5	1.0	493-1075-ND	6.17	46.72	352.60	UVR1E223MRD
35	4.7	3.00	0.14	40	5.0	11.0	2.0	0.5	493-1076-ND	.20	1.24	8.37	UVR1V4R7MDD
	10	3.50	0.14	60	5.0	11.0	2.0	0.5	493-1077-ND	.20	1.24	8.37	UVR1V100MDD
	22	7.70	0.14	90	5.0	11.0	2.0	0.5	493-1078-ND	.24	1.52	10.23	UVR1V220MDD
	33	11.55	0.14	105	5.0	11.0	2.0	0.5	493-1079-ND	.23	1.56	11.00	UVR1V330MDD
	47	16.45	0.14	130	5.0	11.0	2.0	0.5	493-1080-ND	.24	1.60	11.28	UVR1V470MDD
	100	35.00	0.14	210	6.3	11.0	2.5	0.5	493-1081-ND	.30	2.03	14.30	UVR1V101MED
	220	77.00	0.14	385	10.0	12.5	5.0	0.6	493-1082-ND	.41	3.05	21.75	UVR1V221MPD
	330	115.50	0.14	490	10.0	12.5	5.0	0.6	493-1083-ND	.47	3.47	24.75	UVR1V331MPD
	470	164.50	0.14	650	10.0	16.0	5.0	0.6	493-1084-ND	.57	4.24	30.25	UVR1V471MPD
	1000	350.00	0.14	1150	12.5	20.0	5.0	0.6	493-1085-ND	.92	6.88	50.53	UVR1V102MHD
	2200	770.00	0.16	1800	16.0	25.0	7.5	0.8	493-1086-ND	1.44	10.77	80.78	UVR1V222MHD
	3300	1155.00	0.18	2280	16.0	35.5	7.5	0.8	493-1087-ND	1.91	14.34	107.55	UVR1V332MHD
	4700	1645.00	0.20	2700	18.0	35.5	7.5	0.8	493-1088-ND	1.87	14.15	106.80	UVR1V472MHD
	4700	1645.00	0.20	2700	20.0	31.0	10.0	1.0	493-1089-ND	1.87	14.15	106.80	UVR1V472MRD6
	6800	2380.00	0.24	3000	20.0	40.0	10.0	1.0	493-1090-ND	2.79	21.12	159.40	UVR1V682MRD
	6800	2380.00	0.24	2900	25.0	30.0	12.5	1.0	493-1091-ND	2.79	21.12	159.40	UVR1V682MRD6
	10000	3500.00	0.32	3700	22.0	50.0	10.0	1.0	493-1092-ND	4.45	33.66	254.00	UVR1V103MRD
	10000	3500.00	0.32	3600	25.0	40.0	12.5	1.0	493-1093-ND	4.45	33.66	254.00	UVR1V103MRD6
	15000	5250.00	0.40	4300	25.0	50.0	12.5	1.0	493-1094-ND	6.17	46.72	352.60	UVR1V153MRD
50	0.1	3.00	0.12	1.3	5.0	11.0	2.0	0.5	493-1095-ND	.20	1.24	8.37	UVR1H0R1MDD
	0.22	3.00	0.12	2.9	5.0	11.0	2.0	0.5	493-1096-ND	.20	1.24	8.37	UVR1HR22MDD
	0.33	3.00	0.12	4.3	5.0	11.0	2.0	0.5	493-1097-ND	.20	1.24	8.37	UVR1HR33MDD
	0.47	3.00	0.12	6.2	5.0	11.0	2.0	0.5	493-1098-ND	.20	1.24	8.37	UVR1HR47MDD
	1	3.00	0.12	17	5.0	11.0	2.0	0.5	493-1099-ND	.20	1.24	8.37	UVR1H010MDD
	2.2	3.00	0.12	28	5.0	11.0	2.0	0.5	493-1100-ND	.20	1.24	8.37	UVR1H2R2MDD
	3.3	3.00	0.12	35	5.0	11.0	2.0	0.5	493-1101-ND	.20	1.24	8.37	UVR1H3R3MDD
	4.7	3.00	0.12	40	5.0	11.0	2.0	0.5	493-1102-ND	.20	1.24	8.37	UVR1H4R7MDD
	10	5.00	0.12	60	5.0	11.0	2.0	0.5	493-1103-ND	.24	1.52	10.23	UVR1H100MDD
	22	11.00	0.12	95	5.0	11.0	2.0	0.5	493-1104-ND	.23	1.56	11.00	UVR1H220MDD
	33	16.50	0.12	125	5.0	11.0	2.0	0.5	493-1105-ND	.25	1.68	11.83	UVR1H330MDD
	47	23.50	0.12	155	6.3	11.0	2.5	0.5	493-1106-ND	.27	1.83	12.93	UVR1H470MED
	100	50.00	0.12	260	8.0	11.5	3.5	0.6	493-1107-ND	.35	2.56	18.25	UVR1H101MPD
	220	110.00	0.12	430	10.0	12.5	5.0	0.6	493-1108-ND	.51	3.75	26.75	UVR1H221MPD
	330	165.00	0.12	590	10.0	16.0	5.0	0.6	493-1109-ND	.56	4.19	30.79	UVR1H331MPD
	470	235.00	0.12	760	12.5	20.0	5.0	0.6	493-1110-ND	.67	4.99	36.66	UVR1H471MHD
	1000	500.00	0.12	1350	12.5	25.0	5.0	0.6	493-1111-ND	1.07	7.94	58.28	UVR1H102MHD
	2200	1100.00	0.14	2100	16.0	35.5	7.5	0.8	493-1112-ND	1.91	14.34	107.55	UVR1H222MHD
	3300	1650.00	0.16	2500	18.0	35.5	7.5	0.8	493-1113-ND	2.01	15.21	114.80	UVR1H332MHD
	3300	1650.00	0.16	2450	22.0	30.0	10.0	1.0	493-1114-ND	2.01	15.21	114.80	UVR1H332MRD6
	4700	2350.00	0.18	2900	20.0	40.0	10.0	1.0	493-1115-ND	3.49	26.45	199.60	UVR1H472MRD
	4700	2350.00	0.18	2900	25.0	30.0	12.5	1.0	493-1116-ND	3.49	26.45	199.60	UVR1H472MRD6
	6800	3400.00	0.22	3500	22.0	50.0	10.0	1.0	493-1117-ND	4.45	33.66	254.00	UVR1H682MRD
	6800	3400.00	0.22	3300	25.0	40.0	12.5	1.0	493-1118-ND	4.45	33.66	254.00	UVR1H682MRD6
	10000	5000.00	0.30	4000	25.0	50.0	12.5	1.0	493-1119-ND	6.17	46.72	352.60	UVR1H103MRD
63	10	6.30	0.10	65	5.0	11.0	2.0	0.5	493-1120-ND	.24	1.52	10.23	UVR1J100MDD
	22	13.86	0.10	100	5.0	11.0	2.0	0.5	493-1121-ND	.25	1.68	11.83	UVR1J220MDD
	33	20.79	0.10	140	6.3	11.0	2.5	0.5	493-1122-ND	.27	1.83	12.93	UVR1J330MED
	47	29.61	0.10	170	6.3	11.0	2.5	0.5	493-1123-ND	.30	2.03	14.30	UVR1J470MED
	100	63.00	0.10	300	10.0	12.5	5.0	0.6	493-1124-ND	.43	3.15	22.50	UVR1J101MPD
	220	138.60	0.10	490	10.0	16.0	5.0	0.6	493-1125-ND	.56	4.19	30.79	UVR1J221MPD
	330	207.90	0.10	710	10.0	20.0	5.0	0.6	493-1126-ND	.64	4.77	35.02	UVR1J331MPD
	470	296.10	0.10	900	12.5	20.0	5.0	0.6	493-1127-ND	.89	6.59	48.41	UVR1J471MHD
	1000	630.00	0.10	1300	16.0	25.0	7.5	0.8	493-1129-ND	1.41	10.56	79.20	UVR1J102MHD
	2200	1386.00	0.12	2300	18.0	35.5	7.5	0.8	493-1130-ND	1.88	14.23	107.40	UVR1J222MHD
	3300	2079.00	0.14	2700	20.0	40.0	10.0	1.0	493-1131-ND	3.45	26.13	197.20	UVR1J332MRD
	3300	2079.00	0.14	2600	25.0	30.0	12.5	1.0	493-1132-ND	3.45	26.13	197.20	UVR1J332MRD6
	4700	2961.00	0.16	3400	22.0	50.0	10.0	1.0	493-1133-ND	4.40	33.34	251.60	UVR1J472MRD
	4700	2961.00	0.16	3200	25.0	40.0	12.5	1.0	493-1134-ND	4.40	33.34	251.60	UVR1J472MRD6
	6800	4284.00	0.20	3900	25.0	50.0	12.5	1.0	493-1135-ND	5.95	45.08	340.20	UVR1J682MRD
100	0.1	3.00	0.08	2.1	5.0	11.0	2.0	0.5	493-1136-ND	.20	1.24	8.37	UVR2A0R1MDD
	0.22	3.00	0.08	4.7	5.0	11.0	2.0	0.5	493-1137-ND	.20	1.24	8.37	UVR2AR22MDD
	0.33	3.00	0.08	7	5.0	11.0	2.0	0.5	493-1138-ND	.20	1.24	8.37	UVR2AR33MDD
	0.47	3.00	0.08	10	5.0	11.0	2.0	0.5	493-1139-ND	.20	1.24	8.37	UVR2AR47MDD
	1	3.00	0.08	21	5.0	11.0	2.0	0.5	493-1140-ND	.20	1.24	8.37	UVR2A010MDD
	2.2	3.00	0.08	30	5.0	11.0	2.0	0.5	493-1141-ND	.20	1.24	8.37	UVR2A2R2MDD
	3.3	3.30	0.08	40	5.0	11.0	2.0	0.5	493-1142-ND	.24	1.52	10.23	UVR2A3R3MDD
	4.7	4.70	0.08	45	5.0	11.0	2.0	0.5	493-1143-ND	.24	1.52	10.23	UVR2A4R7MDD
	10	10.00	0.08	75	6.3	11.0	2.5	0.5	493-1144-ND	.25	1.68	11.83	UVR2A100MED
	22	22.00	0.08	130	6.3	11.0	2.5	0.5	493-1145-ND	.30	2.03	14.30	UVR2A220MED
	33	33.00	0.08	180	8.0	11.5	3.5	0.6	493-1146-ND	.39	2.65	18.70	UVR2A330MPD
	47	47.00	0.08	230	10.0	12.5	5.0	0.6	493-1147-ND	.37	2.70	19.25	UVR2A470MPD
	100	100.00	0.08	370	10.0	20.0	5.0	0.6	493-1148-ND	.59	4.34	31.00	UVR2A101MPD
	220	220.00	0.08	620	12.5	25.0	5.0	0.6	493-1149-ND	.96	7.14	52.41	UVR2A221MHD
	330	330.00	0.08	760	12.5	25.0	5.0	0.6	493-1150-ND	1.07	7.94	58.28	UVR2A331MHD
	470	470.00	0.08	1000	16.0	25.0	7.5	0.8	493-1151-ND	1.41	10.56	79.20	UVR2A471MHD
	1000	1000.00	0.08	1380	18.0	40.0	7.5	0.8	493-1152-ND	1.91	14.34	107.55	UVR2A102MHD
	2200	2200.00	0.10	2400	22.0	50.0	10.0	1.0	493-1153-ND	4.63	35.06	264.60	UVR2A222MRD
	2200	2200.00	0.10	2400	25.0	40.0	12.5	1.0	493-1154-ND	4.63	35.06	264.60	UVR2A222MRD
	3300	3300.00	0.12	2900	25.0	50.0	12.5	1.0	493-1155-ND	4.83	36.54	275.80	UVR2A332MRD

(Conti

Rated W.V. (VDC)	Cap. (µF)	Leakage Current (µA)	tan δ Max. @120Hz/20°C	Rated Ripple Cur. @120Hz/85°C (mA rms)	Dimensions (mm) ØD	L	P	ød	Digi-Key Part No.	Pricing 1	10	100	Lead (Pb) Free Nichicon Part No.
	0.47	47.52	0.20	15	6.3	11.0	2.5	0.5	493-1156-ND	.25	1.61	10.85	UVR2CR47MED
	1	56	0.20	22	6.3	11.0	2.5	0.5	493-1157-ND	.25	1.61	10.85	UVR2C010MED
	2.2	75.2	0.20	33	6.3	11.0	2.5	0.5	493-1158-ND	.25	1.72	12.10	UVR2C2R2MED
	3.3	92.8	0.20	40	6.3	11.0	2.5	0.5	493-1159-ND	.32	2.18	15.40	UVR2C3R3MED
	4.7	115.2	0.20	50	6.3	11.0	2.5	0.5	493-1160-ND	.24	1.64	11.55	UVR2C4R7MED
	10	200	0.20	80	8.0	11.5	3.5	0.6	493-1161-ND	.33	2.26	15.95	UVR2C100MPD
	22	392	0.20	155	10.0	16.0	5.0	0.6	493-1162-ND	.38	2.84	20.25	UVR2C220MPD
160	33	568	0.20	205	10.0	20.0	5.0	0.6	493-1163-ND	.59	4.34	31.00	UVR2C330MPD
	47	792	0.20	270	12.5	20.0	5.0	0.6	493-1164-ND	.66	4.93	36.19	UVR2C470MHD
	100	1640	0.20	430	12.5	25.0	5.0	0.6	493-1165-ND	1.03	7.68	56.40	UVR2C101MHD
	220	3560	0.20	800	16.0	35.5	7.5	0.8	493-1166-ND	1.64	12.33	92.48	UVR2C221MHD
	330	5320	0.20	940	18.0	40.0	7.5	0.8	493-1167-ND	1.84	13.97	105.40	UVR2C331MHD
	330	5320	0.20	900	22.0	30.0	10.0	1.0	493-1168-ND	1.84	13.97	105.40	UVR2C331MRD6
	470	7560	0.20	1410	22.0	40.0	10.0	1.0	493-1169-ND	3.17	24.01	181.20	UVR2C471MRD
	470	7560	0.20	1290	25.0	30.0	12.5	1.0	493-1170-ND	3.17	24.01	181.20	UVR2C471MRD6
	1000	16040	0.20	1900	25.0	50.0	12.5	1.0	493-1171-ND	4.09	30.98	233.80	UVR2C102MRD
	0.47	49.4	0.20	15	6.3	11.0	2.5	0.5	493-1172-ND	.24	1.60	11.28	UVR2DR47MED
	1	60	0.20	22	6.3	11.0	2.5	0.5	493-1173-ND	.24	1.60	11.28	UVR2D010MED
	2.2	84	0.20	33	6.3	11.0	2.5	0.5	493-1174-ND	.27	1.83	12.93	UVR2D2R2MED
	3.3	106	0.20	40	6.3	11.0	2.5	0.5	493-1175-ND	.32	2.18	15.40	UVR2D3R3MED
	4.7	134	0.20	55	8.0	11.5	3.5	0.6	493-1176-ND	.33	2.45	17.50	UVR2D4R7MPD
	10	240	0.20	95	10.0	12.5	5.0	0.6	493-1177-ND	.42	3.08	22.00	UVR2D100MPD
	22	480	0.20	170	10.0	20.0	5.0	0.6	493-1178-ND	.61	4.48	32.00	UVR2D220MPD
200	33	700	0.20	230	12.5	20.0	5.0	0.6	493-1179-ND	.66	4.93	36.19	UVR2D330MHD
	47	980	0.20	270	12.5	20.0	5.0	0.6	493-1180-ND	.66	4.93	36.19	UVR2D470MHD
	100	2040	0.20	530	16.0	31.5	7.5	0.8	493-1181-ND	1.60	12.00	90.00	UVR2D101MHD
	220	4440	0.20	810	18.0	35.5	7.5	0.8	493-1182-ND	1.96	14.67	110.03	UVR2D221MHD
	330	6640	0.20	1130	20.0	40.0	10.0	1.0	493-1183-ND	3.34	25.28	190.80	UVR2D331MRD
	330	6640	0.20	1090	25.0	30.0	12.5	1.0	493-1184-ND	3.34	25.28	190.80	UVR2D331MRD6
	470	9440	0.20	1490	22.0	50.0	10.0	1.0	493-1185-ND	4.09	30.95	233.60	UVR2D471MRD
	470	9440	0.20	1550	25.0	40.0	12.5	1.0	493-1186-ND	4.09	30.95	233.60	UVR2D471MRD6
	0.47	51.75	0.20	15	6.3	11.0	2.5	0.5	493-1187-ND	.24	1.64	11.55	UVR2ER47MED
	1	65	0.20	22	6.3	11.0	2.5	0.5	493-1188-ND	.24	1.64	11.55	UVR2E010MED
	2.2	95	0.20	33	6.3	11.0	2.5	0.5	493-1189-ND	.28	1.79	12.09	UVR2E2R2MED
	3.3	122.5	0.20	46	8.0	11.5	3.5	0.6	493-1190-ND	.32	2.18	15.40	UVR2E3R3MPD
	4.7	157.5	0.20	55	8.0	11.5	3.5	0.6	493-1191-ND	.34	2.49	17.75	UVR2E4R7MPD
	10	290	0.20	105	10.0	16.0	5.0	0.6	493-1192-ND	.40	2.94	21.00	UVR2E100MPD
	22	590	0.20	190	12.5	20.0	5.0	0.6	493-1193-ND	.61	4.52	32.25	UVR2E220MHD
250	33	865	0.20	230	12.5	20.0	5.0	0.6	493-1194-ND	.66	4.93	36.19	UVR2E330MHD
	47	1215	0.20	300	12.5	25.0	5.0	0.6	493-1195-ND	1.03	7.68	56.40	UVR2E470MHD
	100	2540	0.20	520	16.0	31.5	7.5	0.8	493-1196-ND	1.80	13.50	101.25	UVR2E101MHD
	220	5540	0.20	740	20.0	40.0	10.0	1.0	493-1197-ND	3.71	28.09	212.00	UVR2E221MRD
	220	5540	0.20	820	22.0	30.0	10.0	1.0	493-1198-ND	3.71	28.09	212.00	UVR2E221MRD6
	330	8290	0.20	1170	22.0	50.0	10.0	1.0	493-1199-ND	3.97	30.05	226.80	UVR2E331MRD
	330	8290	0.20	970	25.0	30.0	12.5	1.0	493-1200-ND	3.97	30.05	226.80	UVR2E331MRD6
	470	11790	0.20	1600	25.0	50.0	12.5	1.0	493-1201-ND	5.05	38.27	288.80	UVR2E471MRD
	1	71.5	0.20	22	6.3	11.0	2.5	0.5	493-1202-ND	.26	1.79	12.65	UVR2F010MED
	2.2	109.3	0.20	33	8.0	11.5	3.5	0.6	493-1203-ND	.36	2.42	17.05	UVR2F2R2MPD
	3.3	143.95	0.20	55	10.0	12.5	5.0	0.6	493-1204-ND	.39	2.87	20.50	UVR2F3R3MPD
	4.7	188.05	0.20	65	10.0	12.5	5.0	0.6	493-1205-ND	.44	3.22	23.00	UVR2F4R7MPD
	10	355	0.20	115	10.0	20.0	5.0	0.6	493-1206-ND	.57	4.20	30.00	UVR2F100MPD
	22	733	0.20	190	12.5	20.0	5.0	0.6	493-1207-ND	.66	4.93	36.19	UVR2F220MPD
315	33	1079.5	0.20	275	16.0	25.0	7.5	0.8	493-1208-ND	1.11	8.34	62.55	UVR2F330MHD
	47	1520.5	0.20	340	16.0	25.0	7.5	0.8	493-1209-ND	1.42	10.62	79.65	UVR2F470MHD
	100	3190	0.20	560	18.0	35.5	7.5	0.8	493-1210-ND	1.81	13.56	101.70	UVR2F101MHD
	220	6970	0.20	850	22.0	50.0	10.0	1.0	493-1211-ND	5.02	38.00	286.80	UVR2F221MRD
	220	6970	0.20	770	25.0	30.0	12.5	1.0	493-1212-ND	5.02	38.00	286.80	UVR2F221MRD6
	330	10435	0.20	1250	25.0	50.0	12.5	1.0	493-1213-ND	5.73	43.38	327.40	UVR2F331MRD
	1	75	0.25	22	6.3	11.0	2.5	0.5	493-1214-ND	.27	1.83	12.93	UVR2V010MED
	2.2	117	0.25	38	8.0	11.5	3.5	0.6	493-1215-ND	.35	2.34	16.50	UVR2V2R2MPD
	3.3	155.5	0.25	55	10.0	12.5	5.0	0.6	493-1216-ND	.40	2.94	21.00	UVR2V3R3MPD
	4.7	204.5	0.25	65	10.0	12.5	5.0	0.6	493-1217-ND	.40	2.94	21.00	UVR2V4R7MPD
	10	390	0.25	115	10.0	20.0	5.0	0.6	493-1218-ND	.57	4.24	30.25	UVR2V100MPD
	22	810	0.25	200	12.5	25.0	5.0	0.6	493-1219-ND	.64	4.77	35.02	UVR2V220MHD
350	33	1195	0.25	275	16.0	25.0	7.5	0.8	493-1220-ND	1.08	8.07	60.53	UVR2V330MHD
	47	1685	0.25	380	16.0	35.5	7.5	0.8	493-1221-ND	1.75	13.14	98.55	UVR2V470MHD
	100	3540	0.25	590	18.0	40.0	7.5	0.8	493-1222-ND	1.79	13.52	102.00	UVR2V101MHD
	100	3540	0.25	570	22.0	30.0	10.0	1.0	493-1223-ND	1.79	13.52	102.00	UVR2V101MRD6
	220	7740	0.25	850	22.0	50.0	10.0	1.0	493-1224-ND	5.73	43.38	327.40	UVR2V221MRD
	220	7740	0.25	890	25.0	40.0	12.5	1.0	493-1225-ND	5.73	43.38	327.40	UVR2V221MRD6
	1	80	0.25	25	8.0	11.5	3.5	0.6	493-1226-ND	.31	2.11	14.85	UVR2G010MPD
	2.2	128	0.25	45	10.0	12.5	5.0	0.6	493-1227-ND	.38	2.77	19.75	UVR2G2R2MPD
	3.3	172	0.25	55	10.0	12.5	5.0	0.6	493-1228-ND	.40	2.94	21.00	UVR2G3R3MPD
	4.7	228	0.25	70	10.0	16.0	5.0	0.6	493-1229-ND	.47	3.43	24.50	UVR2G4R7MPD
	10	440	0.25	130	12.5	20.0	5.0	0.6	493-1230-ND	.58	4.35	31.96	UVR2G100MHD
400	22	920	0.25	240	16.0	25.0	7.5	0.8	493-1231-ND	1.08	8.07	60.53	UVR2G220MHD
	33	1360	0.25	300	16.0	31.5	7.5	0.8	493-1232-ND	1.44	10.80	81.00	UVR2G330MHD
	47	1920	0.25	370	16.0	35.5	7.5	0.8	493-1233-ND	1.90	14.25	106.88	UVR2G470MHD
	100	4040	0.25	550	20.0	40.0	10.0	1.0	493-1234-ND	3.77	28.54	215.40	UVR2G101MRD
	100	4040	0.25	530	25.0	30.0	12.5	1.0	493-1235-ND	3.77	28.54	215.40	UVR2G101MRD6
	220	8840	0.25	750	25.0	50.0	12.5	1.0	493-1236-ND	6.24	47.28	356.80	UVR2G221MRD
	1	85	0.25	23	8.0	11.5	3.5	0.6	493-1237-ND	.31	2.11	14.85	UVR2W010MPD
	2.2	139	0.25	35	10.0	12.5	5.0	0.6	493-1238-ND	.40	2.94	21.00	UVR2W2R2MPD
	3.3	188.5	0.25	45	10.0	16.0	5.0	0.6	493-1239-ND	.40	2.94	21.00	UVR2W3R3MPD
	4.7	251.5	0.25	55	10.0	20.0	5.0	0.6	493-1240-ND	.57	4.24	30.25	UVR2W4R7MPD
450	10	490	0.25	90	12.5	20.0	5.0	0.6	493-1241-ND	.64	4.77	35.02	UVR2W100MHD
	22	1030	0.25	165	16.0	25.0	7.5	0.8	493-1242-ND	1.08	8.07	60.53	UVR2W220MHD
	33	1525	0.25	230	16.0	35.5	7.5	0.8	493-1243-ND	1.90	14.25	106.88	UVR2W330MHD
	47	2155	0.25	300	18.0	40.0	7.5	0.8	493-1244-ND	2.02	15.26	115.20	UVR2W470MHD
	47	2155	0.25	290	22.0	30.0	10.0	1.0	493-1245-ND	2.02	15.26	115.20	UVR2W470MRD6
	100	4540	0.25	350	22.0	40.0	10.0	1.0	493-1246-ND	4.50	34.11	257.40	UVR2W101MRD

nichicon VZ Series Aluminum Electrolytic Capacitors (Radial Lead)

General Purpose 105°C **** Lead (Pb) Free/RoHS Compliant Part Numbers Stocked ****



FEATURES: • Radial lead standard type for general purpose • Small case size • Wide temperature range • Life: 1000 hours at 105°C

SPECIFICATIONS:

Temperature Range	-55 to 105°C (6.3 to 100V), -40 to 105°C (160 to 400V), -25 to 105°C (450V)
Capacitance Tolerance	±20% at 120Hz, 20°C

• Leakage Current:

Rated Voltage: 6.3 to 100	Rated Voltage: 160 to 450
After 1 minute application of rated voltage, leakage current is not more than 0.03CV or 4 (µA), whichever is greater.	After 1 minute application of rated voltage, CV ≤ 1000: I=0.1CV+40 (µA) or less.
After 2 minutes application of rated voltage, leakage current is not more than 0.01CV or 3 (µA), whichever is greater.	After 1 minutes application of rated voltage, CV > 1000: I=0.04CV +100 (µA) or less.

• tan δ:
For capacitance of more than 1000µF, add 0.02 for every increase of 1000µF. Measurement frequency: 120Hz, Temperature: 20°C.

Rated Volt. (V)	6.3	10	16	25	35	50	63	100	160 to 315	350 to 450
tan δ (Max.)	0.28	0.24	0.20	0.16	0.14	0.12	0.10	0.08	0.20	0.25

• Stability at Low Temperature: Measurement frequency: 120H

Rated Voltage (V)		6.3	10	16	25	35	50	63	100	160 - 200	250 - 350	400	45
Impedance ratio	Z-25°C/Z+20°C	5	4	3	2	2	2	2	2	3	4	6	1
ZT/Z20 (Max.)	Z-40°C/Z+20°C	10	8	6	4	3	3	3	3	4	8	10	–

• Endurance:
After 1000 hours application of rated voltage at 105°C, capacitors meet the characteristic requirements listed at right.

Capacitance Change	Within ±20% of initial value
tan δ	200% or less of initial specified value
Leakage Current	Initial specified value or less

• Shelf Life: After leaving capacitors under no load at 105°C for 1000 hours, they meet the specified value f endurance characteristics listed above.

• Marking: Printed with white color letter on black sleeve.

Rated Voltage (VDC)	Cap. (µF)	Leakage Current (µA)	tan δ (Max.) @120Hz/20°C	Rated Ripple Cur. @120Hz/105°C (mA) rms	Dimensions (mm) ØD	L	P	ød	Digi-Key Part No.	Pricing 1	10	100	Lead (Pb) Free Nichicon Part No.
6.3	22	3.00	0.28	45	5.0	11.0	2.0	0.5	493-1247-ND	.26	1.66	11.16	UVZ0J220MDD
	33	3.00	0.28	55	5.0	11.0	2.0	0.5	493-1248-ND	.26	1.66	11.16	UVZ0J330MDD
	47	3.00	0.28	65	5.0	11.0	2.0	0.5	493-1249-ND	.26	1.66	11.16	UVZ0J470MDD
	100	6.30	0.28	95	5.0	11.0	2.0	0.5	493-1250-ND	.25	1.72	12.10	UVZ0J101MDD
	220	13.86	0.28	145	5.0	11.0	2.0	0.5	493-1251-ND	.30	2.07	14.58	UVZ0J221MDD
	330	20.79	0.28	195	6.3	11.0	2.5	0.5	493-1252-ND	.35	2.34	16.50	UVZ0J331MED
	470	29.61	0.28	230	6.3	11.0	2.5	0.5	493-1253-ND	.36	2.46	17.33	UVZ0J471MED
	1000	63.00	0.28	390	8.0	11.5	3.5	0.6	493-1254-ND	.25	1.72	12.10	UVZ0J102MPD
	2200	138.60	0.30	710	10.0	20.0	5.0	0.6	493-1255-ND	.65	4.80	35.25	UVZ0J222MPD
	3300	207.90	0.32	840	10.0	20.0	5.0	0.6	493-1256-ND	.72	5.38	39.48	UVZ0J332MPD
	4700	296.10	0.34	1090	12.5	20.0	5.0	0.6	493-1257-ND	1.06	7.98	59.85	UVZ0J472MHD
	6800	428.40	0.38	1350	12.5	25.0	5.0	0.6	493-1258-ND	1.49	11.19	83.93	UVZ0J682MHD
	10000	630.00	0.46	1650	16.0	25.0	7.5	0.8	493-1259-ND	1.96	14.67	110.03	UVZ0J103MHD
	15000	945.00	0.56	2010	16.0	35.5	7.5	0.8	493-1260-ND	2.25	17.04	128.60	UVZ0J153MHD
	22000	1386.00	0.70	2350	18.0	40.0	7.5	0.8	493-1261-ND	2.65	20.06	151.40	UVZ0J223MHD
	33000	2079.00	0.92	2800	22.0	50.0	10.0	1.0	493-1262-ND	4.90	37.13	280.20	UVZ0J333MRD
10	22	3.00	0.24	45	5.0	11.0	2.0	0.5	493-1263-ND	.26	1.66	11.16	UVZ1A220MDD
	33	3.30	0.24	58	5.0	11.0	2.0	0.5	493-1264-ND	.26	1.66	11.16	UVZ1A330MDD
	47	4.70	0.24	68	5.0	11.0	2.0	0.5	493-1265-ND	.26	1.66	11.16	UVZ1A470MDD
	100	10.00	0.24	105	5.0	11.0	2.0	0.5	493-1266-ND	.25	1.72	12.10	UVZ1A101MDD
	220	22.00	0.24	175	6.3	11.0	2.5	0.5	493-1267-ND	.35	2.34	16.50	UVZ1A221MED
	330	33.00	0.24	210	6.3	11.0	2.5	0.5	493-1268-ND	.37	2.50	17.60	UVZ1A331MED
	470	47.00	0.24	250	6.3	11.0	2.5	0.5	493-1269-ND	.40	2.98	21.25	UVZ1A471MED
	1000	100.00	0.24	460	10.0	12.5	5.0	0.6	493-1270-ND	.57	4.20	30.00	UVZ1A102MPD
	2200	220.00	0.26	760	10.0	20.0	5.0	0.6	493-1271-ND	.72	5.38	39.48	UVZ1A222MPD
	3300	330.00	0.28	1000	12.5	20.0	5.0	0.6	493-1272-ND	1.06	7.87	57.81	UVZ1A332MHD
	4700	470.00	0.30	1260	12.5	25.0	5.0	0.6	493-1273-ND	1.30	9.78	73.35	UVZ1A472MHD
	6800	680.00	0.34	1570	16.0	25.0	7.5	0.8	493-1274-ND	1.97	14.76	110.70	UVZ1A682MHD
	10000	1000.00	0.42	1890	16.0	35.5	7.5	0.8	493-1275-ND	2.25	17.04	128.60	UVZ1A103MHD
	15000	1500.00	0.52	2180	18.0	35.5	7.5	0.8	493-1276-ND	2.39	18.13	136.80	UVZ1A153MHD
	22000	2200.00	0.66	2650	20.0	40.0	10.0	1.0	493-1277-ND	3.44	26.02	196.40	UVZ1A223MRD
	33000	3300.00	0.88	3250	22.0	50.0	10.0	1.0	493-1278-ND	5.44	41.21	311.00	UVZ1A333MRD
16	10	3.00	0.20	35	5.0	11.0	2.0	0.5	493-1279-ND	.26	1.66	11.16	UVZ1C100MDD
	22	3.52	0.20	54	5.0	11.0	2.0	0.5	493-1280-ND	.26	1.66	11.16	UVZ1C220MDD
	33	5.28	0.20	65	5.0	11.0	2.0	0.5	493-1281-ND	.26	1.66	11.16	UVZ1C330MDD
	47	7.52	0.20	79	5.0	11.0	2.0	0.5	493-1282-ND	.25	1.72	12.10	UVZ1C470MDD
	100	16.00	0.20	115	5.0	11.0	2.0	0.5	493-1283-ND	.30	2.07	14.58	UVZ1C101MDD
	220	35.20	0.20	190	6.3	11.0	2.5	0.5	493-1284-ND	.37	2.54	17.88	UVZ1C221MED
	330	52.80	0.20	265	8.0	11.5	3.5	0.6	493-1285-ND	.40	2.98	21.25	UVZ1C331MPD
	470	75.20	0.20	315	8.0	11.5	3.5	0.6	493-1286-ND	.44	3.26	23.25	UVZ1C471MPD
	1000	160.00	0.20	560	10.0	16.0	5.0	0.6	493-1287-ND	.65	4.80	35.25	UVZ1C102MPD
	2200	352.00	0.22	920	12.5	20.0	5.0	0.6	493-1288-ND	1.02	7.68	57.60	UVZ1C222MHD
	3300	528.00	0.24	1170	12.5	25.0	5.0	0.6	493-1289-ND	1.42	10.68	80.10	UVZ1C332MHD
	4700	752.00	0.26	1480	16.0	25.0	7.5	0.8	493-1290-ND	1.92	14.37	107.78	UVZ1C472MHD
	6800	1088.00	0.30	1780	16.0	35.5	7.5	0.8	493-1291-ND	2.25	17.04	128.60	UVZ1C682MHD
	10000	1600.00	0.38	2060	18.0	35.5	7.5	0.8	493-1292-ND	2.39	18.13	136.80	UVZ1C103MHD
	15000	2400.00	0.48	2430	20.0	40.0	10.0	1.0	493-1293-ND	3.44	26.02	196.40	UVZ1C153MRD
	22000	3520.00	0.62	3000	22.0	50.0	10.0	1.0	493-1294-ND	5.44	41.21	311.00	UVZ1C223MRD
	33000	5280.00	0.84	3450	25.0	50.0	12.5	1.0	493-1295-ND	7.56	57.21	431.80	UVZ1C333MRD
25	4.7	3.00	0.16	25	5.0	11.0	2.0	0.5	493-1296-ND	.26	1.66	11.16	UVZ1E4R7MDD
	10	3.00	0.16	36	5.0	11.0	2.0	0.5	493-1297-ND	.22	1.38	9.30	UVZ1E100MDD
	22	5.50	0.16	58	5.0	11.0	2.0	0.5	493-1298-ND	.22	1.38	9.30	UVZ1E220MDD
	33	8.25	0.16	68	5.0	11.0	2.0	0.5	493-1299-ND	.25	1.72	12.10	UVZ1E330MDD
	47	11.75	0.16	83	5.0	11.0	2.0	0.5	493-1300-ND	.22	1.38	9.30	UVZ1E470MDD
	100	25.00	0.16	140	6.3	11.0	2.5	0.5	493-1301-ND	.28	1.75	11.78	UVZ1E101MED

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Rated Voltage (VDC)	Cap. (µF)	Leakage Current (µA)	tan δ (Max.) @120Hz/20°C	Rated Ripple Cur. @120Hz/105°C (mA) rms	Dimensions (mm) ØD	L	P	ød	Digi-Key Part No.	Pricing 1	10	100	Lead (Pb) Free Nichicon Part No.
	220	55.00	0.16	240	8.0	11.5	3.5	0.6	493-1302-ND	.40	2.98	21.25	UVZ1E221MPD
	330	82.50	0.16	315	10.0	12.5	5.0	0.6	493-1303-ND	.38	2.80	20.00	UVZ1E331MPD
	470	117.50	0.16	380	10.0	12.5	5.0	0.6	493-1304-ND	.34	2.52	18.00	UVZ1E471MPD
	1000	250.00	0.16	680	10.0	20.0	5.0	0.6	493-1305-ND	.64	4.77	35.02	UVZ1E102MPD
	2200	550.00	0.18	1090	12.5	25.0	5.0	0.6	493-1306-ND	1.42	10.68	80.10	UVZ1E222MHD
25	3300	825.00	0.20	1400	16.0	25.0	7.5	0.8	493-1307-ND	1.16	8.70	65.25	UVZ1E332MHD
	4700	1175.00	0.22	1710	16.0	31.5	7.5	0.8	493-1308-ND	1.36	10.20	76.50	UVZ1E472MHD
	6800	1700.00	0.26	2040	18.0	35.5	7.5	0.8	493-1309-ND	2.65	20.09	151.60	UVZ1E682MHD
	10000	2500.00	0.34	2150	20.0	40.0	10.0	1.0	493-1310-ND	4.30	32.57	245.80	UVZ1E103MRD
	15000	3750.00	0.44	2750	22.0	50.0	10.0	1.0	493-1311-ND	5.44	41.21	311.00	UVZ1E153MRD
	22000	5500.00	0.58	3250	25.0	50.0	12.5	1.0	493-1312-ND	7.56	57.21	431.80	UVZ1E223MRD
	4.7	3.00	0.14	28	5.0	11.0	2.0	0.5	493-1313-ND	.26	1.66	11.16	UVZ1V4R7MDD
	10	3.50	0.14	41	5.0	11.0	2.0	0.5	493-1314-ND	.22	1.38	9.30	UVZ1V100MDD
	22	7.70	0.14	61	5.0	11.0	2.0	0.5	493-1315-ND	.22	1.38	9.30	UVZ1V220MDD
	33	11.55	0.14	75	5.0	11.0	2.0	0.5	493-1316-ND	.30	2.03	14.30	UVZ1V330MDD
	47	16.45	0.14	93	5.0	11.0	2.0	0.5	493-1317-ND	.22	1.38	9.30	UVZ1V470MDD
	100	35.00	0.14	150	6.3	11.0	2.5	0.5	493-1318-ND	.37	2.54	17.88	UVZ1V101MED
	220	77.00	0.14	275	10.0	12.5	5.0	0.6	493-1319-ND	.52	3.82	27.25	UVZ1V221MPD
35	330	115.50	0.14	350	10.0	12.5	5.0	0.6	493-1320-ND	.45	3.29	23.50	UVZ1V331MPD
	470	164.50	0.14	460	10.0	16.0	5.0	0.6	493-1321-ND	.65	4.86	35.72	UVZ1V471MPD
	1000	350.00	0.14	810	12.5	20.0	5.0	0.6	493-1322-ND	1.02	7.68	57.60	UVZ1V102MHD
	2200	770.00	0.16	1260	16.0	25.0	7.5	0.8	493-1323-ND	1.71	12.84	96.30	UVZ1V222MHD
	3300	1155.00	0.18	1610	16.0	35.5	7.5	0.8	493-1324-ND	2.25	17.04	128.60	UVZ1V332MHD
	4700	1645.00	0.20	1910	18.0	35.5	7.5	0.8	493-1325-ND	2.40	18.18	137.20	UVZ1V472MHD
	6800	2380.00	0.24	2150	20.0	40.0	10.0	1.0	493-1326-ND	3.44	26.02	196.40	UVZ1V682MRD
	10000	3500.00	0.32	2650	22.0	50.0	10.0	1.0	493-1327-ND	5.44	41.21	311.00	UVZ1V103MRD
	15000	4200.00	0.36	3100	25.0	50.0	12.5	1.0	493-1328-ND	7.95	60.18	454.20	UVZ1V153MRD
	0.1	3.00	0.12	1.3	5.0	11.0	2.0	0.5	493-1329-ND	.26	1.66	11.16	UVZ1H0R1MDD
	0.22	3.00	0.12	2.9	5.0	11.0	2.0	0.5	493-1330-ND	.26	1.66	11.16	UVZ1HR22MDD
	0.33	3.00	0.12	4.3	5.0	11.0	2.0	0.5	493-1331-ND	.26	1.66	11.16	UVZ1HR33MDD
	0.47	3.00	0.12	7	5.0	11.0	2.0	0.5	493-1332-ND	.26	1.66	11.16	UVZ1HR47MDD
	1	3.00	0.12	13	5.0	11.0	2.0	0.5	493-1333-ND	.22	1.38	9.30	UVZ1H010MDD
	2.2	3.00	0.12	20	5.0	11.0	2.0	0.5	493-1334-ND	.22	1.38	9.30	UVZ1H2R2MDD
	3.3	3.00	0.12	25	5.0	11.0	2.0	0.5	493-1335-ND	.26	1.66	11.16	UVZ1H3R3MDD
	4.7	3.00	0.12	30	5.0	11.0	2.0	0.5	493-1336-ND	.22	1.38	9.30	UVZ1H4R7MDD
	10	5.00	0.12	46	5.0	11.0	2.0	0.5	493-1337-ND	.25	1.72	12.10	UVZ1H100MDD
	22	11.00	0.12	68	5.0	11.0	2.0	0.5	493-1338-ND	.30	2.03	14.30	UVZ1H220MDD
	33	16.50	0.12	90	5.0	11.0	2.0	0.5	493-1339-ND	.33	2.22	15.68	UVZ1H330MDD
50	47	23.50	0.12	115	6.3	11.0	2.5	0.5	493-1340-ND	.21	1.33	8.99	UVZ1H470MED
	100	50.00	0.12	190	8.0	11.5	3.5	0.6	493-1341-ND	.43	3.19	22.75	UVZ1H101MPD
	220	110.00	0.12	300	10.0	12.5	5.0	0.6	493-1342-ND	.58	4.29	31.49	UVZ1H221MPD
	330	165.00	0.12	410	10.0	16.0	5.0	0.6	493-1343-ND	.60	4.41	31.50	UVZ1H331MPD
	470	235.00	0.12	530	12.5	20.0	5.0	0.6	493-1344-ND	1.07	8.01	60.08	UVZ1H471MHD
	1000	500.00	0.12	950	12.5	25.0	5.0	0.6	493-1345-ND	1.01	7.49	54.99	UVZ1H102MHD
	2200	1100.00	0.14	1470	16.0	35.5	7.5	0.8	493-1346-ND	2.25	17.04	128.60	UVZ1H222MHD
	3300	1650.00	0.16	1770	18.0	35.5	7.5	0.8	493-1347-ND	2.70	20.46	154.40	UVZ1H332MHD
	4700	2350.00	0.18	2100	20.0	40.0	10.0	1.0	493-1348-ND	4.30	32.57	245.80	UVZ1H472MRD
	6800	3400.00	0.22	2500	22.0	50.0	10.0	1.0	493-1349-ND	5.44	41.21	311.00	UVZ1H682MRD
	10000	5000.00	0.30	2850	25.0	50.0	12.5	1.0	493-1350-ND	7.56	57.21	431.80	UVZ1H103MRD
	10	6.30	0.10	46	5.0	11.0	2.0	0.5	493-1351-ND	.25	1.72	12.10	UVZ1J100MDD
	22	13.86	0.10	71	5.0	11.0	2.0	0.5	493-1352-ND	.33	2.22	15.68	UVZ1J220MDD
	33	20.79	0.10	100	6.3	11.0	2.5	0.5	493-1353-ND	.35	2.38	16.78	UVZ1J330MED
	47	29.61	0.10	120	6.3	11.0	2.5	0.5	493-1354-ND	.37	2.54	17.88	UVZ1J470MED
	100	63.00	0.10	215	10.0	12.5	5.0	0.6	493-1355-ND	.41	3.01	21.50	UVZ1J101MPD
	220	138.60	0.10	335	10.0	16.0	5.0	0.6	493-1356-ND	.71	5.25	38.54	UVZ1J221MPD
63	330	207.90	0.10	510	10.0	20.0	5.0	0.6	493-1357-ND	.80	5.95	43.71	UVZ1J331MPD
	470	296.10	0.10	640	12.5	20.0	5.0	0.6	493-1358-ND	1.06	7.87	57.81	UVZ1J471MHD
	1000	630.00	0.10	930	16.0	25.0	7.5	0.8	493-1359-ND	1.68	12.57	94.28	UVZ1J102MHD
	2200	1386.00	0.12	1650	18.0	35.5	7.5	0.8	493-1360-ND	2.10	15.90	120.00	UVZ1J222MHD
	3300	2079.00	0.14	1950	20.0	40.0	10.0	1.0	493-1361-ND	4.28	32.38	244.40	UVZ1J332MRD
	4700	2961.00	0.16	2450	22.0	50.0	10.0	1.0	493-1362-ND	5.39	40.84	308.20	UVZ1J472MRD
	6800	4284.00	0.20	2800	25.0	50.0	12.5	1.0	493-1363-ND	7.27	55.01	415.20	UVZ1J682MRD
	0.1	3.00	0.08	1.5	5.0	11.0	2.0	0.5	493-1364-ND	.26	1.66	11.16	UVZ2A0R1MDD
	0.22	3.00	0.08	3.4	5.0	11.0	2.0	0.5	493-1365-ND	.26	1.66	11.16	UVZ2AR22MDD
	0.33	3.00	0.08	5	5.0	11.0	2.0	0.5	493-1366-ND	.26	1.66	11.16	UVZ2AR33MDD
	0.47	3.00	0.08	7.1	5.0	11.0	2.0	0.5	493-1367-ND	.26	1.66	11.16	UVZ2AR47MDD
	1	3.00	0.08	15	5.0	11.0	2.0	0.5	493-1368-ND	.26	1.66	11.16	UVZ2A010MDD
	2.2	3.00	0.08	21	5.0	11.0	2.0	0.5	493-1369-ND	.26	1.66	11.16	UVZ2A2R2MDD
	3.3	3.30	0.08	29	5.0	11.0	2.0	0.5	493-1370-ND	.25	1.72	12.10	UVZ2A3R3MDD
	4.7	4.70	0.08	32	5.0	11.0	2.0	0.5	493-1371-ND	.25	1.72	12.10	UVZ2A4R7MDD
	10	10.00	0.08	54	6.3	11.0	2.5	0.5	493-1372-ND	.33	2.22	15.68	UVZ2A100MED
100	22	22.00	0.08	93	6.3	11.0	2.5	0.5	493-1373-ND	.37	2.54	17.88	UVZ2A220MED
	33	33.00	0.08	130	8.0	11.5	3.5	0.6	493-1374-ND	.40	2.98	21.25	UVZ2A330MPD
	47	47.00	0.08	165	10.0	12.5	5.0	0.6	493-1375-ND	.46	3.40	24.25	UVZ2A470MPD
	100	100.00	0.08	265	10.0	20.0	5.0	0.6	493-1376-ND	.64	4.74	34.78	UVZ2A101MPD
	220	220.00	0.08	440	12.5	25.0	5.0	0.6	493-1377-ND	1.06	7.98	59.85	UVZ2A221MHD
	330	330.00	0.08	540	12.5	25.0	5.0	0.6	493-1378-ND	1.18	8.85	66.38	UVZ2A331MHD
	470	470.00	0.08	715	16.0	25.0	7.5	0.8	493-1379-ND	1.68	12.57	94.28	UVZ2A471MHD
	1000	1000.00	0.08	985	18.0	40.0	7.5	0.8	493-1380-ND	2.40	18.18	137.20	UVZ2A102MHD
	2200	2200.00	0.10	1750	22.0	50.0	10.0	1.0	493-1381-ND	6.04	45.77	345.40	UVZ2A222MRD
	3300	3300.00	0.12	2070	25.0	50.0	12.5	1.0	493-1382-ND	6.29	47.65	359.60	UVZ2A332MRD

(Continued)

Rated Voltage (VDC)	Cap. (µF)	Leakage Current (µA)	tan δ (Max.) @120Hz/20°C	Rated Ripple Cur. @120Hz/105°C (mA) rms	Dimensions (mm) ØD	L	P	ød	Digi-Key Part No.	Pricing 1	10	100	Lead (Pb) Free Nichicon Part No.
160	0.47	47.52	0.20	11	6.3	11.0	2.5	0.5	493-1383-ND	.25	1.72	12.10	UVZ2CR47MED
	1	56	0.20	16	6.3	11.0	2.5	0.5	493-1384-ND	.25	1.72	12.10	UVZ2C010MED
	2.2	75.2	0.20	25	6.3	11.0	2.5	0.5	493-1385-ND	.31	2.11	14.85	UVZ2C2R2MED
	3.3	92.8	0.20	30	6.3	11.0	2.5	0.5	493-1386-ND	.39	2.61	18.43	UVZ2C3R3MED
	4.7	115.2	0.20	34	6.3	11.0	2.5	0.5	493-1387-ND	.39	2.65	18.70	UVZ2C4R7MED
	10	200	0.20	41	8.0	11.5	3.5	0.6	493-1388-ND	.40	2.98	21.25	UVZ2C100MPD
	22	392	0.20	100	10.0	16.0	5.0	0.6	493-1389-ND	.58	4.27	30.50	UVZ2C220MPD
	33	568	0.20	145	10.0	20.0	5.0	0.6	493-1390-ND	.67	4.96	36.43	UVZ2C330MPD
	47	792	0.20	195	12.5	20.0	5.0	0.6	493-1391-ND	.76	5.66	41.60	UVZ2C470MHD
	100	1640	0.20	215	12.5	25.0	5.0	0.6	493-1392-ND	1.10	8.28	62.10	UVZ2C101MHD
	220	3560	0.20	570	16.0	35.5	7.5	0.8	493-1393-ND	1.90	14.36	108.40	UVZ2C221MHD
	330	5320	0.20	750	18.0	40.0	7.5	0.8	493-1394-ND	2.36	17.86	134.80	UVZ2C331MHD
	470	7560	0.20	900	22.0	40.0	10.0	1.0	493-1395-ND	3.49	26.45	199.60	UVZ2C471MRD
	1000	16040	0.20	1310	25.0	50.0	12.5	1.0	493-1396-ND	4.59	34.74	262.20	UVZ2C102MRD
200	0.47	49.4	0.20	11	6.3	11.0	2.5	0.5	493-1397-ND	.30	2.03	14.30	UVZ2DR47MED
	1	60	0.20	16	6.3	11.0	2.5	0.5	493-1398-ND	.30	2.03	14.30	UVZ2D010MED
	2.2	84	0.20	25	6.3	11.0	2.5	0.5	493-1399-ND	.34	2.30	16.23	UVZ2D2R2MED
	3.3	106	0.20	30	6.3	11.0	2.5	0.5	493-1400-ND	.39	2.65	18.70	UVZ2D3R3MED
	4.7	134	0.20	39	8.0	11.5	3.5	0.6	493-1401-ND	.40	2.98	21.25	UVZ2D4R7MPD
	10	240	0.20	65	10.0	12.5	5.0	0.6	493-1402-ND	.50	3.71	26.50	UVZ2D100MPD
	22	480	0.20	120	10.0	20.0	5.0	0.6	493-1403-ND	.67	4.96	36.43	UVZ2D220MPD
	33	700	0.20	160	12.5	20.0	5.0	0.6	493-1404-ND	.76	5.66	41.60	UVZ2D330MHD
	47	980	0.20	195	12.5	20.0	5.0	0.6	493-1405-ND	.76	5.66	41.60	UVZ2D470MHD
	100	2040	0.20	375	16.0	31.5	7.5	0.8	493-1406-ND	1.84	13.80	103.50	UVZ2D101MHD
	220	4440	0.20	575	18.0	35.5	7.5	0.8	493-1407-ND	2.14	16.17	122.00	UVZ2D221MHD
	330	6640	0.20	705	20.0	40.0	10.0	1.0	493-1408-ND	3.58	27.14	204.80	UVZ2D331MRD
	470	9440	0.20	840	22.0	50.0	10.0	1.0	493-1409-ND	4.59	34.74	262.20	UVZ2D471MRD
250	0.47	51.75	0.20	10	6.3	11.0	2.5	0.5	493-1410-ND	.31	2.11	14.85	UVZ2ER47MED
	1	65	0.20	15	6.3	11.0	2.5	0.5	493-1411-ND	.31	2.11	14.85	UVZ2E010MED
	2.2	95	0.20	23	6.3	11.0	2.5	0.5	493-1412-ND	.39	2.61	18.43	UVZ2E2R2MED
	3.3	122.5	0.20	32	8.0	11.5	3.5	0.6	493-1413-ND	.39	2.65	18.70	UVZ2E3R3MPD
	4.7	157.5	0.20	39	8.0	11.5	3.5	0.6	493-1414-ND	.40	2.98	21.25	UVZ2E4R7MPD
	10	290	0.20	74	10.0	16.0	5.0	0.6	493-1415-ND	.58	4.27	30.50	UVZ2E100MPD
	22	590	0.20	130	12.5	20.0	5.0	0.6	493-1416-ND	.67	4.96	36.43	UVZ2E220MHD
	33	865	0.20	160	12.5	20.0	5.0	0.6	493-1417-ND	.76	5.66	41.60	UVZ2E330MHD
	47	1215	0.20	210	12.5	25.0	5.0	0.6	493-1418-ND	1.10	8.28	62.10	UVZ2E470MHD
	100	2540	0.20	365	16.0	31.5	7.5	0.8	493-1419-ND	1.95	14.76	111.40	UVZ2E101MHD
	220	5540	0.20	600	20.0	40.0	10.0	1.0	493-1420-ND	2.36	17.86	134.80	UVZ2E221MRD
	330	8290	0.20	730	22.0	50.0	10.0	1.0	493-1421-ND	4.38	33.13	250.00	UVZ2E331MRD
	470	11790	0.20	870	25.0	50.0	12.5	1.0	493-1422-ND	5.58	42.24	318.80	UVZ2E471MRD
315	1	71.5	0.20	15	6.3	11.0	2.5	0.5	493-1423-ND	.32	2.18	15.40	UVZ2F010MED
	2.2	109.3	0.20	26	8.0	11.5	3.5	0.6	493-1424-ND	.33	2.45	17.50	UVZ2F2R2MPD
	3.3	143.95	0.20	38	10.0	12.5	5.0	0.6	493-1425-ND	.36	2.66	19.00	UVZ2F3R3MPD
	4.7	188.05	0.20	45	10.0	12.5	5.0	0.6	493-1426-ND	.45	3.29	23.50	UVZ2F4R7MPD
	10	355	0.20	80	10.0	20.0	5.0	0.6	493-1427-ND	.58	4.27	30.50	UVZ2F100MPD
	22	733	0.20	115	12.5	20.0	5.0	0.6	493-1428-ND	.67	4.96	36.43	UVZ2F220MHD
	33	1079.5	0.20	195	16.0	25.0	7.5	0.8	493-1429-ND	1.03	7.74	58.05	UVZ2F330MHD
	47	1520.5	0.20	230	16.0	25.0	7.5	0.8	493-1430-ND	1.76	13.23	99.23	UVZ2F470MHD
	100	3190	0.20	395	18.0	35.5	7.5	0.8	493-1431-ND	2.19	16.62	125.40	UVZ2F101MHD
	220	6970	0.20	620	22.0	50.0	10.0	1.0	493-1432-ND	5.65	42.74	322.60	UVZ2F221MRD
	330	10435	0.20	760	25.0	50.0	12.5	1.0	493-1433-ND	8.02	60.71	458.20	UVZ2F331MRD
350	1	75	0.25	15	6.3	11.0	2.5	0.5	493-1434-ND	.34	2.52	18.00	UVZ2V010MED
	2.2	117	0.25	26	8.0	11.5	3.5	0.6	493-1435-ND	.37	2.70	19.25	UVZ2V2R2MPD
	3.3	155.5	0.25	38	10.0	12.5	5.0	0.6	493-1436-ND	.40	2.94	21.00	UVZ2V3R3MPD
	4.7	204.5	0.25	45	10.0	12.5	5.0	0.6	493-1437-ND	.45	3.33	23.75	UVZ2V4R7MPD
	10	390	0.25	80	10.0	20.0	5.0	0.6	493-1438-ND	.68	5.06	37.13	UVZ2V100MPD
	22	810	0.25	115	12.5	25.0	5.0	0.6	493-1439-ND	.83	6.14	45.12	UVZ2V220MHD
	33	1195	0.25	195	16.0	25.0	7.5	0.8	493-1440-ND	1.27	9.51	71.33	UVZ2V330MHD
	47	1685	0.25	270	16.0	35.5	7.5	0.8	493-1441-ND	1.93	14.49	108.68	UVZ2V470MHD
	100	3540	0.25	420	18.0	40.0	7.5	0.8	493-1442-ND	2.44	18.50	139.60	UVZ2V101MHD
	220	7740	0.25	620	22.0	50.0	10.0	1.0	493-1443-ND	6.21	46.98	354.60	UVZ2V221MRD
400	1	80	0.25	17	8.0	11.5	3.5	0.6	493-1444-ND	.37	2.73	19.50	UVZ2G010MPD
	2.2	128	0.25	30	10.0	12.5	5.0	0.6	493-1445-ND	.42	3.12	22.25	UVZ2G2R2MPD
	3.3	172	0.25	38	10.0	12.5	5.0	0.6	493-1446-ND	.46	3.36	24.00	UVZ2G3R3MPD
	4.7	228	0.25	50	10.0	16.0	5.0	0.6	493-1447-ND	.59	4.38	31.25	UVZ2G4R7MPD
	10	440	0.25	90	12.5	20.0	5.0	0.6	493-1448-ND	.77	5.76	42.30	UVZ2G100MHD
	22	920	0.25	165	16.0	25.0	7.5	0.8	493-1449-ND	1.22	9.18	68.85	UVZ2G220MHD
	33	1360	0.25	215	16.0	31.5	7.5	0.8	493-1450-ND	1.93	14.49	108.68	UVZ2G330MHD
	47	1920	0.25	270	16.0	35.5	7.5	0.8	493-1451-ND	1.99	15.05	113.60	UVZ2G470MHD
	100	4040	0.25	450	20.0	40.0	10.0	1.0	493-1452-ND	3.55	26.87	202.80	UVZ2G101MRD
	220	8840	0.25	660	25.0	50.0	12.5	1.0	493-1453-ND	6.31	47.75	360.40	UVZ2G221MRD
450	1	85	0.25	13	8.0	11.5	3.5	0.6	493-1454-ND	.38	2.80	20.00	UVZ2W010MPD
	2.2	139	0.25	23	10.0	12.5	5.0	0.6	493-1455-ND	.48	3.57	25.50	UVZ2W2R2MPD
	3.3	188.5	0.25	31	10.0	16.0	5.0	0.6	493-1456-ND	.57	4.26	31.26	UVZ2W3R3MPD
	4.7	251.5	0.25	40	10.0	20.0	5.0	0.6	493-1457-ND	.70	5.22	38.31	UVZ2W4R7MPD
	10	490	0.25	65	12.5	20.0	5.0	0.6	493-1458-ND	1.05	7.86	58.95	UVZ2W100MHD
	22	1030	0.25	115	16.0	25.0	7.5	0.8	493-1459-ND	1.48	11.10	83.25	UVZ2W220MHD
	33	1525	0.25	165	16.0	35.5	7.5	0.8	493-1460-ND	1.86	14.05	106.00	UVZ2W330MHD
	47	2155	0.25	185	18.0	40.0	7.5	0.8	493-1461-ND	2.31	17.52	132.20	UVZ2W470MHD
	100	4540	0.25	270	22.0	40.0	10.0	1.0	493-1462-ND	4.78	36.17	273.00	UVZ2W101MRD

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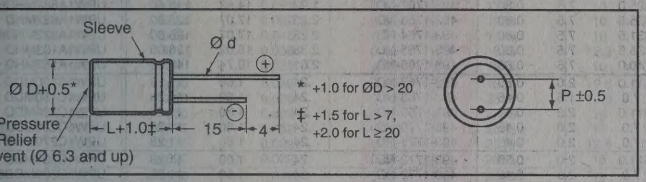

ATURES: • Miniature sized • Low impedance • High reliability withstanding 5000 hour load life at +105°C (2000/2000 hours for smaller case sizes as specified) • Ideal for switching power supplies

ECIFICATIONS:

Temperature Range	-55 to 105°C (6.3 to 100V), -40 to 105°C (160 to 400V), -25 to 105°C (450V)
Capacitance Tolerance	±20% at 120Hz, 20°C

eakage Current:

ted Volt. (V)	6.3 to 100	160 to 450
Leakage Current	After 1 minute application of rated voltage, leakage current is not more than 0.03CV or 4 (µA), whichever is greater.	CV ≤ 1000: I = 0.1CV+40 (µA) Max. (1 minute) CV > 1000: I = 0.04CV+100 (µA) Max. (1 minute)

• **tan δ:**
For capacitance of more than 1000µF, add 0.02 for every increase of 1000µF.
Measurement frequency: 120Hz, Temperature: 20°C.

Rated Volt. (V)	6.3	10	16	25	35	50	63	100	160 to 250	315 to 350	400 to 450
tan δ (Max.)	0.22	0.19	0.16	0.14	0.12	0.10	0.09	0.08	0.15	0.20	0.25

• **Stability at Low Temperature:**

Rated Voltage (V)		6.3-10	16-25	35-50	63-100	160-200	250	315-350	400	450
Impedance ratio	Z-55°C/Z+20°C	3	3	3	3	—	—	—	—	—
	Z-40°C/Z+20°C	—	—	—	—	4	6	8	10	—
	Z-25°C/Z+20°C	—	—	—	—	3	3	4	6	15

• **Endurance:** After an application of D.C. bias voltage plus the rated ripple current for 5000 hours (2000 hours for D = 4, 5 and 6.3, 3000 hours for D = 8 and 10) at 105°C the peak voltage shall not exceed the rated D.C. voltage, capacitors meet the characteristic requirements listed at right.

Capacitance Change	Within ±20% of initial value
tan δ	200% or less of initial specified value
Leakage Current	Initial specified value or less

• **Shelf Life:** After leaving capacitors under no load at 105°C for 1000 hours, they meet the specified value for endurance characteristics listed

• **Marking:** Printed with white color letter on dark brown sleeve

Rated Voltage (VDC)	Cap (µF)	Leakage Current (µA)	Impedance Ω Max. 20°C/100KHz	tan δ (Max.) @120Hz/20°C	Rated Ripple Cur. @100KHz/105°C (mA) rms	Dimensions (mm) ØD	L	P	ød	Digi-Key Part No.	Pricing 1	10	100	Lead (Pb) Free Nichicon Part No.
	22	4.158	0.600	0.22	180	5	11.0	2.0	0.50	493-1687-ND	.24	1.60	11.28	UPW0J220MDD
	27	5.103	2.000	0.22	65	4	7.0	1.5	0.45	493-1688-ND	.24	1.60	11.28	UPW0J270MDD
	33	6.237	0.600	0.22	180	5	11.0	2.0	0.50	493-1689-ND	.24	1.60	11.28	UPW0J330MDD
	33	6.237	0.950	0.22	120	5	7.0	2.0	0.45	493-1690-ND	.24	1.60	11.28	UPW0J330MDD6
	47	8.883	0.600	0.22	180	5	11.0	2.0	0.50	493-1691-ND	.24	1.60	11.28	UPW0J470MDD
	47	8.883	0.950	0.22	120	5	7.0	2.0	0.45	493-1692-ND	.24	1.60	11.28	UPW0J470MDD6
	56	10.584	0.950	0.22	120	5	7.0	2.0	0.45	493-1693-ND	.24	1.60	11.28	UPW0J560MDD
	68	12.852	1.300	0.22	120	4	11.0	1.5	0.45	493-1694-ND	.26	1.79	12.65	UPW0J680MDD
	100	18.9	0.600	0.22	180	5	11.0	2.0	0.50	493-1695-ND	.27	1.83	12.93	UPW0J101MDD
	120	22.68	0.450	0.22	200	6.3	7.0	2.5	0.45	493-1696-ND	.30	2.03	14.30	UPW0J121MDD
	150	28.35	0.500	0.22	235	5	15.0	2.0	0.50	493-1697-ND	.30	2.03	14.30	UPW0J151MDD6
	150	28.35	0.250	0.22	290	6.3	11.0	2.5	0.50	493-1698-ND	.30	2.03	14.30	UPW0J151MED
	220	41.58	0.250	0.22	290	6.3	11.0	2.5	0.50	493-1699-ND	.33	2.26	15.95	UPW0J221MED
	330	62.37	0.250	0.22	290	6.3	11.0	2.5	0.50	493-1700-ND	.40	2.69	18.98	UPW0J331MED
	330	62.37	0.230	0.22	430	6.3	15.0	2.5	0.50	493-1701-ND	.40	2.69	18.98	UPW0J331MED6
	470	88.83	0.117	0.22	555	8	11.5	3.5	0.60	493-1702-ND	.35	2.56	18.25	UPW0J471MPD
	560	105.84	0.117	0.22	555	8	11.5	3.5	0.60	493-1703-ND	.37	2.70	19.25	UPW0J561MPD
	680	128.52	0.090	0.22	755	10	12.5	5.0	0.60	493-1704-ND	.38	2.77	19.75	UPW0J681MPD
	820	154.98	0.085	0.22	730	8	15.0	3.5	0.60	493-1705-ND	.51	3.75	26.75	UPW0J821MPD
6.3	820	154.98	0.090	0.22	755	10	12.5	5.0	0.60	493-1706-ND	.51	3.75	26.75	UPW0J821MPD6
	1000	189	0.090	0.22	755	10	12.5	5.0	0.60	493-1707-ND	.56	4.13	29.50	UPW0J102MPD
	1200	226.8	0.065	0.22	995	8	20.0	3.5	0.60	493-1708-ND	.57	4.17	29.75	UPW0J122MPD
	1200	226.8	0.068	0.22	1050	10	16.0	5.0	0.60	493-1709-ND	.61	4.54	33.37	UPW0J122MPD6
	1500	283.5	0.052	0.22	1220	10	20.0	5.0	0.60	493-1710-ND	.61	4.54	33.37	UPW0J152MPD
	2200	415.8	0.038	0.24	1655	12.5	20.0	5.0	0.60	493-1711-ND	.80	5.95	43.71	UPW0J222MHD
	2200	415.8	0.045	0.24	1440	10	25.0	5.0	0.60	493-1712-ND	.80	5.95	43.71	UPW0J222MPD6
	2700	510.3	0.035	0.24	1815	10	31.5	5.0	0.60	493-1713-ND	1.01	7.55	55.46	UPW0J272MPD
	3300	623.7	0.038	0.26	1655	12.5	20.0	5.0	0.60	493-1714-ND	1.05	7.81	57.34	UPW0J332MHD
	3900	737.1	0.030	0.26	1945	12.5	25.0	5.0	0.60	493-1715-ND	1.16	8.70	65.25	UPW0J392MHD
	4700	888.3	0.022	0.28	2555	16	25.0	7.5	0.80	493-1716-ND	1.19	8.91	66.83	UPW0J472MHD
	4700	888.3	0.025	0.28	2310	12.5	31.5	5.0	0.80	493-1717-ND	1.19	8.91	66.83	UPW0J472MHD6
	5600	1058.4	0.022	0.30	2510	12.5	35.5	5.0	0.80	493-1718-ND	1.49	11.16	83.70	UPW0J562MHD
	5600	1058.4	0.029	0.30	2205	16	20.0	7.5	0.80	493-1719-ND	1.49	11.16	83.70	UPW0J562MHD6
	6800	1285.2	0.022	0.32	2555	16	25.0	7.5	0.80	493-1720-ND	1.52	11.40	85.50	UPW0J682MHD
	6800	1285.2	0.028	0.32	2490	18	20.0	7.5	0.80	493-1721-ND	1.52	11.40	85.50	UPW0J682MHD6
	8200	1549.8	0.018	0.36	3010	16	31.5	7.5	0.80	493-1722-ND	1.83	13.89	104.80	UPW0J822MHD
	10000	1890	0.016	0.40	3150	16	31.5	7.5	0.80	493-1723-ND	1.93	14.63	110.40	UPW0J103MHD
	10000	1890	0.020	0.40	2740	18	25.0	7.5	0.80	493-1724-ND	1.93	14.63	110.40	UPW0J103MHD6
	12000	2268	0.016	0.44	3635	18	31.5	7.5	0.80	493-1725-ND	2.25	17.07	128.80	UPW0J123MHD
	15000	2835	0.015	0.5	3680	18	35.5	7.5	0.80	493-1726-ND	2.38	18.02	136.00	UPW0J153MHD
	22	6.6	0.600	0.19	180	5	11.0	2.0	0.50	493-1727-ND	.24	1.60	11.28	UPW1A220MDD
	22	6.6	2.000	0.19	65	4	7.0	1.5	0.45	493-1728-ND	.24	1.60	11.28	UPW1A220MDD6
	33	9.9	0.600	0.19	180	5	11.0	2.0	0.50	493-1729-ND	.24	1.60	11.28	UPW1A330MDD
	33	9.9	0.950	0.19	120	5	7.0	2.0	0.45	493-1730-ND	.24	1.60	11.28	UPW1A330MDD6
	39	11.7	0.950	0.19	120	5	7.0	2.0	0.45	493-1731-ND	.24	1.60	11.28	UPW1A390MDD
	47	14.1	0.600	0.19	180	5	11.0	2.0	0.50	493-1732-ND	.24	1.60	11.28	UPW1A470MDD
	47	14.1	1.300	0.19	120	4	11.0	1.5	0.45	493-1733-ND	.24	1.60	11.28	UPW1A470MDD6
	82	24.6	0.600	0.19	180	5	11.0	2.0	0.50	493-1734-ND	.27	1.83	12.93	UPW1A820MDD
	82	24.6	0.450	0.19	200	6.3	7.0	2.5	0.45	493-1735-ND	.27	1.83	12.93	UPW1A820MDD6
	100	30	0.600	0.19	180	5	11.0	2.0	0.50	493-1736-ND	.27	1.83	12.93	UPW1A101MDD
	100	30	0.500	0.19	235	5	15.0	2.0	0.50	493-1737-ND	.27	1.83	12.93	UPW1A101MDD6
	150	45	0.250	0.19	290	6.3	11.0	2.5	0.50	493-1738-ND	.33	2.26	15.95	UPW1A151MED
	180	54	0.250	0.19	290	6.3	11.0	2.5	0.50	493-1739-ND	.39	2.65	18.70	UPW1A181MED
	220	66	0.250	0.19	290	6.3	11.0	2.5	0.50	493-1740-ND	.34	2.49	17.75	UPW1A221MED
	220	66	0.230	0.19	430	6.3	15.0	2.5	0.50	493-1741-ND	.34	2.49	17.75	UPW1A221MED6
	330	99	0.117	0.19	555	8	11.5	3.5	0.60	493-1742-ND	.37	2.70	19.25	UPW1A331MPD
	470	141	0.117	0.19	555	8	11.5	3.5	0.60	493-1743-ND	.49	3.61	25.75	UPW1A471MPD
10	680	204	0.090	0.19	755	10	12.5	5.0	0.60	493-1744-ND	.51	3.75	26.75	UPW1A681MPD
	680	204	0.085	0.19	730	8	15.0	3.5	0.60	493-1745-ND	.51	3.75	26.75	UPW1A681MPD6
	1000	300	0.068	0.19	1050	10	16.0	5.0	0.60	493-1746-ND	.62	4.61	33.84	UPW1A102MPD
	1000	300	0.065	0.19	995	8	20.0	3.5	0.60	493-1747-ND	.62	4.61	33.84	UPW1A102MPD6
	1200	360	0.052	0.19	1220	10	20.0	5.0	0.60	493-1748-ND	.69	5.15	37.84	UPW1A122MPD
	1500	450	0.052	0.19	1220	10	20.0	5.0	0.60	493-1749-ND	.72	5.34	39.25	UPW1A152MPD
	1500	450	0.045	0.19	1440	10	25.0	5.0	0.60	493-1750-ND	.72	5.34	39.25	UPW1A152MPD6
	2200	660	0.038	0.21	1655	12.5	20.0	5.0	0.60	493-1751-ND	1.01	7.55	55.46	UPW1A222MHD
	2200	660	0.035	0.21	1815	10	31.5	5.0	0.60	493-1752-ND	1.01	7.55	55.46	UPW1A222MPD6
	2700	810	0.030	0.21	1945	12.5	25.0	5.0	0.60	493-1753-ND	1.05	7.81	57.34	UPW1A272MHD
	3300	990	0.030	0.23	1945	12.5	25.0	5.0	0.60	493-1754-ND	.90	6.72	49.35	UPW1A332MHD
	3300	990	0.025	0.23	2310	12.5	31.5	5.0	0.80	493-1755-ND	.90	6.72	49.35	UPW1A332MHD6
	3900	1170	0.022	0.23	2510	12.5	35.5	5.0	0.80	493-1756-ND	1.19	8.91	66.83	UPW1A392MHD
	3900	1170	0.029	0.23	2205	16	20.0	7.5	0.80	493-1757-ND	1.19	8.91	66.83	UPW1A392MHD6
	4700	1410	0.022	0.25	2555	16	25.0	7.5	0.80	493-1758-ND	1.45	10.86	81.45	UPW1A472MHD
	5600	1680	0.022	0.27	2555	16	25.0	7.5	0.80	493-1759-ND	1.83	13.89	104.80	UPW1A562MHD
	5600	1680	0.028	0.27	2490	18	20.0	7.5	0.80	493-1760-ND	1.83	13.89	104.80	UPW1A562MHD6
	6800	2040	0.018	0.29	3010	16	31.5	7.5	0.80	493-1761-ND	1.93	14.63	110.40	UPW1A682MHD

(Continued)

Rated Voltage (VDC)	Cap (µF)	Leakage Current (µA)	Impedance Ω Max. 20°C/100KHz	tan δ (Max.) @120Hz/20°C	Rated Ripple Cur. @100KHz/105°C (mA) rms	Dimensions (mm) ØD	L	P	ød	Digi-Key Part No.	Pricing 1	10	100	Lead (Pb) Free Nichicon Part No.
	6800	2040	0.020	0.29	2740	18	25.0	7.5	0.80	493-1762-ND	1.93	14.63	110.40	UPW1A682MHD6
	8200	2460	0.016	0.33	3150	16	35.5	7.5	0.80	493-1763-ND	2.25	17.07	128.80	UPW1A822MHD
10	8200	2460	0.016	0.33	3635	18	31.5	7.5	0.80	493-1764-ND	2.25	17.07	128.80	UPW1A822MHD6
	10000	3000	0.015	0.37	3680	18	35.5	7.5	0.80	493-1765-ND	2.38	18.02	136.00	UPW1A103MHD
	15000	4500	0.014	0.47	3800	18	40.0	7.5	0.80	493-1766-ND	2.61	19.74	149.00	UPW1A153MHD
	10	4.8	0.600	0.16	180	5	11.0	2.0	0.50	493-1767-ND	.24	1.60	11.28	UPW1C100MDD
	15	7.2	2.000	0.16	65	4	7.0	1.5	0.45	493-1768-ND	.24	1.60	11.28	UPW1C150MDD
	22	10.56	0.600	0.16	180	5	11.0	2.0	0.50	493-1769-ND	.24	1.60	11.28	UPW1C220MDD
	22	10.56	0.950	0.16	120	5	7.0	2.0	0.45	493-1770-ND	.24	1.60	11.28	UPW1C220MDD6
	27	12.96	0.950	0.16	120	5	7.0	2.0	0.45	493-1771-ND	.24	1.60	11.28	UPW1C270MDD
	33	15.84	0.600	0.16	180	5	11.0	2.0	0.50	493-1772-ND	.24	1.60	11.28	UPW1C330MDD
	33	15.84	0.450	0.16	200	6.3	7.0	2.5	0.45	493-1773-ND	.24	1.60	11.28	UPW1C330MDD6
	39	18.72	1.300	0.16	120	4	11.0	1.5	0.45	493-1774-ND	.25	1.72	12.10	UPW1C390MDD
	47	22.56	0.600	0.16	180	5	11.0	2.0	0.50	493-1775-ND	.27	1.83	12.93	UPW1C470MDD
	56	26.88	0.600	0.16	180	5	11.0	2.0	0.50	493-1776-ND	.27	1.83	12.93	UPW1C560MDD
	56	26.88	0.450	0.16	200	6.3	7.0	2.5	0.45	493-1777-ND	.27	1.83	12.93	UPW1C560MDD6
	82	39.36	0.500	0.16	235	5	15.0	2.0	0.50	493-1778-ND	.30	2.03	14.30	UPW1C820MDD
	100	48	0.250	0.16	290	6.3	11.0	2.5	0.50	493-1779-ND	.33	2.26	15.95	UPW1C101MED
	120	57.6	0.250	0.16	290	6.3	11.0	2.5	0.50	493-1780-ND	.33	2.26	15.95	UPW1C121MED
	150	72	0.250	0.16	290	6.3	11.0	2.5	0.50	493-1781-ND	.39	2.65	18.70	UPW1C151MED
	180	86.4	0.230	0.16	430	6.3	15.0	2.5	0.50	493-1782-ND	.34	2.49	17.75	UPW1C181MED
	220	105.6	0.117	0.16	555	8	11.5	3.5	0.60	493-1783-ND	.37	2.70	19.25	UPW1C221MPD
	330	158.4	0.117	0.16	555	8	11.5	3.5	0.60	493-1784-ND	.51	3.75	26.75	UPW1C331MPD
	470	225.6	0.090	0.16	755	10	12.5	5.0	0.60	493-1785-ND	.53	3.92	28.00	UPW1C471MPD
	470	225.6	0.085	0.16	730	8	15.0	3.5	0.60	493-1786-ND	.53	3.92	28.00	UPW1C471MPD6
16	680	326.4	0.068	0.16	1050	10	16.0	5.0	0.60	493-1787-ND	.67	4.96	36.43	UPW1C681MPD
	680	326.4	0.065	0.16	995	8	20.0	3.5	0.60	493-1788-ND	.67	4.96	36.43	UPW1C681MPD6
	820	393.6	0.052	0.16	1220	10	20.0	5.0	0.60	493-1789-ND	.78	5.82	42.77	UPW1C821MPD
	1000	480	0.052	0.16	1220	10	20.0	5.0	0.60	493-1790-ND	.78	5.82	42.77	UPW1C102MPD
	1200	576	0.045	0.16	1440	10	25.0	5.0	0.60	493-1791-ND	1.06	7.90	58.05	UPW1C122MPD
	1500	720	0.038	0.16	1655	12.5	20.0	5.0	0.60	493-1792-ND	1.07	7.94	58.28	UPW1C152MHD
	1500	720	0.035	0.16	1815	10	31.5	5.0	0.60	493-1793-ND	1.07	7.94	58.28	UPW1C152MPD6
	2200	1056	0.030	0.18	1945	12.5	25.0	5.0	0.60	493-1794-ND	.84	6.27	46.06	UPW1C222MHD
	2700	1296	0.025	0.18	2310	12.5	31.5	5.0	0.80	493-1795-ND	1.56	11.67	87.53	UPW1C272MHD
	2700	1296	0.029	0.18	2205	16	20.0	7.5	0.80	493-1796-ND	1.56	11.67	87.53	UPW1C272MHD6
	3300	1584	0.022	0.20	2555	16	25.0	7.5	0.80	493-1797-ND	1.60	12.00	90.00	UPW1C332MHD
	3300	1584	0.022	0.20	2510	12.5	35.5	5.0	0.80	493-1798-ND	1.60	12.00	90.00	UPW1C332MHD6
	3900	1872	0.022	0.20	2555	16	25.0	7.5	0.80	493-1799-ND	1.83	13.89	104.80	UPW1C392MHD
	3900	1872	0.028	0.20	2490	18	20.0	7.5	0.80	493-1800-ND	1.83	13.89	104.80	UPW1C392MHD6
	4700	2256	0.018	0.22	3010	16	31.5	7.5	0.80	493-1801-ND	1.83	13.89	104.80	UPW1C472MHD
	4700	2256	0.020	0.22	2740	18	25.0	7.5	0.80	493-1802-ND	1.83	13.89	104.80	UPW1C472MHD6
	5600	2688	0.016	0.24	3150	16	35.5	7.5	0.80	493-1803-ND	1.93	14.63	110.40	UPW1C562MHD
	5600	2688	0.016	0.24	3635	18	31.5	7.5	0.80	493-1804-ND	1.93	14.63	110.40	UPW1C562MHD6
	6800	3264	0.015	0.26	3680	18	35.5	7.5	0.80	493-1805-ND	2.25	17.07	128.80	UPW1C682MHD
	8200	3936	0.015	0.3	3680	18	35.5	7.5	0.80	493-1806-ND	2.38	18.02	136.00	UPW1C822MHD
	10000	4800	0.014	0.34	3800	18	40.0	7.5	0.80	493-1807-ND	2.61	19.74	149.00	UPW1C103MHD
	4.7	4	0.600	0.14	180	5	11.0	2.0	0.50	493-1808-ND	.24	1.60	11.28	UPW1E4R7MDD
	10	7.5	0.600	0.14	180	5	11.0	2.0	0.50	493-1809-ND	.24	1.60	11.28	UPW1E100MDD
	10	7.5	2.000	0.14	65	4	7.0	1.5	0.45	493-1810-ND	.24	1.60	11.28	UPW1E100MDD6
	22	16.5	0.600	0.14	180	5	11.0	2.0	0.50	493-1811-ND	.27	1.83	12.93	UPW1E220MDD
	22	16.5	0.950	0.14	120	5	7.0	2.0	0.45	493-1812-ND	.27	1.83	12.93	UPW1E220MDD6
	27	20.25	1.300	0.14	120	4	11.0	1.5	0.45	493-1813-ND	.27	1.83	12.93	UPW1E270MDD
	33	24.75	0.600	0.14	180	5	11.0	2.0	0.50	493-1814-ND	.27	1.83	12.93	UPW1E330MDD
	39	29.25	0.600	0.14	180	5	11.0	2.0	0.50	493-1815-ND	.32	2.18	15.40	UPW1E390MDD
	39	29.25	0.450	0.14	200	6.3	7.0	2.5	0.45	493-1816-ND	.32	2.18	15.40	UPW1E390MDD6
	47	35.25	0.600	0.14	180	5	11.0	2.0	0.50	493-1817-ND	.32	2.18	15.40	UPW1E470MDD
	56	42	0.500	0.14	235	5	15.0	2.0	0.50	493-1818-ND	.32	2.18	15.40	UPW1E560MDD
	82	61.5	0.250	0.14	290	6.3	11.0	2.5	0.50	493-1819-ND	.36	2.66	19.00	UPW1E820MED
	100	75	0.250	0.14	290	6.3	11.0	2.5	0.50	493-1820-ND	.36	2.66	19.00	UPW1E101MED
	120	90	0.230	0.14	430	6.3	15.0	2.5	0.50	493-1821-ND	.37	2.70	19.25	UPW1E121MED
	150	112.5	0.117	0.14	555	8	11.5	3.5	0.60	493-1822-ND	.37	2.73	19.50	UPW1E151MPD
	220	165	0.117	0.14	555	8	11.5	3.5	0.60	493-1823-ND	.51	3.75	26.75	UPW1E221MPD
	330	247.5	0.090	0.14	755	10	12.5	5.0	0.60	493-1824-ND	.52	3.82	27.25	UPW1E331MPD
	330	247.5	0.085	0.14	730	8	15.0	3.5	0.60	493-1825-ND	.52	3.82	27.25	UPW1E331MPD6
	470	352.5	0.068	0.14	1050	10	16.0	5.0	0.60	493-1826-ND	.69	5.15	37.84	UPW1E471MPD
25	470	352.5	0.065	0.14	995	8	20.0	3.5	0.60	493-1827-ND	.69	5.15	37.84	UPW1E471MPD6
	560	420	0.052	0.14	1220	10	20.0	5.0	0.60	493-1828-ND	.80	5.92	43.48	UPW1E561MPD
	680	510	0.052	0.14	1220	10	20.0	5.0	0.60	493-1829-ND	.80	5.92	43.48	UPW1E681MPD
	820	615	0.045	0.14	1440	10	25.0	5.0	0.60	493-1830-ND	1.06	7.90	58.05	UPW1E821MPD
	1000	750	0.038	0.14	1655	12.5	20.0	5.0	0.60	493-1831-ND	1.03	7.68	56.40	UPW1E102MHD
	1000	750	0.035	0.14	1815	10	31.5	5.0	0.60	493-1832-ND	1.03	7.68	56.40	UPW1E102MPD
	1500	1125	0.022	0.14	2555	16	25.0	7.5	0.80	493-1833-ND	1.20	8.97	67.28	UPW1E152MHD
	1500	1125	0.030	0.14	1945	12.5	25.0	5.0	0.60	493-1834-ND	1.20	8.97	67.28	UPW1E152MHD6
	1800	1350	0.025	0.14	2310	12.5	31.5	5.0	0.80	493-1835-ND	1.49	11.16	83.70	UPW1E182MHD
	1800	1350	0.029	0.14	2205	16	20.0	7.5	0.80	493-1836-ND	1.49	11.16	83.70	UPW1E182MHD6
	2200	1650	0.022	0.16	2555	16	25.0	7.5	0.80	493-1837-ND	1.56	11.67	87.53	UPW1E222MHD
	2200	1650	0.022	0.16	2510	12.5	35.5	5.0	0.80	493-1838-ND	1.56	11.67	87.53	UPW1E222MHD6
	2200	1650	0.028	0.16	2490	18	20.0	7.5	0.80	493-1839-ND	1.56	11.67	87.53	UPW1E222MHD
	2700	2025	0.022	0.16	2555	16	25.0	7.5	0.80	493-1840-ND	1.76	13.36	100.80	UPW1E272MHD
	3300	2475	0.018	0.18	3010	16	31.5	7.5	0.80	493-1841-ND	1.84	13.97	105.40	UPW1E332MHD
	3300	2475	0.020	0.18	2740	18	25.0	7.5	0.80	493-1842-ND	1.84	13.97	105.40	UPW1E332MHD6
	3900	2925	0.016	0.18	3150	16	35.5	7.5	0.80	493-1843-ND	1.93	14.63	110.40	UPW1E392MHD
	3900	2925	0.016	0.18	3635	18	31.5	7.5	0.80	493-1844-ND	1.93	14.63	110.40	UPW1E392MHD6
	4700	3525	0.015	0.2	3680	18	35.5	7.5	0.80	493-1845-ND	1.86	14.05	106.00	UPW1E472MHD
	6800	5100	0.014	0.24	3800	18	40.0	7.5	0.80	493-1846-ND	2.79	21.12	159.40	UPW1E682MHD
	4.7	4.935	0.600	0.12	180	5	11.0	2.0	0.50	493-1847-ND	.24	1.60	11.28	UPW1V4R7MDD
	6.8	7.14	2.000	0.12	65	4	7.0	1.5	0.45	493-1848-ND	.24	1.60	11.28	UPW1V6R8MDD
	10	10.5	0.600	0.12	180	5	11.0	2.0	0.50	493-1849-ND	.24	1.60	11.28	UPW1V100MDD
	10	10.5	0.950	0.12	120	5	7.0	2.0	0.45	493-1850-ND	.24	1.60	11.28	UPW1V100MDD6
	12	12.6	0.950	0.12	120	5	7.0	2.0	0.45	493-1851-ND	.24	1.60	11.28	UPW1V120MDD
	18	18.9	1.300	0.12	120	4	11.0	1.5	0.45	493-1852-ND	.26	1.79	12.65	UPW1V180MDD
	22	23.1	0.600	0.12	180	5	11.0	2.0	0.50	493-1853-ND	.27	1.83	12.93	UPW1V220MDD
	27	28.35	0.600	0.12	180	5	11.0	2.0	0.50	493-1854-ND	.27	1.83	12.93	UPW1V270MDD
	27	28.35	0.450	0.12	200	6.3	7.0	2.5	0.45	493-1855-ND	.27	1.83	12.93	UPW1V270MDD6
35	33	34.65	0.600	0.12	180	5	11.0	2.0	0.50	493-1856-ND	.32	2.18	15.40	UPW1V330MDD
	39	40.95	0.500	0.12	235	5	15.0	2.0	0.50	493-1857-ND	.33	2.26	15.95	UPW1V390MDD
	47	49.35	0.250	0.12	290	6.3	11.0	2.5	0.50	493-1858-ND	.33	2.26	15.95	UPW1V470MED
	56	58.8	0.250	0.12	290	6.3	11.0	2.5	0.50	493-1859-ND	.33	2.26	15.95	UPW1V560MED
	82	86.1	0.230	0.12	430	6.3	15.0	2.5	0.50	493-1860-ND	.38	2.84	20.25	UPW1V820MED
	100	105	0.117	0.12	555	8	11.5	3.5	0.60	493-1861-ND	.37	2.70	19.25	UPW1V101MPD
	150	157.5	0.117	0.12	555	8	11.5	3.5	0.60	493-1862-ND	.40	2.94	21.00	UPW1V151MPD
	220	231	0.090	0.12	755	10	12.5	5.0	0.60	493-1863-ND	.57	4.17	29.75	UPW1V221MPD
	220	231	0.085	0.12	730	8	15.0	3.5	0.60	493-1864-ND	.57	4.17	29.75	UPW1V221MPD6
	330	346.5	0.068	0.12	1050	10	16.0	5.0	0.60	493-1865-ND	.70	5.18	38.07	UPW1V331MPD
	330	346.5	0.065	0.12	995	8	20.0	3.5	0.60	493-1866-ND	.70	5.18	38.07	UPW1V331MPD6

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ted tage DC)	Cap (µF)	Leakage Current (µA)	Impedance Ω Max. 20°C/100KHz	tan δ (Max.) @120Hz/20°C	Rated Ripple Cur. @100KHz/105°C (mA) rms	Dimensions (mm) ØD	L	P	ød	Digi-Key Part No.	Pricing 1	10	100	Lead (Pb) Free Nichicon Part No.
	390	409.5	0.052	0.12	1220	10	20.0	5.0	0.60	493-1867-ND	.88	6.56	48.18	UPW1V391MPD
	470	493.5	0.052	0.12	1220	10	20.0	5.0	0.60	493-1868-ND	.88	6.56	48.18	UPW1V471MPD
	560	588	0.045	0.12	1440	10	25.0	5.0	0.60	493-1869-ND	1.07	7.94	58.28	UPW1V561MPD
	680	714	0.038	0.12	1655	12.5	20.0	5.0	0.60	493-1870-ND	1.07	7.97	58.52	UPW1V681MHD
	680	714	0.035	0.12	1815	10	31.5	5.0	0.60	493-1871-ND	1.07	7.97	58.52	UPW1V681MPD6
	1000	1050	0.030	0.12	1945	12.5	25.0	5.0	0.60	493-1872-ND	1.20	9.00	67.50	UPW1V102MHD
	1200	1260	0.025	0.12	2310	12.5	31.5	5.0	0.80	493-1873-ND	1.49	11.16	83.70	UPW1V122MHD
	1200	1260	0.029	0.12	2205	16	20.0	7.5	0.80	493-1874-ND	1.49	11.16	83.70	UPW1V122MHD6
	1500	1575	0.022	0.12	2555	16	25.0	7.5	0.80	493-1875-ND	1.60	12.00	90.00	UPW1V152MHD
	1500	1575	0.022	0.12	2510	12.5	35.5	5.0	0.80	493-1876-ND	1.60	12.00	90.00	UPW1V152MHD6
	1800	1890	0.022	0.12	2555	16	25.0	7.5	0.80	493-1877-ND	1.76	13.36	100.80	UPW1V182MHD
	1800	1890	0.028	0.12	2490	18	20.0	7.5	0.80	493-1878-ND	1.76	13.36	100.80	UPW1V182MHD6
	2200	2310	0.018	0.14	3010	16	31.5	7.5	0.80	493-1879-ND	1.76	13.36	100.80	UPW1V222MHD
	2200	2310	0.020	0.14	2740	18	25.0	7.5	0.80	493-1880-ND	1.76	13.36	100.80	UPW1V222MHD6
	2700	2835	0.016	0.14	3150	16	35.5	7.5	0.80	493-1881-ND	1.93	14.63	110.40	UPW1V272MHD
	2700	2835	0.016	0.14	3635	18	31.5	7.5	0.80	493-1882-ND	1.93	14.63	110.40	UPW1V272MHD6
	3300	3465	0.015	0.16	3680	18	35.5	7.5	0.80	493-1883-ND	2.25	17.07	128.80	UPW1V332MHD
	4700	4935	0.014	0.18	3800	18	40.0	7.5	0.80	493-1884-ND	2.79	21.12	159.40	UPW1V472MHD
	0.47	4	5.000	0.1	25	5	11.0	2.0	0.50	493-1885-ND	.24	1.60	11.28	UPW1HR47MDD
	.1	4	3.500	0.1	40	5	11.0	2.0	0.50	493-1886-ND	.24	1.60	11.28	UPW1H010MDD
	2.2	4	3.000	0.1	55	5	11.0	2.0	0.50	493-1887-ND	.24	1.60	11.28	UPW1H2R2MDD
	3.3	4.95	2.600	0.1	65	5	11.0	2.0	0.50	493-1888-ND	.24	1.60	11.28	UPW1H3R3MDD
	4.7	7.05	2.300	0.1	90	5	11.0	2.0	0.50	493-1889-ND	.24	1.60	11.28	UPW1H4R7MDD
	10	15	1.400	0.1	120	5	11.0	2.0	0.50	493-1890-ND	.26	1.79	12.65	UPW1H100MDD
	10	15	2.500	0.1	90	4	11.0	1.5	0.45	493-1891-ND	.26	1.79	12.65	UPW1H100MDD6
	18	27	1.300	0.1	155	5	11.0	2.0	0.50	493-1892-ND	.33	2.26	15.95	UPW1H180MDD
	22	33	1.200	0.1	170	5	11.0	2.0	0.50	493-1893-ND	.33	2.26	15.95	UPW1H220MDD
	27	40.5	0.900	0.1	215	5	15.0	2.0	0.50	493-1894-ND	.33	2.26	15.95	UPW1H270MDD
	33	49.5	0.430	0.1	300	6.3	11.0	2.5	0.50	493-1895-ND	.33	2.45	17.50	UPW1H330MED
	47	70.5	0.430	0.1	300	6.3	11.0	2.5	0.50	493-1896-ND	.35	2.59	18.50	UPW1H470MED
	56	84	0.400	0.1	360	6.3	15.0	2.5	0.50	493-1897-ND	.37	2.70	19.25	UPW1H560MED
	82	123	0.234	0.1	485	8	11.5	3.5	0.60	493-1898-ND	.51	3.75	26.75	UPW1H820MPD
	100	150	0.234	0.1	485	8	11.5	3.5	0.60	493-1899-ND	.51	3.75	26.75	UPW1H101MPD
	120	180	0.155	0.1	635	8	15.0	3.5	0.60	493-1900-ND	.56	4.13	29.50	UPW1H121MPD
	120	180	0.162	0.1	615	10	12.5	5.0	0.60	493-1901-ND	.56	4.13	29.50	UPW1H121MPD6
	150	225	0.162	0.1	615	10	12.5	5.0	0.60	493-1902-ND	.56	4.13	29.50	UPW1H151MPD
	180	270	0.120	0.1	860	8	20.0	3.5	0.60	493-1903-ND	.61	4.54	33.37	UPW1H181MPD
	180	270	0.119	0.1	850	10	16.0	5.0	0.60	493-1904-ND	.61	4.54	33.37	UPW1H181MPD6
	220	330	0.119	0.1	850	10	16.0	5.0	0.60	493-1905-ND	.61	4.54	33.37	UPW1H221MPD
	220	330	0.090	0.1	1030	10	20.0	5.0	0.60	493-1906-ND	.61	4.54	33.37	UPW1H221MPD6
	270	405	0.082	0.1	1200	10	25.0	5.0	0.60	493-1907-ND	.83	6.18	45.36	UPW1H271MPD
	330	495	0.090	0.1	1030	10	20.0	5.0	0.60	493-1908-ND	.83	6.18	45.36	UPW1H331MPD
	330	495	0.060	0.1	1610	10	31.5	5.0	0.60	493-1909-ND	.83	6.18	45.36	UPW1H331MPD6
	390	585	0.063	0.1	1480	12.5	20.0	5.0	0.60	493-1910-ND	1.07	7.94	58.28	UPW1H391MHD
	470	705	0.060	0.1	1500	12.5	20.0	5.0	0.60	493-1911-ND	1.01	7.59	56.93	UPW1H471MHD
	560	840	0.050	0.1	1832	12.5	25.0	5.0	0.60	493-1912-ND	1.24	9.27	69.53	UPW1H561MHD
	680	1020	0.050	0.1	1832	12.5	25.0	5.0	0.60	493-1913-ND	1.24	9.27	69.53	UPW1H681MHD
	680	1020	0.048	0.1	1835	16	20.0	7.5	0.80	493-1914-ND	1.24	9.27	69.53	UPW1H681MHD6
	820	1230	0.034	0.1	2285	12.5	35.5	5.0	0.80	493-1915-ND	1.49	11.16	83.70	UPW1H821MHD
	820	1230	0.042	0.1	2420	18	20.0	7.5	0.80	493-1916-ND	1.49	11.16	83.70	UPW1H821MHD6
	1000	1500	0.034	0.1	2235	16	25.0	7.5	0.80	493-1917-ND	1.49	11.16	83.70	UPW1H102MHD
	1200	1800	0.028	0.1	2700	16	31.5	7.5	0.80	493-1918-ND	1.93	14.63	110.40	UPW1H122MHD
	1200	1800	0.029	0.1	2610	18	25.0	7.5	0.80	493-1919-ND	1.93	14.63	110.40	UPW1H122MHD6
	1500	2250	0.028	0.1	2700	16	31.5	7.5	0.80	493-1920-ND	1.93	14.63	110.40	UPW1H152MHD
	1500	2250	0.025	0.1	2790	16	35.5	7.5	0.80	493-1921-ND	1.93	14.63	110.40	UPW1H152MHD6
	1800	2700	0.025	0.1	3000	18	31.5	7.5	0.80	493-1922-ND	2.25	17.07	128.80	UPW1H182MHD
	2200	3300	0.023	0.12	3100	18	35.5	7.5	0.80	493-1923-ND	2.43	18.42	139.00	UPW1H222MHD
	4.7	8.883	4.700	0.09	68	5	11.0	2.0	0.50	493-1924-ND	.27	1.83	12.93	UPW1J4R7MDD
	6.8	12.852	2.500	0.09	95	5	11.0	2.0	0.50	493-1925-ND	.27	1.83	12.93	UPW1J6R8MDD
	6.8	12.852	3.500	0.09	80	4	11.0	1.5	0.45	493-1926-ND	.27	1.83	12.93	UPW1J6R8MDD6
	10	18.9	2.100	0.09	110	5	11.0	2.0	0.50	493-1927-ND	.27	1.83	12.93	UPW1J100MDD
	12	22.68	2.000	0.09	145	5	11.0	2.0	0.50	493-1928-ND	.33	2.26	15.95	UPW1J120MDD
	15	28.35	1.200	0.09	160	6.3	11.0	2.5	0.50	493-1929-ND	.33	2.45	17.50	UPW1J150MED
	18	34.02	1.300	0.09	200	5	15.0	2.0	0.50	493-1930-ND	.33	2.45	17.50	UPW1J180MDD
	22	41.58	0.710	0.09	250	6.3	11.0	2.5	0.50	493-1931-ND	.33	2.45	17.50	UPW1J220MED
	33	62.37	0.710	0.09	250	6.3	11.0	2.5	0.50	493-1932-ND	.35	2.59	18.50	UPW1J330MED
	39	73.71	0.700	0.09	330	6.3	15.0	2.5	0.50	493-1933-ND	.36	2.66	19.00	UPW1J390MED
	47	88.83	0.342	0.09	405	8	11.5	3.5	0.60	493-1934-ND	.40	2.94	21.00	UPW1J470MPD
	68	128.52	0.342	0.09	405	8	11.5	3.5	0.60	493-1935-ND	.51	3.75	26.75	UPW1J680MPD
	100	189	0.256	0.09	535	10	12.5	5.0	0.60	493-1936-ND	.56	4.13	29.50	UPW1J101MPD
	100	189	0.230	0.09	535	8	15.0	3.5	0.60	493-1937-ND	.56	4.13	29.50	UPW1J101MPD6
	120	226.8	0.194	0.09	600	10	16.0	5.0	0.60	493-1938-ND	.61	4.54	33.37	UPW1J121MPD
	150	283.5	0.194	0.09	660	10	16.0	5.0	0.60	493-1939-ND	.61	4.54	33.37	UPW1J151MPD
	180	340.2	0.150	0.09	1020	12.5	15.0	5.0	0.60	493-1940-ND	.88	6.56	48.18	UPW1J181MHD6
	180	340.2	0.147	0.09	885	10	20.0	5.0	0.60	493-1941-ND	.88	6.56	48.18	UPW1J181MPD
	220	415.8	0.147	0.09	885	10	20.0	5.0	0.60	493-1942-ND	1.06	7.90	58.05	UPW1J221MPD
	220	415.8	0.130	0.09	1050	10	25.0	5.0	0.60	493-1943-ND	1.06	7.90	58.05	UPW1J221MPD6
	270	510.3	0.090	0.09	1410	16	15.0	7.5	0.80	493-1944-ND	1.07	7.94	58.28	UPW1J271MHD
	330	623.7	0.085	0.09	1285	12.5	20.0	5.0	0.60	493-1945-ND	1.07	7.94	58.28	UPW1J331MHD
	390	737.1	0.070	0.09	1720	12.5	25.0	5.0	0.60	493-1946-ND	1.24	9.27	69.53	UPW1J391MHD
	390	737.1	0.086	0.09	1690	18	15.0	7.5	0.80	493-1947-ND	1.24	9.27	69.53	UPW1J391MHD6
	470	888.3	0.070	0.09	1720	12.5	25.0	5.0	0.60	493-1948-ND	1.24	9.27	69.53	UPW1J471MHD
	470	888.3	0.059	0.09	1765	16	20.0	7.5	0.80	493-1949-ND	1.24	9.27	69.53	UPW1J471MHD3
	470	888.3	0.055	0.09	2090	12.5	31.5	5.0	0.80	493-1950-ND	1.24	9.27	69.53	UPW1J471MHD6
	680	1285.2	0.050	0.09	2160	16	25.0	7.5	0.80	493-1951-ND	1.49	11.16	83.70	UPW1J681MHD
	680	1285.2	0.055	0.09	2290	18	20.0	7.5	0.80	493-1952-ND	1.49	11.16	83.70	UPW1J681MHD3
	680	1285.2	0.047	0.09	2265	12.5	35.5	5.0	0.80	493-1953-ND	1.49	11.16	83.70	UPW1J681MHD6
	820	1549.8	0.043	0.09	2670	16	31.5	7.5	0.80	493-1954-ND	1.93	14.63	110.40	UPW1J821MHD
	820	1549.8	0.043	0.09	2585	18	25.0	7.5	0.80	493-1955-ND	1.93	14.63	110.40	UPW1J821MHD6
	1000	1890	0.043	0.09	2670	16	31.5	7.5	0.80	493-1956-ND	1.93	14.63	110.40	UPW1J102MHD
	1000	1890	0.036	0.09	2770	16	35.5	7.5	0.80	493-1957-ND	1.93	14.63	110.40	UPW1J102MHD6
	1200	2268	0.032	0.09	2950	18	31.5	7.5	0.80	493-1958-ND	2.25	17.07	128.80	UPW1J122MHD
	1500	2835	0.030	0.09	3095	18	35.5	7.5	0.80	493-1959-ND	2.43	18.42	139.00	UPW1J152MHD
	2200	4158	0.028	0.11	3200	18	40.0	7.5	0.80	493-1960-ND	2.79	21.12	159.40	UPW1J222MHD
	0.47	4	43.000	0.08	20	5	11.0	2.0	0.50	493-1961-ND	.27	1.83	12.93	UPW2AR47MDD
	1	4	20.000	0.08	30	5	11.0	2.0	0.50	493-1962-ND	.27	1.83	12.93	UPW2A010MDD
	2.2	6.6	9.800	0.08	44	5	11.0	2.0	0.50	493-1963-ND	.27	1.83	12.93	UPW2A2R2MDD
	3.3	9.9	6.600	0.08	58	5	11.0	2.0	0.50	493-1964-ND	.32	2.18	15.40	UPW2A3R3MDD
	4.7	14.1	4.600	0.08	74	5	11.0	2.0	0.50	493-1965-ND	.32	2.18	15.40	UPW2A4R7MDD
	6.8	20.4	3.500	0.08	95	5	11.0	2.0	0.50	493-1966-ND	.32	2.18	15.40	UPW2A6R8MDD
	10	30	1.800	0.08	130	6.3	11.0	2.5	0.50	493-1967-ND	.35	2.59	18.50	UPW2A100MED
	15	45	0.830	0.08	180	8	11.5	3.5	0.60	493-1968-ND	.40	2.94	21.00	UPW2A150MPD
	18	54	0.800	0.08	200	6.3	15.0	2.5	0.50	493-1969-ND	.40	2.94	21.00	UPW2A180MED
	22	66	0.680	0.08	230	8	11.5	3.5	0.60	493-1970-ND	.51	3.75	26.75	UPW2A220MPD

(Continued)

Rated Voltage (VDC)	Cap (µF)	Leakage Current (µA)	Impedance Ω Max. 20°C/100KHz	tan δ (Max.) @120Hz/20°C	Rated Ripple Cur. @100KHz/105°C (mA) rms	Dimensions (mm) ØD	L	P	ød	Digi-Key Part No.	Pricing 1	10	100	Lead (Pb) Free Nichicon Part No.
100	33	99	0.460	0.08	320	10	12.5	5.0	0.60	493-1971-ND	.56	4.13	29.50	UPW2A330MPD
	33	99	0.450	0.08	360	8	15.0	3.5	0.60	493-1972-ND	.56	4.13	29.50	UPW2A330MPD
	47	141	0.370	0.08	420	10	16.0	5.0	0.60	493-1973-ND	.61	4.54	33.37	UPW2A470MPD
	47	141	0.370	0.08	420	8	20.0	3.5	0.60	493-1974-ND	.61	4.54	33.37	UPW2A470MPD
	68	204	0.300	0.08	490	10	20.0	5.0	0.60	493-1975-ND	.88	6.56	48.18	UPW2A680MPD
	82	246	0.250	0.08	540	10	25.0	5.0	0.60	493-1976-ND	1.06	7.90	58.05	UPW2A820MPD
	100	300	0.180	0.08	580	12.5	20.0	5.0	0.60	493-1977-ND	1.07	7.94	58.28	UPW2A101MHD
	150	450	0.130	0.08	710	12.5	25.0	5.0	0.60	493-1978-ND	1.37	10.29	77.18	UPW2A151MHD
	180	540	0.120	0.08	790	12.5	31.5	5.0	0.80	493-1979-ND	1.40	10.53	78.98	UPW2A181MHD
	180	540	0.130	0.08	750	16	20.0	7.5	0.80	493-1980-ND	1.40	10.53	78.98	UPW2A181MHD
	220	660	0.100	0.08	890	16	25.0	7.5	0.80	493-1981-ND	1.49	11.16	83.70	UPW2A221MHD
	220	660	0.110	0.08	850	18	20.0	7.5	0.80	493-1982-ND	1.49	11.16	83.70	UPW2A221MHD
	330	990	0.090	0.08	1080	16	25.0	7.5	0.80	493-1983-ND	1.98	14.85	111.38	UPW2A331MHD
	390	1170	0.083	0.08	1260	18	25.0	7.5	0.80	493-1984-ND	1.83	13.86	104.60	UPW2A391MHD
	470	1410	0.076	0.08	1310	16	31.5	7.5	0.80	493-1985-ND	1.93	14.60	110.20	UPW2A471MHD
	560	1680	0.068	0.08	1370	18	31.5	7.5	0.80	493-1986-ND	2.25	17.07	128.80	UPW2A561MHD
	680	2040	0.064	0.08	1410	16	35.5	7.5	0.80	493-1987-ND	2.43	18.42	139.00	UPW2A681MHD
	1000	3000	0.047	0.08	1520	18	40.0	7.5	0.80	493-1988-ND	3.65	27.64	208.60	UPW2A102MHD
160	0.47	47.52	—	0.15	12	6.3	11.0	2.5	0.50	493-1989-ND	.35	2.59	18.50	UPW2CR47MED
	1	56	—	0.15	17	6.3	11.0	2.5	0.50	493-1990-ND	.35	2.59	18.50	UPW2C010MED
	2.2	75.2	—	0.15	25	6.3	11.0	2.5	0.50	493-1991-ND	.42	3.08	22.00	UPW2C2R2MED
	3.3	92.8	—	0.15	36	8	11.5	3.5	0.60	493-1992-ND	.54	3.99	28.50	UPW2C3R3MPD
	4.7	115.2	—	0.15	43	8	11.5	3.5	0.60	493-1993-ND	.54	3.99	28.50	UPW2C4R7MPD
	10	200	—	0.15	70	10	12.5	5.0	0.60	493-1994-ND	.59	4.42	32.43	UPW2C100MPD
	22	392	—	0.15	130	10	20.0	5.0	0.60	493-1995-ND	.84	6.27	46.06	UPW2C220MPD
	33	568	—	0.15	180	12.5	20.0	5.0	0.60	493-1996-ND	1.03	7.68	56.40	UPW2C330MHD
	47	792	—	0.15	220	12.5	25.0	5.0	0.60	493-1997-ND	1.13	8.49	63.68	UPW2C470MHD
	100	1640	—	0.15	330	16	25.0	7.5	0.80	493-1998-ND	1.67	12.51	93.83	UPW2C101MHD
	220	3560	—	0.15	500	18	35.5	7.5	0.80	493-1999-ND	2.68	20.33	153.40	UPW2C221MHD
	220	3560	—	0.15	500	20	31.0	10.0	1.00	493-2000-ND	2.68	20.33	153.40	UPW2C221MRD
	330	5320	—	0.15	900	20	40.0	10.0	1.00	493-2001-ND	3.52	26.69	201.40	UPW2C331MRD
	470	7560	—	0.15	1200	22	50.0	10.0	1.00	493-2002-ND	5.31	40.20	303.40	UPW2C471MRD
200	0.47	49.4	—	0.15	12	6.3	11.0	2.5	0.50	493-2003-ND	.39	2.87	20.50	UPW2DR47MED
	1	60	—	0.15	17	6.3	11.0	2.5	0.50	493-2004-ND	.39	2.87	20.50	UPW2D010MED
	2.2	84	—	0.15	25	6.3	11.0	2.5	0.50	493-2005-ND	.50	3.71	26.50	UPW2D2R2MED
	3.3	106	—	0.15	36	8	11.5	3.5	0.60	493-2006-ND	.54	3.99	28.50	UPW2D3R3MPD
	4.7	134	—	0.15	50	10	12.5	5.0	0.60	493-2007-ND	.58	4.31	30.75	UPW2D4R7MPD
	10	240	—	0.15	80	10	16.0	5.0	0.60	493-2008-ND	.66	4.93	36.19	UPW2D100MPD
	22	480	—	0.15	140	10	20.0	5.0	0.60	493-2009-ND	1.03	7.68	56.40	UPW2D220MPD
	33	700	—	0.15	190	12.5	25.0	5.0	0.60	493-2010-ND	1.13	8.49	63.68	UPW2D330MHD
	47	980	—	0.15	220	12.5	25.0	5.0	0.60	493-2011-ND	1.20	8.97	67.28	UPW2D470MHD
	100	2040	—	0.15	335	16	31.5	7.5	0.80	493-2012-ND	2.33	17.62	133.00	UPW2D101MHD
	220	4440	—	0.15	515	18	40.0	7.5	0.80	493-2013-ND	3.23	24.49	184.80	UPW2D221MHD
	220	4440	—	0.15	515	20	35.0	10.0	1.00	493-2014-ND	3.23	24.49	184.80	UPW2D221MRD
	330	6640	—	0.15	1100	22	40.0	10.0	1.00	493-2015-ND	5.59	42.32	319.40	UPW2D331MRD
	470	9440	—	0.15	1310	22	50.0	10.0	1.00	493-2016-ND	6.87	52.02	392.60	UPW2D471MRD
250	0.47	51.75	—	0.15	12	6.3	11.0	2.5	0.50	493-2017-ND	.42	3.08	22.00	UPW2ER47MED
	1	65	—	0.15	17	6.3	11.0	2.5	0.50	493-2018-ND	.42	3.08	22.00	UPW2E010MED
	2.2	95	—	0.15	29	8	11.5	3.5	0.60	493-2019-ND	.54	3.99	28.50	UPW2E2R2MPD
	3.3	122.5	—	0.15	42	10	12.5	5.0	0.60	493-2020-ND	.57	4.20	30.00	UPW2E3R3MPD
	4.7	157.5	—	0.15	50	10	12.5	5.0	0.60	493-2021-ND	.58	4.35	31.96	UPW2E4R7MPD
	10	290	—	0.15	88	10	20.0	5.0	0.60	493-2022-ND	.84	6.27	46.06	UPW2E100MPD
	22	590	—	0.15	155	12.5	25.0	5.0	0.60	493-2023-ND	1.03	7.68	56.40	UPW2E220MHD
	33	865	—	0.15	190	12.5	25.0	5.0	0.60	493-2024-ND	1.13	8.49	63.68	UPW2E330MHD
	47	1215	—	0.15	230	16	25.0	7.5	0.80	493-2025-ND	1.67	12.51	93.83	UPW2E470MHD
	100	2540	—	0.15	340	18	35.5	7.5	0.80	493-2026-ND	2.68	20.33	153.40	UPW2E101MHD
	100	2540	—	0.15	340	20	31.0	10.0	1.00	493-2027-ND	2.68	20.33	153.40	UPW2E101MRD
	220	5540	—	0.15	525	20	40.0	10.0	1.00	493-2028-ND	3.67	27.80	209.80	UPW2E221MRD
	330	8290	—	0.15	1150	22	50.0	10.0	1.00	493-2029-ND	6.59	49.87	376.40	UPW2E331MRD
	470	11790	—	0.15	1350	25	50.0	12.5	1.00	493-2030-ND	8.48	64.24	484.80	UPW2E471MRD
315	0.47	54.805	—	0.2	11	8	11.5	3.5	0.60	493-2031-ND	.50	3.71	26.50	UPW2FR47MED
	1	71.5	—	0.2	16	8	11.5	3.5	0.60	493-2032-ND	.50	3.71	26.50	UPW2F010MED
	2.2	109.3	—	0.2	28	10	12.5	5.0	0.60	493-2033-ND	.57	4.20	30.00	UPW2F2R2MPD
	3.3	143.95	—	0.2	34	10	12.5	5.0	0.60	493-2034-ND	.60	4.45	31.75	UPW2F3R3MPD
	4.7	188.05	—	0.2	45	10	16.0	5.0	0.60	493-2035-ND	.71	5.28	38.78	UPW2F4R7MPD
	10	355	—	0.2	72	10	20.0	5.0	0.60	493-2036-ND	.86	6.37	46.77	UPW2F100MPD
	22	733	—	0.2	120	12.5	25.0	5.0	0.60	493-2037-ND	1.00	7.53	56.48	UPW2F220MHD
	33	1079.5	—	0.2	155	16	25.0	7.5	0.80	493-2038-ND	1.75	13.14	98.55	UPW2F330MHD
	47	1520.5	—	0.2	190	16	35.5	7.5	0.80	493-2039-ND	2.33	17.62	133.00	UPW2F470MHD
	100	3190	—	0.2	285	18	40.0	7.5	0.80	493-2040-ND	3.13	23.72	179.00	UPW2F101MHD
	100	3190	—	0.2	285	20	35.0	10.0	1.00	493-2041-ND	3.13	23.72	179.00	UPW2F101MRD
	220	6970	—	0.2	540	22	50.0	10.0	1.00	493-2042-ND	7.65	57.90	437.00	UPW2F221MRD
350	0.47	56.45	—	0.2	11	8	11.5	3.5	0.60	493-2043-ND	.51	3.75	26.75	UPW2VR47MED
	1	75	—	0.2	17	10	12.5	5.0	0.60	493-2044-ND	.57	4.20	30.00	UPW2V010MPD
	2.2	117	—	0.2	31	10	16.0	5.0	0.60	493-2045-ND	.56	4.16	30.55	UPW2V2R2MPD
	3.3	155.5	—	0.2	38	10	16.0	5.0	0.60	493-2046-ND	.66	4.93	36.19	UPW2V3R3MPD
	4.7	204.5	—	0.2	49	10	20.0	5.0	0.60	493-2047-ND	.78	5.79	42.54	UPW2V4R7MPD
	10	390	—	0.2	82	12.5	20.0	5.0	0.60	493-2048-ND	1.03	7.71	57.83	UPW2V100MHD
	22	810	—	0.2	130	16	25.0	7.5	0.80	493-2049-ND	1.67	12.51	93.83	UPW2V220MHD
	33	1195	—	0.2	160	16	31.5	7.5	0.80	493-2050-ND	1.80	13.65	103.00	UPW2V330MHD
	47	1685	—	0.2	200	18	35.5	7.5	0.80	493-2051-ND	2.68	20.33	153.40	UPW2V470MHD
	47	1685	—	0.2	200	20	31.0	10.0	1.00	493-2052-ND	2.68	20.33	153.40	UPW2V470MRD
	100	3540	—	0.2	290	20	40.0	10.0	1.00	493-2053-ND	3.67	27.80	209.80	UPW2V101MRD
	220	7740	—	0.2	550	25	50.0	12.5	1.00	493-2054-ND	8.88	67.23	507.40	UPW2V221MRD
400	1	80	—	0.25	16	10	12.5	5.0	0.60	493-2055-ND	.57	4.26	31.26	UPW2G010MPD
	2.2	128	—	0.25	27	10	16.0	5.0	0.60	493-2056-ND	.68	5.02	36.90	UPW2G2R2MPD
	3.3	172	—	0.25	36	10	20.0	5.0	0.60	493-2057-ND	.78	5.79	42.54	UPW2G3R3MPD
	4.7	228	—	0.25	43	10	20.0	5.0	0.60	493-2058-ND	1.03	7.68	56.40	UPW2G4R7MPD
	10	440	—	0.25	72	12.5	25.0	5.0	0.60	493-2059-ND	1.13	8.49	63.68	UPW2G100MHD
	22	920	—	0.25	110	16	25.0	7.5	0.80	493-2060-ND	1.94	14.58	109.35	UPW2G220MHD
	33	1360	—	0.25	140	16	31.5	7.5	0.80	493-2061-ND	2.33	17.62	133.00	UPW2G330MHD
	47	1920	—	0.25	170	18	35.5	7.5	0.80	493-2062-ND	3.12	23.64	178.40	UPW2G470MHD
	47	1920	—	0.25	170	20	31.0	10.0	1.00	493-2063-ND	3.12	23.64	178.40	UPW2G470MRD
	100	4040	—	0.25	350	22	50.0	10.0	1.00	493-2064-ND	5.76	43.59	329.00	UPW2G101MRD
450	1	85	—	0.25	18	10	12.5	5.0	0.60	493-2065-ND	.58	4.32	31.73	UPW2W010MPD
	2.2	139	—	0.25	29	10	20.0	5.0	0.60	493-2066-ND	.78	5.79	42.54	UPW2W2R2MPD
	3.3	188.5	—	0.25	41	12.5	20.0	5.0	0.60	493-2067-ND	1.03	7.68	56.40	UPW2W3R3MHD
	4.7	251.5	—	0.25	49	12.5	20.0	5.0	0.60	493-2068-ND	1.08	8.07	60.53	UPW2W4R7MHD
	10	490	—	0.25	75	16	25.0	7.5	0.80	493-2069-ND	1.67	12.51	93.83	UPW2W100MHD
	22	1030	—	0.25	115	16	31.5	7.5	0.80	493-2070-ND	2.02	15.29	115.40	UPW2W220MHD
	33	1525	—	0.25	145	18	35.5	7.5	0.80	493-2071-ND	3.12	23.64	178.40	UPW2W330MHD
	33	1525	—	0.25	145	20	31.0	10.0	1.00	493-2072-ND	3.12	23.64	178.40	UPW2W330MRD
	47	2155	—	0.25	175	20	40.0	10.0	1.00	493-2073-ND	3.67	27.80	209.80	UPW2W470MRD
	100	4540	—	0.25	350	25	50.0	12.5	1.00	493-2074-ND	7.82	59.20	446.80	UPW2W101MRD

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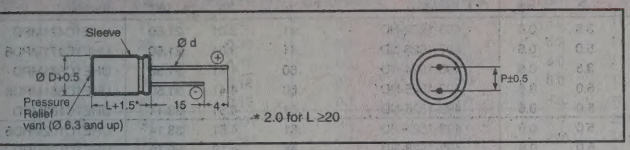

TURES: • Miniature sized • Extremely low impedance • High reliability and long life withstanding 0 hours to 10,000 hours.

CIFICATIONS:

mperature Range	-40°C to 105°C
apacitance Tolerance	±20% at 120Hz, 20°C

akage Current: After 2 minutes application of rated voltage, leakage current is not more than 0.01CV or μA), whichever is greater.

δ: For capacitance of more than 1000μF, add 0.02 for every increase of 1000μF. Measurement quency: 120Hz, Temperature: 20°C.

ted Voltage (V)	6.3	10	16	25	35	50	63	100
δ (Max.)	0.22	0.19	0.16	0.14	0.12	0.10	0.09	0.08

• **Stability at Low Temperature:** Measurement frequency: 120Hz

Rated Voltage (V)		6.3	10	16	25	35	50	63	100
Impedance ratio	Z-20°C / Z+20°C	4	3	2	2	2	2	2	2
ZT / Z20 (Max.)	Z-40°C / Z+20°C	8	6	4	3	3	3	3	3

• **Endurance:** After an application of D.C bias voltage plus the rated ripple current for stated hours in the below chart at 105°C the peak voltage shall not exceed the rated D.C. voltage, capacitors shall meet the following requirements.

Case Size		φD ≤ 6.3	φD = 8,10	φD ≥ 12.5
Rated Voltage (V)	6.3 to 10WV	4,000 hours	6,000 hours	8,000 hours
	16 to 100WV	5,000 hours	7,000 hours	10,000 hours
Capacitance Change		Within ±25% of initial value		
tan δ		200% or less of initial specified value		
Leakage Current		Initial specified value or less		

• **Shelf Life:** After leaving capacitors under no load at 105°C for 1000 hours, they meet the specified value for endurance characteristics listed above.

• **Marking:** Printed with white color letter on black sleeve.

ted tage DC)	Cap. (μF)	Leakage Current (μA)	Impedance ohms (Ω) Max. @ 20°C/100KHz	tan δ (Max.) @120Hz/20°C	Rated Ripple Cur. @ 100KHz/105°C (mA) rms	Dimensions (mm) ØD	L	P	ød	Digi-Key Part No.	Pricing 1	10	100	Lead (Pb) Free Nichicon Part No.
	150	9.45	0.58	0.22	210	5.0	11.0	2.0	0.5	493-1463-ND	.23	1.56	11.00	UHE0J151MDD
	330	20.79	0.22	0.22	340	6.3	11.0	2.5	0.5	493-1464-ND	.30	2.03	14.30	UHE0J331MED
	680	42.84	0.13	0.22	640	8.0	11.5	3.5	0.6	493-1465-ND	.38	2.80	20.00	UHE0J681MPD
	820	51.66	0.080	0.22	865	10.0	12.5	5.0	0.6	493-1466-ND	.39	2.91	20.75	UHE0J821MPD
	1000	63	0.087	0.22	840	8.0	15.0	3.5	0.6	493-1467-ND	.34	2.30	16.23	UHE0J102MPD
	1200	75.6	0.069	0.22	1050	8.0	20.0	3.5	0.6	493-1468-ND	.48	3.50	25.00	UHE0J122MPD
	1200	75.6	0.060	0.22	1210	10.0	16.0	5.0	0.6	493-1469-ND	.48	3.50	25.00	UHE0J122MPD6
	1500	94.5	0.046	0.22	1400	10.0	20.0	5.0	0.6	493-1470-ND	.52	3.82	27.25	UHE0J152MPD
	1800	113.4	0.049	0.22	1450	12.5	15.0	5.0	0.6	493-1471-ND	.56	4.10	29.25	UHE0J182MHD
	2200	138.6	0.042	0.24	1650	10.0	25.0	5.0	0.6	493-1472-ND	.61	4.51	33.14	UHE0J222MPD
	2700	170.1	0.031	0.24	1910	10.0	31.5	5.0	0.6	493-1473-ND	.79	5.86	43.01	UHE0J272MPD6
6.3	2700	170.1	0.042	0.24	1940	16.0	15.0	7.5	0.8	493-1474-ND	.79	5.86	43.01	UHE0J272MHD
	3300	207.9	0.035	0.26	1900	12.5	20.0	5.0	0.6	493-1475-ND	.81	6.02	44.18	UHE0J332MHD
	3900	245.7	0.027	0.26	2230	12.5	25.0	5.0	0.6	493-1476-ND	.96	7.14	52.41	UHE0J392MHD
	3900	245.7	0.043	0.26	2210	18.0	15.0	7.5	0.8	493-1477-ND	.96	7.14	52.41	UHE0J392MHD6
	4700	296.1	0.024	0.28	2650	12.5	31.5	5.0	0.8	493-1478-ND	.98	7.30	53.58	UHE0J472MHD
	5600	352.8	0.020	0.3	2880	12.5	35.5	5.0	0.8	493-1479-ND	1.15	8.64	64.80	UHE0J562MHD
	5600	352.8	0.027	0.3	2530	16.0	20.0	7.5	0.8	493-1480-ND	1.15	8.64	64.80	UHE0J562MHD6
	6800	428.4	0.017	0.32	3350	12.5	40.0	5.0	0.8	493-1481-ND	1.17	8.76	65.70	UHE0J682MHD
	6800	428.4	0.021	0.32	2930	16.0	25.0	7.5	0.8	493-1482-ND	1.17	8.76	65.70	UHE0J682MHD6
	6800	428.4	0.026	0.32	2860	18.0	20.0	7.5	0.8	493-1483-ND	1.17	8.76	65.70	UHE0J682MHD3
	8200	516.6	0.017	0.36	3450	16.0	31.5	7.5	0.8	493-1484-ND	1.70	12.75	95.63	UHE0J822MHD
	10000	630	0.015	0.4	3610	16.0	35.5	7.5	0.8	493-1485-ND	1.70	12.75	95.63	UHE0J103MHD
	10000	630	0.019	0.4	3140	18.0	25.0	7.5	0.8	493-1486-ND	1.70	12.75	95.63	UHE0J103MHD6
	12000	756	0.013	0.44	4080	16.0	40.0	7.5	0.8	493-1487-ND	1.99	14.91	111.83	UHE0J123MHD
	12000	756	0.015	0.44	4170	18.0	31.5	7.5	0.8	493-1488-ND	1.99	14.91	111.83	UHE0J123MHD6
	15000	945	0.014	0.5	4220	18.0	35.5	7.5	0.8	493-1489-ND	1.84	13.91	105.00	UHE0J153MHD
	18000	1134	0.012	0.56	4280	18.0	40.0	7.5	0.8	493-1490-ND	1.94	14.71	111.00	UHE0J183MHD
	100	10	0.58	0.19	210	5.0	11.0	2.0	0.5	493-1491-ND	.21	1.40	9.90	UHE1A101MDD
	220	22	0.22	0.19	340	6.3	11.0	2.5	0.5	493-1492-ND	.32	2.15	15.13	UHE1A221MED
	470	47	0.13	0.19	640	8.0	11.5	3.5	0.6	493-1493-ND	.38	2.80	20.00	UHE1A471MPD
	680	68	0.087	0.19	840	8.0	15.0	3.5	0.6	493-1494-ND	.39	2.91	20.75	UHE1A681MPD
	680	68	0.080	0.19	865	10.0	12.5	5.0	0.6	493-1495-ND	.39	2.91	20.75	UHE1A681MPD6
	1000	100	0.069	0.19	1050	8.0	20.0	3.5	0.6	493-1496-ND	.52	3.85	27.50	UHE1A102MPD
	1000	100	0.060	0.19	1210	10.0	16.0	5.0	0.6	493-1497-ND	.52	3.85	27.50	UHE1A102MPD6
	1200	120	0.046	0.19	1400	10.0	20.0	5.0	0.6	493-1498-ND	.60	4.41	31.50	UHE1A122MPD
	1500	150	0.042	0.19	1650	10.0	25.0	5.0	0.6	493-1499-ND	.56	4.19	30.79	UHE1A152MPD
	1500	150	0.049	0.19	1450	12.5	15.0	5.0	0.6	493-1500-ND	.56	4.19	30.79	UHE1A152MHD6
	2200	220	0.031	0.21	1910	10.0	31.5	5.0	0.6	493-1501-ND	.79	5.86	43.01	UHE1A222MPD
	2200	220	0.035	0.21	1900	12.5	20.0	5.0	0.6	493-1502-ND	.79	5.86	43.01	UHE1A222MHD6
	2200	220	0.042	0.21	1940	16.0	15.0	7.5	0.8	493-1503-ND	.79	5.86	43.01	UHE1A222MHD3
	2700	270	0.043	0.21	2210	18.0	15.0	7.5	0.8	493-1504-ND	.88	6.56	48.18	UHE1A272MHD
10	3300	330	0.027	0.23	2230	12.5	25.0	5.0	0.6	493-1505-ND	.96	7.14	52.41	UHE1A332MHD
	3900	390	0.024	0.23	2650	12.5	31.5	5.0	0.8	493-1506-ND	1.15	8.64	64.80	UHE1A392MHD
	3900	390	0.027	0.23	2530	16.0	20.0	7.5	0.8	493-1507-ND	1.15	8.64	64.80	UHE1A392MHD6
	4700	470	0.020	0.25	2880	12.5	35.5	5.0	0.8	493-1508-ND	1.15	8.64	64.80	UHE1A472MHD
	5600	560	0.017	0.27	3350	12.5	40.0	5.0	0.8	493-1509-ND	1.62	12.12	90.90	UHE1A562MHD
	5600	560	0.021	0.27	2930	16.0	25.0	7.5	0.8	493-1510-ND	1.62	12.12	90.90	UHE1A562MHD6
	5600	560	0.026	0.27	2860	18.0	20.0	7.5	0.8	493-1511-ND	1.62	12.12	90.90	UHE1A562MHD3
	6800	680	0.017	0.29	3450	16.0	31.5	7.5	0.8	493-1512-ND	1.70	12.75	95.63	UHE1A682MHD
	6800	680	0.019	0.29	3140	18.0	25.0	7.5	0.8	493-1513-ND	1.70	12.75	95.63	UHE1A682MHD6
	8200	820	0.015	0.33	3610	16.0	35.5	7.5	0.8	493-1514-ND	1.99	14.91	111.83	UHE1A822MHD
	8200	820	0.015	0.33	4170	18.0	31.5	7.5	0.8	493-1515-ND	1.99	14.91	111.83	UHE1A822MHD6
	10000	1000	0.013	0.37	4080	16.0	40.0	7.5	0.8	493-1516-ND	1.83	13.83	104.40	UHE1A103MHD
	10000	1000	0.014	0.37	4220	18.0	35.5	7.5	0.8	493-1517-ND	1.83	13.83	104.40	UHE1A103MHD6
	12000	1200	0.012	0.41	4280	18.0	40.0	7.5	0.8	493-1518-ND	1.93	14.60	110.20	UHE1A123MHD
	56	8.96	0.58	0.16	210	5.0	11.0	2.0	0.5	493-1519-ND	.26	1.76	12.38	UHE1C560MDD
16	120	19.2	0.22	0.16	340	6.3	11.0	2.5	0.5	493-1520-ND	.26	1.76	12.38	UHE1C121MED
	330	52.8	0.13	0.16	640	8.0	11.5	3.5	0.6	493-1521-ND	.39	2.91	20.75	UHE1C331MPD

(Continued)

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Rated Voltage (VDC)	Cap. (µF)	Leakage Current (µA)	Impedance ohms (Ω) Max. @ 20°C/100KHz	tan δ (Max.) @120Hz/20°C	Rated Ripple Cur. @ 100KHz/105°C (mA) rms	Dimensions (mm) ØD	L	P	ød	Digi-Key Part No.	Pricing 1	10	100	Lead (Pb) Free Nichicon Part No.
	470	75.2	0.087	0.16	840	8.0	15.0	3.5	0.6	493-1522-ND	.41	3.01	21.50	UHE1C471MPD
	470	75.2	0.080	0.16	865	10.0	12.5	5.0	0.6	493-1523-ND	.41	3.01	21.50	UHE1C471MPD6
	680	108.8	0.069	0.16	1050	8.0	20.0	3.5	0.6	493-1524-ND	.60	4.41	31.50	UHE1C681MPD
	680	108.8	0.060	0.16	1210	10.0	16.0	5.0	0.6	493-1525-ND	.60	4.41	31.50	UHE1C681MPD6
	1000	160	0.046	0.16	1400	10.0	20.0	5.0	0.6	493-1526-ND	.61	4.51	33.14	UHE1C102MPD
	1000	160	0.049	0.16	1450	12.5	15.0	5.0	0.6	493-1527-ND	.61	4.51	33.14	UHE1C102MHD6
	1200	192	0.042	0.16	1650	10.0	25.0	5.0	0.6	493-1528-ND	.56	4.19	30.79	UHE1C122MPD
	1500	240	0.031	0.16	1910	10.0	31.5	5.0	0.6	493-1529-ND	.82	6.11	44.89	UHE1C152MPD
	1500	240	0.035	0.16	1900	12.5	20.0	5.0	0.6	493-1530-ND	.82	6.11	44.89	UHE1C152MHD6
	1500	240	0.042	0.16	1940	16.0	15.0	7.5	0.8	493-1531-ND	.82	6.11	44.89	UHE1C152MHD3
	2200	352	0.027	0.18	2230	12.5	25.0	5.0	0.6	493-1532-ND	.99	7.39	54.29	UHE1C222MHD
	2200	352	0.043	0.18	2210	18.0	15.0	7.5	0.8	493-1533-ND	.99	7.39	54.29	UHE1C222MHD6
16	2700	432	0.024	0.18	2650	12.5	31.5	5.0	0.8	493-1534-ND	1.15	8.64	64.80	UHE1C272MHD
	2700	432	0.027	0.18	2530	16.0	20.0	7.5	0.8	493-1535-ND	1.15	8.64	64.80	UHE1C272MHD6
	3300	528	0.020	0.20	2880	12.5	35.5	5.0	0.8	493-1536-ND	1.20	9.00	67.50	UHE1C332MHD
	3900	624	0.017	0.20	3350	12.5	40.0	5.0	0.8	493-1537-ND	1.20	9.00	67.50	UHE1C392MHD
	3900	624	0.021	0.20	2930	16.0	25.0	7.5	0.8	493-1538-ND	1.20	9.00	67.50	UHE1C392MHD6
	3900	624	0.026	0.20	2860	16.0	20.0	7.5	0.8	493-1539-ND	1.20	9.00	67.50	UHE1C392MHD3
	4700	752	0.017	0.22	3450	16.0	31.5	7.5	0.8	493-1540-ND	1.62	12.12	90.90	UHE1C472MHD
	4700	752	0.019	0.22	3140	18.0	25.0	7.5	0.8	493-1541-ND	1.62	12.12	90.90	UHE1C472MHD6
	5600	896	0.015	0.24	3610	16.0	35.5	7.5	0.8	493-1542-ND	1.99	14.91	111.83	UHE1C562MHD
	5600	896	0.015	0.24	4170	18.0	31.5	7.5	0.8	493-1543-ND	1.99	14.91	111.83	UHE1C562MHD6
	6800	1088	0.013	0.26	4080	16.0	40.0	7.5	0.8	493-1544-ND	1.83	13.83	104.40	UHE1C682MHD
	8200	1312	0.014	0.30	4220	18.0	35.5	7.5	0.8	493-1545-ND	1.83	13.83	104.40	UHE1C822MHD
	10000	1600	0.012	0.34	4280	18.0	40.0	7.5	0.8	493-1546-ND	2.22	16.83	127.00	UHE1C103MHD
	47	11.75	0.58	0.14	210	5.0	11.0	2.0	0.5	493-1547-ND	.26	1.76	12.38	UHE1E470MDD
	100	25	0.22	0.14	340	6.3	11.0	2.5	0.5	493-1548-ND	.33	2.26	15.95	UHE1E101MED
	220	55	0.13	0.14	640	8.0	11.5	3.5	0.6	493-1549-ND	.39	2.91	20.75	UHE1E221MPD
	330	82.5	0.087	0.14	840	8.0	15.0	3.5	0.6	493-1550-ND	.37	2.73	19.50	UHE1E331MPD
	330	82.5	0.080	0.14	865	10.0	12.5	5.0	0.6	493-1551-ND	.37	2.73	19.50	UHE1E331MPD6
	470	117.5	0.069	0.14	1050	8.0	20.0	3.5	0.6	493-1552-ND	.60	4.41	31.50	UHE1E471MPD
	470	117.5	0.06	0.14	1210	10.0	16.0	5.0	0.6	493-1553-ND	.60	4.41	31.50	UHE1E471MPD6
	680	170	0.046	0.14	1400	10.0	20.0	5.0	0.6	493-1554-ND	.63	4.67	34.31	UHE1E681MPD
	680	170	0.049	0.14	1450	12.5	15.0	5.0	0.6	493-1555-ND	.63	4.67	34.31	UHE1E681MHD6
	820	205	0.042	0.14	1650	10.0	25.0	5.0	0.6	493-1556-ND	.64	4.74	34.78	UHE1E821MPD
	1000	250	0.031	0.14	1910	10.0	31.5	5.0	0.6	493-1557-ND	.81	6.05	44.42	UHE1E102MPD
	1000	250	0.035	0.14	1900	12.5	20.0	5.0	0.6	493-1558-ND	.81	6.05	44.42	UHE1E102MHD6
	1000	250	0.042	0.14	1940	16.0	15.0	7.5	0.8	493-1559-ND	.81	6.05	44.42	UHE1E102MHD3
25	1200	300	0.043	0.14	2210	18.0	15.0	7.5	0.8	493-1560-ND	.92	6.82	50.06	UHE1E122MHD
	1500	375	0.027	0.14	2230	12.5	25.0	5.0	0.6	493-1561-ND	.99	7.39	54.29	UHE1E152MHD
	1800	450	0.024	0.14	2650	12.5	31.5	5.0	0.8	493-1562-ND	1.15	8.64	64.80	UHE1E182MHD
	1800	450	0.027	0.14	2530	16.0	20.0	7.5	0.8	493-1563-ND	1.15	8.64	64.80	UHE1E182MHD6
	2200	550	0.020	0.16	2880	12.5	35.5	5.0	0.8	493-1564-ND	1.20	9.00	67.50	UHE1E222MHD
	2200	550	0.026	0.16	2860	18.0	20.0	7.5	0.8	493-1565-ND	1.20	9.00	67.50	UHE1E222MHD6
	2700	675	0.017	0.16	3350	12.5	40.0	5.0	0.8	493-1566-ND	1.24	9.27	69.53	UHE1E272MHD
	2700	675	0.021	0.16	2930	16.0	25.0	7.5	0.8	493-1567-ND	1.24	9.27	69.53	UHE1E272MHD6
	3300	825	0.017	0.18	3450	16.0	31.5	7.5	0.8	493-1568-ND	1.63	12.21	91.58	UHE1E332MHD
	3300	825	0.019	0.18	3140	18.0	25.0	7.5	0.8	493-1569-ND	1.63	12.21	91.58	UHE1E332MHD6
	3900	975	0.015	0.18	3610	16.0	35.5	7.5	0.8	493-1570-ND	1.99	14.91	111.83	UHE1E392MHD
	3900	975	0.015	0.18	4170	18.0	31.5	7.5	0.8	493-1571-ND	1.99	14.91	111.83	UHE1E392MHD6
	4700	1175	0.013	0.20	4080	16.0	40.0	7.5	0.8	493-1572-ND	1.99	14.91	111.83	UHE1E472MHD
	4700	1175	0.014	0.20	4220	18.0	35.5	7.5	0.8	493-1573-ND	1.99	14.91	111.83	UHE1E472MHD6
	5600	1400	0.012	0.22	4280	18.0	40.0	7.5	0.8	493-1574-ND	2.22	16.83	127.00	UHE1E562MHD
	33	11.55	0.58	0.12	210	5.0	11.0	2.0	0.5	493-1575-ND	.26	1.76	12.38	UHE1V330MDD
	56	19.6	0.22	0.12	340	6.3	11.0	2.5	0.5	493-1576-ND	.33	2.22	15.68	UHE1V560MED
	150	52.5	0.13	0.12	640	8.0	11.5	3.5	0.6	493-1577-ND	.37	2.54	17.88	UHE1V151MPD
	220	77	0.087	0.12	840	8.0	15.0	3.5	0.6	493-1578-ND	.43	3.19	22.75	UHE1V221MPD
	220	77	0.080	0.12	865	10.0	12.5	5.0	0.6	493-1579-ND	.43	3.19	22.75	UHE1V221MPD6
	270	94.5	0.069	0.12	1050	8.0	20.0	3.5	0.6	493-1580-ND	.60	4.41	31.50	UHE1V271MPD
	330	115.5	0.060	0.12	1210	10.0	16.0	5.0	0.6	493-1581-ND	.60	4.41	31.50	UHE1V331MPD
	470	164.5	0.046	0.12	1400	10.0	20.0	5.0	0.6	493-1582-ND	.63	4.67	34.31	UHE1V471MPD
	470	164.5	0.049	0.12	1450	12.5	15.0	5.0	0.6	493-1583-ND	.63	4.67	34.31	UHE1V471MHD6
	560	196	0.042	0.12	1650	10.0	25.0	5.0	0.6	493-1584-ND	.64	4.74	34.78	UHE1V561MPD
	680	238	0.031	0.12	1910	10.0	31.5	5.0	0.6	493-1585-ND	.81	6.05	44.42	UHE1V681MPD
	680	238	0.035	0.12	1900	12.5	20.0	5.0	0.6	493-1586-ND	.81	6.05	44.42	UHE1V681MHD6
	680	238	0.042	0.12	1940	16.0	15.0	7.5	0.8	493-1587-ND	.81	6.05	44.42	UHE1V681MHD3
35	1000	350	0.027	0.12	2230	12.5	25.0	5.0	0.6	493-1588-ND	.99	7.39	54.29	UHE1V102MHD
	1000	350	0.043	0.12	2210	18.0	15.0	7.5	0.8	493-1589-ND	.99	7.39	54.29	UHE1V102MHD6
	1200	420	0.024	0.12	2650	12.5	31.5	5.0	0.8	493-1590-ND	1.15	8.64	64.80	UHE1V122MHD
	1200	420	0.027	0.12	2530	16.0	20.0	7.5	0.8	493-1591-ND	1.15	8.64	64.80	UHE1V122MHD6
	1500	525	0.020	0.12	2880	12.5	35.5	5.0	0.8	493-1592-ND	1.20	9.00	67.50	UHE1V152MHD
	1800	630	0.017	0.12	3350	12.5	40.0	5.0	0.8	493-1593-ND	1.20	9.00	67.50	UHE1V182MHD
	1800	630	0.021	0.12	2930	16.0	25.0	7.5	0.8	493-1594-ND	1.20	9.00	67.50	UHE1V182MHD6
	1800	630	0.026	0.12	2860	18.0	20.0	7.5	0.8	493-1595-ND	1.20	9.00	67.50	UHE1V182MHD3
	2200	770	0.017	0.14	3450	16.0	31.5	7.5	0.8	493-1596-ND	1.63	12.21	91.58	UHE1V222MHD
	2200	770	0.019	0.14	3140	18.0	25.0	7.5	0.8	493-1597-ND	1.63	12.21	91.58	UHE1V222MHD6
	2700	945	0.015	0.14	3610	16.0	35.5	7.5	0.8	493-1598-ND	1.99	14.91	111.83	UHE1V272MHD
	2700	945	0.015	0.14	4170	18.0	31.5	7.5	0.8	493-1599-ND	1.99	14.91	111.83	UHE1V272MHD6
	3300	1155	0.013	0.16	4080	16.0	40.0	7.5	0.8	493-1600-ND	1.99	14.91	111.83	UHE1V332MHD
	3300	1155	0.014	0.16	4220	18.0	35.5	7.5	0.8	493-1601-ND	1.99	14.91	111.83	UHE1V332MHD6
	3900	1365	0.012	0.16	4280	18.0	40.0	7.5	0.8	493-1602-ND	2.25	17.01	128.40	UHE1V392MHD

(Continu

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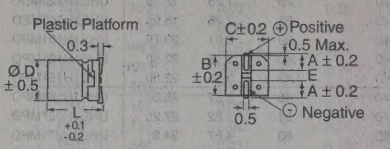
Rated Voltage (VDC)	Cap. (µF)	Leakage Current (µA)	Impedance ohms (Ω) Max. @ 20°C/100KHz	tan δ (Max.) @120Hz/20°C	Rated Ripple Cur. @ 100KHz/105°C (mA) rms	Dimensions (mm) ØD	L	P	ød	Digi-Key Part No.	Pricing 1	10	100	Lead (Pb) Free Nichicon Part No.
	22	11	0.70	0.1	180	5.0	11.0	2.0	0.5	493-1603-ND	.26	1.76	12.38	UHE1H220MDD
	56	28	0.30	0.1	295	6.3	11.0	2.5	0.5	493-1604-ND	.33	2.26	15.95	UHE1H560MED
	100	50	0.17	0.1	555	8.0	11.5	3.5	0.6	493-1605-ND	.39	2.91	20.75	UHE1H101MPD
	120	60	0.12	0.1	730	8.0	15.0	3.5	0.6	493-1606-ND	.43	3.15	22.50	UHE1H121MPD
	150	75	0.12	0.1	760	10.0	12.5	5.0	0.6	493-1607-ND	.43	3.15	22.50	UHE1H151MPD
	180	90	0.091	0.1	910	8.0	20.0	3.5	0.6	493-1608-ND	.48	3.57	25.50	UHE1H181MPD
	220	110	0.084	0.1	1050	10.0	16.0	5.0	0.6	493-1609-ND	.52	3.82	27.25	UHE1H221MPD
	270	135	0.060	0.1	1220	10.0	20.0	5.0	0.6	493-1610-ND	.63	4.67	34.31	UHE1H271MPD
	270	135	0.061	0.1	1260	12.5	15.0	5.0	0.6	493-1611-ND	.63	4.67	34.31	UHE1H271MHD6
	330	165	0.055	0.1	1440	10.0	25.0	5.0	0.6	493-1612-ND	.64	4.74	34.78	UHE1H331MPD
	470	235	0.043	0.1	1690	10.0	31.5	5.0	0.6	493-1613-ND	.83	6.18	45.36	UHE1H471MPD
	470	235	0.045	0.1	1660	12.5	20.0	5.0	0.6	493-1614-ND	.83	6.18	45.36	UHE1H471MHD6
	470	235	0.055	0.1	1690	16.0	15.0	7.5	0.8	493-1615-ND	.83	6.18	45.36	UHE1H471MHD3
50	560	280	0.034	0.1	1950	12.5	25.0	5.0	0.6	493-1616-ND	.99	7.39	54.29	UHE1H561MHD
	560	280	0.054	0.1	1930	18.0	15.0	7.5	0.8	493-1617-ND	.99	7.39	54.29	UHE1H561MHD6
	680	340	0.030	0.1	2310	12.5	31.5	5.0	0.8	493-1618-ND	1.02	7.62	55.93	UHE1H681MHD
	820	410	0.025	0.1	2510	12.5	35.5	5.0	0.8	493-1619-ND	1.15	8.64	64.80	UHE1H821MHD
	820	410	0.034	0.1	2210	16.0	20.0	7.5	0.8	493-1620-ND	1.15	8.64	64.80	UHE1H821MHD6
	1000	500	0.021	0.1	2920	12.5	40.0	5.0	0.8	493-1621-ND	1.15	8.64	64.80	UHE1H102MHD
	1000	500	0.025	0.1	2555	16.0	25.0	7.5	0.8	493-1622-ND	1.15	8.64	64.80	UHE1H102MHD6
	1000	500	0.036	0.1	2490	18.0	20.0	7.5	0.8	493-1623-ND	1.15	8.64	64.80	UHE1H102MHD3
	1200	600	0.022	0.1	3010	16.0	31.5	7.5	0.8	493-1624-ND	1.62	12.12	90.90	UHE1H122MHD
	1200	600	0.026	0.1	2740	18.0	25.0	7.5	0.8	493-1625-ND	1.62	12.12	90.90	UHE1H122MHD6
	1500	750	0.019	0.1	3150	16.0	35.5	7.5	0.8	493-1626-ND	1.70	12.75	95.63	UHE1H152MHD
	1800	900	0.016	0.1	3710	16.0	40.0	7.5	0.8	493-1627-ND	1.83	13.83	104.40	UHE1H182MHD
	1800	900	0.021	0.1	3635	18.0	31.5	7.5	0.8	493-1628-ND	1.83	13.83	104.40	UHE1H182MHD6
	2200	1100	0.017	0.12	3680	18.0	35.5	7.5	0.8	493-1629-ND	1.88	14.20	107.20	UHE1H222MHD6
	2700	1350	0.014	0.12	3800	18.0	40.0	7.5	0.8	493-1630-ND	1.88	14.20	107.20	UHE1H272MHD
	15	9.45	2.3	0.09	55	5.0	11.0	2.0	0.5	493-1631-ND	.25	1.72	12.10	UHE1J150MDD
	33	20.79	1.2	0.09	115	6.3	11.0	2.5	0.5	493-1632-ND	.33	2.22	15.68	UHE1J330MED
	56	35.28	0.63	0.09	232	8.0	11.5	3.5	0.6	493-1633-ND	.40	2.69	18.98	UHE1J560MPD
	82	51.66	0.45	0.09	300	8.0	15.0	3.5	0.6	493-1634-ND	.43	3.15	22.50	UHE1J820MPD
	82	51.66	0.43	0.09	288	10.0	12.5	5.0	0.6	493-1635-ND	.43	3.15	22.50	UHE1J820MPD6
	120	75.6	0.33	0.09	362	8.0	20.0	3.5	0.6	493-1636-ND	.52	3.82	27.25	UHE1J121MPD
	120	75.6	0.31	0.09	357	10.0	16.0	5.0	0.6	493-1637-ND	.52	3.82	27.25	UHE1J121MPD6
	180	113.4	0.21	0.09	466	10.0	20.0	5.0	0.6	493-1638-ND	.63	4.67	34.31	UHE1J181MPD
	180	113.4	0.23	0.09	466	12.5	15.0	5.0	0.6	493-1639-ND	.63	4.67	34.31	UHE1J181MHD6
	220	138.6	0.20	0.09	531	10.0	25.0	5.0	0.6	493-1640-ND	.64	4.74	34.78	UHE1J221MPD
	270	170.1	0.15	0.09	663	10.0	31.5	5.0	0.6	493-1641-ND	.84	6.24	45.83	UHE1J271MPD
	270	170.1	0.16	0.09	690	12.5	20.0	5.0	0.6	493-1642-ND	.84	6.24	45.83	UHE1J271MHD6
	270	170.1	0.14	0.09	795	16.0	15.0	7.5	0.8	493-1643-ND	.84	6.24	45.83	UHE1J271MHD3
63	330	207.9	0.12	0.09	784	12.5	25.0	5.0	0.6	493-1644-ND	.97	7.20	52.88	UHE1J331MHD
	390	245.7	0.12	0.09	920	18.0	15.0	7.5	0.8	493-1645-ND	.99	7.39	54.29	UHE1J391MHD
	470	296.1	0.10	0.09	905	12.5	31.5	5.0	0.8	493-1646-ND	1.02	7.62	55.93	UHE1J471MHD
	470	296.1	0.091	0.09	1040	16.0	20.0	7.5	0.8	493-1647-ND	1.02	7.62	55.93	UHE1J471MHD6
	560	352.8	0.083	0.09	1050	12.5	35.5	5.0	0.8	493-1648-ND	1.08	8.13	60.98	UHE1J561MHD
	560	352.8	0.073	0.09	1250	16.0	25.0	7.5	0.8	493-1649-ND	1.08	8.13	60.98	UHE1J561MHD6
	680	428.4	0.071	0.09	1180	12.5	40.0	5.0	0.8	493-1650-ND	1.15	8.64	64.80	UHE1J681MHD
	680	428.4	0.080	0.09	1240	18.0	20.0	7.5	0.8	493-1651-ND	1.15	8.64	64.80	UHE1J681MHD6
	820	516.6	0.054	0.09	1570	16.0	31.5	7.5	0.8	493-1652-ND	1.62	12.12	90.90	UHE1J821MHD
	820	516.6	0.057	0.09	1490	18.0	25.0	7.5	0.8	493-1653-ND	1.62	12.12	90.90	UHE1J821MHD6
	1000	630	0.045	0.09	1790	16.0	35.5	7.5	0.8	493-1654-ND	1.62	12.12	90.90	UHE1J102MHD
	1000	630	0.047	0.09	1630	18.0	31.5	7.5	0.8	493-1655-ND	1.62	12.12	90.90	UHE1J102MHD6
	1200	756	0.040	0.09	2020	16.0	40.0	7.5	0.8	493-1656-ND	1.82	13.68	102.60	UHE1J122MHD
	1200	756	0.040	0.09	1790	18.0	35.5	7.5	0.8	493-1657-ND	1.82	13.68	102.60	UHE1J122MHD6
	1500	945	0.036	0.09	2330	18.0	40.0	7.5	0.8	493-1658-ND	1.92	14.55	109.80	UHE1J152MHD
	6.8	6.8	2.3	0.08	55	5.0	11.0	2.0	0.5	493-1659-ND	.25	1.72	12.10	UHE2A6R8MDD
	15	15	1.2	0.08	115	6.3	11.0	2.5	0.5	493-1660-ND	.33	2.22	15.68	UHE2A150MED
	27	27	0.63	0.08	232	8.0	11.5	3.5	0.6	493-1661-ND	.36	2.42	17.05	UHE2A270MPD
	39	39	0.45	0.08	300	8.0	15.0	3.5	0.6	493-1662-ND	.40	2.69	18.98	UHE2A390MPD
	47	47	0.43	0.08	288	10.0	12.5	5.0	0.6	493-1663-ND	.40	2.69	18.98	UHE2A470MPD
	56	56	0.33	0.08	362	8.0	20.0	3.5	0.6	493-1664-ND	.43	3.15	22.50	UHE2A560MPD
	68	68	0.31	0.08	357	10.0	16.0	5.0	0.6	493-1665-ND	.43	3.15	22.50	UHE2A680MPD
	82	82	0.21	0.08	466	10.0	20.0	5.0	0.6	493-1666-ND	.43	3.15	22.50	UHE2A820MPD
	82	82	0.23	0.08	466	12.5	15.0	5.0	0.6	493-1667-ND	.43	3.15	22.50	UHE2A820MHD6
	100	100	0.20	0.08	531	10.0	25.0	5.0	0.6	493-1668-ND	.45	3.29	23.50	UHE2A101MPD
	120	120	0.15	0.08	663	10.0	31.5	5.0	0.6	493-1669-ND	.56	4.13	29.50	UHE2A121MPD
	120	120	0.16	0.08	690	12.5	20.0	5.0	0.6	493-1670-ND	.56	4.13	29.50	UHE2A121MHD6
	150	150	0.14	0.08	795	16.0	15.0	7.5	0.8	493-1671-ND	.64	4.74	34.78	UHE2A151MHD
100	180	180	0.12	0.08	784	12.5	25.0	5.0	0.6	493-1672-ND	.64	4.74	34.78	UHE2A181MHD
	180	180	0.12	0.08	920	18.0	15.0	7.5	0.8	493-1673-ND	.64	4.74	34.78	UHE2A181MHD6
	220	220	0.10	0.08	905	12.5	31.5	5.0	0.8	493-1674-ND	.80	5.98	43.95	UHE2A221MHD
	220	220	0.091	0.08	1040	16.0	20.0	7.5	0.8	493-1675-ND	.80	5.98	43.95	UHE2A221MHD6
	270	270	0.083	0.08	1050	12.5	35.5	5.0	0.8	493-1676-ND	.84	6.24	45.83	UHE2A271MHD
	270	270	0.073	0.08	1250	16.0	25.0	7.5	0.8	493-1677-ND	.84	6.24	45.83	UHE2A271MHD6
	330	330	0.071	0.08	1180	12.5	40.0	5.0	0.8	493-1678-ND	1.59	11.94	89.55	UHE2A331MHD
	330	330	0.080	0.08	1240	18.0	20.0	7.5	0.8	493-1679-ND	1.59	11.94	89.55	UHE2A331MHD6
	390	390	0.054	0.08	1570	16.0	31.5	7.5	0.8	493-1680-ND	1.62	12.12	90.90	UHE2A391MHD
	390	390	0.057	0.08	1490	18.0	25.0	7.5	0.8	493-1681-ND	1.62	12.12	90.90	UHE2A391MHD6
	470	470	0.045	0.08	1790	16.0	35.5	7.5	0.8	493-1682-ND	1.62	12.12	90.90	UHE2A471MHD
	470	470	0.047	0.08	1630	18.0	31.5	7.5	0.8	493-1683-ND	1.62	12.12	90.90	UHE2A471MHD6
	560	560	0.040	0.08	2020	16.0	40.0	7.5	0.8	493-1684-ND	1.82	13.68	102.60	UHE2A561MHD
	680	680	0.040	0.08	1790	18.0	35.5	7.5	0.8	493-1685-ND	1.82	13.68	102.60	UHE2A681MHD
	820	820	0.036	0.08	2330	18.0	40.0	7.5	0.8	493-1686-ND	1.92	14.55	109.80	UHE2A821MHD

nichicon WX Series Aluminum Electrolytic Capacitors (SMT)

General Purpose 85°C **** Lead (Pb) Free/RoHS Compliant Part Numbers Stocked ****



	Diameter (mm)				
	3	4	5	6.3	8
A	1.5	1.8	2.1	2.4	3.3
B	3.3	4.3	5.3	6.6	8.3
C	3.3	4.3	5.3	6.6	8.3
E	0.8	1.0	1.3	2.2	2.3

* Voltage mark for 6.3V is (6V). In case of marking for ø3 units, "V" for rated voltage is omitted.

† In case of marking for ø3 units, Lot No. is expressed by digit (month code).

FEATURES:

• Designed for surface mounting on high density PC board • Applicable to automatic mounting machine using carrier tape • Load life of 2000 hours at 85°C

SPECIFICATIONS:

Temperature Range	-40°C to 85°C
Capacitance Tolerance	±20% at 120Hz, 20°C
Leakage Current	After 2 minutes application of rated voltage, leakage current is not more than 0.01CV or 3 (μA), whichever is greater.

• **tan δ:**

Rated Volt. (V)	4	6.3	10	16	25	35	50
tan δ (Max.)	0.35 (0.40)	0.26 (0.30)	0.20 (0.24)	0.16 (0.19)	0.14 (0.16)	0.12 (0.14)	0.12 (0.1

Measurement frequency: 120Hz, Temperature: 20°C *(Values in ( ) ø3 case size)*

• **Stability at Low Temperature:**

Rated Voltage (V)		4	6.3	10	16	25	35	50
Impedance ratio	Z -25°C / Z +20°C	7	4	3	2	2	2	2
ZT / Z20 (Max.)	Z -40°C / Z +20°C	15	8	8	4	4	3	3

Measurement frequency: 120Hz

• **Endurance:** After 2000 hours application of rated voltage at 85°C, capacitors meet the characteristic requirements listed at right.

Capacitance Change	Within ±20% of initial value (Within ±25% fo 4V and ø3)
tan δ	200% or less of initial specified value
Leakage Current	Initial specified value or less

• **Shelf Life:** After leaving capacitors under no load at 85°C for 1000 hours, they meet the specified value f endurance characteristics listed above.

• **Resistance to Soldering Heat:** The capacitors shall be kept on the hot plate maintained at 250°C for 30 seconds. After removing from the hot plate and restored at room temperature, they meet the characteristic requirements listed at right.

Capacitance Change	Within ±10% of initial value
tan δ	Initial specified value or less
Leakage Current	Initial specified value or less

• **Marking:** Black print on the case top.

E

Rated Voltage (VDC)	Cap. (μF)	tan δ (Max.) @120Hz/20°C	Leakage Current (μA)	Rated Ripple Cur. @120Hz/85°C (mA rms)	Dia. D (mm)	Dim. L (mm)	Digi-Key Part No.	Cut Tape Pricing 5	10	25	Digi-Key Part No.	Tape & Reel Size	Pricing	Lead (Pb) Free Nichicon Part No.
4	22	0.35	3	19	3.0	5.4	493-2075-1-ND	.89	1.47	3.41	493-2075-2-ND	2,000	63.00/M	UWX0G220MCL2GB
	33	0.35	3	28	4.0	5.4	493-2076-1-ND	.89	1.47	3.41	493-2076-2-ND	2,000	63.00/M	UWX0G330MCL1GB
	47	0.35	3	33	4.0	5.4	493-2077-1-ND	.89	1.47	3.41	493-2077-2-ND	2,000	63.00/M	UWX0G470MCL1GB
	56	0.35	3	42	5.0	5.4	493-2078-1-ND	.94	1.54	3.58	493-2078-2-ND	1,000	66.00	UWX0G560MCL1GB
	100	0.35	4	56	5.0	5.4	493-2079-1-ND	.94	1.54	3.58	493-2079-2-ND	1,000	66.00	UWX0G101MCL1GB
	150	0.35	6	79	6.3	5.4	493-2080-1-ND	1.21	2.00	4.63	493-2080-2-ND	1,000	85.50	UWX0G151MCL1GB
	220	0.35	8.8	96	6.3	5.4	493-2081-1-ND	1.21	2.00	4.63	493-2081-2-ND	1,000	85.50	UWX0G221MCL1GB
	330	0.35	13.2	145	8.0	5.4	493-2082-1-ND	1.30	2.14	4.96	493-2082-2-ND	1,000	91.50	UWX0G331MCL1GB
6.3	22	0.26	3	21	3.0	5.4	493-2083-1-ND	.85	1.40	3.25	493-2083-2-ND	2,000	60.00/M	UWX0J220MCL2GB
	22	0.26	3	28	4.0	5.4	493-2084-1-ND	.85	1.40	3.25	493-2084-2-ND	2,000	60.00/M	UWX0J220MCL1GB
	33	0.26	3	37	5.0	5.4	493-2085-1-ND	.94	1.54	3.58	493-2085-2-ND	1,000	66.00	UWX0J330MCL1GB
	47	0.26	3	45	5.0	5.4	493-2086-1-ND	.89	1.47	3.41	493-2086-2-ND	1,000	63.00	UWX0J470MCL1GB
	56	0.26	3.528	52	6.3	5.4	493-2087-1-ND	.94	1.54	3.58	493-2087-2-ND	1,000	66.00	UWX0J560MCL1GB
	100	0.26	6.3	70	6.3	5.4	493-2088-1-ND	.94	1.54	3.58	493-2088-2-ND	1,000	66.00	UWX0J101MCL1GB
	150	0.26	9.45	71	6.3	5.4	493-2089-1-ND	1.28	2.10	4.88	493-2089-2-ND	1,000	90.00	UWX0J151MCL1GB
	220	0.26	13.86	110	8.0	5.4	493-2090-1-ND	1.30	2.14	4.96	493-2090-2-ND	1,000	91.50	UWX0J221MCL1GB
	330	0.26	20.79	170	8.0	5.4	493-2091-1-ND	1.30	2.14	4.96	493-2091-2-ND	1,000	91.50	UWX0J331MCL1GB
10	22	0.2	3	33	5.0	5.4	493-2092-1-ND	.85	1.40	3.25	493-2092-2-ND	1,000	60.00	UWX1A220MCL1GB
	33	0.2	3.3	41	5.0	5.4	493-2093-1-ND	.94	1.54	3.58	493-2093-2-ND	1,000	66.00	UWX1A330MCL1GB
	47	0.2	4.7	52	6.3	5.4	493-2094-1-ND	.94	1.54	3.58	493-2094-2-ND	1,000	66.00	UWX1A470MCL1GB
	56	0.2	5.6	57	6.3	5.4	493-2095-1-ND	.94	1.54	3.58	493-2095-2-ND	1,000	66.00	UWX1A560MCL1GB
	100	0.2	10	76	6.3	5.4	493-2096-1-ND	.94	1.54	3.58	493-2096-2-ND	1,000	66.00	UWX1A101MCL1GB
	150	0.2	15	111	8.0	5.4	493-2097-1-ND	1.64	2.70	6.26	493-2097-2-ND	1,000	115.50	UWX1A151MCL1GB
	220	0.2	22	135	8.0	5.4	493-2098-1-ND	1.30	2.14	4.96	493-2098-2-ND	1,000	91.50	UWX1A221MCL1GB
16	10	0.16	3	18	3.0	5.4	493-2099-1-ND	.85	1.40	3.25	493-2099-2-ND	2,000	60.00/M	UWX1C100MCL2GB
	10	0.16	3	23	4.0	5.4	493-2100-1-ND	.85	1.40	3.25	493-2100-2-ND	2,000	60.00/M	UWX1C100MCL1GB
	22	0.16	3.52	37	5.0	5.4	493-2101-1-ND	.85	1.40	3.25	493-2101-2-ND	1,000	60.00	UWX1C220MCL1GB
	33	0.16	5.28	49	6.3	5.4	493-2102-1-ND	1.02	1.68	3.90	493-2102-2-ND	1,000	72.00	UWX1C330MCL1GB
	47	0.16	7.52	58	6.3	5.4	493-2103-1-ND	.94	1.54	3.58	493-2103-2-ND	1,000	66.00	UWX1C470MCL1GB
	56	0.16	8.96	63	6.3	5.4	493-2104-1-ND	1.02	1.68	3.90	493-2104-2-ND	1,000	72.00	UWX1C560MCL1GB
	100	0.16	16	86	6.3	5.4	493-2105-1-ND	1.04	1.72	3.98	493-2105-2-ND	1,000	73.50	UWX1C101MCL1GB
25	4.7	0.14	3	12	3.0	5.4	493-2106-1-ND	.85	1.40	3.25	493-2106-2-ND	2,000	60.00/M	UWX1E4R7MCL2GB
	4.7	0.14	3	16	4.0	5.4	493-2107-1-ND	.85	1.40	3.25	493-2107-2-ND	2,000	60.00/M	UWX1E4R7MCL1GB
	10	0.14	3	27	5.0	5.4	493-2108-1-ND	.94	1.54	3.58	493-2108-2-ND	1,000	66.00	UWX1E100MCL1GB
	22	0.14	5.5	42	6.3	5.4	493-2109-1-ND	1.02	1.68	3.90	493-2109-2-ND	1,000	72.00	UWX1E220MCL1GB
	33	0.14	8.25	52	6.3	5.4	493-2110-1-ND	1.17	1.93	4.47	493-2110-2-ND	1,000	82.50	UWX1E330MCL1GB
	47	0.14	11.75	70	8.0	5.4	493-2111-1-ND	1.30	2.14	4.96	493-2111-2-ND	1,000	91.50	UWX1E470MCL1GB
	56	0.14	14	76	8.0	5.4	493-2112-1-ND	1.30	2.14	4.96	493-2112-2-ND	1,000	91.50	UWX1E560MCL1GB
	100	0.14	25	110	8.0	5.4	493-2113-1-ND	1.72	2.84	6.58	493-2113-2-ND	1,000	121.50	UWX1E101MCL1GB
35	2.2	0.12	3	8.4	3.0	5.4	493-2114-1-ND	.85	1.40	3.25	493-2114-2-ND	2,000	60.00/M	UWX1V2R2MCL2GB
	3.3	0.12	3	10	3.0	5.4	493-2115-1-ND	.85	1.40	3.25	493-2115-2-ND	2,000	60.00/M	UWX1V3R3MCL2GB
	4.7	0.12	3	18	4.0	5.4	493-2116-1-ND	.85	1.40	3.25	493-2116-2-ND	2,000	60.00/M	UWX1V4R7MCL1GB
	10	0.12	3.5	29	5.0	5.4	493-2117-1-ND	.94	1.54	3.58	493-2117-2-ND	1,000	66.00	UWX1V100MCL1GB
	22	0.12	7.7	46	6.3	5.4	493-2118-1-ND	1.02	1.68	3.90	493-2118-2-ND	1,000	72.00	UWX1V220MCL1GB
	33	0.12	11.55	62	8.0	5.4	493-2119-1-ND	1.30	2.14	4.96	493-2119-2-ND	1,000	91.50	UWX1V330MCL1GB
	47	0.12	16.45	80	8.0	5.4	493-2120-1-ND	1.30	2.14	4.96	493-2120-2-ND	1,000	91.50	UWX1V470MCL1GB
50	0.1	0.12	3	1	3.0	5.4	493-2121-1-ND	.89	1.47	3.41	493-2121-2-ND	2,000	63.00/M	UWX1H0R1MCL2GB
	0.1	0.12	3	1	4.0	5.4	493-2122-1-ND	.89	1.47	3.41	493-2122-2-ND	2,000	63.00/M	UWX1H0R1MCL1GB
	0.22	0.12	3	2	3.0	5.4	493-2123-1-ND	.89	1.47	3.41	493-2123-2-ND	2,000	63.00/M	UWX1HR22MCL2GB
	0.22	0.12	3	2	4.0	5.4	493-2124-1-ND	.89	1.47	3.41	493-2124-2-ND	2,000	63.00/M	UWX1HR22MCL1GB
	0.33	0.12	3	2.8	3.0	5.4	493-2125-1-ND	.89	1.47	3.41	493-2125-2-ND	2,000	63.00/M	UWX1HR33MCL2GB
	0.33	0.12	3	2.8	4.0	5.4	493-2126-1-ND	.89	1.47	3.41	493-2126-2-ND	2,000	63.00/M	UWX1HR33MCL1GB
	0.47	0.12	3	4	3.0	5.4	493-2127-1-ND	.89	1.47	3.41	493-2127-2-ND	2,000	63.00/M	UWX1HR47MCL2GB
	0.47	0.12	3	4	4.0	5.4	493-2128-1-ND	.89	1.47	3.41	493-2128-2-ND	2,000	63.00/M	UWX1HR47MCL1GB
	1	0.12	3	8	3.0	5.4	493-2129-1-ND	.89	1.47	3.41	493-2129-2-ND	2,000	63.00/M	UWX1H010MCL2GB
	1	0.12	3	8.4	4.0	5.4	493-2130-1-ND	.89	1.47	3.41	493-2130-2-ND	2,000	63.00/M	UWX1H010MCL1GB
	2.2	0.12	3	10	3.0	5.4	493-2131-1-ND	.94	1.54	3.58	493-2131-2-ND	2,000	66.00/M	UWX1H2R2MCL2GB
	2.2	0.12	3	13	4.0	5.4	493-2132-1-ND	.94	1.54	3.58	493-2132-2-ND	2,000	66.00/M	UWX1H2R2MCL1GB
	3.3	0.12	3	17	4.0	5.4	493-2133-1-ND	.96	1.58	3.66	493-2133-2-ND	2,000	67.50/M	UWX1H3R3MCL1GB
	4.7	0.12	3	20	5.0	5.4	493-2134-1-ND	.98	1.61	3.74	493-2134-2-ND	1,000	69.00	UWX1H4R7MCL1GB
	10	0.12	5	33	6.3	5.4	493-2135-1-ND	1.02	1.68	3.90	493-2135-2-ND	1,000	72.00	UWX1H100MCL1GB
	22	0.12	11	52	8.0	5.4	493-2136-1-ND	1.47	2.42	5.61	493-2136-2-ND	1,000	103.50	UWX1H220MCL1GB
	33	0.12	16.5	71	8.0	5.4	493-2137-1-ND	1.47	2.42	5.61	493-2137-2-ND	1,000	103.50	UWX1H330MCL1GB

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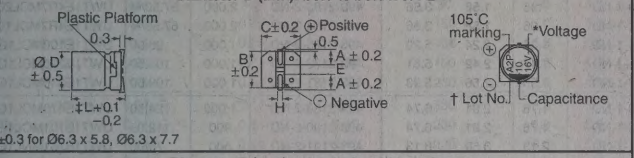
WT Series Aluminum Electrolytic Capacitors (SMT)

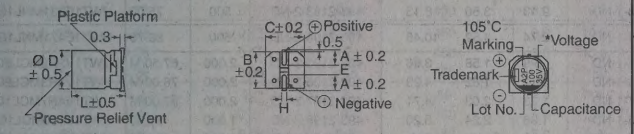
General Purpose 105°C ** Lead (Pb) Free/RoHS Compliant Part Numbers Stocked **

Diameter D (mm): ø3.0 to ø8.0 x 5.4 L



±0.3 for Ø6.3 x 5.8, Ø6.3 x 7.7

Diameter D (mm): ø8 x 10 L, ø10 x 10 L



Voltage mark for 6.3V is (6V). In case of marking for ø3 units, "V" for rated voltage is omitted.
In case of marking for ø3 units, Lot No. is expressed by a digit (month code).

	Diameter D (mm) x Dimension L (mm)								
m.	3.0 x 5.4	4.0 x 5.4	5.0 x 5.4	6.3 x 5.4	6.3 x 5.8	6.3 x 7.7	8.0 x 5.4	8.0 x 10.0	10.0 x 10.0
	1.5	1.8	2.1	2.4	2.4	2.4	3.3	2.9	3.2
	3.3	4.3	5.3	6.6	6.6	6.6	8.3	8.3	10.3
	3.3	4.3	5.3	6.6	6.6	6.6	8.3	8.3	10.3
	0.8	1.0	1.3	2.2	2.2	2.2	2.3	3.1	4.5
	5.4	5.4	5.4	5.4	5.8	7.7	5.4	10	10
	0.5-0.8	0.5-0.8	0.5-0.8	0.5-0.8	0.5-0.8	0.5-0.8	0.5-0.8	0.8-1.1	0.8-1.1

ATURES:
ip type, operating over wide temperature range of -55°C to 105°C • Designed for surface mounting on
density PC board • Applicable to automatic mounting machine using carrier tape

SPECIFICATIONS:

Temperature Range	-55°C to 105°C
Capacitance Tolerance	±20% at 120Hz, 20°C
Leakage Current	After 2 minutes application of rated voltage, leakage current is not more than 0.01CV or 3 (μA), whichever is greater.

• **tan δ:**

Rated Volt. (V)	4	6.3	10	16	25	35	50
tan δ (Max.)	0.40	0.30	0.24	0.20	0.16	0.14	0.14

Measurement frequency: 120Hz, Temperature: 20°C

• **Stability at Low Temperature:**

Rated Voltage (V)		4	6.3	10	16	25	35	50
Impedance ratio	Z -25°C / Z +20°C	7	4	3	2	2	2	2
ZT / Z20 (Max.)	Z -40°C / Z +20°C	15	8	8	4	4	3	3

Measurement frequency: 120Hz

• **Endurance:** After 1000 hours application of rated voltage at 105°C, capacitors meet the characteristic requirements listed at right.

Capacitance Change	Within ±25% of initial value for capacitors of ø3(mm) unit, and 16V or less. Within ±20% of initial value for capacitors of 25V or more.
tan δ	200% or less of initial specified value
Leakage Current	Initial specified value or less

• **Shelf Life:** After leaving capacitors under no load at 105°C for 1000 hours, they meet the specified value for endurance characteristics listed above.

• **Resistance to Soldering Heat:** The capacitors shall be kept on the hot plate maintained at 250°C for 30 seconds. After removing from the hot plate and restored at room temperature, they meet the characteristic requirements listed at right.

Capacitance Change	Within ±10% of initial value
tan δ	Initial specified value or less
Leakage Current	Initial specified value or less

• **Marking:** Black print on the case top.

E

Rated Voltage (VDC)	Cap. (μF)	tan δ (Max.) @120Hz/20°C	Leakage Current (μA)	Rated Ripple Cur. 120Hz/105°C (mA rms)	Dia. D (mm)	Dim. L (mm)	Digi-Key Part No.	Cut Tape Pricing 5	10	25	Digi-Key Part No.	Tape & Reel Size	Pricing	Lead (Pb) Free Nichicon Part No.
	22	0.4	3	22	4.0	5.4	493-2138-1-ND	.96	1.58	3.66	493-2138-2-ND	2,000	67.50/M	UWT0G220MCL1GB
	33	0.4	3	30	5.0	5.4	493-2139-1-ND	.96	1.58	3.66	493-2139-2-ND	1,000	67.50	UWT0G330MCL1GB
	47	0.4	3	36	5.0	5.4	493-2140-1-ND	1.13	1.86	4.31	493-2140-2-ND	1,000	79.50	UWT0G470MCL1GB
	100	0.4	4	60	6.3	5.4	493-2141-1-ND	1.21	2.00	4.63	493-2141-2-ND	1,000	85.50	UWT0G101MCL1GB
	150	0.4	6	86	6.3	5.8	493-2142-1-ND	1.36	2.24	5.20	493-2142-2-ND	1,000	96.00	UWT0G151MCL1GS
4	220	0.4	8.8	102	8.0	5.4	493-2144-1-ND	1.76	2.91	6.74	493-2144-2-ND	1,000	124.50	UWT0G221MCL1GB
	330	0.4	13.2	105	6.3	7.7	493-2145-1-ND	1.76	2.91	6.74	493-2145-2-ND	900	112.05	UWT0G331MCL1GS
	470	0.4	18.8	210	8.0	10.0	493-2146-1-ND	2.13	3.50	8.13	493-2146-2-ND	500	75.00	UWT0G471MNL1GS
	680	0.4	27.2	210	8.0	10.0	493-2147-1-ND	2.13	3.50	8.13	493-2147-2-ND	500	75.00	UWT0G681MNL1GS
	1000	0.4	40	230	8.0	10.0	493-2148-1-ND	2.13	3.50	8.13	493-2148-2-ND	500	75.00	UWT0G102MNL1GS
	1500	0.4	60	310	10.0	10.0	493-2149-1-ND	2.74	4.52	10.48	493-2149-2-ND	500	96.75	UWT0G152MNL1GS
	22	0.3	3	22	4.0	5.4	493-2150-1-ND	.96	1.58	3.66	493-2150-2-ND	2,000	67.50/M	UWT0J220MCL1GB
	33	0.3	3	30	5.0	5.4	493-2151-1-ND	.96	1.58	3.66	493-2151-2-ND	1,000	67.50	UWT0J330MCL1GB
	47	0.3	3	36	5.0	5.4	493-2152-1-ND	1.13	1.86	4.31	493-2152-2-ND	1,000	79.50	UWT0J470MCL1GB
	100	0.3	6.3	60	6.3	5.4	493-2153-1-ND	1.21	2.00	4.63	493-2153-2-ND	1,000	85.50	UWT0J101MCL1GB
	150	0.3	9.45	86	6.3	5.8	493-2154-1-ND	1.36	2.24	5.20	493-2154-2-ND	1,000	96.00	UWT0J151MCL1GS
6.3	220	0.3	13.86	102	8.0	5.4	493-2156-1-ND	1.76	2.91	6.74	493-2156-2-ND	1,000	124.50	UWT0J221MCL1GB
	330	0.3	20.79	105	6.3	7.7	493-2157-1-ND	1.76	2.91	6.74	493-2157-2-ND	900	112.05	UWT0J331MCL1GS
	470	0.3	29.61	210	8.0	10.0	493-2158-1-ND	2.13	3.50	8.13	493-2158-2-ND	500	75.00	UWT0J471MNL1GS
	680	0.3	42.84	210	8.0	10.0	493-2159-1-ND	2.13	3.50	8.13	493-2159-2-ND	500	75.00	UWT0J681MNL1GS
	1000	0.3	63	230	8.0	10.0	493-2160-1-ND	2.13	3.50	8.13	493-2160-2-ND	500	75.00	UWT0J102MNL1GS
	1500	0.3	94.5	310	10.0	10.0	493-2161-1-ND	2.74	4.52	10.48	493-2161-2-ND	500	96.75	UWT0J152MNL1GS
	22	0.24	3	27	5.0	5.4	493-2162-1-ND	1.23	2.03	4.71	493-2162-2-ND	1,000	87.00	UWT1A220MCL1GB
	33	0.24	3.3	35	5.0	5.4	493-2163-1-ND	1.23	2.03	4.71	493-2163-2-ND	1,000	87.00	UWT1A330MCL1GB
	47	0.24	4.7	46	6.3	5.4	493-2164-1-ND	1.36	2.24	5.20	493-2164-2-ND	1,000	96.00	UWT1A470MCL1GB
	100	0.24	10	60	6.3	5.4	493-2165-1-ND	1.36	2.24	5.20	493-2165-2-ND	1,000	96.00	UWT1A101MCL1GB
	150	0.24	15	86	6.3	5.8	493-2166-1-ND	1.36	2.24	5.20	493-2166-2-ND	1,000	96.00	UWT1A151MCL1GS
10	220	0.24	22	105	6.3	7.7	493-2167-1-ND	1.76	2.91	6.74	493-2167-2-ND	900	112.05	UWT1A221MCL1GS
	330	0.24	33	195	8.0	10.0	493-2168-1-ND	2.13	3.50	8.13	493-2168-2-ND	500	75.00	UWT1A331MNL1GS
	470	0.24	47	210	8.0	10.0	493-2169-1-ND	2.13	3.50	8.13	493-2169-2-ND	500	75.00	UWT1A471MNL1GS
	680	0.24	68	310	10.0	10.0	493-2170-1-ND	2.74	4.52	10.48	493-2170-2-ND	500	96.75	UWT1A681MNL1GS
	1000	0.24	100	310	10.0	10.0	493-2171-1-ND	2.74	4.52	10.48	493-2171-2-ND	500	96.75	UWT1A102MNL1GS
	10	0.2	3	14	3.0	5.4	493-2172-1-ND	.96	1.58	3.66	493-2172-2-ND	2,000	67.50/M	UWT1C100MCL2GB
	10	0.2	3	18	4.0	5.4	493-2173-1-ND	.96	1.58	3.66	493-2173-2-ND	2,000	67.50/M	UWT1C100MCL1GB
	22	0.2	3.52	30	5.0	5.4	493-2174-1-ND	1.38	2.28	5.28	493-2174-2-ND	1,000	97.50	UWT1C220MCL1GB
	33	0.2	5.28	40	6.3	5.4	493-2175-1-ND	1.38	2.28	5.28	493-2175-2-ND	1,000	97.50	UWT1C330MCL1GB
	47	0.2	7.52	50	6.3	5.4	493-2176-1-ND	1.47	2.42	5.61	493-2176-2-ND	1,000	103.50	UWT1C470MCL1GB
16	100	0.2	16	60	6.3	5.4	493-2177-1-ND	1.47	2.42	5.61	493-2177-2-ND	1,000	103.50	UWT1C101MCL1GB
	150	0.2	24	95	6.3	7.7	493-2178-1-ND	1.76	2.91	6.74	493-2178-2-ND	900	112.05	UWT1C151MCL1GS
	220	0.2	35.2	105	6.3	7.7	493-2179-1-ND	1.76	2.91	6.74	493-2179-2-ND	900	112.05	UWT1C221MCL1GS
	330	0.2	52.8	195	8.0	10.0	493-2180-1-ND	2.13	3.50	8.13	493-2180-2-ND	500	75.00	UWT1C331MNL1GS
	470	0.2	75.2	230	8.0	10.0	493-2181-1-ND	2.13	3.50	8.13	493-2181-2-ND	500	75.00	UWT1C471MNL1GS
	680	0.2	108.8	310	10.0	10.0	493-2182-1-ND	2.74	4.52	10.48	493-2182-2-ND	500	96.75	UWT1C681MNL1GS

(Continued)

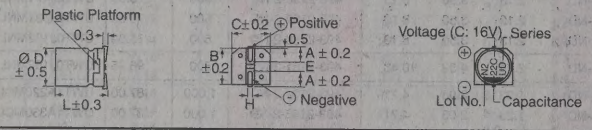
Rated Voltage (VDC)	Cap. (µF)	tan δ (Max.) @120Hz/20°C	Leakage Current (µA)	Rated Ripple Cur. 120Hz/105°C (mA rms)	Dia. D (mm)	Dim. L (mm)	Digi-Key Part No.	Cut Tape Pricing 5	10	25	Digi-Key Part No.	Tape & Reel Size	Pricing	Lead (Pb) Free Nichicon Part No.
	4.7	0.16	3	10	3.0	5.4	493-2183-1-ND	.96	1.58	3.66	493-2183-2-ND	2,000	67.50/M	UWT1E4R7MCL2G
	4.7	0.16	3	13	4.0	5.4	493-2184-1-ND	.96	1.58	3.66	493-2184-2-ND	2,000	67.50/M	UWT1E4R7MCL1G
	10	0.16	3	23	5.0	5.4	493-2185-1-ND	1.36	2.24	5.20	493-2185-2-ND	1,000	96.00	UWT1E100MCL1G
	22	0.16	5.5	38	6.3	5.4	493-2186-1-ND	1.47	2.42	5.61	493-2186-2-ND	1,000	103.50	UWT1E220MCL1G
	33	0.16	8.25	48	6.3	5.4	493-2187-1-ND	1.55	2.56	5.93	493-2187-2-ND	1,000	109.50	UWT1E330MCL1G
25	47	0.16	11.75	66	8.0	5.4	493-2189-1-ND	1.76	2.91	6.74	493-2189-2-ND	1,000	124.50	UWT1E470MCL1G
	100	0.16	25	91	6.3	7.7	493-2190-1-ND	1.76	2.91	6.74	493-2190-2-ND	900	112.05	UWT1E101MCL1G
	150	0.16	37.5	140	8.0	10.0	493-2191-1-ND	2.13	3.50	8.13	493-2191-2-ND	500	75.00	UWT1E151MNL1G
	220	0.16	55	155	8.0	10.0	493-2192-1-ND	2.13	3.50	8.13	493-2192-2-ND	500	75.00	UWT1E221MNL1G
	330	0.16	82.5	190	8.0	10.0	493-2193-1-ND	2.13	3.50	8.13	493-2193-2-ND	500	75.00	UWT1E331MNL1G
	470	0.16	117.5	300	10.0	10.0	493-2194-1-ND	2.74	4.52	10.48	493-2194-2-ND	500	96.75	UWT1E471MNL1G
	2.2	0.14	3	7.5	3.0	5.4	493-2195-1-ND	.96	1.58	3.66	493-2195-2-ND	2,000	67.50/M	UWT1V2R2MCL2G
	3.3	0.14	3	9	3.0	5.4	493-2196-1-ND	1.11	1.82	4.23	493-2196-2-ND	2,000	78.00/M	UWT1V3R3MCL2G
	4.7	0.14	3	15	4.0	5.4	493-2197-1-ND	1.23	2.03	4.71	493-2197-2-ND	2,000	87.00/M	UWT1V4R7MCL1G
	10	0.14	3.5	25	5.0	5.4	493-2198-1-ND	1.36	2.24	5.20	493-2198-2-ND	1,000	96.00	UWT1V100MCL1G
	22	0.14	7.7	42	6.3	5.4	493-2199-1-ND	1.47	2.42	5.61	493-2199-2-ND	1,000	103.50	UWT1V220MCL1G
35	33	0.14	11.55	59	8.0	5.4	493-2201-1-ND	1.76	2.91	6.74	493-2201-2-ND	1,000	124.50	UWT1V330MCL1G
	47	0.14	16.45	63	6.3	5.8	493-2202-1-ND	1.76	2.91	6.74	493-2202-2-ND	1,000	124.50	UWT1V470MCL1G
	100	0.14	35	84	6.3	7.7	493-2203-1-ND	1.76	2.91	6.74	493-2203-2-ND	900	112.05	UWT1V101MCL1G
	150	0.14	52.5	155	8.0	10.0	493-2204-1-ND	2.13	3.50	8.13	493-2204-2-ND	500	75.00	UWT1V151MNL1G
	220	0.14	77	190	8.0	10.0	493-2205-1-ND	2.66	4.38	10.16	493-2205-2-ND	500	93.75	UWT1V221MNL1G
	330	0.14	115.5	300	10.0	10.0	493-2206-1-ND	2.74	4.52	10.48	493-2206-2-ND	500	96.75	UWT1V331MNL1G
	0.1	0.14	3	1	3.0	5.4	493-2207-1-ND	.96	1.58	3.66	493-2207-2-ND	2,000	67.50/M	UWT1H0R1MCL2G
	0.1	0.14	3	1	4.0	5.4	493-2208-1-ND	.96	1.58	3.66	493-2208-2-ND	2,000	67.50/M	UWT1H0R1MCL1G
	0.22	0.14	3	2.6	3.0	5.4	493-2209-1-ND	.96	1.58	3.66	493-2209-2-ND	2,000	67.50/M	UWT1HR22MCL2G
	0.22	0.14	3	2.6	4.0	5.4	493-2210-1-ND	.96	1.58	3.66	493-2210-2-ND	2,000	67.50/M	UWT1HR22MCL1G
	0.33	0.14	3	3.2	3.0	5.4	493-2211-1-ND	.96	1.58	3.66	493-2211-2-ND	2,000	67.50/M	UWT1HR33MCL2G
	0.33	0.14	3	3.2	4.0	5.4	493-2212-1-ND	.96	1.58	3.66	493-2212-2-ND	2,000	67.50/M	UWT1HR33MCL1G
	0.47	0.14	3	3.8	3.0	5.4	493-2213-1-ND	.96	1.58	3.66	493-2213-2-ND	2,000	67.50/M	UWT1HR47MCL2G
	0.47	0.14	3	3.8	4.0	5.4	493-2214-1-ND	.96	1.58	3.66	493-2214-2-ND	2,000	67.50/M	UWT1HR47MCL1G
	1	0.14	3	5.9	3.0	5.4	493-2215-1-ND	.96	1.58	3.66	493-2215-2-ND	2,000	67.50/M	UWT1H010MCL2G
	1	0.14	3	6.3	4.0	5.4	493-2216-1-ND	.96	1.58	3.66	493-2216-2-ND	2,000	67.50/M	UWT1H010MCL1G
50	2.2	0.14	3	9	3.0	5.4	493-2217-1-ND	.96	1.58	3.66	493-2217-2-ND	2,000	67.50/M	UWT1H2R2MCL2G
	2.2	0.14	3	11	4.0	5.4	493-2218-1-ND	.96	1.58	3.66	493-2218-2-ND	2,000	67.50/M	UWT1H2R2MCL1G
	3.3	0.14	3	14	4.0	5.4	493-2219-1-ND	1.11	1.82	4.23	493-2219-2-ND	2,000	78.00/M	UWT1H3R3MCL1G
	4.7	0.14	3	19	5.0	5.4	493-2220-1-ND	1.23	2.03	4.71	493-2220-2-ND	1,000	87.00	UWT1H4R7MCL1G
	10	0.14	5	30	6.3	5.4	493-2221-1-ND	1.36	2.24	5.20	493-2221-2-ND	1,000	96.00	UWT1H100MCL1G
	22	0.14	11	51	8.0	5.4	493-2223-1-ND	1.76	2.91	6.74	493-2223-2-ND	1,000	124.50	UWT1H220MCL1G
	33	0.14	16.5	60	6.3	7.7	493-2224-1-ND	1.76	2.91	6.74	493-2224-2-ND	900	112.05	UWT1H330MCL1G
	47	0.14	23.5	63	6.3	7.7	493-2225-1-ND	1.76	2.91	6.74	493-2225-2-ND	900	112.05	UWT1H470MCL1G
	100	0.14	50	140	8.0	10.0	493-2226-1-ND	2.13	3.50	8.13	493-2226-2-ND	500	75.00	UWT1H101MNL1G
	150	0.14	75	180	10.0	10.0	493-2227-1-ND	2.74	4.52	10.48	493-2227-2-ND	500	96.75	UWT1H151MNL1G
	220	0.14	110	220	10.0	10.0	493-2228-1-ND	2.74	4.52	10.48	493-2228-2-ND	500	96.75	UWT1H221MNL1G

E

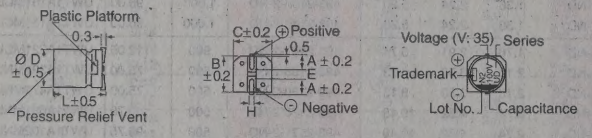
nichicon UD Series Aluminum Electrolytic Capacitors (SMT)

Low Impedance 105°C **** Lead (Pb) Free/RoHS Compliant Part Numbers Stocked ****

Diameter D (mm): ø4 - ø6.3 x 5.8 L



Diameter D (mm): ø8, ø10



Dim.	Diameter D (mm) x Dimension L (mm) 4.0 x 5.8	5.0 x 5.8	6.3 x 5.8	6.3 x 7.7	8.0 x 10.0	10.0 x 10.0
A	1.8	2.1	2.4	2.4	2.9	3.2
B	4.3	5.3	6.6	6.6	8.3	10.3
C	4.3	5.3	6.6	6.6	8.3	10.3
E	1.0	1.3	2.2	2.2	3.1	4.5
L	5.8	5.8	5.8	7.7	10	10
H	0.5-0.8	0.5-0.8	0.5-0.8	0.5-0.8	0.8-1.1	0.8-1.1

FEATURES:

• Chip type, low impedance temperature range up to 105°C • Designed for surface mounting on high density PC board • Applicable to automatic mounting machine using carrier tape

SPECIFICATIONS:

Temperature Range	-55°C to 105°C
Capacitance Tolerance	±20% at 120Hz, 20°C
Leakage Current	After 2 minutes application of rated voltage, leakage current is not more than 0.01CV or 3 (µA), whichever is greater.

• **tan δ:**

Rated Volt. (V)	6.3	10	16	25	35	50
tan δ (Max.)	0.24 (0.28)	0.20 (0.24)	0.16 (0.20)	0.14 (0.16)	0.12 (0.14)	0.12 (0.14

Measurement frequency: 120Hz, Temperature: 20°C *(Values in ( ) ø8 case size)*

• **Stability at Low Temperature:**

Rated Voltage (V)		6.3	10	16	25	35	50
Impedance ratio	Z -25°C / Z +20°C	3	2	2	2	2	2
ZT / Z20 (Max.)	Z -55°C / Z +20°C	5	4	4	3	3	3

Measurement frequency: 120Hz

• **Endurance:** After 1000 hours application of rated voltage at 105°C, capacitors meet the characteristic requirements listed at right.

Capacitance Change	Within ±25% of initial value
tan δ	200% or less of initial specified value
Leakage Current	Initial specified value or less

• **Shelf Life:** After leaving capacitors under no load at 105°C for 1000 hours, they meet the specified value endurance characteristics listed above.

• **Resistance to Soldering Heat:** The capacitors shall be kept on the hot plate maintained at 250°C for 30 seconds. After removing from the hot plate and restored at room temperature, they meet the characteristic requirements listed at right.

Capacitance Change	Within ±10% of initial value
tan δ	Initial specified value or less
Leakage Current	Initial specified value or less

• **Marking:** Black print on the case top.

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ated Voltage (VDC)	Cap. (µF)	tan δ (Max.) @120Hz/20°C	Impedance ohms (Ω) Max. @20°C/100KHz	Leakage Current (µA)	Rated Ripple Cur. @100KHz/105°C (mA rms)	Dia. D (mm)	Dim. L (mm)	Digi-Key Part No.	Cut Tape Pricing 5	10	25	Digi-Key Part No.	Tape & Reel Size	Pricing	Lead (Pb) Free Nichicon Part No.
	27	0.24	1.8	3	80	4.0	5.8	493-2229-1-ND	3.04	5.01	11.62	493-2229-2-ND	2,000	214.50/M	UUD0J270MCL1GS
	33	0.24	0.76	3	150	5.0	5.8	493-2230-1-ND	3.42	5.64	13.08	493-2230-2-ND	1,000	241.50	UUD0J330MCL1GS
	47	0.24	0.76	3	150	5.0	5.8	493-2231-1-ND	3.42	5.64	13.08	493-2231-2-ND	1,000	241.50	UUD0J470MCL1GS
	56	0.24	0.76	3.528	150	5.0	5.8	493-2232-1-ND	3.42	5.64	13.08	493-2232-2-ND	1,000	241.50	UUD0J560MCL1GS
	68	0.24	0.44	4.284	230	6.3	5.8	493-2233-1-ND	3.70	6.09	14.14	493-2233-2-ND	1,000	261.00	UUD0J680MCL1GS
	100	0.24	0.44	6.3	230	6.3	5.8	493-2234-1-ND	3.70	6.09	14.14	493-2234-2-ND	1,000	261.00	UUD0J101MCL1GS
6.3	150	0.24	0.44	9.45	230	6.3	5.8	493-2235-1-ND	3.70	6.09	14.14	493-2235-2-ND	1,000	261.00	UUD0J151MCL1GS
	220	0.24	0.44	13.86	230	6.3	5.8	493-2236-1-ND	3.70	6.09	14.14	493-2236-2-ND	1,000	261.00	UUD0J221MCL1GS
	330	0.24	0.34	20.79	280	6.3	7.7	493-2237-1-ND	3.70	6.09	14.14	493-2237-2-ND	900	234.90	UUD0J331MCL1GS
	470	0.28	0.17	29.61	450	8.0	10.0	493-2238-1-ND	4.70	7.74	17.96	493-2238-2-ND	500	165.75	UUD0J471MNL1GS
	680	0.28	0.17	42.84	450	8.0	10.0	493-2239-1-ND	4.70	7.74	17.96	493-2239-2-ND	500	165.75	UUD0J681MNL1GS
	1000	0.28	0.17	63	450	8.0	10.0	493-2240-1-ND	4.70	7.74	17.96	493-2240-2-ND	500	165.75	UUD0J102MNL1GS
	1500	0.28	0.09	94.5	670	10.0	10.0	493-2241-1-ND	5.06	8.33	19.34	493-2241-2-ND	500	178.50	UUD0J152MNL1GS
	22	0.2	1.8	3	80	4.0	5.8	493-2242-1-ND	3.04	5.01	11.62	493-2242-2-ND	2,000	214.50/M	UUD1A220MCL1GS
	27	0.2	0.76	3	150	5.0	5.8	493-2243-1-ND	3.42	5.64	13.08	493-2243-2-ND	1,000	241.50	UUD1A270MCL1GS
	33	0.2	0.76	3.3	150	5.0	5.8	493-2244-1-ND	3.42	5.64	13.08	493-2244-2-ND	1,000	241.50	UUD1A330MCL1GS
	47	0.2	0.44	4.7	230	6.3	5.8	493-2245-1-ND	3.70	6.09	14.14	493-2245-2-ND	1,000	261.00	UUD1A470MCL1GS
	56	0.2	0.44	5.6	230	6.3	5.8	493-2246-1-ND	3.70	6.09	14.14	493-2246-2-ND	1,000	261.00	UUD1A560MCL1GS
	68	0.2	0.44	6.8	230	6.3	5.8	493-2247-1-ND	3.70	6.09	14.14	493-2247-2-ND	1,000	261.00	UUD1A680MCL1GS
10	100	0.2	0.44	10	230	6.3	5.8	493-2248-1-ND	3.70	6.09	14.14	493-2248-2-ND	1,000	261.00	UUD1A101MCL1GS
	150	0.2	0.44	15	230	6.3	5.8	493-2249-1-ND	3.70	6.09	14.14	493-2249-2-ND	1,000	261.00	UUD1A151MCL1GS
	220	0.2	0.34	22	280	6.3	7.7	493-2250-1-ND	3.91	6.44	14.95	493-2250-2-ND	900	248.40	UUD1A221MCL1GS
	330	0.24	0.17	33	450	8.0	10.0	493-2251-1-ND	4.70	7.74	17.96	493-2251-2-ND	500	165.75	UUD1A331MNL1GS
	470	0.24	0.17	47	450	8.0	10.0	493-2252-1-ND	4.70	7.74	17.96	493-2252-2-ND	500	165.75	UUD1A471MNL1GS
	680	0.24	0.09	68	670	10.0	10.0	493-2253-1-ND	5.06	8.33	19.34	493-2253-2-ND	500	178.50	UUD1A681MNL1GS
	1000	0.24	0.09	100	670	10.0	10.0	493-2254-1-ND	5.06	8.33	19.34	493-2254-2-ND	500	178.50	UUD1A102MNL1GS
	15	0.16	1.8	3	80	4.0	5.8	493-2255-1-ND	3.04	5.01	11.62	493-2255-2-ND	2,000	214.50/M	UUD1C150MCL1GS
	22	0.16	0.76	3.52	150	5.0	5.8	493-2256-1-ND	3.42	5.64	13.08	493-2256-2-ND	1,000	241.50	UUD1C220MCL1GS
	27	0.16	0.76	4.32	150	5.0	5.8	493-2257-1-ND	3.42	5.64	13.08	493-2257-2-ND	1,000	241.50	UUD1C270MCL1GS
	33	0.16	0.44	5.28	230	6.3	5.8	493-2258-1-ND	3.70	6.09	14.14	493-2258-2-ND	1,000	261.00	UUD1C330MCL1GS
	47	0.16	0.44	7.52	230	6.3	5.8	493-2259-1-ND	3.70	6.09	14.14	493-2259-2-ND	1,000	261.00	UUD1C470MCL1GS
	56	0.16	0.44	8.96	230	6.3	5.8	493-2260-1-ND	3.70	6.09	14.14	493-2260-2-ND	1,000	261.00	UUD1C560MCL1GS
16	68	0.16	0.44	10.88	230	6.3	5.8	493-2261-1-ND	3.70	6.09	14.14	493-2261-2-ND	1,000	261.00	UUD1C680MCL1GS
	100	0.16	0.44	16	230	6.3	5.8	493-2262-1-ND	3.70	6.09	14.14	493-2262-2-ND	1,000	261.00	UUD1C101MCL1GS
	150	0.16	0.34	24	280	6.3	7.7	493-2263-1-ND	3.91	6.44	14.95	493-2263-2-ND	900	248.40	UUD1C151MCL1GS
	220	0.16	0.34	35.2	280	6.3	7.7	493-2264-1-ND	3.91	6.44	14.95	493-2264-2-ND	900	248.40	UUD1C221MCL1GS
	330	0.2	0.17	52.8	450	8.0	10.0	493-2265-1-ND	4.70	7.74	17.96	493-2265-2-ND	500	165.75	UUD1C331MNL1GS
	470	0.2	0.17	75.2	450	8.0	10.0	493-2266-1-ND	4.70	7.74	17.96	493-2266-2-ND	500	165.75	UUD1C471MNL1GS
	680	0.2	0.09	108.8	670	10.0	10.0	493-2267-1-ND	5.06	8.33	19.34	493-2267-2-ND	500	178.50	UUD1C681MNL1GS
	10	0.14	1.8	3	80	4.0	5.8	493-2268-1-ND	3.04	5.01	11.62	493-2268-2-ND	2,000	214.50/M	UUD1E100MCL1GS
	15	0.14	0.76	3.75	150	5.0	5.8	493-2269-1-ND	3.42	5.64	13.08	493-2269-2-ND	1,000	241.50	UUD1E150MCL1GS
	22	0.14	0.76	5.5	150	5.0	5.8	493-2270-1-ND	3.42	5.64	13.08	493-2270-2-ND	1,000	241.50	UUD1E220MCL1GS
	27	0.14	0.44	6.75	230	6.3	5.8	493-2271-1-ND	3.70	6.09	14.14	493-2271-2-ND	1,000	261.00	UUD1E270MCL1GS
	33	0.14	0.44	8.25	230	6.3	5.8	493-2272-1-ND	3.70	6.09	14.14	493-2272-2-ND	1,000	261.00	UUD1E330MCL1GS
	47	0.14	0.44	11.75	230	6.3	5.8	493-2273-1-ND	3.70	6.09	14.14	493-2273-2-ND	1,000	261.00	UUD1E470MCL1GS
25	56	0.14	0.44	14	230	6.3	5.8	493-2274-1-ND	3.70	6.09	14.14	493-2274-2-ND	1,000	261.00	UUD1E560MCL1GS
	68	0.14	0.44	17	230	6.3	5.8	493-2275-1-ND	3.70	6.09	14.14	493-2275-2-ND	1,000	261.00	UUD1E680MCL1GS
	100	0.14	0.34	25	280	6.3	7.7	493-2276-1-ND	3.91	6.44	14.95	493-2276-2-ND	900	248.40	UUD1E101MCL1GS
	150	0.16	0.17	37.5	450	8.0	10.0	493-2277-1-ND	4.70	7.74	17.96	493-2277-2-ND	500	165.75	UUD1E151MNL1GS
	220	0.16	0.17	55	450	8.0	10.0	493-2278-1-ND	4.70	7.74	17.96	493-2278-2-ND	500	165.75	UUD1E221MNL1GS
	330	0.16	0.17	82.5	450	8.0	10.0	493-2279-1-ND	4.70	7.74	17.96	493-2279-2-ND	500	165.75	UUD1E331MNL1GS
	470	0.16	0.09	117.5	670	10.0	10.0	493-2280-1-ND	5.06	8.33	19.34	493-2280-2-ND	500	178.50	UUD1E471MNL1GS
	4.7	0.12	1.8	3	80	4.0	5.8	493-2281-1-ND	3.04	5.01	11.62	493-2281-2-ND	2,000	214.50/M	UUD1V4R7MCL1GS
	10	0.12	0.76	3.5	150	5.0	5.8	493-2282-1-ND	3.42	5.64	13.08	493-2282-2-ND	1,000	241.50	UUD1V100MCL1GS
	15	0.12	0.76	5.25	150	5.0	5.8	493-2283-1-ND	3.42	5.64	13.08	493-2283-2-ND	1,000	241.50	UUD1V150MCL1GS
	22	0.12	0.76	7.7	150	5.0	5.8	493-2284-1-ND	3.42	5.64	13.08	493-2284-2-ND	1,000	241.50	UUD1V220MCL1GS
	27	0.12	0.44	9.45	230	6.3	5.8	493-2285-1-ND	3.70	6.09	14.14	493-2285-2-ND	1,000	261.00	UUD1V270MCL1GS
	33	0.12	0.44	11.55	230	6.3	5.8	493-2286-1-ND	3.70	6.09	14.14	493-2286-2-ND	1,000	261.00	UUD1V330MCL1GS
35	47	0.12	0.44	16.45	230	6.3	5.8	493-2287-1-ND	3.70	6.09	14.14	493-2287-2-ND	1,000	261.00	UUD1V470MCL1GS
	56	0.12	0.34	19.6	280	6.3	7.7	493-2288-1-ND	3.91	6.44	14.95	493-2288-2-ND	900	248.40	UUD1V560MCL1GS
	68	0.12	0.34	23.8	280	6.3	7.7	493-2289-1-ND	3.91	6.44	14.95	493-2289-2-ND	900	248.40	UUD1V680MCL1GS
	100	0.14	0.17	35	450	8.0	10.0	493-2290-1-ND	4.70	7.74	17.96	493-2290-2-ND	500	165.75	UUD1V101MNL1GS
	150	0.14	0.17	52.5	450	8.0	10.0	493-2291-1-ND	4.70	7.74	17.96	493-2291-2-ND	500	165.75	UUD1V151MNL1GS
	220	0.14	0.17	77	450	8.0	10.0	493-2292-1-ND	4.70	7.74	17.96	493-2292-2-ND	500	165.75	UUD1V221MNL1GS
	330	0.14	0.09	115.5	670	10.0	10.0	493-2293-1-ND	5.06	8.33	19.34	493-2293-2-ND	500	178.50	UUD1V331MNL1GS
	1	0.12	5	3	30	4.0	5.8	493-2294-1-ND	3.04	5.01	11.62	493-2294-2-ND	2,000	214.50/M	UUD1H010MCL1GS
	2.2	0.12	5	3	30	4.0	5.8	493-2295-1-ND	3.04	5.01	11.62	493-2295-2-ND	2,000	214.50/M	UUD1H2R2MCL1GS
	3.3	0.12	5	3	30	4.0	5.8	493-2296-1-ND	3.04	5.01	11.62	493-2296-2-ND	2,000	214.50/M	UUD1H3R3MCL1GS
	4.7	0.12	1.52	3	85	5.0	5.8	493-2297-1-ND	3.42	5.64	13.08	493-2297-2-ND	1,000	241.50	UUD1H4R7MCL1GS
	10	0.12	0.88	5	165	6.3	5.8	493-2298-1-ND	3.70	6.09	14.14	493-2298-2-ND	1,000	261.00	UUD1H100MCL1GS
	15	0.12	0.88	7.5	165	6.3	5.8	493-2299-1-ND	3.70	6.09	14.14	493-2299-2-ND	1,000	261.00	UUD1H150MCL1GS
	22	0.12	0.88	11	165	6.3	5.8	493-2300-1-ND	3.70	6.09	14.14	493-2300-2-ND	1,000	261.00	UUD1H220MCL1GS
50	27	0.12	0.68	13.5	185	6.3	7.7	493-2301-1-ND	3.91	6.44	14.95	493-2301-2-ND	900	248.40	UUD1H270MCL1GS
	33	0.12	0.68	16.5	185	6.3	7.7	493-2302-1-ND	3.91	6.44	14.95	493-2302-2-ND	900	248.40	UUD1H330MCL1GS
	47	0.12	0.68	23.5	185	6.3	7.7	493-2303-1-ND	3.91	6.44	14.95	493-2303-2-ND	900	248.40	UUD1H470MCL1GS
	56	0.14	0.34	28	300	8.0	10.0	493-2304-1-ND	4.70	7.74	17.96	493-2304-2-ND	500	165.75	UUD1H560MNL1GS
	68	0.14	0.34	34	300	8.0	10.0	493-2305-1-ND	4.70	7.74	17.96	493-2305-2-ND	500	165.75	UUD1H680MNL1GS
	100	0.14	0.34	50	300	8.0	10.0	493-2306-1-ND	4.70	7.74	17.96	493-2306-2-ND	500	165.75	UUD1H101MNL1GS
	150	0.14	0.18	75	670	10.0	10.0	493-2307-1-ND	5.06	8.33	19.34	493-2307-2-ND	500	178.50	UUD1H151MNL1GS
	220	0.14	0.18	110	670	10.0	10.0	493-2308-1-ND	5.06	8.33	19.34	493-2308-2-ND	500	178.50	UUD1H221MNL1GS

nichicon Solid Tantalum Electrolytic Chip Capacitors

Features:

F93 – Standard Series
• General purpose rectangular resin molded chip • Low ESR/impedance, excellent high frequency characteristics • Excellent humidity resistance

F91 – Low ESR Series
• Rectangular resin molded chip • Low ESR

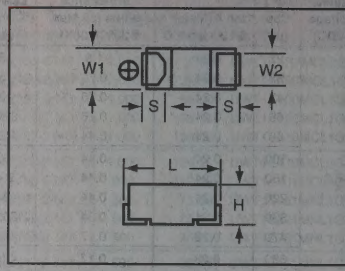
F92 – Compact Series
• Low profile, rectangular resin molded chip • Excellent high frequency characteristics • Excellent humidity resistance

F97 – High Reliability Series
• Rectangular resin molded chip • Soldering heat resistance • Superior humidity and environment resistance • High Reliability

Specification:
• Operating Temperature Range: -55°C to 125°C

Dimensions in mm

Case Code	L	W1	W2	H	S
A (F93 / 97)	3.2 ± 0.2	1.6 ± 0.2	1.2 ± 0.1	1.6 ±0.1	0.8 ± 0.2
A (F92)	3.2 ± 0.2	1.6 ± 0.2	1.2 ± 0.1	1.1 ±0.1	0.8 ± 0.2
B	3.5 ± 0.2	2.8 ± 0.2	2.2 ± 0.1	1.9 ± 0.2	0.8 ± 0.2
C	6.0 ± 0.2	3.2 ± 0.2	2.2 ± 0.1	2.5 ± 0.2	1.3 ± 0.2
N	7.3 ± 0.2	4.3 ± 0.2	2.4 ± 0.1	2.8 ± 0.2	1.3 ± 0.2
P	2.0 ± 0.2	1.25 ± 0.1	0.9 ± 0.1	1.1 ± 0.1	0.5 ± 0.2



Rated Voltage	Cap. (µF)	Capacitance Tolerance	Case Size	Leakage Current (µA)	Dissipation Factor (% @120Hz)	E.S.R. (Ω@100kHz)	Digi-Key Part No.	Cut Tape Pricing 10	Cut Tape Pricing 100	Digi-Key Part No.	Tape & Reel Size	Tape & Reel Pricing	Nichicon Part No.
F93 – Standard Series													
	3.3	±20%	A	0.5	6	4.5	493-2346-1-ND	1.92	16.80	493-2346-2-ND	2,000	75.00/M	F930J335MAA
	4.7	±20%	A	0.5	6	4.0	493-2347-1-ND	1.98	17.29	493-2347-2-ND	2,000	77.00/M	F930J475MAA
	6.8	±20%	A	0.5	6	3.5	493-2349-1-ND	2.04	17.78	493-2349-2-ND	2,000	80.00/M	F930J685MAA
	10	±20%	A	0.6	6	3.0	493-2340-1-ND	2.04	17.78	493-2340-2-ND	2,000	80.00/M	F930J106MAA
	15	±20%	A	0.9	8	2.9	493-2341-1-ND	2.22	19.38	493-2341-2-ND	2,000	87.00/M	F930J156MAA
6.3	15	±20%	B	0.9	6	2.0	493-2342-1-ND	2.49	21.74	493-2342-2-ND	2,000	97.00/M	F930J156MBA
	22	±20%	A	1.4	8	2.5	493-2343-1-ND	2.32	20.25	493-2343-2-ND	2,000	91.00/M	F930J226MAA
	22	±20%	B	1.4	6	1.9	493-2344-1-ND	2.66	23.22	493-2344-2-ND	2,000	104.00/M	F930J226MBA
	47	±20%	B	3.0	8	1.0	493-2348-1-ND	3.45	30.13	493-2348-2-ND	2,000	135.00/M	F930J476MBA
	68	±20%	C	4.3	8	0.8	493-2350-1-ND	5.59	48.87	493-2350-2-ND	500	117.50	F930J686MCC
	220	±20%	N	13.9	10	0.5	493-2345-1-ND	10.34	90.29	493-2345-2-ND	500	217.00	F930J227MNC
	2.2	±20%	A	0.5	6	5.0	493-2356-1-ND	1.92	16.80	493-2356-2-ND	2,000	75.00/M	F931A225MAA
	3.3	±20%	A	0.5	6	4.5	493-2358-1-ND	1.92	16.80	493-2358-2-ND	2,000	75.00/M	F931A335MAA
	4.7	±20%	A	0.5	6	4.0	493-2361-1-ND	1.83	15.96	493-2361-2-ND	2,000	71.00/M	F931A475MAA
	10	±20%	A	1.0	6	3.0	493-2351-1-ND	1.74	15.20	493-2351-2-ND	2,000	68.00/M	F931A106MAA
	10	±20%	B	1.0	6	2.1	493-2352-1-ND	2.49	21.74	493-2352-2-ND	2,000	97.00/M	F931A106MBA
	15	±20%	B	1.5	6	2.0	493-2354-1-ND	2.66	23.22	493-2354-2-ND	2,000	104.00/M	F931A156MBA
	22	±20%	B	2.2	8	1.9	493-2357-1-ND	2.61	22.80	493-2357-2-ND	2,000	102.00/M	F931A226MBA
10	33	±20%	B	3.3	8	1.4	493-2359-1-ND	3.61	31.58	493-2359-2-ND	2,000	141.00/M	F931A336MBA
	33	±20%	C	3.3	6	1.1	493-2360-1-ND	5.25	45.90	493-2360-2-ND	500	110.00	F931A336MCC
	47	±20%	C	4.7	8	0.9	493-2362-1-ND	5.59	48.87	493-2362-2-ND	500	117.50	F931A476MCC
	68	±20%	N	6.8	6	0.6	493-2363-1-ND	7.97	69.62	493-2363-2-ND	500	167.00	F931A686MNC
	100	±20%	N	10.0	10	0.6	493-2353-1-ND	8.79	76.76	493-2353-2-ND	500	184.50	F931A107MNC
	150	±20%	N	15.0	10	0.6	493-2355-1-ND	10.47	91.50	493-2355-2-ND	500	219.50	F931A157MNC
	1	±20%	A	0.5	4	7.5	493-2364-1-ND	1.92	16.80	493-2364-2-ND	2,000	75.00/M	F931C105MAA
	1.5	±20%	A	0.5	6	6.0	493-2366-1-ND	1.92	16.80	493-2366-2-ND	2,000	75.00/M	F931C155MAA
	2.2	±20%	A	0.5	6	5.0	493-2368-1-ND	1.83	15.96	493-2368-2-ND	2,000	71.00/M	F931C225MAA
	3.3	±20%	A	0.5	6	4.5	493-2370-1-ND	1.83	15.96	493-2370-2-ND	2,000	71.00/M	F931C335MAA
	4.7	±20%	A	0.8	6	4.0	493-2372-1-ND	1.83	15.96	493-2372-2-ND	2,000	71.00/M	F931C475MAA
	6.8	±20%	A	1.1	6	3.5	493-2374-1-ND	2.09	18.28	493-2374-2-ND	2,000	82.00/M	F931C685MAA
16	6.8	±20%	B	1.1	6	2.5	493-2375-1-ND	2.49	21.74	493-2375-2-ND	2,000	97.00/M	F931C685MBA
	10	±20%	B	1.6	6	2.0	493-2365-1-ND	2.60	22.72	493-2365-2-ND	2,000	102.00/M	F931C106MBA
	15	±20%	B	2.4	8	2.0	493-2367-1-ND	2.83	24.70	493-2367-2-ND	2,000	111.00/M	F931C156MBA
	22	±20%	C	3.5	6	1.1	493-2369-1-ND	5.25	45.90	493-2369-2-ND	500	110.00	F931C226MCC
	33	±20%	C	5.3	8	1.1	493-2371-1-ND	5.59	48.87	493-2371-2-ND	500	117.50	F931C336MCC
	47	±20%	N	7.5	6	0.7	493-2373-1-ND	7.57	66.16	493-2373-2-ND	500	159.00	F931C476MNC
	68	±20%	N	10.9	8	0.6	493-2376-1-ND	8.93	78.01	493-2376-2-ND	500	187.50	F931C686MNC
	1.5	±20%	A	0.5	6	6.3	493-2378-1-ND	1.92	16.80	493-2378-2-ND	2,000	75.00/M	F931D155MAA
	2.2	±20%	A	0.5	6	5.0	493-2380-1-ND	1.83	15.96	493-2380-2-ND	2,000	71.00/M	F931D225MAA
	3.3	±20%	A	0.7	6	4.5	493-2382-1-ND	2.38	20.75	493-2382-2-ND	2,000	93.00/M	F931D335MAA
	4.7	±20%	A	0.9	6	4.0	493-2384-1-ND	3.00	26.22	493-2384-2-ND	2,000	117.00/M	F931D475MAA
20	4.7	±20%	B	0.9	6	2.8	493-2385-1-ND	3.00	26.22	493-2385-2-ND	2,000	117.00/M	F931D475MBA
	6.8	±20%	B	1.4	6	2.5	493-2386-1-ND	3.17	27.66	493-2386-2-ND	2,000	124.00/M	F931D685MBA
	10	±20%	B	2.0	6	2.1	493-2377-1-ND	4.15	36.25	493-2377-2-ND	2,000	162.00/M	F931D106MBA
	15	±20%	C	3.0	6	1.2	493-2379-1-ND	5.25	45.90	493-2379-2-ND	500	110.00	F931D156MCC
	22	±20%	C	4.4	8	1.1	493-2381-1-ND	5.59	48.87	493-2381-2-ND	500	117.50	F931D226MCC
	33	±20%	N	6.6	6	0.7	493-2383-1-ND	7.97	69.62	493-2383-2-ND	500	167.00	F931D336MNC
	.68	±20%	A	0.5	4	7.6	493-2394-1-ND	1.92	16.80	493-2394-2-ND	2,000	75.00/M	F931E684MAA
	1	±20%	A	0.5	4	7.5	493-2387-1-ND	1.92	16.80	493-2387-2-ND	2,000	75.00/M	F931E105MAA
	1.5	±20%	A	0.5	6	6.7	493-2389-1-ND	1.98	17.29	493-2389-2-ND	2,000	77.00/M	F931E155MAA
	2.2	±20%	A	0.6	6	6.3	493-2390-1-ND	2.09	18.28	493-2390-2-ND	2,000	82.00/M	F931E225MAA
25	3.3	±20%	B	0.8	6	3.1	493-2392-1-ND	3.17	27.66	493-2392-2-ND	2,000	124.00/M	F931E335MBA
	4.7	±20%	B	1.2	6	2.8	493-2393-1-ND	3.32	29.03	493-2393-2-ND	2,000	130.00/M	F931E475MBA
	6.8	±20%	C	1.7	6	1.8	493-2395-1-ND	4.86	42.45	493-2395-2-ND	500	102.00	F931E685MCC
	10	±20%	C	2.5	6	1.5	493-2388-1-ND	5.25	45.90	493-2388-2-ND	500	110.00	F931E106MCC
	22	±20%	N	5.5	6	0.7	493-2391-1-ND	7.80	68.13	493-2391-2-ND	500	163.50	F931E226MNC
	.47	±20%	A	0.5	4	10.0	493-2402-1-ND	1.92	16.80	493-2402-2-ND	2,000	75.00/M	F931V474MAA
	.68	±20%	A	0.5	4	7.6	493-2404-1-ND	1.92	16.80	493-2404-2-ND	2,000	75.00/M	F931V684MAA
	1	±20%	A	0.5	4	7.5	493-2396-1-ND	1.98	17.29	493-2396-2-ND	2,000	77.00/M	F931V105MAA
	1.5	±20%	A	0.5	6	7.5	493-2398-1-ND	1.83	15.96	493-2398-2-ND	2,000	71.00/M	F931V155MAA
	2.2	±20%	B	0.8	6	3.8	493-2400-1-ND	2.49	21.74	493-2400-2-ND	2,000	97.00/M	F931V225MBA
35	3.3	±20%	B	1.2	6	3.5	493-2401-1-ND	3.32	29.03	493-2401-2-ND	2,000	130.00/M	F931V335MBA
	4.7	±20%	C	1.6	6	1.8	493-2403-1-ND	4.97	43.43	493-2403-2-ND	500	104.50	F931V475MCC
	6.8	±20%	C	2.4	6	1.8	493-2405-1-ND	5.54	48.37	493-2405-2-ND	500	116.00	F931V685MCC
	10	±20%	C	3.5	6	1.6	493-2397-1-ND	8.25	72.09	493-2397-2-ND	500	173.00	F931V106MCC
	15	±20%	N	5.3	6	0.7	493-2399-1-ND	8.25	72.09	493-2399-2-ND	500	173.00	F931V156MNC

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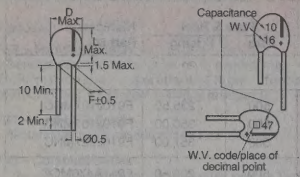
Rated Voltage	Cap. (µF)	Capacitance Tolerance	Case Size	Leakage Current (µA)	Dissipation Factor (% @120Hz)	E.S.R. (Ω@100kHz)	Digi-Key Part No.	Cut Tape Pricing 10	Cut Tape Pricing 100	Digi-Key Part No.	Tape & Reel Size	Tape & Reel Pricing	Nichicon Part No.
F91 – Low ESR Series													
6.3	100	±20%	C	6.3	10	.250	493-2309-1-ND	11.22	98.00	493-2309-2-ND	500	235.50	F910J107MCC
	150	±20%	N	9.5	10	.100	493-2310-1-ND	16.68	145.73	493-2310-2-ND	500	350.00	F910J157MNC
	220	±20%	N	13.9	10	.100	493-2311-1-ND	17.01	148.58	493-2311-2-ND	500	357.00	F910J227MNC
10	47	±20%	C	4.7	8	.400	493-2314-1-ND	11.22	98.00	493-2314-2-ND	500	235.50	F911A476MCC
	100	±20%	N	10	10	.100	493-2312-1-ND	16.68	145.73	493-2312-2-ND	500	350.00	F911A107MNC
	150	±20%	N	15.0	10	.100	493-2313-1-ND	17.01	148.58	493-2313-2-ND	500	357.00	F911A157MNC
16	33	±20%	C	5.3	8	.400	493-2315-1-ND	11.22	98.00	493-2315-2-ND	500	235.50	F911C336MCC
	47	±20%	N	7.5	6	.150	493-2316-1-ND	15.01	131.10	493-2316-2-ND	500	315.00	F911C476MNC
20	15	±20%	C	3	6	.450	493-2317-1-ND	11.22	98.00	493-2317-2-ND	500	235.50	F911D156MCC
	33	±20%	N	6.6	6	.200	493-2318-1-ND	16.68	145.73	493-2318-2-ND	500	350.00	F911D336MNC
25	10	±20%	C	2.5	6	.450	493-2319-1-ND	11.22	98.00	493-2319-2-ND	500	235.50	F911E106MCC
	22	±20%	N	5.5	6	.200	493-2320-1-ND	16.68	145.73	493-2320-2-ND	500	350.00	F911E226MNC
	33	±20%	N	8.3	8	.200	493-2321-1-ND	16.68	145.73	493-2321-2-ND	500	350.00	F911E336MNC
35	6.8	±20%	C	2.4	6	.600	493-2325-1-ND	11.22	98.00	493-2325-2-ND	500	235.50	F911V685MCC
	10	±20%	N	3.5	6	.300	493-2322-1-ND	16.68	145.73	493-2322-2-ND	500	350.00	F911V106MNC
	15	±20%	N	5.3	6	.300	493-2323-1-ND	16.68	145.73	493-2323-2-ND	500	350.00	F911V156MNC
	22	±20%	N	7.7	8	.300	493-2324-1-ND	16.68	145.73	493-2324-2-ND	500	350.00	F911V226MNC
F92 – Compact Series													
4	2.2	±20%	P	0.5	8	12.0	493-2326-1-ND	2.94	25.69	493-2326-2-ND	3,000	115.00/M	F920G225MPA
	22	±20%	P	0.9	20	5.0	493-2327-1-ND	4.31	37.62	493-2327-2-ND	3,000	168.00/M	F920G226MPA
6.3	1.5	±20%	P	0.5	8	12.0	493-2329-1-ND	2.94	25.69	493-2329-2-ND	3,000	115.00/M	F920J155MPA
	10	±20%	P	0.6	10	6.0	493-2328-1-ND	4.13	36.10	493-2328-2-ND	3,000	162.00/M	F920J106MPA
10	1	±20%	P	0.5	8	12.0	493-2330-1-ND	2.94	25.69	493-2330-2-ND	3,000	115.00/M	F921A105MPA
	2.2	±20%	P	0.5	8	12.0	493-2331-1-ND	5.70	49.78	493-2331-2-ND	3,000	223.00/M	F921A225MPA
	3.3	±20%	P	0.5	8	12.0	493-2332-1-ND	4.18	36.56	493-2332-2-ND	3,000	164.00/M	F921A335MPA
	4.7	±20%	P	0.5	8	6.0	493-2333-1-ND	5.87	51.30	493-2333-2-ND	3,000	230.00/M	F921A475MPA
16	.68	±20%	P	0.5	8	12.0	493-2335-1-ND	3.05	26.68	493-2335-2-ND	3,000	119.00/M	F921C684MPA
	1	±20%	P	0.5	8	12.0	493-2334-1-ND	3.11	27.17	493-2334-2-ND	3,000	122.00/M	F921C105MPA
35	0.1	±20%	A	0.5	4	10.0	493-2336-1-ND	2.15	18.77	493-2336-2-ND	2,500	84.00/M	F921V104MAA
	.15	±20%	A	0.5	4	10.0	493-2337-1-ND	2.15	18.77	493-2337-2-ND	2,500	84.00/M	F921V154MAA
	.22	±20%	A	0.5	4	10.0	493-2338-1-ND	2.15	18.77	493-2338-2-ND	2,500	84.00/M	F921V224MAA
	.33	±20%	A	0.5	4	10.0	493-2339-1-ND	2.24	19.61	493-2339-2-ND	2,500	88.00/M	F921V334MAA
F97 – High Reliability Series													
6.3	3.3	±20%	A	0.5	6	4.5	493-2407-1-ND	2.15	18.77	493-2407-2-ND	2,000	84.00/M	F970J335MAA
	6.8	±20%	B	0.5	6	2.5	493-2409-1-ND	4.19	36.59	493-2409-2-ND	2,000	164.00/M	F970J685MBA
	22	±20%	C	1.4	6	1.1	493-2406-1-ND	7.61	66.50	493-2406-2-ND	500	159.50	F970J226MCC
	47	±20%	N	3.0	6	0.7	493-2408-1-ND	9.24	80.75	493-2408-2-ND	500	194.00	F970J476MNC
	68	±20%	N	4.3	6	0.6	493-2410-1-ND	8.35	72.96	493-2410-2-ND	500	175.00	F970J686MNC
10	2.2	±20%	A	0.5	6	5.0	493-2412-1-ND	2.15	18.77	493-2412-2-ND	2,000	84.00/M	F971A225MAA
	4.7	±20%	B	0.5	6	2.8	493-2414-1-ND	4.19	36.59	493-2414-2-ND	2,000	164.00/M	F971A475MBA
	15	±20%	C	1.5	6	1.2	493-2411-1-ND	7.61	66.50	493-2411-2-ND	500	159.50	F971A156MCC
	33	±20%	N	3.3	6	0.7	493-2413-1-ND	9.24	80.75	493-2413-2-ND	500	194.00	F971A336MNC
	47	±20%	N	4.7	6	0.7	493-2415-1-ND	8.35	72.96	493-2415-2-ND	500	175.00	F971A476MNC
16	1	±20%	A	0.5	4	7.5	493-2416-1-ND	4.08	35.64	493-2416-2-ND	2,000	159.00/M	F971C105MAA
	1.5	±20%	A	0.5	4	6.3	493-2418-1-ND	2.15	18.77	493-2418-2-ND	2,000	84.00/M	F971C155MAA
	3.3	±20%	B	0.5	6	3.1	493-2420-1-ND	4.19	36.59	493-2420-2-ND	2,000	164.00/M	F971C335MBA
	4.7	±20%	B	0.8	6	2.8	493-2422-1-ND	3.68	32.15	493-2422-2-ND	2,000	144.00/M	F971C475MBA
	10	±20%	C	1.6	6	1.5	493-2417-1-ND	7.61	66.50	493-2417-2-ND	500	159.50	F971C106MCC
	22	±20%	N	3.5	6	0.7	493-2419-1-ND	9.24	80.75	493-2419-2-ND	500	194.00	F971C226MNC
	33	±20%	N	5.3	6	0.7	493-2421-1-ND	8.35	72.96	493-2421-2-ND	500	175.00	F971C336MNC
20	.68	±20%	A	0.5	4	7.6	493-2425-1-ND	4.08	35.64	493-2425-2-ND	2,000	159.00/M	F971D684MAA
	2.2	±20%	B	0.5	6	3.8	493-2424-1-ND	4.19	36.59	493-2424-2-ND	2,000	164.00/M	F971D225MBA
	6.8	±20%	C	1.4	6	1.8	493-2426-1-ND	7.61	66.50	493-2426-2-ND	500	159.50	F971D685MCC
	15	±20%	N	3.0	6	0.7	493-2423-1-ND	9.24	80.75	493-2423-2-ND	500	194.00	F971D156MNC
25	.47	±20%	A	0.5	4	10.0	493-2429-1-ND	4.08	35.64	493-2429-2-ND	2,000	159.00/M	F971E474MAA
	1.5	±20%	B	0.5	4	4.0	493-2428-1-ND	4.19	36.59	493-2428-2-ND	2,000	164.00/M	F971E155MBA
	4.7	±20%	C	1.2	6	1.8	493-2430-1-ND	7.61	66.50	493-2430-2-ND	500	159.50	F971E475MCC
	10	±20%	N	2.5	6	1.0	493-2427-1-ND	9.24	80.75	493-2427-2-ND	500	194.00	F971E106MNC
35	.1	±20%	A	0.5	4	15.0	493-2431-1-ND	4.08	35.64	493-2431-2-ND	2,000	159.00/M	F971V104MAA
	.15	±20%	A	0.5	4	15.0	493-2433-1-ND	4.08	35.64	493-2433-2-ND	2,000	159.00/M	F971V154MAA
	.22	±20%	A	0.5	4	12.0	493-2435-1-ND	4.08	35.64	493-2435-2-ND	2,000	159.00/M	F971V224MAA
	.33	±20%	A	0.5	4	12.0	493-2437-1-ND	4.08	35.64	493-2437-2-ND	2,000	159.00/M	F971V334MAA
	.47	±20%	B	0.5	4	5.0	493-2439-1-ND	4.19	36.59	493-2439-2-ND	2,000	164.00/M	F971V474MBA
	.68	±20%	B	0.5	4	5.0	493-2441-1-ND	4.19	36.59	493-2441-2-ND	2,000	164.00/M	F971V684MBA
	1	±20%	B	0.5	4	4.0	493-2432-1-ND	4.19	36.59	493-2432-2-ND	2,000	164.00/M	F971V105MBA
	1.5	±20%	C	0.5	4	2.0	493-2434-1-ND	5.48	47.88	493-2434-2-ND	750	172.50	F971V155MCMBMA
	2.2	±20%	C	0.8	6	2.0	493-2436-1-ND	6.53	57.00	493-2436-2-ND	500	137.00	F971V225MCC
	3.3	±20%	C	1.2	6	2.0	493-2438-1-ND	7.61	66.50	493-2438-2-ND	500	159.50	F971V335MCC
	4.7	±20%	N	1.6	6	1.0	493-2440-1-ND	8.97	78.39	493-2440-2-ND	500	188.00	F971V475MNC
	6.8	±20%	N	2.4	6	1.0	493-2442-1-ND	9.24	80.75	493-2442-2-ND	500	194.00	F971V685MNC

Panasonic® EF Series Resin Dipped Solid Tantalum Capacitors



Specifications:

- **Operating Temperature Range:** -55°C ~ 105°C (4 to 6.3V, -55°C ~ 85°C)
- **Rated Working Voltage Range:** 6.3 ~ 50 WV DC
- **Rated Capacitance Range:** .1 ~ 330 µF
- **Capacitance Tolerance:** As Specified
- **Leakage Current:** I = 0.008 CV or 0.05 µA whichever is greater; I in µA, C in µF, V in volts
- Leads are not less than 0.394" in length

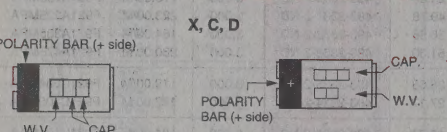
Working Voltage (DC)	Surge Voltage (DC)
6.3	8
10	13
16	20
25	32
35	44
50	63

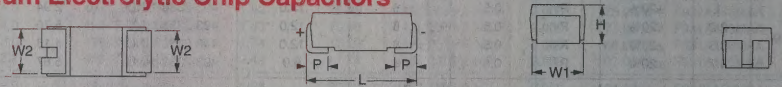
PANASONIC EF CROSS REFERENCES
Sprague: 196D; **Kemet:** T350/T360; **Mepco:** 49GS; **NEC:** DN; **Nichicon:** 599; **Hitachi:** TSD-3; **Matsuo:** 202; **AVX:** Tap.

W.V. (D.C.)	Cap. (µF)	Cap. Tol. (%)	Dimensions (mm) D	L	F	Digi-Key Part No.	Pricing 1	10	100	1,000	5,000	10,000	Panasonic Part No.
6.3	68	±20	5.5	9.5	2.5	P2018-ND	1.87	16.05	125.73	799.00	743.00/M	695.00/M	ECS-F0JE68
	100	±20	6.0	11.0	2.5	P2019-ND	2.85	24.42	191.29	1215.00	1131.00/M	1057.00/M	ECS-F0JE10
	150	±20	7.5	12.5	5.0	P2020-ND	6.46	55.38	433.81	2755.00	2564.00/M	2397.00/M	ECS-F0JE15
10	15	±10	4.5	7.0	2.5	P2027-ND	.81	6.96	54.52	346.00	322.00/M	301.00/M	ECS-F1AE15
	22	±10	4.7	8.0	2.5	P2028-ND	1.08	9.24	72.38	460.00	428.00/M	400.00/M	ECS-F1AE22
	33	±10	5.2	8.5	2.5	P2029-ND	1.30	11.13	87.19	554.00	515.00/M	482.00/M	ECS-F1AE33
	68	±20	6.0	11.0	2.5	P2031-ND	2.85	24.42	191.29	1215.00	1131.00/M	1057.00/M	ECS-F1AE68
	100	±20	7.5	12.5	5.0	P2032-ND	6.46	55.38	433.81	2755.00	2564.00/M	2397.00/M	ECS-F1AE10
16	2.2	±10	3.5	5.5	2.5	P2034-ND*	.49	4.17	32.67	207.00	193.00/M	181.00/M	ECS-F1CE22
	4.7	±10	3.7	6.5	2.5	P2036-ND*	.59	5.04	39.48	251.00	233.00/M	218.00/M	ECS-F1CE47
	6.8	±10	4.0	7.0	2.5	P2037-ND*	.70	6.03	47.24	300.00	279.00/M	261.00/M	ECS-F1CE68
	10	±10	4.5	7.0	2.5	P2038-ND*	.99	8.46	66.27	421.00	392.00/M	366.00/M	ECS-F1CE10
	15	±10	4.7	8.0	2.5	P2039-ND*	1.14	9.75	76.38	485.00	451.00/M	422.00/M	ECS-F1CE15
	33	±10	5.5	9.5	2.5	P2041-ND	1.85	15.87	124.32	790.00	735.00/M	687.00/M	ECS-F1CE33
	47	±20	6.0	11.0	2.5	P2042-ND	2.85	24.42	191.29	1215.00	1131.00/M	1057.00/M	ECS-F1CE47
	68	±20	7.5	12.5	5.0	P2043-ND	6.46	55.38	433.81	2755.00	2564.00/M	2397.00/M	ECS-F1CE68
25	2.2	±10	3.5	5.5	2.5	P2045-ND	.54	4.62	36.19	230.00	214.00/M	200.00/M	ECS-F1EE22
	4.7	±10	4.0	7.0	2.5	P2047-ND	.83	7.11	55.70	354.00	329.00/M	308.00/M	ECS-F1EE47
	10	±10	5.2	8.5	2.5	P2049-ND	1.61	13.83	108.34	688.00	640.00/M	599.00/M	ECS-F1EE10
	33	±20	7.5	12.5	5.0	P2052-ND	3.92	33.60	263.20	1672.00	1556.00/M	1455.00/M	ECS-F1EE33
35	0.1	±20	3.3	5.0	2.5	P2053-ND*	.39	3.33	26.09	166.00	154.00/M	144.00/M	ECS-F1VE10
	0.15	±20	3.3	5.0	2.5	P2054-ND*	.39	3.33	26.09	166.00	154.00/M	144.00/M	ECS-F1VE15
	1.0	±10	3.5	5.5	2.5	P2059-ND*	.56	4.83	37.84	240.00	224.00/M	209.00/M	ECS-F1VE10
	1.5	±10	3.5	5.5	2.5	P2060-ND	.54	4.62	36.19	230.00	214.00/M	200.00/M	ECS-F1VE15
	10	±10	5.5	9.5	2.5	P2065-ND	1.86	15.90	124.55	791.00	736.00/M	688.00/M	ECS-F1VE10
	22	±20	7.5	12.5	5.0	P2101-ND	4.02	34.44	269.78	1713.00	1594.00/M	1491.00/M	ECS-F1VE22
50	0.15	±20	3.3	5.0	2.5	P2068-ND	.43	3.66	28.67	182.00	169.00/M	158.00/M	ECS-F1HE15
	0.33	±20	3.5	5.5	2.5	P2070-ND	.47	4.02	31.49	200.00	186.00/M	174.00/M	ECS-F1HE33
	0.47	±20	3.7	6.5	2.5	P2071-ND	.51	4.38	34.31	218.00	203.00/M	190.00/M	ECS-F1HE47
	0.68	±20	3.7	6.5	2.5	P2072-ND	.63	5.40	42.30	269.00	250.00/M	234.00/M	ECS-F1HE68
	1.0	±10	4.0	7.0	2.5	P2073-ND	.78	6.72	52.64	334.00	311.00/M	291.00/M	ECS-F1HE10
	1.5	±10	4.5	7.0	2.5	P2074-ND	1.31	11.25	88.13	560.00	521.00/M	487.00/M	ECS-F1HE15
	4.7	±10	5.5	9.5	2.5	P2077-ND	3.05	26.13	204.69	1300.00	1210.00/M	1131.00/M	ECS-F1HE47

* Included in F-KIT-ND.

Panasonic® TE Series Tantalum Electrolytic Chip Capacitors





Dimensions (mm)

EIA Size	Size Code	L ± 0.2	W_1 ± 0.2	W_2 ± 0.1	H ± 0.2	P ± 0.3
A	Y	3.2	1.6	1.2	1.6	0.8
B	X	3.5	2.8	2.2	1.9	0.8
C	C	6.0	3.2	2.2	2.5	1.3
D	D	7.3	4.3	2.4	2.8	1.3

Packing Quantity	Size Y, X	2,000 pieces/reel
	Size C, D	750 pieces/reel

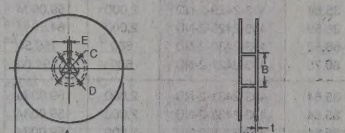
Features: • Wide capacitance range • High performance in temperature and frequency characteristics • Excellent solderability • Excellent terminal construction against bending of P.W.B • Low inductance structure.

Specifications: • **Operating Temperature Range:** -55 to 125°C • **Capacitance Tolerance:** ±20% at 120Hz, 20°C • **DC Leakage Current:** I = 0.01CV or 0.5µA maximum whichever is greater. DC leakage current shall be measured after 2 minutes application or rated working voltage at 20°C • **tan ∂:** ≤3.3µF ~ 0.04 maximum; 4.7 ~ 68µF ~ 0.06 maximum; 100µF ~ 0.08 maximum • **Solder Heat Resistance:** The capacitor shall withstand dipping into solder bath for 5 ±1 seconds at 260 ±5°C • **Moisture Resistance:** Capacitor shall be tested for 500 hours at 40°C and 90-95% R.H. without load. After the test, capacitor shall meet the following limits.

Capacitance Change	± 10% of the initial measured value.
DC Leakage	≤ Current initial specified value.
tan ∂	≤ Initial specified value.

• **Endurance:** After 2000 hours application of DC rated working voltage at 85°C, or derated voltage at +125°C, the capacitor shall meet the following limits.

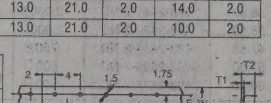
Capacitance Change	± 10% of the initial measured value.
DC Leakage	≤ 125% of the current initial specified value.
tan ∂	≤ Initial specified value.



Dimensions (mm)

	∂A ±2	∂B Min.	C ±0.5	D ±0.8	E ±0.5	W ±1.5	t ±0.5
12mm tape	178	50	13.0	21.0	2.0	14.0	2.0
8mm tape	178	50	13.0	21.0	2.0	10.0	2.0

Size Code	W ± 0.3	P ± 0.1	T_1 ± 0.2	F ± 0.1	T_2	ØD ± 0.1
Y X	8.0	4.0	1.9 2.1	3.5	0.2	1.1
C D	12.0	8.0	3.0 3.3	5.5	0.3	1.6



W.V. (D.C.)	Cap. (µF)	EIA Size	Size Code	Digi-Key Part No.	Cut Tape Price Each 10	100	500	Digi-Key Part No.	Tape & Reel Size	Pricing	Panasonic Part No.
6.3	3.3	A	Y	PCS1335CT-ND	.22	.19	.15	PCS1335TR-ND	2,000	85.00/M	ECS-T0JY33
	10	A	Y	PCS1106CT-ND	.23	.20	.16	PCS1106TR-ND	2,000	90.00/M	ECS-T0JY10
	15	A	Y	P11303CT-ND	.24	.21	.17	P11303TR-ND	2,000	93.00/M	ECS-T0JY15
	22	A	Y	P11304CT-ND	.26	.23	.18	P11304TR-ND	2,000	102.00/M	ECS-T0JY22
	22	B	X	PCS1226CT-ND	.30	.27	.21	PCS1226TR-ND	2,000	118.00/M	ECS-T0JX22
	47	B	X	P11305CT-ND	.39	.34	.27	P11305TR-ND	2,000	153.00/M	ECS-T0JX47
	68	D	D	PCS1686CT-ND	.90	.79	.62	—	—	—	ECS-T0JD68
	100	D	D	P11307CT-ND	.96	.84	.66	P11307TR-ND	750	299.25	ECS-T0JD10
	220	D	D	P11308CT-ND	1.12	.98	.77	P11308TR-ND	750	351.00	ECS-T0JD22
10	2.2	A	Y	PCS2225CT-ND	.22	.19	.15	PCS2225TR-ND	2,000	85.00/M	ECS-T1AY22
	4.7	A	Y	PCS2475CT-ND	.23	.20	.16	PCS2475TR-ND	2,000	88.00/M	ECS-T1AY47
	10	A	Y	P11309CT-ND	.24	.21	.17	P11309TR-ND	2,000	93.00/M	ECS-T1AY10
	10	B	X	PCS2106CT-ND	.28	.25	.20	PCS2106TR-ND	2,000	110.00/M	ECS-T1AX10
	15	B	X	PCS2156CT-ND	.30	.27	.21	—	—	—	ECS-T1AX15
	22	C	C	PCS2226CT-ND	.59	.52	.41	PCS2226TR-ND	750	185.25	ECS-T1AC22
	33	B	X	P11311CT-ND	.39	.34	.27	P11311TR-ND	2,000	153.00/M	ECS-T1AX33
	33	D	D	PCS2336CT-ND	.84	.74	.58	PCS2336TR-ND	750	263.25	ECS-T1AD33
	47	C	C	P11312CT-ND	.63	.55	.44	P11312TR-ND	750	197.25	ECS-T1AC47
	47	D	D	PCS2476CT-ND	.85	.75	.59	PCS2476TR-ND	750	267.75	ECS-T1AD47
	100	D	D	P11313CT-ND	1.01	.88	.70	P11313TR-ND	750	315.00	ECS-T1AD10
	150	D	D	P11314CT-ND	1.12	.98	.77	P11314TR-ND	750	351.00	ECS-T1AD15
16	0.68	A	Y	PCS3684CT-ND	.22	.19	.15	—	—	—	ECS-T1CY68
	1.0	A	Y	PCS3105CT-ND	.22	.19	.15	PCS3105TR-ND	2,000	85.00/M	ECS-T1CY10
	2.2	A	Y	PCS3225CT-ND	.22	.19	.15	PCS3225TR-ND	2,000	85.00/M	ECS-T1CY22
	3.3	A	Y	PCS3335CT-ND	.23	.20	.16	—	—	—	ECS-T1CY33
	4.7	A	Y	PCS3475CT-ND	.23	.20	.16	PCS3475TR-ND	2,000	90.00/M	ECS-T1CY47
	6.8	A	Y	P11315CT-ND	.24	.21	.17	P11315TR-ND	2,000	93.00/M	ECS-T1CY68
	6.8	B	X	PCS3685CT-ND	.28	.25	.20	PCS3685TR-ND	2,000	110.00/M	ECS-T1CX68
	10	B	X	PCS3106CT-ND	.30	.26	.21	PCS3106TR-ND	2,000	115.00/M	ECS-T1CX10
	22	C	C	P11317CT-ND	.63	.55	.43	P11317TR-ND	750	195.75	ECS-T1CC22
	33	D	D	PCS3336CT-ND	.90	.79	.62	PCS3336TR-ND	750	281.25	ECS-T1CD33
20	0.68	A	Y	PCS4684CT-ND	.22	.19	.15	PCS4684TR-ND	2,000	85.00/M	ECS-T1DY68
	3.3	A	Y	P11321CT-ND	.23	.20	.16	—	—	—	ECS-T1DY33
	3.3	B	X	PCS4335CT-ND	.28	.25	.20	PCS4335TR-ND	2,000	110.00/M	ECS-T1DX33
	4.7	B	X	PCS4475CT-ND	.28	.25	.20	PCS4475TR-ND	2,000	110.00/M	ECS-T1DX47
	6.8	C	C	PCS4685CT-ND	.55	.48	.38	—	—	—	ECS-T1DC68
	10	C	C	PCS4106CT-ND	.59	.52	.41	PCS4106TR-ND	750	185.25	ECS-T1DC10
	15	C	C	P11325CT-ND	.63	.55	.43	—	—	—	ECS-T1DC15
	15	D	D	PCS4156CT-ND	.84	.74	.58	PCS4156TR-ND	750	263.25	ECS-T1DD15
	22	C	C	P11326CT-ND	.63	.55	.44	P11326TR-ND	750	197.25	ECS-T1DC22
25	1.0	A	Y	PCS5105CT-ND	.22	.19	.15	PCS5105TR-ND	2,000	85.00/M	ECS-T1EY10
	1.5	B	X	PCS5155CT-ND	.30	.26	.21	—	—	—	ECS-T1EX15
	2.2	B	X	PCS5225CT-ND	.30	.26	.21	PCS5225TR-ND	2,000	115.00/M	ECS-T1EX22
	3.3	B	X	PCS5335CT-ND	.30	.27	.21	PCS5335TR-ND	2,000	118.00/M	ECS-T1EX33
	4.7	B	X	P11330CT-ND	.31	.27	.21	P11330TR-ND	2,000	120.00/M	ECS-T1EX47
	4.7	C	C	PCS5475CT-ND	.56	.49	.39	PCS5475TR-ND	750	175.50	ECS-T1EC47
	6.8	C	C	PCS5685CT-ND	.61	.53	.42	PCS5685TR-ND	750	189.75	ECS-T1EC68
	10	C	C	P11331CT-ND	.63	.55	.43	P11331TR-ND	750	195.75	ECS-T1EC10
	15	D	D	PCS5156CT-ND	.93	.81	.64	PCS5156TR-ND	750	291.00	ECS-T1ED15
	22	D	D	PCS5226CT-ND	.93	.81	.64	PCS5226TR-ND	750	291.00	ECS-T1ED22
35	.1	A	Y	PCS6104CT-ND	.25	.22	.17	PCS6104TR-ND	2,000	95.00/M	ECS-T1VY10
	.15	A	Y	PCS6154CT-ND	.25	.22	.17	PCS6154TR-ND	2,000	95.00/M	ECS-T1VY15
	.22	A	Y	PCS6224CT-ND	.25	.22	.17	PCS6224TR-ND	2,000	95.00/M	ECS-T1VY22
	.33	A	Y	PCS6334CT-ND	.25	.22	.17	PCS6334TR-ND	2,000	95.00/M	ECS-T1VY33
	.68	A	Y	PCS6684CT-ND	.22	.19	.15	PCS6684TR-ND	2,000	85.00/M	ECS-T1VY68
	1.0	B	X	PCS6105CT-ND	.28	.25	.20	PCS6105TR-ND	2,000	110.00/M	ECS-T1VX10
	3.3	B	X	P11333CT-ND	.31	.27	.21	P11333TR-ND	2,000	120.00/M	ECS-T1VX33
	3.3	C	C	PCS6335CT-ND	.56	.49	.39	PCS6335TR-ND	750	175.50	ECS-T1VC33
	6.8	C	C	P11334CT-ND	.63	.55	.43	P11334TR-ND	750	195.75	ECS-T1VC68
	10	D	D	PCS6106CT-ND	.93	.81	.64	PCS6106TR-ND	750	291.00	ECS-T1VD10

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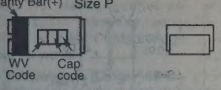
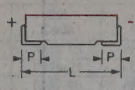
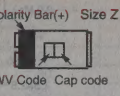
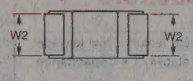
Panasonic TES Series Tantalum Electrolytic Chip Capacitors









Characteristics at High and Low Temperature:

Size Code	L ± 0.2	W1 ± 0.2	H max.	P	W2 ± 0.1
Z	2.0	1.25	1.2	0.5 ± 0.2	0.9
P	3.2	1.6	1.2	0.8 ± 0.3	1.2

tures:
ra miniature sizes
w profile 1.2mm maximum height

cifications:
perating Temperature Range: -55°C 25°C • **Rated Working Voltage** nge: 2.5 ~ 20VDC • **Nominal** acitance Range: 0.1 ~ 4.7 µF • **Cap-** ance Tolerance: ±20% (120Hz, 20°) akage Current: I ≤ 0.01CV or 0.5 whichever is greater measured after inutes application of rated working age at 20°C • **tan ∂:** 0.04 maximum ≤ 3.3µF, 0.08 maximum for 2.5W.V., max. for Z size

W.V. (D.C.)	Cap. (µF)	Size Code	Digi-Key Part No.	Cut Tape Price Each 10	100	500	Digi-Key Part No.	Tape & Reel Pricing 3,000	6,000	Panasonic Part No.
4	2.2	Z	PCS0255CCT-ND	.33	.29	.23	—	—	—	ECS-T0GZ225R
	2.2	P	PCS0255BCT-ND	.74	.65	.51	PCS0255BTR-ND	292.00/M	275.00/M	ECS-T0GP225R
	3.3	P	PCS0335BCT-ND	.74	.65	.51	—	—	—	ECS-T0GP335R
6.3	1.5	Z	PCS1155CCT-ND	.33	.29	.23	—	—	—	ECS-T0JZ155R
	2.2	P	PCS1225BCT-ND	.74	.65	.51	PCS1225BTR-ND	292.00/M	275.00/M	ECS-T0JP225R
	10	Z	P11337CT-ND	.77	.68	.54	P11337TR-ND	304.00/M	287.00/M	ECS-T0JZ106R
10	1.0	Z	PCS2105CCT-ND	.33	.29	.23	PCS2105CTR-ND	130.00/M	123.00/M	ECS-T1AZ105R
	4.7	Z	P11340CT-ND	.75	.66	.52	P11340TR-ND	296.00/M	279.00/M	ECS-T1AZ475R
16	0.68	P	PCS3684BCT-ND	.74	.65	.51	—	—	—	ECS-T1CP684R
	0.68	Z	PCS3684CCT-ND	.35	.30	.24	PCS3684CTR-ND	135.00/M	127.00/M	ECS-T1CZ684R
	1.0	P	PCS3105BCT-ND	.84	.74	.58	PCS3105BTR-ND	331.00/M	313.00/M	ECS-T1CP105R
20	0.15	P	PCS4154BCT-ND	.74	.65	.51	PCS4154BTR-ND	292.00/M	275.00/M	ECS-T1DP154R
	0.33	P	PCS4334BCT-ND	.74	.65	.51	—	—	—	ECS-T1DP334R
	0.68	P	PCS4684BCT-ND	.74	.65	.51	—	—	—	ECS-T1DP684R

Panasonic TEL Series

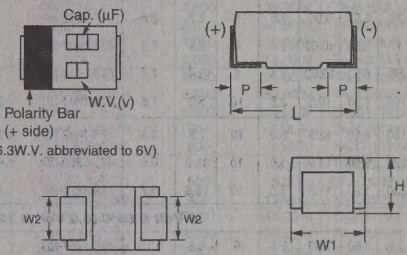
tures: • Low ESR **Specifications:** • **Category Temperature nge:** -55°C ~ 125°C • **Capacitance Tolerance:** ± 20% 0Hz/+20°C) • **DC Leakage Current:** I<0.01CV or 0.5(µA) after 2 utes application of rated working voltage at 20°C. (Whichever is greater). • **Resistance to Soldering Heat:** The capacitor shall stand dipping into solder for 5±1 seconds at +260±5°C • **Endur-ce:** After 2000 hours application of rated DC working voltage at C or derated voltage at 125°C, the capacitor shall meet the wing limits.

apacitance Change	± 10% of the Initial Measured Value
F.	< Initial Specified Value
C Leakage Current	< 125% of Initial Specified Value

EIA Code	Size Code	L±0.2	W1±0.2	W2±0.1	H±0.2	P±0.3
6032	C	6.0	3.2	2.2	2.5	1.3
7343	D	7.3	4.3	2.4	2.8	1.3

Moisture Resistance:
After 500 hours exposure at 40°C and 90 to 95% R.H. without load, the capacitor shall meet the following limits.

Capacitance Change	± 10% of the Initial Measured Value
D.F.	< Initial Specified Value
DC Leakage Current	< Initial Specified Value

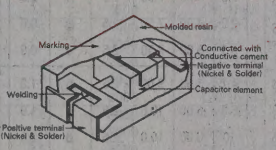


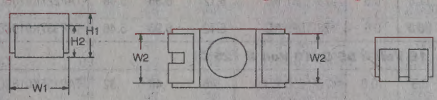
.V. C.)	Cap. (µF)	Size Code	D.F. (120Hz) (20°C)	L.C. (µA)	ESR (100kHz) (ohms)	Ripple Cur. (100kHz) (20°C) (mA)	Digi-Key Part No.	Cut Tape Price Each 10	100	500	Digi-Key Part No.	Tape & Reel Pricing 750	1,500	Panasonic Part No.
.3	150	D	0.08	9.5	0.1	1225	P11285CT-ND	1.69	1.48	1.17	P11285TR-ND	531.00	686.00/M	EEJ-L0JD157R
0	100	D	0.08	10	0.1	1225	P11288CT-ND	1.69	1.48	1.17	P11288TR-ND	531.00	686.00/M	EEJ-L1AD107R
	150	D	0.10	15	0.1	1225	P11289CT-ND	1.89	1.65	1.30	—	—	—	EEJ-L1AD157R
6	33	C	0.06	5.3	0.4	524	P11290CT-ND	1.06	.93	.73	P11290TR-ND	333.00	430.00/M	EEJ-L1CC336R
	47	D	0.06	7.6	0.15	1000	P11291CT-ND	1.61	1.41	1.11	P11291TR-ND	505.50	653.00/M	EEJ-L1CD476R
0	10	C	0.06	2	0.45	494	P11292CT-ND	1.00	.88	.69	P11292TR-ND	313.50	405.00/M	EEJ-L1DC106R
	33	D	0.06	6.6	0.2	866	P11294CT-ND	1.61	1.41	1.11	—	—	—	EEJ-L1DD336R
5	22	D	0.06	5.5	0.2	866	P11297CT-ND	1.56	1.37	1.08	P11297TR-ND	489.75	633.00/M	EEJ-L1ED226R
	33	D	0.08	8.3	0.2	866	P11298CT-ND	1.69	1.48	1.17	P11298TR-ND	531.00	686.00/M	EEJ-L1ED336R
	6.8	C	0.06	2.4	0.6	428	P11299CT-ND	1.05	.92	.72	P11299TR-ND	328.50	425.00/M	EEJ-L1VC685R
5	10	D	0.06	3.5	0.3	707	P11300CT-ND	1.56	1.37	1.08	P11300TR-ND	489.75	633.00/M	EEJ-L1VD106R
	22	D	0.08	7.7	0.3	866	P11302CT-ND	1.69	1.48	1.17	P11302TR-ND	531.00	686.00/M	EEJ-L1VD226R

Panasonic TEH Series Resin Molded Chip Tantalum Electrolytic Capacitors

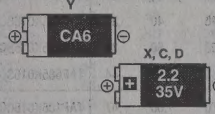
cifications: • **Operating Temperature Range:** -55 ~ 125°C **ated Working Voltage Range:** 6.3 ~ 35V • **Rated acitance Range:** .1µF ~ 68µF • **Capacitance Tolerance:** % at 120Hz, 20°C • **DC Leakage Current:** I = 0.01CV or A maximum, whichever is greater. DC leakage current shall easured after 2 minutes application or rated working voltage 0°C. • **tan ∂:** less than 3.3µF — 0.04 maximum; 4.7 ~ 68µF .06 maximum • **Stability at Low and High Temperature**

pacitance Change	Within ±10% of the initial measured value.
C Leakage rrent	Less than 125% of the initial specified value.
n δ	Less than initial specified value.





PANASONIC TE CROSS REFERENCES
Sprague: 293D; **Kemet:** T491; **Mepco:** 49MC; **NEC:** SV; **Nichicon:** F93; **Hitachi:** TMC; **Matsuo:** 267.



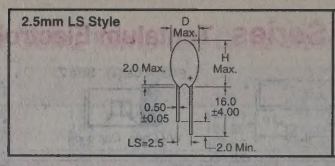
Dimensions (mm)

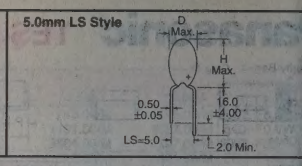
EIA Size	Size Code	L ±0.2	W_1 ±0.2	W_2 ±0.1	H_1 ±0.2	H_2 Typ.	P ±0.3
A	Y	3.2	1.6	1.2	1.6	1.0	0.8
B	X	3.5	2.8	2.2	1.9	1.2	0.8
C	C	6.0	3.2	2.2	2.5	1.5	1.3
D	D	7.3	4.3	2.4	2.8	1.6	1.3

.V. .C.)	Cap. (µF)	EIA Size	Size Code	Digi-Key Part No.	Cut Tape Pricing 10	100	Digi-Key Part No.	Tape & Reel Pricing 750	1,500	2,000	4,000	6,000	Panasonic Part No.
.3	3.3	A	Y	PCT1335CT-ND	2.41	21.05	PCT1335TR-ND	—	—	95.00/M	91.00/M	90.00/M	ECS-H0JY335R
	6.8	B	X	PCT1685CT-ND	2.91	25.46	—	—	—	—	—	—	ECS-H0JX685R
	15	C	C	PCT1156CT-ND	6.02	52.59	—	—	—	—	—	—	ECS-H0JC156R
	68	D	D	PCT1686CT-ND	9.83	85.84	PCT1686TR-ND	309.00	400.00/M	—	—	366.00/M	ECS-H0JD686R
	2.2	A	Y	PCT2225CT-ND	2.41	21.05	—	—	—	—	—	—	ECS-H1AY225R
	4.7	B	X	PCT2475CT-ND	2.91	25.46	PCT2475TR-ND	—	—	115.00/M	110.00/M	109.00/M	ECS-H1AX475R
10	10	C	C	PCT2106CT-ND	6.02	52.59	PCT2106TR-ND	189.75	245.00/M	—	—	224.00/M	ECS-H1AC106R
	15	C	C	PCT2156CT-ND	6.02	52.59	PCT2156TR-ND	189.75	245.00/M	—	—	224.00/M	ECS-H1AC156R
	47	D	D	PCT2476CT-ND	9.38	81.97	PCT2476TR-ND	295.50	382.00/M	—	—	349.00/M	ECS-H1AD476R
	0.68	A	Y	PCT3684CT-ND	2.41	21.05	—	—	—	—	—	—	ECS-H1CY684R
	1.0	A	Y	PCT3105CT-ND	2.41	21.05	PCT3105TR-ND	—	—	95.00/M	91.00/M	90.00/M	ECS-H1CY105R
	2.2	B	X	PCT3225CT-ND	2.91	25.46	PCT3225TR-ND	—	—	115.00/M	110.00/M	109.00/M	ECS-H1CX225R
16	6.8	C	C	PCT3685CT-ND	6.02	52.59	—	—	—	—	—	—	ECS-H1CC685R
	10	C	C	PCT3106CT-ND	6.02	52.59	PCT3106TR-ND	189.75	245.00/M	—	—	224.00/M	ECS-H1CC106R
	33	D	D	PCT3336CT-ND	9.83	85.84	PCT3336TR-ND	309.00	400.00/M	—	—	366.00/M	ECS-H1CD336R
	0.68	A	Y	PCT4684CT-ND	2.41	21.05	PCT4684TR-ND	—	—	95.00/M	91.00/M	90.00/M	ECS-H1DY684R
	4.7	C	C	PCT4475CT-ND	6.02	52.59	—	—	—	—	—	—	ECS-H1DC475R
20	6.8	C	C	PCT4685CT-ND	6.02	52.59	—	—	—	—	—	—	ECS-H1DC685R
	15	D	D	PCT4156CT-ND	8.81	76.95	—	—	—	—	—	—	ECS-H1DD156R
25	1.5	B	X	PCT5155CT-ND	3.11	27.13	PCT5155TR-ND	—	—	123.00/M	117.00/M	116.00/M	ECS-H1EX155R
	10	D	D	PCT5106CT-ND	8.75	76.42	PCT5106TR-ND	275.25	356.00/M	—	—	326.00/M	ECS-H1ED106R
	.15	A	Y	PCT6154CT-ND	2.41	21.05	—	—	—	—	—	—	ECS-H1VY154R
	.22	A	Y	PCT6224CT-ND	2.41	21.05	PCT6224TR-ND	—	—	95.00/M	91.00/M	90.00/M	ECS-H1VY224R
	.33	A	Y	PCT6334CT-ND	2.41	21.05	PCT6334TR-ND	—	—	95.00/M	91.00/M	90.00/M	ECS-H1VY334R
35	.47	B	X	PCT6474CT-ND	3.11	27.13	PCT6474TR-ND	—	—	123.00/M	117.00/M	116.00/M	ECS-H1VX474R
	1.0	B	X	PCT6105CT-ND	3.11	27.13	PCT6105TR-ND	—	—	123.00/M	117.00/M	116.00/M	ECS-H1VX105R
	1.5	C	C	PCT6155CT-ND	6.15	53.69	—	—	—	—	—	—	ECS-H1VC155R
	3.3	D	D	PCT6335CT-ND	8.75	76.42	—	—	—	—	—	—	ECS-H1VD335R

AVX TAP Series
Dipped Radial Tantalum Capacitors

TAP is a professional grade device manufactured with a flame retardant coating and featuring low leakage current and impedance, very small physical sizes and exceptional temperature stability. • **Capacitance Tolerance:** 10% • **Temperature Range:** -55°C to +125°C





Cap. (µF)	Dimensions (mm) D	H	LS	DF % Max.	DCL (µA) Max.	ESR Max. (Ω)@ 100kHz	Digi-Key Part No.	Price Each 1	10	100	AVX Part No.
6.3 Volt @ 85°C (4 Volt @ 125°C)											
3.3	4.50	7.00	2.5	6	0.5	13.0	478-1885-ND	.46	.40	.32	TAP335K006SCS
4.7	4.50	7.00	2.5	6	0.5	10.0	478-1902-ND	.46	.40	.32	TAP475K006SCS
6.8	4.50	7.00	2.5	6	0.5	8.0	478-1917-ND	.46	.40	.32	TAP685K006SCS
10	4.50	7.50	2.5	8	0.5	6.0	478-1837-ND	.58	.50	.39	TAP106K006SCS
15	5.00	8.50	2.5	8	0.8	5.0	478-1855-ND	.65	.56	.44	TAP156K006SCS
22	5.00	9.00	2.5	8	1.1	3.7	478-1873-ND	.65	.56	.44	TAP226K006SCS
33	5.50	9.00	2.5	8	1.7	3.0	478-1892-ND	.93	.80	.63	TAP336K006SCS
47	6.00	10.00	2.5	8	2.4	2.0	478-1909-ND	.91	.78	.62	TAP476K006SCS
68	6.50	10.00	2.5	8	3.4	1.8	478-1924-ND	1.09	.93	.73	TAP686K006SCS
100	7.00	10.5	2.5	10	5.0	1.6	478-1844-ND	2.59	2.22	1.74	TAP107K006SCS
150	8.50	12.5	5.0	10	7.6	0.9	478-1862-ND	3.26	2.79	2.19	TAP157K006CCS
220	9.00	13.0	5.0	10	11.0	0.9	478-1880-ND	6.51	5.58	4.38	TAP227K006CCS
330	10.0	17.0	5.0	10	16.6	0.7	478-1898-ND	8.12	6.96	5.46	TAP337K006CCS
10 Volt @ 85°C (6.3 Volt @ 125°C)											
2.2	4.50	7.00	2.5	6	0.5	13.0	478-1867-ND	.46	.40	.32	TAP225K010SCS
3.3	4.50	7.00	2.5	6	0.5	10.0	478-1886-ND	.46	.40	.32	TAP335K010SCS
4.7	4.50	7.00	2.5	6	0.5	8.0	478-1903-ND	.46	.40	.32	TAP475K010SCS
6.8	4.50	7.50	2.5	6	0.5	6.0	478-1918-ND	.58	.50	.39	TAP685K010SCS
10	5.00	8.50	2.5	8	0.8	5.0	478-1838-ND	.65	.56	.44	TAP106K010SCS
15	5.00	9.00	2.5	8	1.2	3.7	478-1856-ND	.65	.56	.44	TAP156K010SCS
22	5.50	9.00	2.5	8	1.7	2.7	478-1874-ND	.93	.80	.63	TAP226K010SCS
33	6.00	10.0	2.5	8	2.6	2.1	478-1893-ND	.95	.81	.64	TAP336K010SCS
47	6.50	10.0	2.5	8	3.7	1.7	478-1910-ND	1.79	1.53	1.20	TAP476K010SCS
68	7.00	10.5	2.5	8	5.4	1.3	478-1925-ND	2.59	2.22	1.74	TAP686K010SCS
100	8.50	12.5	2.5	10	8.0	1.0	478-1845-ND	3.26	2.79	2.19	TAP107K010SCS
150	9.00	16.0	5.0	10	12.0	0.8	478-1863-ND	6.51	5.58	4.38	TAP157K010CCS
220	10.0	17.0	5.0	10	17.6	0.6	478-1881-ND	8.12	6.96	5.46	TAP227K010CCS
330	10.0	18.5	5.0	10	20.0	0.5	478-1899-ND	8.12	6.96	5.46	TAP337K010CCS
16 Volt @ 85°C (10 Volt @ 125°C)											
1.5	4.50	7.00	2.5	4	0.5	10.0	478-1850-ND	.46	.40	.32	TAP155K016SCS
2.2	4.50	7.00	2.5	6	0.5	8.0	478-1868-ND	.46	.40	.32	TAP225K016SCS
3.3	4.50	7.00	2.5	6	0.5	6.0	478-1887-ND	.46	.40	.32	TAP335K016SCS
4.7	4.50	7.50	2.5	6	0.6	5.0	478-1904-ND	.58	.50	.39	TAP475K016SCS
6.8	5.00	8.50	2.5	6	0.8	4.0	478-1919-ND	.65	.56	.44	TAP685K016SCS
10	5.00	9.00	5.0	8	1.2	3.2	478-1839-ND	.70	.60	.47	TAP106K016CCS
15	5.50	9.00	2.5	8	1.9	2.5	478-1857-ND	.93	.80	.63	TAP156K016SCS
22	6.00	10.0	2.5	8	2.8	2.0	478-1875-ND	.93	.80	.63	TAP226K016SCS
33	6.00	10.0	2.5	8	4.2	1.6	478-1894-ND	1.75	1.50	1.18	TAP336K016SCS
47	8.00	11.5	2.5	8	6.0	1.3	478-1911-ND	2.75	2.36	1.85	TAP476K016SCS
68	9.00	12.5	2.5	8	8.7	1.0	478-1926-ND	3.33	2.85	2.24	TAP686K016SCS
100	9.00	16.0	5.0	10	12.8	0.8	478-1846-ND	7.00	6.00	4.70	TAP107K016CCS
150	9.00	16.0	5.0	10	19.2	0.6	478-1864-ND	8.05	6.90	5.41	TAP157K016CCS
220	10.0	18.5	5.0	10	20.0	0.5	478-1882-ND	9.91	8.49	6.66	TAP227K016CCS
20 Volt @ 85°C (13 Volt @ 125°C)											
1.0	4.50	7.00	2.5	4	0.5	10.0	478-1833-ND	.46	.40	.32	TAP105K020SCS
1.5	4.50	7.00	2.5	4	0.5	9.0	478-1851-ND	.46	.40	.32	TAP155K020SCS
2.2	4.50	7.00	2.5	6	0.5	7.0	478-1869-ND	.46	.40	.32	TAP225K020SCS
3.3	4.50	7.50	2.5	6	0.5	5.5	478-1888-ND	.58	.50	.39	TAP335K020SCS
4.7	5.00	8.50	2.5	6	0.7	4.5	478-1905-ND	.65	.56	.44	TAP475K020SCS
6.8	5.00	9.00	2.5	6	1.0	3.6	478-1920-ND	.65	.56	.44	TAP685K020SCS
10	5.50	9.00	2.5	8	1.6	2.9	478-1840-ND	.88	.75	.59	TAP106K020SCS
15	6.00	10.0	2.5	8	2.4	2.3	478-1858-ND	.95	.81	.64	TAP156K020SCS
22	7.00	10.5	2.5	8	3.5	1.8	478-1876-ND	1.75	1.50	1.18	TAP226K020SCS
33	8.00	11.5	2.5	8	5.2	1.4	478-1895-ND	2.52	2.16	1.70	TAP336K020SCS
47	8.50	12.5	2.5	8	7.5	1.2	478-1912-ND	3.12	2.67	2.10	TAP476K020SCS
68	9.00	16.0	5.0	8	10.8	0.9	478-1927-ND	7.07	6.06	4.75	TAP686K020CCS
100	9.00	16.0	5.0	10	16.0	0.6	478-1847-ND	8.09	6.93	5.43	TAP107K020CCS
25 Volt @ 85°C (16 Volt @ 125°C)											
1.0	4.50	7.00	2.5	4	0.5	10.0	478-1834-ND	.46	.40	.32	TAP105K025SCS
1.5	4.50	7.00	2.5	4	0.5	8.0	478-1852-ND	.46	.40	.32	TAP155K025SCS
2.2	4.50	7.00	2.5	6	0.5	6.0	478-1870-ND	.46	.40	.32	TAP225K025SCS
3.3	4.50	7.50	2.5	6	0.6	5.0	478-1889-ND	.58	.50	.39	TAP335K025SCS
4.7	5.00	8.50	2.5	6	0.9	4.0	478-1906-ND	.65	.56	.44	TAP475K025SCS
6.8	5.00	9.00	2.5	6	1.3	3.1	478-1921-ND	.65	.56	.44	TAP685K025SCS
10	5.50	9.00	2.5	8	2.0	2.5	478-1841-ND	.93	.80	.63	TAP106K025SCS
15	6.00	10.00	2.5	8	3.0	2.0	478-1859-ND	1.98	1.70	1.33	TAP156K025SCS
22	7.00	10.5	2.5	8	4.4	1.5	478-1877-ND	2.59	2.22	1.74	TAP226K025SCS
33	8.00	11.5	2.5	8	6.6	1.2	478-1896-ND	3.27	2.81	2.20	TAP336K025SCS
47	9.00	13.0	2.5	8	9.4	1.0	478-1913-ND	5.01	4.29	3.37	TAP476K025SCS
68	9.00	16.0	5.0	8	13.6	0.8	478-1928-ND	8.12	6.96	5.46	TAP686K025CCS
35 Volt @ 85°C (23 Volt @ 125°C)											
0.1	4.50	7.00	2.5	4	0.5	26.0	478-1831-ND	.46	.40	.32	TAP104K035SCS
0.15	4.50	7.00	2.5	4	0.5	21.0	478-1848-ND	.46	.40	.32	TAP154K035SCS
0.22	4.50	7.00	2.5	4	0.5	17.0	478-1865-ND	.46	.40	.32	TAP224K035SCS
0.33	4.50	7.00	2.5	4	0.5	15.0	478-1883-ND	.46	.40	.32	TAP334K035SCS
0.47	4.50	7.00	2.5	4	0.5	13.0	478-1900-ND	.46	.40	.32	TAP474K035SCS
0.68	4.50	7.00	2.5	4	0.5	10.0	478-1915-ND	.46	.40	.32	TAP684K035SCS
1.0	4.50	7.00	2.5	4	0.5	8.0	478-1835-ND	.46	.40	.32	TAP105K035SCS
1.5	4.50	7.00	2.5	4	0.5	6.0	478-1853-ND	.46	.40	.32	TAP155K035SCS
2.2	4.50	7.50	2.5	6	0.6	5.0	478-1871-ND	.58	.50	.39	TAP225K035SCS
3.3	5.00	8.50	2.5	6	0.9	4.0	478-1890-ND	.65	.56	.44	TAP335K035SCS
4.7	5.50	9.00	2.5	6	1.3	3.0	478-1907-ND	.93	.80	.63	TAP475K035SCS
6.8	6.00	10.0	2.5	6	1.9	2.5	478-1922-ND	.89	.77	.60	TAP685K035SCS
10	6.00	10.0	2.5	8	2.8	2.0	478-1842-ND	1.49	1.28	1.00	TAP106K035SCS
15	7.00	10.5	2.5	8	4.2	1.6	478-1860-ND	3.12	2.67	2.10	TAP156K035SCS
22	8.50	12.5	2.5	8	6.1	1.3	478-1878-ND	3.12	2.67	2.10	TAP226K035SCS
33	9.00	13.0	5.0	8	9.2	1.0	478-1897-ND	5.43	4.65	3.65	TAP336K035CCS
47	9.00	16.0	5.0	8	10.0	0.8	478-1914-ND	8.12	6.96	5.46	TAP476K035CCS
50 Volt @ 85°C (33 Volt @ 125°C)											
0.1	4.50	7.00	2.5	4	0.5	26.0	478-1832-ND	.52	.45	.35	TAP104K050SCS
0.15	4.50	7.00	2.5	4	0.5	21.0	478-1849-ND	.48	.42	.33	TAP154K050SCS
0.22	4.50	7.00	2.5	4	0.5	17.0	478-1866-ND	.52	.45	.35	TAP224K050SCS
0.33	4.50	7.00	2.5	4	0.5	15.0	478-1884-ND	.52	.45	.35	TAP334K050SCS
0.47	4.50	7.00	2.5	4	0.5	13.0	478-1901-ND	.52	.45	.35	TAP474K050SCS
0.68	4.50	7.50	2.5	4	0.5	10.0	478-1916-ND	.58	.50	.39	TAP684K050SCS
1.0	5.00	8.50	2.5	4	0.5	8.0	478-1836-ND	.65	.56	.44	TAP105K050SCS
1.5	5.00	9.00	2.5	4	0.6	6.0	478-1854-ND	.88	.75	.59	TAP155K050SCS
2.2	5.50	9.00	2.5	6	0.8	3.5	478-1872-ND	.93	.80	.63	TAP225K050SCS
3.3	6.00	10.0	2.5	6	1.3	3.0	478-1891-ND	1.03	.89	.70	TAP335K050SCS
4.7	6.50	10.0	2.5	6	1.8	2.5	478-1908-ND	1.28	1.10	.86	TAP475K050SCS
6.8	7.00	10.5	2.5	6	2.7	2.0	478-1923-ND	3.01	2.58	2.03	TAP685K050SCS
10	8.00	11.5	2.5	8	4.0	1.6	478-1843-ND	5.25	4.50	3.53	TAP106K050SCS
15	8.50	12.5	5.0	8	6.0	1.2	478-1861-ND	5.78	4.95	3.88	TAP156K050CCS
22	9.00	12.5	5.0	8	8.8	1.0	478-1879-ND	9.45	8.10	6.35	TAP226K050CCS

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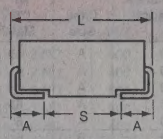
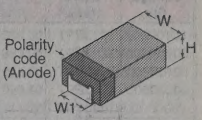
AVX TAJ Series Standard Surface Mount Tantalum Capacitors

The TAJ standard series encompasses the sizes recognized by major OEMs throughout the world.

Temperature Range: -55°C ~ 85°C at rated voltage and up to 125°C with voltage derating in applications utilizing recommended series resistance

Case Size	EIA Code	L	W	H	W_1	A	S Min.
A	3216-18	3.20	1.60	1.60	1.20	0.80	1.10
B	3528-21	3.50	2.80	1.90	2.20	0.80	1.40
C	6032-28	6.00	3.20	2.60	2.20	1.30	2.90
D	7343-31	7.30	4.30	2.90	2.40	1.30	4.40
E	7343-43	7.30	4.30	4.10	2.40	1.30	4.40
V	7361-38	7.30	6.10	3.45	3.10	1.40	4.40





Rated Voltage (V)	Capacitance (µF)	Capacitance Tolerance %	Case Size	DF % Max.	DCL (µA) Max.	ESR Max. (mΩ) @100kHz	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Size	Tape & Reel Pricing	AVX Part No.
4	33	10	A	6	1.3	3000	478-1665-1-ND	.50	.44	.38	478-1665-2-ND	2,000	170.00/M	TAJA336K004R
	47	10	A	8	1.9	2600	478-1669-1-ND	.50	.44	.38	478-1669-2-ND	2,000	170.00/M	TAJA476K004R
	68	10	B	6	2.7	1800	478-2344-1-ND	.65	.57	.50	478-2344-2-ND	2,000	221.00/M	TAJB686K004R
	100	10	B	8	4	900	478-1676-1-ND	1.15	1.01	.88	478-1676-2-ND	2,000	391.00/M	TAJB107K004R
	150	10	B	8	6	1500	478-2345-1-ND	1.00	.87	.76	478-2345-2-ND	2,000	340.00/M	TAJB157K004R
	220	10	C	8	8.8	1200	478-2346-1-ND	2.35	2.05	1.79	478-2346-2-ND	500	399.50	TAJC227K004R
	330	10	C	8	13.2	900	478-2347-1-ND	2.43	2.11	1.85	478-2347-2-ND	500	412.50	TAJC337K004R
	1000	10	E	14	40	400	478-2348-1-ND	10.75	9.36	8.17	478-2348-2-ND	400	1462.00	TAJE108K004R
6.3	10	10	A	6	0.6	4000	478-1653-1-ND	.41	.36	.32	478-1653-2-ND	2,000	139.00/M	TAJA106K006R
	10	20	A	6	0.6	4000	478-1656-1-ND	.41	.36	.32	478-1656-2-ND	2,000	139.00/M	TAJA106M006R
	22	10	B	6	1.4	2500	478-1681-1-ND	.55	.48	.42	478-1681-2-ND	2,000	187.00/M	TAJB226K006R
	33	10	A	8	2.1	2500	478-1666-1-ND	.63	.55	.48	478-1666-2-ND	2,000	213.00/M	TAJA336K006R
	33	20	A	8	2.1	2500	478-1667-1-ND	.63	.55	.48	478-1667-2-ND	2,000	213.00/M	TAJA336M006R
	47	10	B	6	3	2000	478-1692-1-ND	.65	.57	.50	478-1692-2-ND	2,000	221.00/M	TAJB476K006R
	68	10	B	8	4	900	478-1696-1-ND	.75	.66	.57	478-1696-2-ND	2,000	255.00/M	TAJB686K006R
	100	10	B	10	6.3	1700	478-1677-1-ND	1.25	1.09	.95	478-1677-2-ND	2,000	425.00/M	TAJB107K006R
	100	10	C	6	6.3	900	478-1703-1-ND	1.20	1.05	.92	478-1703-2-ND	500	218.50	TAJC107K006R
	150	10	C	6	9.5	1300	478-1709-1-ND	1.95	1.70	1.49	478-1709-2-ND	500	355.00	TAJC157K006R
	220	10	C	8	13.9	1200	478-1713-1-ND	2.10	1.83	1.60	478-1713-2-ND	500	382.00	TAJC227K006R
	470	10	D	12	28	400	478-1741-1-ND	3.15	2.75	2.40	478-1741-2-ND	500	573.50	TAJD477K006R
	680	10	E	10	42.8	500	478-2349-1-ND	8.70	7.57	6.62	478-2349-2-ND	400	1183.20	TAJE687K006R
10	4.7	10	A	6	0.5	5000	478-2350-1-ND	.43	.37	.33	478-2350-2-ND	2,000	145.00/M	TAJA475K010R
	6.8	10	A	6	0.7	4000	478-2351-1-ND	.45	.40	.35	478-2351-2-ND	2,000	153.00/M	TAJA685K010R
	10	10	A	6	1	3000	478-1654-1-ND	.43	.37	.33	478-1654-2-ND	2,000	145.00/M	TAJA106K010R
	10	20	A	6	1	3000	478-1657-1-ND	.43	.37	.33	478-1657-2-ND	2,000	145.00/M	TAJA106M010R
	10	10	B	6	1	2500	478-1672-1-ND	.55	.48	.42	478-1672-2-ND	2,000	187.00/M	TAJB106K010R
	15	10	A	6	1.5	3200	478-1660-1-ND	.50	.44	.38	478-1660-2-ND	2,000	170.00/M	TAJA156K010R
	15	20	A	6	1.5	3200	478-1661-1-ND	.50	.44	.38	478-1661-2-ND	2,000	162.00/M	TAJA156M010R
	22	10	A	8	2.2	3000	478-1663-1-ND	.50	.44	.38	478-1663-2-ND	2,000	170.00/M	TAJA226K010R
	33	10	B	6	3.3	1800	478-1687-1-ND	1.15	1.01	.88	478-1687-2-ND	2,000	391.00/M	TAJB336K010R
	47	10	B	8	4.7	1000	478-1693-1-ND	.88	.77	.67	478-1693-2-ND	2,000	298.00/M	TAJB476K010R
	68	10	C	6	6.8	1300	478-1721-1-ND	1.25	1.09	.95	478-1721-2-ND	500	227.50	TAJC686K010R
	100	10	C	8	10	1200	478-1704-1-ND	1.25	1.09	.95	478-1704-2-ND	500	227.50	TAJC107K010R
	150	10	C	8	15	900	478-2352-1-ND	2.25	1.96	1.71	478-2352-2-ND	500	382.50	TAJC157K010R
	150	10	D	6	15	900	478-2343-1-ND	2.65	2.31	2.02	478-2343-2-ND	500	450.50	TAJD157K010R
	220	10	D	8	22	500	478-1731-1-ND	2.65	2.31	2.02	478-1731-2-ND	500	482.50	TAJD227K010R
	330	10	D	8	33	900	478-1736-1-ND	4.80	4.18	3.65	478-1736-2-ND	500	873.50	TAJD337K010R
	330	10	E	8	33	900	478-1748-1-ND	5.25	4.57	3.99	478-1748-2-ND	400	764.40	TAJE337K010R
	470	10	E	10	47	500	478-1749-1-ND	7.10	6.18	5.40	478-1749-2-ND	400	1033.60	TAJE477K010R
16	1	10	A	4	0.5	11000	478-1649-1-ND	.44	.39	.34	478-1649-2-ND	2,000	150.00/M	TAJA105K016R
	1	20	A	4	0.5	11000	478-1652-1-ND	.44	.39	.34	478-1652-2-ND	2,000	150.00/M	TAJA105M016R
	2.2	10	A	6	0.5	6500	478-2353-1-ND	.43	.37	.33	478-2353-2-ND	2,000	145.00/M	TAJA225K016R
	3.3	10	A	6	0.5	5000	478-2354-1-ND	.43	.37	.33	478-2354-2-ND	2,000	145.00/M	TAJA335K016R
	4.7	10	B	6	0.8	3500	478-1689-1-ND	.55	.48	.42	478-1689-2-ND	2,000	187.00/M	TAJB475K016R
	6.8	10	A	6	1.1	3500	478-1670-1-ND	.48	.42	.37	478-1670-2-ND	2,000	162.00/M	TAJA685K016R
	10	10	A	8	1.6	3000	478-1655-1-ND	.50	.44	.38	478-1655-2-ND	2,000	170.00/M	TAJA106K016R
	10	10	B	6	1.6	2800	478-1673-1-ND	.63	.55	.48	478-1673-2-ND	2,000	213.00/M	TAJB106K016R
	10	20	B	6	1.6	2800	478-1675-1-ND	.63	.55	.48	478-1675-2-ND	2,000	213.00/M	TAJB106M016R
	10	10	C	6	1.6	2000	478-1698-1-ND	.49	.43	.38	478-1698-2-ND	500	89.00	TAJC106K016R
	10	20	C	6	1.6	2000	478-1702-1-ND	.49	.43	.38	478-1702-2-ND	500	89.00	TAJC106M016R
	15	10	B	6	2.4	2500	478-2355-1-ND	.60	.53	.46	478-2355-2-ND	2,000	204.00/M	TAJB156K016R
	22	10	B	6	3.5	2300	478-1682-1-ND	.55	.48	.42	478-1682-2-ND	2,000	187.00/M	TAJB226K016R
	22	20	B	6	3.5	2300	478-1684-1-ND	.55	.48	.42	478-1684-2-ND	2,000	187.00/M	TAJB226M016R
	33	10	B	8	5.3	2100	478-1688-1-ND	.95	.83	.73	478-1688-2-ND	2,000	323.00/M	TAJB336K016R
	33	10	C	6	5.3	1500	478-1715-1-ND	.63	.55	.48	478-1715-2-ND	500	114.00	TAJC336K016R
	47	10	C	6	7.5	1400	478-1718-1-ND	1.00	.87	.76	478-1718-2-ND	500	182.00	TAJC476K016R
	47	10	D	6	7.5	900	478-1739-1-ND	.83	.72	.63	478-1739-2-ND	500	150.00	TAJD476K016R
	68	10	D	6	10.9	900	478-1744-1-ND	1.60	1.40	1.22	478-1744-2-ND	500	291.00	TAJD686K016R
	100	10	D	6	16	900	478-1723-1-ND	1.30	1.14	.99	478-1723-2-ND	500	236.50	TAJD107K016R
	150	10	D	6	24	900	478-2356-1-ND	3.25	2.83	2.47	478-2356-2-ND	500	552.50	TAJD157K016R
	220	10	E	10	35.2	500	478-2357-1-ND	8.25	7.18	6.27	478-2357-2-ND	400	1122.00	TAJE227K016R
20	1	10	A	4	0.5	9000	478-1650-1-ND	.45	.40	.35	478-1650-2-ND	2,000	153.00/M	TAJA105K020R
	1.5	10	A	6	0.5	6500	478-1658-1-ND	.43	.37	.33	478-1658-2-ND	2,000	145.00/M	TAJA155K020R
	2.2	10	A	6	0.5	5300	478-2358-1-ND	.45	.40	.35	478-2358-2-ND	2,000	153.00/M	TAJA225K020R
	3.3	10	A	6	0.7	4500	478-1664-1-ND	.48	.42	.37	478-1664-2-ND	2,000	162.00/M	TAJA335K020R
	3.3	10	B	6	0.7	3000	478-1685-1-ND	.55	.48	.42	478-1685-2-ND	2,000	187.00/M	TAJB335K020R
	4.7	10	A	6	0.9	4000	478-1668-1-ND	.48	.42	.37	478-1668-2-ND	2,000	162.00/M	TAJA475K020R
	6.8	10	B	6	1.4	2500	478-1694-1-ND	.55	.48	.42	478-1694-2-ND	2,000	187.00/M	TAJB685K020R
	6.8	10	C	6	1.4	2000	478-1719-1-ND	.55	.48	.42	478-1719-2-ND	500	100.00	TAJC685K020R
	10	10	B	6	2	2100	478-1674-1-ND	.65	.57	.50	478-1674-2-ND	2,000	221.00/M	TAJB106K020R
	10	10	C	6	2	1900	478-1699-1-ND	.46	.40	.35	478-1699-2-ND	500	83.50	TAJC106K020R
	15	10	B	6	3	2000	478-1679-1-ND	.65	.57	.50	478-1679-2-ND	2,000	221.00/M	TAJB156K020R
	15	10	C	6	3	1700	478-1707-1-ND	.88	.77	.67	478-1707-2-ND	500	159.50	TAJC156K020R
	22	10	B	6	4.4	1800	478-1683-1-ND	.63	.55	.48	478-1683-2-ND	2,000	213.00/M	TAJB226K020R
	22	10	C	6	4.4	1600	478-1711-1-ND	1.00	.87	.76	478-1711-2-ND	500	182.00	TAJC226K020R
	33	10	C	6	6.6	1500	478-1716-1-ND	1.00	.87	.76	478-1716-2-ND	500	182.00	TAJC336K020R
	33	10	D	6	6.6	900	478-1734-1-ND	.83	.72	.63	478-1734-2-ND	500	150.00	TAJD336K020R
	47	10	C	6	9.4	900	478-2359-1-ND	1.98	1.72	1.51	478-2359-2-ND	500	336.00	TAJC476K020R
	68	10	D	6	13.6	900	478-1745-1-ND	2.30	2.01	1.75	478-1745-2-ND	500	418.50	TAJD686K020R
	100	10	D	6	20	900	478-1724-1-ND	3.25	2.83	2.47	478-1724-2-ND	500	591.50	TAJD107K020R
	100	10	E	6	20	900	478-1746-1-ND	3.08	2.68	2.34	478-1746-2-ND	400	447.60	TAJE107K020R
	150	10	E	8	30	300	478-2360-1-ND	5.49	4.78	4.18	478-2360-2-ND	400	746.80	TAJE157K020R

(Continued)

E

Rated Voltage (V)	Capacitance (µF)	Capacitance Tolerance %	Case Size	DF % Max.	DCL (µA) Max.	ESR Max. (mΩ) @100kHz	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Size	Pricing	AVX Part No.
	.47	10	A	4	0.5	14000	478-2339-1-ND	1.00	.87	.76	478-2339-2-ND	2,000	340.00/M	TAJA474K025F
	.68	10	A	4	0.5	10000	478-2362-1-ND	1.00	.87	.76	478-2362-2-ND	2,000	340.00/M	TAJA684K025F
	1	10	A	4	0.5	8000	478-2363-1-ND	.50	.44	.38	478-2363-2-ND	2,000	170.00/M	TAJA105K025F
	1.5	10	A	6	0.5	7500	478-2364-1-ND	.45	.40	.35	478-2364-2-ND	2,000	153.00/M	TAJA155K025F
	2.2	10	A	6	0.6	7000	478-1662-1-ND	.48	.42	.37	478-1662-2-ND	2,000	162.00/M	TAJA225K025F
	3.3	10	B	6	0.8	3500	478-2365-1-ND	.75	.66	.57	478-2365-2-ND	2,000	255.00/M	TAJB335K025F
	4.7	10	B	6	1.2	2800	478-1690-1-ND	.55	.48	.42	478-1690-2-ND	2,000	187.00/M	TAJB475K025F
25	6.8	10	B	6	1.7	2800	478-1695-1-ND	.65	.57	.50	478-1695-2-ND	2,000	221.00/M	TAJB685K025F
	10	10	C	6	2.5	1800	478-1700-1-ND	.53	.46	.40	478-1700-2-ND	500	95.50	TAJC106K025F
	15	10	D	6	3.8	1000	478-1726-1-ND	.83	.72	.63	478-1726-2-ND	500	150.00	TAJD156K025F
	22	20	C	6	5.5	1400	478-1712-1-ND	1.05	.92	.80	478-1712-2-ND	500	191.00	TAJC226M025F
	22	10	D	6	5.5	900	478-1729-1-ND	.83	.72	.63	478-1729-2-ND	500	150.00	TAJD226K025F
	33	10	D	6	8.3	900	478-2366-1-ND	3.25	2.83	2.47	478-2366-2-ND	500	552.50	TAJD336K025F
	47	10	D	6	11.8	900	478-1740-1-ND	3.89	3.39	2.96	478-1740-2-ND	500	708.00	TAJD476K025F
	68	10	E	6	17	900	478-1750-1-ND	8.25	7.18	6.27	478-1750-2-ND	400	1201.20	TAJE686K025F
	100	10	V	8	25	400	478-2367-1-ND	9.25	8.05	7.03	478-2367-2-ND	400	1258.00	TAJV107K025F
	.1	10	A	4	0.5	24000	478-2368-1-ND	1.00	.87	.76	478-2368-2-ND	2,000	340.00/M	TAJA104K035F
	.15	10	A	4	0.5	21000	478-2336-1-ND	1.00	.87	.76	478-2336-2-ND	2,000	340.00/M	TAJA154K035F
	.22	10	A	4	0.5	18000	478-2337-1-ND	1.00	.87	.76	478-2337-2-ND	2,000	340.00/M	TAJA224K035F
	.33	10	A	4	0.5	15000	478-2338-1-ND	1.00	.87	.76	478-2338-2-ND	2,000	340.00/M	TAJA334K035F
	.47	10	A	4	0.5	12000	478-2340-1-ND	1.00	.87	.76	478-2340-2-ND	2,000	340.00/M	TAJA474K035F
	.47	10	B	4	0.5	10000	478-2373-1-ND	1.50	1.31	1.14	478-2373-2-ND	2,000	510.00/M	TAJB474K035F
	.68	10	A	4	0.5	8000	478-2341-1-ND	1.00	.87	.76	478-2341-2-ND	2,000	340.00/M	TAJA684K035F
	1	10	A	4	0.5	7500	478-1651-1-ND	.54	.47	.42	478-1651-2-ND	2,000	184.00/M	TAJA105K035F
	1	10	B	4	0.5	6500	478-1671-1-ND	.55	.48	.42	478-1671-2-ND	2,000	187.00/M	TAJB105K035F
	1.5	10	A	6	0.5	7500	478-1659-1-ND	.70	.61	.54	478-1659-2-ND	2,000	238.00/M	TAJA155K035F
	1.5	10	B	6	0.5	5200	478-1678-1-ND	.60	.53	.46	478-1678-2-ND	2,000	204.00/M	TAJB155K035F
	1.5	10	C	6	0.5	4500	478-1705-1-ND	.93	.81	.71	478-1705-2-ND	500	168.50	TAJC155K035F
	2.2	10	B	6	0.8	4200	478-1680-1-ND	.55	.48	.42	478-1680-2-ND	2,000	187.00/M	TAJB225K035F
	2.2	10	C	6	0.8	3500	478-1710-1-ND	.55	.48	.42	478-1710-2-ND	500	100.00	TAJC225K035F
35	3.3	10	B	6	1.2	3500	478-1686-1-ND	.55	.48	.42	478-1686-2-ND	2,000	187.00/M	TAJB335K035F
	3.3	10	C	6	1.2	2500	478-1714-1-ND	.55	.48	.42	478-1714-2-ND	500	100.00	TAJC335K035F
	3.3	10	D	6	1.2	2500	478-1732-1-ND	.75	.66	.57	478-1732-2-ND	500	136.50	TAJD335K035F
	4.7	10	B	6	1.2	3100	478-1691-1-ND	.65	.57	.50	478-1691-2-ND	2,000	221.00/M	TAJB475K035F
	4.7	10	C	6	1.6	2200	478-1717-1-ND	.53	.46	.40	478-1717-2-ND	500	95.50	TAJC475K035F
	4.7	10	D	6	1.6	1500	478-1737-1-ND	.83	.72	.63	478-1737-2-ND	500	150.00	TAJD475K035F
	6.8	10	C	6	2.4	1800	478-1720-1-ND	.63	.55	.48	478-1720-2-ND	500	114.00	TAJC685K035F
	6.8	10	D	6	2.4	1300	478-1742-1-ND	.83	.72	.63	478-1742-2-ND	500	150.00	TAJD685K035F
	10	10	C	6	3.5	1600	478-1701-1-ND	.95	.83	.73	478-1701-2-ND	500	173.00	TAJC106K035F
	10	10	D	6	3.5	1000	478-1722-1-ND	.88	.77	.67	478-1722-2-ND	500	159.50	TAJD106K035F
	15	10	C	6	5.3	1400	478-1708-1-ND	1.25	1.09	.95	478-1708-2-ND	500	227.50	TAJC156K035F
	15	10	D	6	5.3	900	478-1727-1-ND	1.05	.92	.80	478-1727-2-ND	500	191.00	TAJD156K035F
	22	10	D	6	7.7	900	478-1730-1-ND	1.90	1.66	1.45	478-1730-2-ND	500	346.00	TAJD226K035F
	22	10	E	6	7.7	900	478-1747-1-ND	4.25	3.70	3.23	478-1747-2-ND	400	618.80	TAJE226K035F
	33	10	D	6	11.6	900	478-1735-1-ND	2.40	2.09	1.83	478-1735-2-ND	500	437.00	TAJD336K035F
	0.1	10	A	4	0.5	22000	478-1648-1-ND	.75	.66	.57	478-1648-2-ND	2,000	255.00/M	TAJA104K050F
	.15	10	A	4	0.5	15000	478-2375-1-ND	1.00	.87	.76	478-2375-2-ND	2,000	340.00/M	TAJA154K050F
	.22	10	A	4	0.5	18000	478-2376-1-ND	1.00	.87	.76	478-2376-2-ND	2,000	340.00/M	TAJA224K050F
	.33	10	B	4	0.5	12000	478-2377-1-ND	1.50	1.31	1.14	478-2377-2-ND	2,000	510.00/M	TAJB334K050F
	.47	10	B	4	0.7	9500	478-2378-1-ND	1.50	1.31	1.14	478-2378-2-ND	2,000	510.00/M	TAJB474K050F
	.68	10	B	4	0.5	8000	478-2379-1-ND	1.50	1.31	1.14	478-2379-2-ND	2,000	510.00/M	TAJB684K050F
	.68	10	C	4	0.5	7000	478-2342-1-ND	2.25	1.96	1.71	478-2342-2-ND	500	382.50	TAJC684K050F
50	1	10	C	4	0.5	5500	478-1697-1-ND	.75	.66	.57	478-1697-2-ND	500	136.50	TAJC105K050F
	1.5	10	C	6	0.8	4500	478-1706-1-ND	2.25	1.96	1.71	478-1706-2-ND	500	409.50	TAJC155K050F
	1.5	10	D	6	0.8	4000	478-1725-1-ND	4.60	4.01	3.50	478-1725-2-ND	500	837.00	TAJD155K050F
	2.2	10	D	6	1.1	2500	478-1728-1-ND	1.43	1.24	1.09	478-1728-2-ND	500	259.50	TAJD225K050F
	3.3	10	D	6	1.7	2000	478-1733-1-ND	1.40	1.22	1.07	478-1733-2-ND	500	255.00	TAJD335K050F
	4.7	10	D	6	2.4	1400	478-1738-1-ND	1.43	1.24	1.09	478-1738-2-ND	500	259.50	TAJD475K050F
	6.8	10	D	6	3.4	1000	478-1743-1-ND	5.25	4.57	3.99	478-1743-2-ND	500	955.50	TAJD685K050F
	10	10	D	6	5	800	478-2380-1-ND	5.25	4.57	3.99	478-2380-2-ND	500	892.50	TAJD106K050F

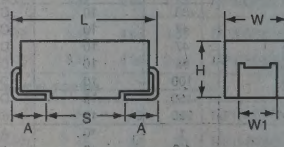
TPS Series Low ESR Surface Mount Tantalum Capacitors

TPS surface mount products have inherently low ESR (equivalent series resistance) and are capable of higher ripple current handling, producing lower ripple voltages, less power and heat dissipation than standard product for the most efficient use of circuit power.

TPS has been designed, manufactured, and pre-conditioned for optimum performance in typical power supply applications.

- **Temperature Range:** -55°C ~ 125°C

Case Size	EIA Code	L	W	H	W_1	A	S Min.
A	3216-18	3.20	1.60	1.60	1.20	0.80	1.10
B	3528-21	3.50	2.80	1.90	2.20	0.80	1.40
C	6032-28	6.00	3.20	2.60	2.20	1.30	2.90
D	7343-31	7.30	4.30	2.90	2.40	1.30	4.40
E	7343-43	7.30	4.30	4.10	2.40	1.30	4.40
V	7361-38	7.30	6.10	3.45	3.10	1.40	4.40



Rated Voltage (V)	Capacitance (µF)	Capacitance Tolerance %	Case Size	DF % Max.	DCL (µA) Max.	ESR Max. (mΩ) @100kHz	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Size	Pricing	AVX Part No.
	47	10	A	8	1.9	500	478-2381-1-ND	1.00	.87	.76	478-2381-2-ND	2,000	340.00/M	TPSA476K004R0500
	220	10	D	8	8.8	100	478-2382-1-ND	4.20	3.66	3.20	478-2382-2-ND	500	764.50	TPSD227K004R0100
	330	10	D	8	13.2	35	478-2383-1-ND	14.65	12.75	11.14	478-2383-2-ND	500	2666.50	TPSD337K004R0035
4	330	10	D	8	13.2	100	478-2384-1-ND	11.40	9.92	8.67	478-2384-2-ND	500	2075.00	TPSD337K004R0100
	470	10	D	12	18.8	45	478-2385-1-ND	9.00	7.83	6.84	478-2385-2-ND	500	1638.00	TPSD477K004R0045
	680	10	D	14	27.2	100	478-2386-1-ND	12.95	11.27	9.85	478-2386-2-ND	500	2357.00	TPSD687K004R0100
	1000	10	V	16	40	40	478-2387-1-ND	18.75	16.32	14.25	478-2387-2-ND	400	2730.00	TPSV108K004R0040
	10	10	A	6	0.6	1500	478-2388-1-ND	1.00	.87	.76	478-2388-2-ND	2,000	340.00/M	TPSA106K006R1500
	22	10	A	6	1.4	900	478-1754-1-ND	.75	.66	.57	478-1754-2-ND	2,000	255.00/M	TPSA226K006R0900
	33	10	A	8	2.1	600	478-1755-1-ND	1.00	.87	.76	478-1755-2-ND	2,000	340.00/M	TPSA336K006R0600
6.3	47	10	B	6	3	250	478-2389-1-ND	1.25	1.09	.95	478-2389-2-ND	2,000	425.00/M	TPSB476K006R0250
	68	20	B	8	4.3	500	478-1761-1-ND	1.20	1.05	.92	478-1761-2-ND	2,000	408.00/M	TPSB686M006R0500
	100	10	C	6	6.3	150	478-1764-1-ND	2.55	2.22	1.94	478-1764-2-ND	500	464.00	TPSC107K006R0150
	150	10	C	6	9.5	150	478-2390-1-ND	2.65	2.31	2.02	478-2390-2-ND	500	482.50	TPSC157K006R0150

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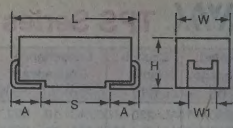
Rated Voltage (V)	Capacitance (µF)	Capacitance Tolerance %	Case Size	DF % Max.	DCL (µA) Max.	ESR Max. (mΩ) @100kHz	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Size	Pricing	AVX Part No.
	220	10	C	8	13.9	125	478-1768-1-ND	1.85	1.61	1.41	478-1768-2-ND	500	336.50	TPSC227K006R0125
	330	20	E	8	20.8	100	478-1804-1-ND	9.50	8.27	7.22	478-1804-2-ND	400	1383.20	TPSE337M006R0100
6.3	470	20	D	12	29.6	100	478-1790-1-ND	6.95	6.05	5.29	478-1790-2-ND	500	1265.00	TPSD477M006R0100
	470	20	D	12	29.6	200	478-1791-1-ND	5.65	4.92	4.30	478-1791-2-ND	500	1028.50	TPSD477M006R0200
	680	10	E	10	42.8	45	478-1809-1-ND	14.50	12.62	11.02	478-1809-2-ND	400	2111.20	TPSE687K006R0045
	2.2	10	A	6	0.5	1800	478-1753-1-ND	.75	.66	.57	478-1753-2-ND	2,000	255.00/M	TPSA225K010R1800
	4.7	10	A	6	0.5	1400	478-2391-1-ND	1.00	.87	.76	478-2391-2-ND	2,000	340.00/M	TPSA475K010R1400
	6.8	10	A	6	0.7	1800	478-2392-1-ND	1.00	.87	.76	478-2392-2-ND	2,000	340.00/M	TPSA685K010R1800
	10	10	A	6	1	900	478-1751-1-ND	.70	.61	.54	478-1751-2-ND	2,000	238.00/M	TPSA106K010R0900
	15	10	A	6	1.5	1000	478-1752-1-ND	.75	.66	.57	478-1752-2-ND	2,000	255.00/M	TPSA156K010R1000
	22	10	B	6	2.2	400	478-2393-1-ND	1.25	1.09	.95	478-2393-2-ND	2,000	425.00/M	TPSB226K010R0400
	33	10	B	6	3.3	425	478-1759-1-ND	1.20	1.05	.92	478-1759-2-ND	2,000	408.00/M	TPSB336K010R0425
	33	10	C	6	3.3	375	478-1770-1-ND	2.00	1.74	1.52	478-1770-2-ND	500	364.00	TPSC336K010R0375
10	47	10	B	8	4.7	650	478-1760-1-ND	1.25	1.09	.95	478-1760-2-ND	2,000	425.00/M	TPSB476K010R0650
	100	10	C	8	10	100	478-1765-1-ND	1.88	1.64	1.43	478-1765-2-ND	500	341.50	TPSC107K010R0100
	100	10	D	6	10	65	478-1776-1-ND	3.90	3.40	2.97	478-1776-2-ND	500	710.00	TPSD107K010R0065
	100	10	D	6	10	100	478-1777-1-ND	2.35	2.05	1.79	478-1777-2-ND	500	427.50	TPSD107K010R0100
	100	20	D	6	10	100	478-1779-1-ND	2.35	2.05	1.79	478-1779-2-ND	500	427.50	TPSD107M010R0100
	150	10	D	8	15	100	478-1781-1-ND	3.60	3.14	2.74	478-1781-2-ND	500	655.00	TPSD157K010R0100
	220	10	D	8	22	150	478-1784-1-ND	6.75	5.88	5.13	478-1784-2-ND	500	1228.50	TPSD227K010R0150
	220	10	E	8	22	100	478-1799-1-ND	9.50	8.27	7.22	478-1799-2-ND	400	1383.20	TPSE227K010R0100
	330	10	D	10	33	100	478-1787-1-ND	6.85	5.96	5.21	478-1787-2-ND	500	1246.50	TPSD337K010R0100
	470	10	E	10	47	100	478-1807-1-ND	14.90	12.97	11.33	478-1807-2-ND	400	2169.60	TPSE477K010R0100
	2.2	10	A	6	0.5	1800	478-2394-1-ND	1.00	.87	.76	478-2394-2-ND	2,000	340.00/M	TPSA225K016R1800
	3.3	10	A	6	0.5	3500	478-2395-1-ND	1.00	.87	.76	478-2395-2-ND	2,000	340.00/M	TPSA335K016R3500
	4.7	10	B	6	0.8	1500	478-2396-1-ND	1.25	1.09	.95	478-2396-2-ND	2,000	425.00/M	TPSB475K016R1500
	6.8	10	B	6	1.1	1200	478-2397-1-ND	1.25	1.09	.95	478-2397-2-ND	2,000	425.00/M	TPSB685K016R1200
	10	10	B	6	1.6	800	478-2398-1-ND	1.25	1.09	.95	478-2398-2-ND	2,000	425.00/M	TPSB106K016R0800
	15	10	B	6	2.4	800	478-1757-1-ND	1.00	.87	.76	478-1757-2-ND	2,000	340.00/M	TPSB156K016R0800
	22	10	B	6	3.5	600	478-1758-1-ND	1.00	.87	.76	478-1758-2-ND	2,000	340.00/M	TPSB226K016R0600
	22	10	C	6	3.5	375	478-1767-1-ND	.88	.77	.67	478-1767-2-ND	500	159.50	TPSC226K016R0375
16	33	10	C	6	5.3	300	478-1771-1-ND	2.10	1.83	1.60	478-1771-2-ND	500	382.00	TPSC336K016R0300
	47	10	C	6	7.5	350	478-1773-1-ND	2.55	2.22	1.94	478-1773-2-ND	500	464.00	TPSC476K016R0350
	47	10	D	6	7.5	150	478-1788-1-ND	3.90	3.40	2.97	478-1788-2-ND	500	710.00	TPSD476K016R0150
	68	10	C	6	10.9	200	478-1774-1-ND	1.44	1.25	1.10	478-1774-2-ND	500	261.00	TPSC686K016R0200
	100	10	D	6	16	125	478-1778-1-ND	4.20	3.66	3.20	478-1778-2-ND	500	764.50	TPSD107K016R0125
	100	10	E	6	16	100	478-1793-1-ND	9.25	8.05	7.03	478-1793-2-ND	400	1346.80	TPSE107K016R0100
	100	10	E	6	16	125	478-1794-1-ND	8.50	7.40	6.46	478-1794-2-ND	400	1237.60	TPSE107K016R0125
	150	10	D	6	24	150	478-1782-1-ND	5.00	4.35	3.80	478-1782-2-ND	500	910.00	TPSD157K016R0150
	220	10	E	10	35.2	150	478-1800-1-ND	10.00	8.70	7.60	478-1800-2-ND	400	1456.00	TPSE227K016R0150
	1	10	A	4	0.5	3000	478-2399-1-ND	1.00	.87	.76	478-2399-2-ND	2,000	340.00/M	TPSA105K020R3000
	2.2	10	A	6	0.5	3000	478-2400-1-ND	1.00	.87	.76	478-2400-2-ND	2,000	340.00/M	TPSA225K020R3000
	3.3	10	A	6	0.7	2500	478-2401-1-ND	1.00	.87	.76	478-2401-2-ND	2,000	340.00/M	TPSA335K020R2500
	4.7	10	B	6	0.9	1000	478-2402-1-ND	1.25	1.09	.95	478-2402-2-ND	2,000	425.00/M	TPSB475K020R1000
	6.8	10	B	6	1.4	1000	478-2403-1-ND	1.25	1.09	.95	478-2403-2-ND	2,000	425.00/M	TPSB685K020R1000
	10	10	B	6	2	1000	478-1756-1-ND	1.25	1.09	.95	478-1756-2-ND	2,000	425.00/M	TPSB106K020R1000
20	15	10	C	6	3	450	478-1766-1-ND	2.10	1.83	1.60	478-1766-2-ND	500	382.00	TPSC156K020R0450
	22	10	C	6	4.4	150	478-2404-1-ND	2.60	2.27	1.98	478-2404-2-ND	500	442.00	TPSC226K020R0150
	33	10	D	6	6.6	200	478-1785-1-ND	3.90	3.40	2.97	478-1785-2-ND	500	710.00	TPSD336K020R0200
	47	10	E	6	9.4	125	478-1805-1-ND	7.75	6.75	5.89	478-1805-2-ND	400	1128.40	TPSE476K020R0125
	47	10	E	6	9.4	150	478-1806-1-ND	7.00	6.09	5.32	478-1806-2-ND	400	1019.20	TPSE476K020R0150
	68	10	E	6	13.6	150	478-1808-1-ND	9.00	7.83	6.84	478-1808-2-ND	400	1310.40	TPSE686K020R0150
	68	10	D	6	13.6	300	478-1792-1-ND	3.65	3.18	2.78	478-1792-2-ND	500	664.50	TPSD686K020R0300
	100	10	E	6	20	150	478-1795-1-ND	5.75	5.01	4.37	478-1795-2-ND	400	837.20	TPSE107K020R0150
	.68	10	A	4	0.5	6000	478-2405-1-ND	1.00	.87	.76	478-2405-2-ND	2,000	340.00/M	TPSA684K025R6000
	1.5	10	A	6	0.5	3000	478-2406-1-ND	1.00	.87	.76	478-2406-2-ND	2,000	340.00/M	TPSA155K025R3000
	3.3	10	B	6	0.8	2000	478-2407-1-ND	1.25	1.09	.95	478-2407-2-ND	2,000	425.00/M	TPSB335K025R2000
	4.7	10	B	6	1.2	900	478-2408-1-ND	1.25	1.09	.95	478-2408-2-ND	2,000	425.00/M	TPSB475K025R0900
	6.8	10	C	6	1.7	600	478-2409-1-ND	1.60	1.40	1.22	478-2409-2-ND	500	272.00	TPSC685K025R0600
	10	10	C	6	2.5	500	478-1762-1-ND	.88	.77	.67	478-1762-2-ND	500	159.50	TPSC106K025R0500
25	10	20	C	6	2.5	500	478-1763-1-ND	.88	.77	.67	478-1763-2-ND	500	159.50	TPSC106M025R0500
	22	10	D	6	5.5	200	478-1783-1-ND	3.90	3.40	2.97	478-1783-2-ND	500	710.00	TPSD226K025R0200
	33	10	D	6	8.3	300	478-1786-1-ND	3.75	3.27	2.85	478-1786-2-ND	500	682.50	TPSD336K025R0300
	33	10	E	6	8.3	300	478-1801-1-ND	6.75	5.88	5.13	478-1801-2-ND	400	982.80	TPSE336K025R0300
	33	20	E	6	8.3	175	478-1802-1-ND	7.00	6.09	5.32	478-1802-2-ND	400	1019.20	TPSE336M025R0175
	33	20	E	6	8.3	200	478-1803-1-ND	6.80	5.92	5.17	478-1803-2-ND	400	990.00	TPSE336M025R0200
	47	10	D	6	11.8	150	478-1789-1-ND	6.75	5.88	5.13	478-1789-2-ND	500	1228.50	TPSD476K025R0150
	68	10	E	6	17	125	478-2410-1-ND	10.25	8.92	7.79	478-2410-2-ND	400	1492.40	TPSE686K025R0125
	.68	10	A	4	0.5	6000	478-2411-1-ND	1.00	.87	.76	478-2411-2-ND	2,000	340.00/M	TPSA684K035R6000
	1	10	B	4	0.5	2000	478-2412-1-ND	1.25	1.09	.95	478-2412-2-ND	2,000	425.00/M	TPSB105K035R2000
	1.5	10	B	6	0.5	2500	478-2413-1-ND	1.25	1.09	.95	478-2413-2-ND	2,000	425.00/M	TPSB155K035R2500
	2.2	10	B	6	0.8	2000	478-2414-1-ND	1.25	1.09	.95	478-2414-2-ND	2,000	425.00/M	TPSB225K035R2000
	3.3	10	C	6	1.2	700	478-1769-1-ND	1.95	1.70	1.49	478-1769-2-ND	500	355.00	TPSC335K035R0700
	4.7	10	C	6	1.6	600	478-1772-1-ND	1.95	1.70	1.49	478-1772-2-ND	500	355.00	TPSC475K035R0600
35	6.8	10	D	6	2.4	400	478-2415-1-ND	4.05	3.53	3.08	478-2415-2-ND	500	737.00	TPSD685K035R0400
	10	10	D	6	3.5	300	478-1775-1-ND	1.43	1.24	1.09	478-1775-2-ND	500	259.50	TPSD106K035R0300
	15	10	D	6	5.3	300	478-1780-1-ND	3.90	3.40	2.97	478-1780-2-ND	500	710.00	TPSD156K035R0300
	22	10	E	6	7.7	125	478-1796-1-ND	9.75	8.49	7.41	478-1796-2-ND	400	1419.60	TPSE226K035R0125
	22	10	E	6	7.7	200	478-1797-1-ND	9.25	8.05	7.03	478-1797-2-ND	400	1346.80	TPSE226K035R0200
	22	10	E	6	7.7	300	478-1798-1-ND	8.75	7.62	6.65	478-1798-2-ND	400	1274.00	TPSE226K035R0300
	33	10	D	6	11.6	300	478-2416-1-ND	9.25	8.05	7.03	478-2416-2-ND	500	1683.50	TPSD336K035R0300
	47	10	E	6	16.5	250	478-2417-1-ND	11.65	10.14	8.86	478-2417-2-ND	400	1696.40	TPSE476K035R0250
	.15	10	A	4	0.5	9000	478-2418-1-ND	1.00	.87	.76	478-2418-2-ND	2,000	340.00/M	TPSA154K050R9000
	.22	10	A	4	0.5	7000	478-2419-1-ND	1.00	.87	.76	478-2419-2-ND	2,000	340.00/M	TPSA224K050R7000
	2.2	10	D	6	1.1	1200	478-2420-1-ND	7.00	6.09	5.32	478-2420-2-ND	500	1274.00	TPSD225K050R1200
50	3.3	10	D	6	1.7	800	478-2421-1-ND	7.25	6.31	5.51	478-2421-2-ND	500	1319.50	TPSD335K050R0800
	4.7	10	D	6	2.4	500	478-2422-1-ND	7.25	6.31	5.51	478-2422-2-ND	500	1319.50	TPSD475K050R0500
	6.8	10	D	6	3.4	500	478-2423-1-ND	4.50	3.92	3.42	478-2423-2-ND	500	819.00	TPSD685K050R0500
	10	10	E	6	5	500	478-2424-1-ND	17.70	15.40	13.46	478-2424-2-ND	400	2577.20	TPSE106K050R0500

TPM Series
Multianode Ultra Low ESR Surface Mount Tantalum Capacitors

Low ESR, high capacitance and high ripple current are the key parameters for processor filtering. Multianode configuration within a standard E case package meets these requirements.

• **Temperature Range:** -55°C ~ 125°C

Case Size	EIA Code	L ±0.20	W +0.20, -0.10	H +0.20, -0.10	W_1 ±0.20	A +0.30, -0.20	S Min.
E	7343-43	7.30	4.30	4.10	2.40	1.30	4.40



Dim. in

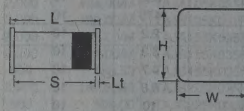
Rated Voltage (V)	Capacitance (µF)	Cap. Tol. %	Case Size	DF % Max.	DCL (µA) Max.	ESR Max. (mΩ) @100kHz	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Size	Pricing	AVX Part No.
4	680	10	E	6	27	23	478-1815-1-ND	12.25	10.66	9.31	478-1815-2-ND	400	1783.60	TPME687K004R002
	680	20	E	6	27	23	478-1816-1-ND	11.25	9.79	8.55	478-1816-2-ND	400	1638.00	TPME687M004R002
	1000	10	E	6	40	18	478-1819-1-ND	12.50	10.88	9.50	478-1819-2-ND	400	1820.00	TPME108K004R001
	1000	20	E	6	40	18	478-1820-1-ND	11.75	10.23	8.93	478-1820-2-ND	400	1710.80	TPME108M004R001
6.3	470	10	E	6	28	30	478-1812-1-ND	10.00	8.70	7.60	478-1812-2-ND	400	1456.00	TPME477K006R003
	470	20	E	6	28	30	478-1813-1-ND	9.75	8.49	7.41	478-1813-2-ND	400	1419.60	TPME477M006R003
	680	10	E	6	41	23	478-1817-1-ND	12.25	10.66	9.31	478-1817-2-ND	400	1783.60	TPME687K006R002
	680	20	E	6	41	23	478-1818-1-ND	11.25	9.79	8.55	478-1818-2-ND	400	1638.00	TPME687M006R002
10	330	10	E	6	33	35	478-1810-1-ND	10.00	8.70	7.60	478-1810-2-ND	400	1456.00	TPME337K010R003
	330	20	E	6	33	35	478-1811-1-ND	9.75	8.49	7.41	478-1811-2-ND	400	1419.60	TPME337M010R003
	470	20	E	6	47	30	478-1814-1-ND	9.75	8.49	7.41	478-1814-2-ND	400	1419.60	TPME477M010R003

TAC Series Standard Microchip Surface Mount Tantalum Capacitors

The world's smallest surface mount tantalum capacitor, small enough to create space providing room for ideas to grow. TACmicrochip™ is a major breakthrough in miniaturization without reduction in performance. It offers the highest energy store in a small case down to 0402; enhanced high frequency operation through unique ESR performance with temperature and voltage stability also offered.

E

Code	EIA Code	EIA Metric	L	W	H	Minimum Termination Spacing (S)	Minimum Termination Length (Lt)
K	0402	1005-07	1.00	0.50	0.50	0.40	0.10
L	0603	1608-10	1.60	0.85	0.85	0.65	0.15
R	0805	2012-15	2.00	1.35	1.35	0.85	0.15
A	1206	3216-18	3.20	1.60	1.60	2.00	0.15



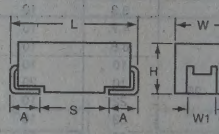
Dim. in

Rated Voltage (V)	Capacitance (µF)	Cap. Tol. %	Case Size	DF % Max.	DCL (µA) Max.	ESR Max. (Ω) @100kHz	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Size	Pricing	AVX Part No.
4	10	20	0603	10	0.5	7.5	478-2549-1-ND	1.75	1.53	1.33	478-2549-2-ND	500	318.50	TACL106M004XTA
	22	20	0603	20	0.9	7.5	478-2550-1-ND	1.75	1.53	1.33	478-2550-2-ND	500	318.50	TACL226M004XTA
	10	20	0805	8	0.5	5	478-2559-1-ND	2.75	2.40	2.09	478-2559-2-ND	500	500.50	TACR106M004XTA
	22	20	0805	8	0.9	5	478-2560-1-ND	2.75	2.40	2.09	478-2560-2-ND	500	500.50	TACR226M004XTA
	100	20	1206	20	4.0	1	478-2566-1-ND	3.25	2.83	2.47	478-2566-2-ND	500	591.50	TACA107M004XTA
6.3	2.2	20	0402	8	0.5	15	478-2547-1-ND	3.90	3.40	2.97	478-2547-2-ND	1000	1420.00	TACK225M006QTA
	1.5	20	0603	6	0.5	7.5	478-2551-1-ND	1.75	1.53	1.33	478-2551-2-ND	500	318.50	TACL155M006XTA
	2.2	20	0603	6	0.5	7.5	478-2552-1-ND	1.75	1.53	1.33	478-2552-2-ND	500	318.50	TACL225M006XTA
	10	20	0603	10	0.6	6	478-2553-1-ND	1.75	1.53	1.33	478-2553-2-ND	500	318.50	TACL106M006XTA
	10	20	0805	8	0.6	5	478-2561-1-ND	2.75	2.40	2.09	478-2561-2-ND	500	500.50	TACR106M006XTA
	22	20	0805	10	1.4	5	478-2562-1-ND	2.75	2.40	2.09	478-2562-2-ND	500	500.50	TACR226M006XTA
10	1.0	20	0402	6	0.5	15	478-2548-1-ND	3.90	3.40	2.97	478-2548-2-ND	1000	1420.00	TACK105M010QTA
	1.0	20	0603	6	0.5	7.5	478-2554-1-ND	1.75	1.53	1.33	478-2554-2-ND	500	318.50	TACL105M010XTA
	2.2	20	0603	6	0.5	7.5	478-2555-1-ND	1.75	1.53	1.33	478-2555-2-ND	500	318.50	TACL225M010XTA
	3.3	20	0603	8	0.5	7.5	478-2556-1-ND	1.75	1.53	1.33	478-2556-2-ND	500	318.50	TACL335M010XTA
	4.7	20	0603	10	0.5	6	478-2557-1-ND	1.75	1.53	1.33	478-2557-2-ND	500	318.50	TACL475M010XTA
	3.3	20	0805	8	0.5	5	478-2563-1-ND	2.75	2.40	2.09	478-2563-2-ND	500	500.50	TACR335M010XTA
	4.7	20	0805	8	0.5	6	478-2564-1-ND	2.75	2.40	2.09	478-2564-2-ND	500	500.50	TACR475M010XTA
16	1.0	20	0603	6	0.5	7.5	478-2558-1-ND	1.75	1.53	1.33	478-2558-2-ND	500	318.50	TACL105M016XTA
	10	20	0805	10	1.6	5	478-2565-1-ND	2.75	2.40	2.09	478-2565-2-ND	500	500.50	TACR106M016XTA

OxiCap™ Niobium Oxide Capacitors

Cost versus performance is a key requirement for consumer electronic products. A solid electrolyte capacitor OxiCap has been developed by AVX in standard EIA case sizes in order to meet this requirement as a higher performance alternative to aluminum and other SMT capacitor technologies currently on the market. The OxiCap non-burn technology is based on NbO niobium oxide ceramic material as the anodic material processed through the same manufacturing process as tantalum capacitors. The laser coded orange molded body gives total traceability.

Case Size	EIA Code	L ±0.20	W +0.20, -0.10	H +0.20, -0.10	W_1 ±0.20	A +0.30, -0.20	S Min.
A	3216-18	3.20	1.60	1.60	1.20	0.80	1.10
B	3528-21	3.50	2.80	1.90	2.20	0.80	1.40
C	6032-28	6.00	3.20	2.60	2.20	1.30	2.90
D	7343-31	7.30	4.30	2.90	2.40	1.30	4.40
E	7343-43	7.30	4.30	4.10	2.40	1.30	4.40



Dim. in m

NOJ Series

• **Temperature Range:** -55°C ~ 105°C

Rated Voltage (V)	Capacitance (µF)	Capacitance Tolerance %	Case Size	DF % Max.	DCL (µA) Max.	ESR Max. (mΩ) @100kHz	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Size	Pricing	AVX Part No.
4	100	20	C	6	8	400	478-1824-1-ND	.75	.66	.57	478-1824-2-ND	500	136.50	NOJC107M004RWJ
6.3	10	20	A	6	1.2	2200	478-1821-1-ND	.40	.35	.31	478-1821-2-ND	2,000	136.00/M	NOJA106M006RWJ
	15	20	B	6	1.8	2000	478-1822-1-ND	.55	.48	.42	478-1822-2-ND	2,000	187.00/M	NOJB156M006RWJ
	22	20	B	6	2.64	1900	478-1823-1-ND	.50	.44	.38	478-1823-2-ND	2,000	170.00/M	NOJB226M006RWJ
	100	20	D	6	12.0	400	478-1825-1-ND	1.05	.92	.80	478-1825-2-ND	500	191.00	NOJD107M006RWJ
	150	20	D	6	18.0	400	478-1826-1-ND	1.25	1.09	.95	478-1826-2-ND	500	227.50	NOJD157M006RWJ
	220	20	E	12	26.4	400	478-1827-1-ND	3.00	2.61	2.28	478-1827-2-ND	400	436.80	NOJE227M006RWJ
	330	20	E	12	39.6	300	478-1828-1-ND	3.93	3.42	2.99	478-1828-2-ND	400	571.60	NOJE337M006RWJ

NOS Low ESR Series

• **Temperature Range:** -55°C ~ 125°C

Rated Voltage (V)	Capac-itance (µF)	Capacitance Tolerance %	Case Size	DF % Max.	DCL (µA) Max.	ESR Max. (mΩ) @100kHz	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Size	Pricing	AVX Part No.
4	330	20	D	8	26.4	100	478-1830-1-ND	3.60	3.14	2.74	478-1830-2-ND	500	655.00	NOSD337M004R0100
6.3	100	20	D	6	12.6	100	478-1829-1-ND	2.35	2.05	1.79	478-1829-2-ND	500	427.50	NOSD107M006R0100

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Tantalum Dipped / Radial Capacitors

T350 and T356 "UltraDip II" Series

KEMET "UltraDip II" Series, miniature dipped solid tantalum citors, provide the designer with the advantage of compactness low leakage and low DF performance characteristics for filtering, ssing, coupling, blocking and RC timing circuits.

plastic case provides a tough barrier coating and maintains sion of lead wire spacing within ±0.015 inch.

ase sizes are printed with capacitance, voltage, polarity and or identification, these self-insulating cases are resistant to shock vibration.

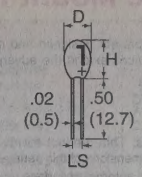
The gold color epoxy permits Laser marking with outstanding permanency and legibility.

Solid tantalum devices exhibit no degradation failure mode during shelf storage.

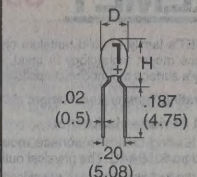
These capacitors exhibit low DCL, ESR and Impedance and have excellent temperature stability. *The ESR values provided are for reference only.*

Capacitance Tolerance (%): ±10 **Operating Temperature:** -55° to 85°C (125°C with voltage derating)

T350 Series



T356 Series



T350 Series

Cap. (µF)	ESRΩ @ 100KHz @ +25°C	D.C.L. µA@ 25°C	Max. DF % @25°C 120Hz	Dim. (mm) D	H	LS	Digi-Key Part No.	Price Each 1	10	100	Kemet Part No.
4.7	10	0.5	5	4.5	7.1	2.54	399-1377-ND	.39	.34	.27	T350A475K006AS
6.8	8	0.5	5	4.5	7.1	2.54	399-1378-ND	.48	.42	.33	T350A685K006AS
10	6	0.5	6	4.5	7.6	2.54	399-1379-ND	.59	.51	.40	T350B106K006AS
15	5	0.7	6	5.0	8.4	2.54	399-1380-ND	.66	.57	.45	T350C156K006AS
22	3.7	1.1	6	5.0	8.6	2.54	399-1381-ND	.78	.68	.53	T350D226K006AS
33	3	1.6	6	5.5	8.9	2.54	399-1382-ND	.83	.72	.56	T350E336K006AS
47	2	2.3	6	6.0	9.9	2.54	399-1383-ND	.93	.80	.63	T350F476K006AS
68	1.8	3.3	6	6.3	10.2	2.54	399-1384-ND	1.10	.95	.75	T350G686K006AS
100	1.6	4.8	8	7.6	10.2	2.54	399-1385-ND	2.60	2.23	1.75	T350H107K006AS
150	0.9	7.2	8	8.4	12.7	5.08	399-1386-ND	3.33	2.86	2.24	T350J157K006AS
2.2	13	0.5	5	4.5	7.1	2.54	399-1387-ND	.48	.42	.33	T350A225K010AS
3.3	10	0.5	5	4.5	7.1	2.54	399-1388-ND	.48	.42	.33	T350A335K010AS
4.7	8	0.5	5	4.5	7.1	2.54	399-1389-ND	.48	.42	.33	T350A475K010AS
6.8	6	0.5	5	4.5	7.6	2.54	399-1390-ND	.66	.57	.45	T350B685K010AS
10	5	0.8	6	5.0	8.4	2.54	399-1391-ND	.66	.57	.45	T350C106K010AS
15	3.7	1.2	6	5.5	8.9	2.54	399-1392-ND	.78	.68	.53	T350E156K010AS
22	2.7	1.8	6	5.5	8.9	2.54	399-1393-ND	.88	.76	.60	T350E226K010AS
33	2.1	2.6	6	6.0	9.9	2.54	399-1394-ND	1.03	.89	.70	T350F336K010AS
47	1.7	3.8	6	7.6	10.2	2.54	399-1395-ND	1.81	1.56	1.22	T350H476K010AS
68	1.3	5.4	6	7.6	10.2	2.54	399-1396-ND	2.60	2.23	1.75	T350H686K010AS
100	1	8.0	8	8.4	12.7	5.08	399-1397-ND	3.33	2.86	2.24	T350J107K010AS
1.5	10	0.5	5	4.5	7.1	2.54	399-1398-ND	.48	.42	.33	T350A155K016AS
2.2	8	0.5	5	4.5	7.1	2.54	399-1399-ND	.48	.42	.33	T350A225K016AS
3.3	6	0.5	5	4.5	7.1	2.54	399-1400-ND	.48	.42	.33	T350A335K016AS
4.7	5	0.6	5	4.5	7.6	2.54	399-1401-ND	.59	.51	.40	T350B475K016AS
6.8	4	0.9	5	5.0	8.4	2.54	399-1402-ND	.69	.59	.47	T350C685K016AS
10	3.2	1.3	6	5.5	8.9	2.54	399-1403-ND	.71	.61	.48	T350E106K016AS
15	2.5	1.8	6	5.5	8.9	2.54	399-1404-ND	.93	.80	.63	T350E156K016AS
22	2	2.6	6	6.0	9.9	2.54	399-1405-ND	.93	.80	.63	T350F226K016AS
33	1.6	4.0	6	7.6	10.2	2.54	399-1406-ND	1.81	1.56	1.22	T350H336K016AS
47	1.3	5.6	6	8.4	12.7	5.08	399-1407-ND	2.77	2.38	1.87	T350J476K016AS
68	1	8.2	6	8.9	13.5	5.08	399-1408-ND	3.33	2.86	2.24	T350K686K016AS
100	0.8	10.0	8	8.9	16.0	5.08	399-1409-ND	7.14	6.12	4.80	T350L107K016AS
10	2.9	1.6	6	5.5	8.9	2.54	399-1410-ND	.88	.76	.60	T350E106K020AS
100	0.6	10.0	8	10.2	17.0	5.08	399-1411-ND	8.18	7.02	5.50	T350M107K020AS
1.0	10	0.5	3	4.5	7.1	2.54	399-1412-ND	.48	.42	.33	T350A105K025AS
1.5	8	0.5	5	4.5	7.1	2.54	399-1413-ND	.48	.42	.33	T350A155K025AS
2.2	6	0.5	5	4.5	7.6	2.54	399-1414-ND	.59	.51	.40	T350B225K025AS
3.3	5	0.7	5	4.5	7.6	2.54	399-1415-ND	.59	.51	.40	T350B335K025AS
4.7	4	0.9	5	5.0	8.4	2.54	399-1416-ND	.71	.61	.48	T350C475K025AS
6.8	3.1	1.4	5	5.5	8.9	2.54	399-1417-ND	.93	.80	.63	T350E685K025AS
10	2.5	2.0	6	5.5	8.9	2.54	399-1418-ND	.93	.80	.63	T350E106K025AS
15	2	3.0	6	6.3	10.2	2.54	399-1419-ND	2.00	1.71	1.34	T350G156K025AS
22	1.5	4.4	6	7.6	10.2	2.54	399-1420-ND	2.60	2.23	1.75	T350H226K025AS
33	1.2	6.6	6	8.4	12.7	5.08	399-1421-ND	3.33	2.86	2.24	T350J336K025AS
47	1	9.4	6	8.9	13.5	5.08	399-1422-ND	5.07	4.35	3.41	T350K476K025AS
10	26	0.5	3	4.5	7.1	2.54	399-1423-ND	.48	.42	.33	T350A104K035AS
15	21	0.5	3	4.5	7.1	2.54	399-1424-ND	.48	.42	.33	T350A154K035AS
22	17	0.5	3	4.5	7.1	2.54	399-1425-ND	.48	.42	.33	T350A224K035AS
33	15	0.5	3	4.5	7.1	2.54	399-1426-ND	.48	.42	.33	T350A334K035AS
47	13	0.5	3	4.5	7.1	2.54	399-1427-ND	.48	.42	.33	T350A474K035AS
68	10	0.5	3	4.5	7.1	2.54	399-1428-ND	.48	.42	.33	T350A684K035AS
1.0	8	0.5	3	4.5	7.1	2.54	399-1429-ND	.48	.42	.33	T350A105K035AS
1.5	6	0.5	5	4.5	7.6	2.54	399-1430-ND	.54	.47	.37	T350B155K035AS
2.2	5	0.6	5	5.0	8.4	2.54	399-1431-ND	.59	.51	.40	T350C225K035AS
3.3	4	0.9	5	5.0	8.6	2.54	399-1432-ND	.74	.63	.50	T350D335K035AS
4.7	3	1.3	5	5.5	8.9	2.54	399-1433-ND	.78	.68	.53	T350E475K035AS
6.8	2.5	1.9	5	6.0	9.9	2.54	399-1434-ND	.88	.76	.60	T350F685K035AS
10	2	2.8	6	6.3	10.2	2.54	399-1435-ND	1.50	1.29	1.01	T350G106K035AS
15	1.6	4.2	6	8.4	12.7	5.08	399-1436-ND	3.14	2.69	2.11	T350J156K035AS
22	1.3	6.2	6	8.9	13.5	5.08	399-1437-ND	3.14	2.69	2.11	T350K226K035AS
47	0.8	10.0	6	10.2	17.0	5.08	399-1438-ND	8.18	7.02	5.50	T350M476K035AS
10	26	0.5	3	4.5	7.1	2.54	399-1439-ND	.53	.45	.36	T350A104K050AS
15	21	0.5	3	4.5	7.1	2.54	399-1440-ND	.53	.45	.36	T350A154K050AS
22	17	0.5	3	4.5	7.1	2.54	399-1441-ND	.53	.45	.36	T350A224K050AS
33	15	0.5	3	4.5	7.1	2.54	399-1442-ND	.53	.45	.36	T350A334K050AS
47	13	0.5	3	4.5	7.6	2.54	399-1443-ND	.59	.51	.40	T350B474K050AS
68	10	0.5	3	4.5	7.6	2.54	399-1444-ND	.59	.51	.40	T350B684K050AS
1.0	8	0.5	3	4.5	7.6	2.54	399-1445-ND	.59	.51	.40	T350B105K050AS
1.5	5	0.6	5	5.5	8.9	2.54	399-1446-ND	.88	.76	.60	T350E155K050AS
2.2	3.5	0.9	5	5.5	8.9	2.54	399-1447-ND	.93	.80	.63	T350E225K050AS
3.3	3	1.3	5	6.0	9.9	2.54	399-1448-ND	1.03	.89	.70	T350F335K050AS
4.7	2.5	1.9	5	6.3	10.2	2.54	399-1449-ND	1.29	1.11	.87	T350G475K050AS
6.8	2	2.7	5	8.4	12.7	5.08	399-1450-ND	3.02	2.60	2.04	T350J685K050AS
10	1.6	4.0	6	8.9	13.5	5.08	399-1451-ND	5.32	4.56	3.58	T350K106K050AS

T356 Series

WV (DC)	Cap. (µF)	ESRΩ @ 100KHz @ +25°C	D.C.L. µA@ 25°C	Max. DF % @25°C 120Hz	Dim. (mm) D	H	LS	Digi-Key Part No.	Price Each 1	10	100	Kemet Part No.
6.3	4.7	10	0.5	5	4.5	8.6	5.08	399-1302-ND	.39	.34	.27	T356A475K006AS
	6.8	8	0.5	5	4.5	8.6	5.08	399-1303-ND	.48	.42	.33	T356A685K006AS
	10	6	0.5	6	4.5	8.9	5.08	399-1304-ND	.59	.51	.40	T356B106K006AS
	15	5	0.7	6	5.0	9.6	5.08	399-1305-ND	.66	.57	.45	T356C156K006AS
	22	3.7	1.1	6	5.0	9.9	5.08	399-1306-ND	.78	.68	.53	T356D226K006AS
	33	3	1.6	6	5.5	10.2	5.08	399-1307-ND	.83	.72	.56	T356E336K006AS
	47	2	2.3	6	6.0	11.2	5.08	399-1308-ND	.93	.80	.63	T356F476K006AS
	68	1.8	3.3	6	6.3	11.4	5.08	399-1309-ND	1.10	.95	.75	T356G686K006AS
	100	1.6	4.8	8	7.6	11.9	5.08	399-1310-ND	2.60	2.23	1.75	T356H107K006AS
	150	0.9	7.2	8	8.4	14.0	5.08	399-1311-ND	3.33	2.86	2.24	T356J157K006AS
10	2.2	13	0.5	5	4.5	8.6	5.08	399-1312-ND	.48	.42	.33	T356A225K010AS
	3.3	10	0.5	5	4.5	8.6	5.08	399-1313-ND	.48	.42	.33	T356A335K010AS
	4.7	8	0.5	5	4.5	8.6	5.08	399-1314-ND	.48	.42	.33	T356A475K010AS
	6.8	6	0.5	5	4.5	8.9	5.08	399-1315-ND	.66	.57	.45	T356B685K010AS
	10	5	0.8	6	5.0	9.6	5.08	399-1316-ND	.66	.57	.45	T356C106K010AS
	15	3.7	1.2	6	5.5	10.2	5.08	399-1317-ND	.78	.68	.53	T356E156K010AS
	22	2.7	1.8	6	5.5	10.2	5.08	399-1318-ND	.88	.76	.60	T356E226K010AS
	33	2.1	2.6	6	6.0	11.2	5.08	399-1319-ND	1.03	.89	.70	T356F336K010AS
	47	1.7	3.8	6	7.6	11.9	5.08	399-1320-ND	1.81	1.56	1.22	T356H476K010AS
	68	1.3	5.4	6	7.6	11.9	5.08	399-1321-ND	2.60	2.23	1.75	T356H686K010AS
	100	1	8.0	8	8.4	14.0	5.08	399-1322-ND	3.33	2.86	2.24	T356J107K010AS
16	1.5	10	0.5	5	4.5	8.6	5.08	399-1323-ND	.48	.42	.33	T356A155K016AS
	2.2	8	0.5	5	4.5	8.6	5.08	399-1324-ND	.48	.42	.33	T356A225K016AS
	3.3	6	0.5	5	4.5	8.6	5.08	399-1325-ND	.48	.42	.33	T356A335K016AS
	4.7	5	0.6	5	4.5	8.9	5.08	399-1326-ND	.59	.51	.40	T356B475K016AS
	6.8	4	0.9	5	5.0	9.6	5.08	399-1327-ND	.69	.59	.47	T356C685K016AS
	10	3.2	1.3	6	5.5	10.2	5.08	399-1328-ND	.71	.61	.48	T356E106K016AS
	15	2.5	1.8	6	5.5	10.2	5.08	399-1329-ND	.93	.80	.63	T356E156K016AS
	22	2	2.6	6	6.0	11.2	5.08	399-1330-ND	.93	.80	.63	T356F226K016AS
	33	1.6	4.0	6	7.6	11.9	5.08	399-1331-ND	1.81	1.56	1.22	T356H336K016AS
	47	1.3	5.6	6	8.4	14.0	5.08	399-1332-ND	2.77	2.38	1.87	T356J476K016AS
	68	1	8.2	6	8.9	15.5	5.08	399-1333-ND	3.33	2.86	2.24	T356K686K016AS
	100	0.8	10.0	8	8.9	18.1	5.08	399-1334-ND	7.14	6.12	4.80	T356L107K016AS
20	10	2.9	1.6	6	5.5	10.2	5.08	399-1335-ND	.88	.76	.60	T356E106K020AS
	100	0.6	10.0	8	10.2	18.8	5.08	399-1336-ND	8.18	7.02	5.50	T356M107K020AS
25	1.0	10	0.5	3	4.5	8.6	5.08	399-1337-ND	.48	.42	.33	T356A105K025AS
	1.5	8	0.5	5	4.5	8.6	5.08	399-1338-ND	.48	.42	.33	T356A155K025AS
	2.2	6	0.5	5	4.5	8.9	5.08	399-1339-ND	.59	.51	.40	T356B225K025AS
	3.3	5	0.7	5	4.5	8.9	5.08	399-1340-ND	.59	.51	.40	T356B335K025AS
	4.7	4	0.9	5	5.0	9.6	5.08	399-1341-ND	.71	.61	.48	T356C475K025AS
	6.8	3.1	1.4	5	5.5	10.2	5.08	399-1342-ND	.93	.80	.63	T356E685K025AS
	10	2.5	2.0	6	5.5	10.2	5.08	399-1343-ND	.93	.80	.63	T356E106K025AS
	15	2	3.0	6	6.3	11.4	5.08	399-1344-ND	2.00	1.71	1.34	T356G156K025AS
	22	1.5	4.4	6	7.6	11.9	5.08	399-1345-ND	2.60	2.23	1.75	T356H226K025AS
	33	1.2	6.6	6	8.4	14.0	5.08	399-1346-ND	3.33	2.86	2.24	T356J336K025AS
	47	1	9.4	6	8.9	15.5	5.08	399-1347-ND	5.07	4.35	3.41	T356K476K025AS
35	10	26	0.5	3	4.5	8.6	5.08	399-1348-ND	.48	.42	.33	T356A104K035AS
	15	21	0.5	3	4.5	8.6	5.08	399-1349-ND	.48	.42	.33	T356A154K035AS
	22	17	0.5	3	4.5	8.6	5.08	399-1350-ND	.48	.42	.33	T356A224K035AS
	33	15	0.5	3	4.5	8.6	5.08	399-1351-ND	.48	.42	.33	T356A334K035AS
	47	13	0.5	3	4.5	8.6	5.08	399-1352-ND	.48	.42	.33	T356A474K035AS
	68	10	0.5	3	4.5	8.6	5.08	399-1353-ND	.48	.42	.33	T356A684K035AS
	1.0	8	0.5	3	4.5	8.6	5.08	399-1354-ND	.48	.42	.33	T356A105K035AS
	1.5	6	0.5	5	4.5	8.9	5.08	399-1355-ND	.54	.47	.37	T356B155K035AS
	2.2	5	0.6	5	5.0	9.6	5.08	399-1356-ND	.59	.51	.40	T356C225K035AS
	3.3	4	0.9	5	5.0	9.9	5.08	399-1357-ND	.74	.63	.50	T356D335K035AS
	4.7	3	1.3	5	5.5	10.2	5.08	399-1358-ND	.78	.68	.53	T356E475K035AS
	6.8	2.5	1.9	5	6.0	11.2	5.08	399-1359-ND	.88	.76	.60	T356F685K035AS
	10	2	2.8	6	6.3	11.4	5.08	399-1360-ND	1.50	1.29	1.01	T356G106K035AS
	15	1.6	4.2	6	8.4	14.0	5.08	399-1361-ND	3.14	2.69	2.11	T356J156K035AS
	22	1.3	6.2	6	8.9	15.5	5.08	399-1362-ND	3.14	2.69	2.11	T356K226K035AS
	47	0.8	10.0	6	10.2	18.8	5.08	399-1363-ND	8.18	7.02	5.50	T356M476K035AS
50	10	26	0.5	3	4.5	8.6	5.08	399-1364-ND	.53	.45	.36	T356A104K050AS
	15	21	0.5	3	4.5	8.6	5.08	399-1365-ND	.53	.45	.36	T356A154K050AS
	22	17	0.5	3	4.5	8.6	5.08	399-1366-ND	.53	.45	.36	T356A224K050AS
	33	15	0.5	3	4.5	8.6	5.08	399-1367-ND	.53	.45	.36	T356A334K050AS
	47	13	0.5	3	4.5	8.9	5.08	399-1368-ND	.59	.51	.40	T356B474K050AS
	68	10	0.5	3	4.5	8.9	5.08	399-1369-ND	.59	.51	.40	T356B684K050AS
	1.0	8	0.5	3	4.5	8.9	5.08	399-1370-ND	.59	.51	.40	T356B105K050AS
	1.5	5	0.6	5	5.5	10.2	5.08	399-1371-ND	.88	.76	.60	T356E155K050AS
	2.2	3.5	0.9	5	5.5	10.2	5.08	399-1372-ND	.93	.80	.63	T356E225K050AS
	3.3	3	1.3	5	6.0	11.2	5.08	399-1373-ND	1.03	.89	.70	T356F335K050AS
	4.7	2.5	1.9	5	6.3	11.4	5.08	399-1374-ND	1.29	1.11	.87	T356G475K050AS
	6.8	2	2.7	5	8.4	14.0	5.08	399-1375-ND	3.02	2.60	2.04	T356J685K050AS
	10	1.6	4.0	6	8.9	15.5	5.08	399-1376-ND	5.32	4.56	3.58	T356K106K050AS

KEMET Surface Mount Tantalum Chip Capacitors

KEMET's family of solid tantalum chip capacitors are designed and manufactured with the requirements of surface mount technology in mind. These devices extend the advantages of solid tantalum technology to today's surface mount circuit applications.

Operating Temperature Range: -55°C to 125°C

T491 Series — Industrial

The leading choice in surface mount designs. This product meets or exceeds the requirements of EIA standard 535BAAC. The physical outline and dimensions of this series conform to this global standard.

This product was designed specifically for highly automated surface mount processes and equipment.

T494 Series — Low ESR, Industrial Grade

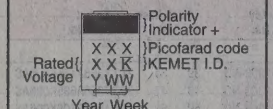
The T494 is a low ESR series that is available in all the same case sizes and CV ratings as the T491 Se
The T494 offers low ESR performance with the economy of an industrial grade device. This series is targ
for output filtering.

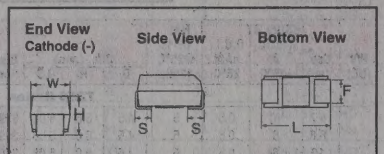
T495 Series — Low ESR, Surge Robust

Designed primarily for output filtering in switch-mode power supplies and DC-to-DC converters. The stan
CV T495 values are an excellent choice for battery-to-ground input filter applications.

This series offers several important advantages: Very low ESR, high ripple current capability, exce
capacitance stability and improved ability to withstand high inrush currents.

Capacitor Markings





Size Code	EIA Code	L	W	H	F ±0.1	S ±0.
A	3216-18	3.2±0.2	1.6±0.2	1.6±0.2	1.2	0.8
B	3528-21	3.5±0.2	2.8±0.2	1.9±0.2	2.2	0.8
C	6032-28	6.0±0.3	3.2±0.3	2.5±0.3	2.2	1.3
D	7343-31	7.3±0.3	4.3±0.3	2.8±0.3	2.4	1.3
E	7260-38	7.3±0.3	6.0±0.3	3.6±0.2	4.1	1.3
R	2012-12	2.0±0.2	1.3±0.2	1.2 Max.	0.9	0.5
T	3528-12	3.5±0.2	2.8±0.2	1.2 Max.	2.2	0.8
V	7343-20	7.3±0.3	4.3±0.3	2.0 Max.	2.4	1.3
X	7343-43	7.3±0.3	4.3±0.3	4.0±0.3	2.4	1.3

WV (DC)	Cap. (µF)	Cap. Tol. (%)	DC Leakage µA@+25°C Max.	DF % @+25°C 120Hz Max.	ESR Ω @+25°C 100KHz Max.	Size Code	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Size	Pricing	Kemet Part No.
							T491 Series — Industrial							
4	68	±10	2.8	30.0	4.0	A	399-3338-1-ND	.50	.44	.38	399-3338-2-ND	2,000	170.00/M	T491A686K004AS
	68	±10	2.7	6.0	0.8	D	399-1549-1-ND	.65	.57	.50	399-1549-2-ND	500	118.00	T491D686K004AS
	100	±20	4	30.0	4.0	A	399-3339-1-ND	.48	.42	.37	399-3339-2-ND	2,000	162.00/M	T491A107M004AS
	100	±20	4	8.0	1.0	B	399-3000-1-ND	.93	.81	.71	399-3000-2-ND	2,000	315.00/M	T491B107M004AS
	100	±20	4	30.0	5.0	T	399-3337-1-ND	1.60	1.39	1.22	399-3337-2-ND	2,500	542.00/M	T491T107M004AT
	100	±20	4	8.0	0.8	D	399-1550-1-ND	.65	.57	.50	399-1550-2-ND	500	118.00	T491D107M004AS
	150	±20	6	12.0	2.0	B	399-3340-1-ND	.93	.81	.71	399-3340-2-ND	2,000	315.00/M	T491B157M004AS
	330	±10	13.2	10.0	1.2	C	399-3304-1-ND	2.00	1.74	1.52	399-3304-2-ND	500	364.00	T491C337K004AS
6.3	6.8	±10	0.5	8.0	15	R	399-3230-1-ND	1.16	1.01	.89	399-3230-2-ND	2,500	394.00/M	T491R685K006AS
	10	±10	0.6	6.0	4.0	A	399-1551-1-ND	.20	.18	.16	399-1551-2-ND	2,000	68.00/M	T491A106K006AS
	10	±20	0.6	6.0	4.0	A	399-1552-1-ND	.20	.18	.16	399-1552-2-ND	2,000	68.00/M	T491A106M006AS
	10	±10	0.6	6.0	3.5	B	399-1553-1-ND	.28	.25	.22	399-1553-2-ND	2,000	96.00/M	T491B106K006AS
	22	±10	1.4	6.0	3.5	B	399-1554-1-ND	.30	.26	.23	399-1554-2-ND	2,000	100.00/M	T491B226K006AS
	22	±10	1.4	6.0	1.8	C	399-1555-1-ND	.39	.35	.30	399-1555-2-ND	500	71.50	T491C226K006AS
	47	±20	3	12.0	3.5	A	399-3341-1-ND	.48	.42	.37	399-3341-2-ND	2,000	162.00/M	T491A476M006AS
	47	±10	2.9	6.0	1.6	C	399-1556-1-ND	.43	.38	.33	399-1556-2-ND	500	77.50	T491C476K006AS
	68	±20	4.1	8.0	1.0	B	399-3001-1-ND	.93	.81	.71	399-3001-2-ND	2,000	315.00/M	T491B686M006AS
	68	±10	4.1	6.0	1.2	C	399-1557-1-ND	.52	.46	.40	399-1557-2-ND	500	94.50	T491C686K006AS
	68	±10	4.1	6.0	0.8	D	399-1558-1-ND	.65	.57	.50	399-1558-2-ND	500	118.00	T491D686K006AS
	100	±20	6.3	15.0	3.0	B	399-3195-1-ND	.93	.81	.71	399-3195-2-ND	2,000	315.00/M	T491B107M006AS
	220	±20	13.2	10.0	1.2	C	399-3208-1-ND	1.95	1.70	1.49	399-3208-2-ND	500	355.00	T491C227M006AS
	470	±20	28.2	12.0	0.5	D	399-3002-1-ND	4.63	4.03	3.52	399-3002-2-ND	500	842.00	T491D477M006AS
	680	±20	40.8	12.0	0.5	E	399-3094-1-ND	9.50	8.27	7.22	399-3094-2-ND	500	1729.00	T491E687M006AS
10	2.2	±10	0.5	6.0	8.0	A	399-1559-1-ND	.19	.17	.15	399-1559-2-ND	2,000	65.00/M	T491A225K010AS
	3.3	±10	0.5	6.0	6.0	A	399-1560-1-ND	.19	.17	.15	399-1560-2-ND	2,000	65.00/M	T491A335K010AS
	3.3	±10	0.3	8.0	15	R	399-3305-1-ND	1.16	1.01	.89	399-3305-2-ND	2,500	394.00/M	T491R335K010AS
	4.7	±10	0.5	6.0	6.0	A	399-1561-1-ND	.19	.17	.15	399-1561-2-ND	2,000	65.00/M	T491A475K010AS
	4.7	±20	0.5	6.0	6.0	A	399-1562-1-ND	.19	.17	.15	399-1562-2-ND	2,000	65.00/M	T491A475M010AS
	4.7	±10	0.5	6.0	3.5	B	399-1565-1-ND	.28	.25	.22	399-1565-2-ND	2,000	96.00/M	T491B475K010AS
	4.7	±20	0.5	6.0	3.5	B	399-1566-1-ND	.28	.25	.22	399-1566-2-ND	2,000	96.00/M	T491B475M010AS
	6.8	±10	0.7	6.0	3.5	B	399-1567-1-ND	.28	.25	.22	399-1567-2-ND	2,000	96.00/M	T491B685K010AS
	10	±10	1	6.0	4.0	A	399-1563-1-ND	.22	.19	.17	399-1563-2-ND	2,000	74.00/M	T491A106K010AS
	10	±20	1	6.0	4.0	A	399-1564-1-ND	.22	.19	.17	399-1564-2-ND	2,000	74.00/M	T491A106M010AS
	10	±10	1	6.0	3.5	B	399-1568-1-ND	.28	.25	.22	399-1568-2-ND	2,000	96.00/M	T491B106K010AS
	10	±20	1	6.0	3.5	B	399-1569-1-ND	.28	.25	.22	399-1569-2-ND	2,000	96.00/M	T491B106M010AS
	10	±10	1	6.0	1.8	C	399-1571-1-ND	.39	.35	.30	399-1571-2-ND	500	71.50	T491C106K010AS
	15	±10	1.5	6.0	3.5	B	399-1570-1-ND	.30	.26	.23	399-1570-2-ND	2,000	100.00/M	T491B156K010AS
	15	±10	1.5	6.0	1.8	C	399-1572-1-ND	.39	.35	.30	399-1572-2-ND	500	71.50	T491C156K010AS
	22	±20	2.2	10.0	6.0	A	399-3096-1-ND	.48	.42	.37	399-3096-2-ND	2,000	162.00/M	T491A226M010AS
	22	±10	2.2	6.0	1.8	C	399-1573-1-ND	.39	.35	.30	399-1573-2-ND	500	71.50	T491C226K010AS
	33	±10	3.3	6.0	0.8	D	399-1574-1-ND	.65	.57	.50	399-1574-2-ND	500	118.00	T491D336K010AS
	47	±20	4.7	8.0	1.0	B	399-3003-1-ND	.93	.81	.71	399-3003-2-ND	2,000	315.00/M	T491B476M010AS
	47	±10	4.7	6.0	1.2	C	399-1575-1-ND	.52	.46	.40	399-1575-2-ND	500	94.50	T491C476K010AS
	47	±20	4.7	6.0	1.2	C	399-1576-1-ND	.52	.46	.40	399-1576-2-ND	500	94.50	T491C476M010AS
	47	±10	4.7	6.0	0.8	D	399-1577-1-ND	.65	.57	.50	399-1577-2-ND	500	118.00	T491D476K010AS
	47	±20	4.7	6.0	0.8	D	399-1578-1-ND	.65	.57	.50	399-1578-2-ND	500	118.00	T491D476M010AS
	100	±10	10	8.0	0.7	D	399-1579-1-ND	.78	.68	.60	399-1579-2-ND	500	142.00	T491D107K010AS
	100	±20	10	8.0	0.7	D	399-1580-1-ND	.78	.68	.60	399-1580-2-ND	500	142.00	T491D107M010AS
	150	±10	15	10.0	1.2	C	399-3231-1-ND	2.00	1.74	1.52	399-3231-2-ND	500	364.00	T491C157K010AS
	150	±20	15	8.0	0.7	D	399-1581-1-ND	1.00	.88	.77	399-1581-2-ND	500	182.00	T491D157M010AS
	220	±10	22	12.0	0.7	V	399-3367-1-ND	3.50	3.05	2.66	399-3367-2-ND	1,000	1190.00	T491V227K010AS
	220	±10	22	8.0	0.5	X	399-1582-1-ND	2.22	1.93	1.69	399-1582-2-ND	500	403.50	T491X227K010AS
	330	±20	33	10.0	0.5	D	399-3097-1-ND	4.63	4.03	3.52	399-3097-2-ND	500	842.00	T491D337M010AS
	470	±20	47	12.0	0.5	E	399-3095-1-ND	9.50	8.27	7.22	399-3095-2-ND	500	1729.00	T491E477M010AS
16	1.0	±10	0.5	4.0	10.0	A	399-1583-1-ND	.19	.17	.15	399-1583-2-ND	2,000	65.00/M	T491A105K016AS
	1.0	±20	0.5	4.0	10.0	A	399-1584-1-ND	.19	.17	.15	399-1584-2-ND	2,000	65.00/M	T491A105M016AS
	1.5	±10	0.5	6.0	8.0	A	399-1585-1-ND	.19	.17	.15	399-1585-2-ND	2,000	65.00/M	T491A155K016AS
	2.2	±10	0.5	6.0	6.0	A	399-1586-1-ND	.19	.17	.15	399-1586-2-ND	2,000	65.00/M	T491A225K016AS
	3.3	±10	0.5	6.0	3.5	B	399-1589-1-ND	.28	.25	.22	399-1589-2-ND	2,000	96.00/M	T491B335K016AS
	4.7	±10	0.8	6.0	6.0	A	399-1587-1-ND	.20	.18	.16	399-1587-2-ND	2,000	68.00/M	T491A475K016AS
	4.7	±20	0.8	6.0	6.0	A	399-1588-1-ND	.20	.18	.16	399-1588-2-ND	2,000	68.00/M	T491A475M016AS
	4.7	±10	0.8	6.0	3.5	B	399-1590-1-ND	.28	.25	.22	399-1590-2-ND	2,000	96.00/M	T491B475K016AS
	4.7	±20	0.8	6.0	3.5	B	399-1591-1-ND	.28	.25	.22	399-1591-2-ND	2,000	96.00/M	T491B475M016AS
	6.8	±20	1.1	6.0	1.9	C	399-1592-1-ND	.39	.35	.30	399-1592-2-ND	500	71.50	T491C685M016AS

NOTE: Parts with improved tolerances or voltages may be substituted within the same case size. These parts will provide performance equal to or better than those which you ordered. *(Contin*

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WV (DC)	Cap. (µF)	Cap. Tol. (%)	DC Leakage µA@+25°C Max.	DF % @+25°C 120Hz Max.	ESR Ω @+25°C 100KHz Max.	Size Code	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Size	Pricing	Kemet Part No.
	10	±20	1.6	10.0	7.0	A	399-3098-1-ND	.24	.21	.18	399-3098-2-ND	2,000	80.00/M	T491A106M016AS
	10	±10	1.6	6.0	3.5	B	399-1593-1-ND	.30	.26	.23	399-1593-2-ND	2,000	100.00/M	T491B106K016AS
	10	±20	1.6	6.0	3.5	B	399-1594-1-ND	.30	.26	.23	399-1594-2-ND	2,000	100.00/M	T491B106M016AS
	10	±10	1.6	6.0	1.8	C	399-1595-1-ND	.39	.35	.30	399-1595-2-ND	500	71.50	T491C106K016AS
	10	±20	1.6	6.0	1.8	C	399-1596-1-ND	.39	.35	.30	399-1596-2-ND	500	71.50	T491C106M016AS
	22	±20	3.5	6.0	2.2	B	399-3099-1-ND	.53	.47	.41	399-3099-2-ND	2,000	182.00/M	T491B226M016AS
	22	±10	3.6	6.0	1.6	C	399-1597-1-ND	.43	.38	.33	399-1597-2-ND	500	77.50	T491C226K016AS
	22	±20	3.6	6.0	1.6	C	399-1598-1-ND	.43	.38	.33	399-1598-2-ND	500	77.50	T491C226M016AS
	22	±10	3.6	6.0	0.8	D	399-1600-1-ND	.65	.57	.50	399-1600-2-ND	500	118.00	T491D226K016AS
16	33	±10	5.3	6.0	1.2	C	399-1599-1-ND	.52	.46	.40	399-1599-2-ND	500	94.50	T491C336K016AS
	33	±10	5.3	6.0	0.8	D	399-1601-1-ND	.65	.57	.50	399-1601-2-ND	500	118.00	T491D336K016AS
	33	±20	5.3	6.0	0.8	D	399-1602-1-ND	.65	.57	.50	399-1602-2-ND	500	118.00	T491D336M016AS
	47	±10	7.5	6.0	0.8	D	399-1603-1-ND	.65	.57	.50	399-1603-2-ND	500	118.00	T491D476K016AS
	100	±10	16	8.0	0.7	D	399-1604-1-ND	1.00	.88	.77	399-1604-2-ND	500	182.00	T491D107K016AS
	100	±20	16	8.0	0.7	D	399-1605-1-ND	1.00	.88	.77	399-1605-2-ND	500	182.00	T491D107M016AS
	100	±10	16	12	0.7	V	399-3366-1-ND	3.40	2.96	2.59	399-3366-2-ND	1,000	1156.00	T491V107K016AS
	100	±10	16	8.0	0.7	X	399-1606-1-ND	1.82	1.58	1.38	399-1606-2-ND	500	330.50	T491X107K016AS
	100	±20	16	8.0	0.7	X	399-1607-1-ND	1.82	1.58	1.38	399-1607-2-ND	500	330.50	T491X107M016AS
	150	±10	24	12.0	0.7	D	399-3365-1-ND	1.39	1.21	1.06	399-3365-2-ND	500	252.50	T491D157K016AS
	150	±10	24	8.0	0.5	X	399-1608-1-ND	2.22	1.93	1.69	399-1608-2-ND	500	403.50	T491X157K016AS
	1.0	±10	0.5	4.0	10.0	A	399-1609-1-ND	.19	.17	.15	399-1609-2-ND	2,000	65.00/M	T491A105K020AS
	1.0	±20	0.5	4.0	10.0	A	399-1610-1-ND	.19	.17	.15	399-1610-2-ND	2,000	65.00/M	T491A105M020AS
	1.0	±20	0.2	6.0	20.0	R	399-3209-1-ND	1.11	.97	.85	399-3209-2-ND	2,500	377.00/M	T491R105M020AS
	2.2	±10	0.5	6.0	3.5	B	399-1611-1-ND	.28	.25	.22	399-1611-2-ND	2,000	96.00/M	T491B225K020AS
	4.7	±10	1	6.0	3.5	B	399-1612-1-ND	.28	.25	.22	399-1612-2-ND	2,000	96.00/M	T491B475K020AS
	6.8	±10	1.4	6.0	1.9	C	399-1613-1-ND	.39	.35	.30	399-1613-2-ND	500	71.50	T491C685K020AS
	10	±10	2	6.0	1.8	C	399-1614-1-ND	.39	.35	.30	399-1614-2-ND	500	71.50	T491C106K020AS
20	22	±10	4.4	6.0	1.2	C	399-1615-1-ND	.52	.46	.40	399-1615-2-ND	500	94.50	T491C226K020AS
	22	±10	4.4	6.0	0.8	D	399-1616-1-ND	.65	.57	.50	399-1616-2-ND	500	118.00	T491D226K020AS
	22	±20	4.4	6.0	0.8	D	399-1617-1-ND	.65	.57	.50	399-1617-2-ND	500	118.00	T491D226M020AS
	33	±10	6.6	6.0	0.8	D	399-1618-1-ND	.65	.57	.50	399-1618-2-ND	500	118.00	T491D336K020AS
	47	±10	9.4	6.0	0.7	D	399-1619-1-ND	.78	.68	.60	399-1619-2-ND	500	142.00	T491D476K020AS
	68	±10	13.6	8.0	0.7	D	399-1620-1-ND	1.39	1.21	1.06	399-1620-2-ND	500	252.50	T491D686K020AS
	68	±10	13.6	6.0	0.7	X	399-1621-1-ND	1.82	1.58	1.38	399-1621-2-ND	500	330.50	T491X686K020AS
	100	±20	20	8.0	0.5	X	399-1622-1-ND	2.22	1.93	1.69	399-1622-2-ND	500	403.50	T491X107M020AS
	.47	±10	0.5	4.0	14.0	A	399-1623-1-ND	.19	.17	.15	399-1623-2-ND	2,000	65.00/M	T491A474K025AS
	1.0	±10	0.5	4.0	8.0	A	399-1624-1-ND	.20	.18	.16	399-1624-2-ND	2,000	68.00/M	T491A105K025AS
	1.5	±10	0.5	6.0	5.0	B	399-1625-1-ND	.28	.25	.22	399-1625-2-ND	2,000	96.00/M	T491B155K025AS
	2.2	±10	0.6	6.0	4.5	B	399-1626-1-ND	.30	.26	.23	399-1626-2-ND	2,000	100.00/M	T491B225K025AS
	2.2	±10	0.6	6.0	3.5	C	399-1627-1-ND	.39	.35	.30	399-1627-2-ND	500	71.50	T491C225K025AS
	2.2	±20	0.6	6.0	3.5	C	399-1628-1-ND	.39	.35	.30	399-1628-2-ND	500	71.50	T491C225M025AS
	4.7	±10	1.2	6.0	2.4	C	399-1629-1-ND	.39	.35	.30	399-1629-2-ND	500	71.50	T491C475K025AS
	4.7	±20	1.2	6.0	2.4	C	399-1630-1-ND	.39	.35	.30	399-1630-2-ND	500	71.50	T491C475M025AS
	6.8	±10	1.7	8.0	3.0	B	399-3363-1-ND	.53	.47	.41	399-3363-2-ND	2,000	182.00/M	T491B685K025AS
	6.8	±10	1.7	6.0	1.9	C	399-1631-1-ND	.39	.35	.30	399-1631-2-ND	500	71.50	T491C685K025AS
	6.8	±20	1.7	6.0	1.9	C	399-1632-1-ND	.39	.35	.30	399-1632-2-ND	500	71.50	T491C685M025AS
25	10	±10	2.5	6.0	1.5	C	399-1633-1-ND	.43	.38	.33	399-1633-2-ND	500	77.50	T491C106K025AS
	10	±20	2.5	6.0	1.5	C	399-1634-1-ND	.43	.38	.33	399-1634-2-ND	500	77.50	T491C106M025AS
	10	±10	2.5	6.0	1.0	D	399-1635-1-ND	.65	.57	.50	399-1635-2-ND	500	118.00	T491D106K025AS
	10	±20	2.5	6.0	1.0	D	399-1636-1-ND	.65	.57	.50	399-1636-2-ND	500	118.00	T491D106M025AS
	15	±10	3.8	6.0	1.0	D	399-1637-1-ND	.65	.57	.50	399-1637-2-ND	500	118.00	T491D156K025AS
	15	±20	3.8	6.0	1.0	D	399-1638-1-ND	.65	.57	.50	399-1638-2-ND	500	118.00	T491D156M025AS
	22	±10	5.5	8.0	1.5	C	399-3364-1-ND	.68	.60	.53	399-3364-2-ND	500	124.50	T491C226K025AS
	22	±10	5.5	6.0	0.8	D	399-1639-1-ND	.65	.57	.50	399-1639-2-ND	500	118.00	T491D226K025AS
	22	±20	5.5	6.0	0.8	D	399-1640-1-ND	.65	.57	.50	399-1640-2-ND	500	118.00	T491D226M025AS
	33	±10	8.3	6.0	0.7	X	399-1641-1-ND	1.82	1.58	1.38	399-1641-2-ND	500	330.50	T491X336K025AS
	33	±20	8.3	6.0	0.7	X	399-1642-1-ND	1.82	1.58	1.38	399-1642-2-ND	500	330.50	T491X336M025AS
	47	±20	11.8	10.0	0.7	D	399-3210-1-ND	1.39	1.21	1.06	399-3210-2-ND	500	252.50	T491D476M025AS
	68	±20	17.0	8.0	0.7	X	399-3211-1-ND	2.22	1.93	1.69	399-3211-2-ND	500	403.50	T491X686M025AS
	.10	±10	0.5	4.0	10.0	A	399-1643-1-ND	.19	.17	.15	399-1643-2-ND	2,000	65.00/M	T491A104K035AS
	.10	±20	0.5	4.0	10.0	A	399-1644-1-ND	.19	.17	.15	399-1644-2-ND	2,000	65.00/M	T491A104M035AS
	.33	±10	0.5	4.0	15.0	A	399-1645-1-ND	.19	.17	.15	399-1645-2-ND	2,000	65.00/M	T491A334K035AS
	1.0	±10	0.5	4.0	5.0	B	399-1646-1-ND	.28	.25	.22	399-1646-2-ND	2,000	96.00/M	T491B105K035AS
	1.0	±20	0.5	4.0	5.0	B	399-1647-1-ND	.28	.25	.22	399-1647-2-ND	2,000	96.00/M	T491B105M035AS
	2.2	±10	0.8	6.0	3.5	C	399-1648-1-ND	.39	.35	.30	399-1648-2-ND	500	71.50	T491C225K035AS
	3.3	±20	1.2	6.0	3.5	B	399-3100-1-ND	.53	.47	.41	399-3100-2-ND	2,000	182.00/M	T491B335M035AS
	3.3	±20	1.2	6.0	2.5	C	399-1649-1-ND	.39	.35	.30	399-1649-2-ND	500	71.50	T491C335M035AS
	4.7	±10	1.7	6.0	2.5	C	399-1650-1-ND	.43	.38	.33	399-1650-2-ND	500	77.50	T491C475K035AS
35	4.7	±10	1.7	6.0	1.5	D	399-1651-1-ND	.65	.57	.50	399-1651-2-ND	500	118.00	T491D475K035AS
	6.8	±20	2.4	6.0	2.0	C	399-1652-1-ND	.52	.46	.40	399-1652-2-ND	500	94.50	T491C685M035AS
	6.8	±10	2.4	6.0	1.3	D	399-1653-1-ND	.65	.57	.50	399-1653-2-ND	500	118.00	T491D685K035AS
	10	±10	3.5	6.0	1.0	D	399-1654-1-ND	.65	.57	.50	399-1654-2-ND	500	118.00	T491D106K035AS
	10	±20	3.5	6.0	1.0	D	399-1655-1-ND	.65	.57	.50	399-1655-2-ND	500	118.00	T491D106M035AS
	15	±10	5.3	6.0	0.8	D	399-1656-1-ND	.78	.68	.60	399-1656-2-ND	500	142.00	T491D156K035AS
	15	±10	5.3	6.0	0.9	X	399-3232-1-ND	1.82	1.58	1.38	399-3232-2-ND	500	330.50	T491X156K035AS
	22	±10	7.7	6.0	0.7	X	399-1657-1-ND	1.82	1.58	1.38	399-1657-2-ND	500	330.50	T491X226K035AS
	22	±20	7.7	6.0	0.7	X	399-1658-1-ND	1.82	1.58	1.38	399-1658-2-ND	500	330.50	T491X226M035AS
	47	±10	16.5	8.0	0.6	X	399-3306-1-ND	2.62	2.29	2.00	399-3306-2-ND	500	477.50	T491X476K035AS
	.33	±20	0.5	4.0	10.0	B	399-1659-1-ND	.34	.30	.26	399-1659-2-ND	2,000	116.00/M	T491B334M050AS
	.47	±10	0.5	4.0	8.0	C	399-1660-1-ND	.49	.43	.37	399-1660-2-ND	500	88.50	T491C474K050AS
	1.0	±10	0.5	4.0	5.5	C	399-1661-1-ND	.49	.43	.37	399-1661-2-ND	500	88.50	T491C105K050AS
50	2.2	±10	1.1	6.0	2.5	D	399-1662-1-ND	.80	.70	.61	399-1662-2-ND	500	145.00	T491D225K050AS
	3.3	±20	1.7	6.0	2.0	D	399-1663-1-ND	.80	.70	.61	399-1663-2-ND	500	145.00	T491D335M050AS
	4.7	±10	2.4	6.0	1.5	D	399-1664-1-ND	.80	.70	.61	399-1664-2-ND	500	145.00	T491D475K050AS
	6.8	±20	3.4	6.0	1.0	D	399-3109-1-ND	.96	.84	.74	399-3109-2-ND	500	175.00	T491D685M050AS
							T494 Series — Low ESR, Industrial Grade							
4	68	±10	2.8	30.0	3.0	A	399-3343-1-ND	.85	.74	.65	399-3343-2-ND	2,000	289.00/M	T494A686K004AS

NOTE: Parts with improved tolerances or voltages may be substituted within the same case size. These parts will provide performance equal to or better than those which you ordered. *(Continued)*

WV (DC)	Cap. (µF)	Cap. Tol. (%)	DC Leakage µA@+25°C Max.	DF % @+25°C 120Hz Max.	ESR Ω @+25°C 100KHz Max.	Size Code	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Size	Pricing	Kemet Part No.
4	100	±20	4	30.0	3.0	A	399-3344-1-ND	.83	.72	.63	399-3344-2-ND	2,000	281.00/M	T494A107M004AS
	100	±20	4	8.0	1.0	B	399-3004-1-ND	1.39	1.21	1.06	399-3004-2-ND	2,000	473.00/M	T494B107M004AS
	100	±20	4	30.0	4.5	T	399-3342-1-ND	1.99	1.73	1.52	399-3342-2-ND	2,500	676.00/M	T494T107M004AT
	150	±20	6	12.0	1.0	B	399-3345-1-ND	1.39	1.21	1.06	399-3345-2-ND	2,000	473.00/M	T494B157M004AS
	330	±10	13.2	10.0	0.9	C	399-3310-1-ND	2.60	2.27	1.98	399-3310-2-ND	500	473.00	T494C337K004AS
6.3	6.8	±10	0.5	8.0	10	R	399-3233-1-ND	1.45	1.27	1.11	399-3233-2-ND	2,500	493.00/M	T494R685K006AS
	47	±20	3	12.0	2.5	A	399-3346-1-ND	.83	.72	.63	399-3346-2-ND	2,000	281.00/M	T494A476M006AS
	68	±20	4.1	8.0	1.0	B	399-3005-1-ND	1.39	1.21	1.06	399-3005-2-ND	2,000	473.00/M	T494B686M006AS
	100	±20	6.3	15.0	1.5	B	399-3196-1-ND	1.39	1.21	1.06	399-3196-2-ND	2,000	473.00/M	T494B107M006AS
	220	±20	13.2	10.0	0.3	C	399-3212-1-ND	2.54	2.21	1.93	399-3212-2-ND	500	461.50	T494C227M006AS
	470	±20	28.2	12.0	0.5	D	399-3006-1-ND	8.20	7.14	6.24	399-3006-2-ND	500	1492.50	T494D477M006AS
10	2.2	±10	0.5	6.0	6.0	A	399-1772-1-ND	.60	.53	.46	399-1772-2-ND	2,000	204.00/M	T494A225K010AS
	3.3	±10	0.3	8.0	10	R	399-3311-1-ND	1.45	1.27	1.11	399-3311-2-ND	2,500	493.00/M	T494R335K010AS
	4.7	±10	0.5	6.0	1.5	B	399-1773-1-ND	.83	.72	.63	399-1773-2-ND	2,000	281.00/M	T494B475K010AS
	10	±20	1	6.0	0.8	B	399-1774-1-ND	.80	.70	.61	399-1774-2-ND	2,000	272.00/M	T494B106M010AS
	22	±20	2.2	10.0	4.5	A	399-3103-1-ND	.83	.72	.63	399-3103-2-ND	2,000	281.00/M	T494A226M010AS
	33	±10	3.3	6.0	2.00	B	399-1775-1-ND	1.35	1.18	1.03	399-1775-2-ND	2,000	459.00/M	T494B336K010AS
	47	±20	4.7	8.0	1.0	B	399-3007-1-ND	1.39	1.21	1.06	399-3007-2-ND	2,000	473.00/M	T494B476M010AS
	47	±10	4.7	6.0	0.30	C	399-1776-1-ND	1.63	1.42	1.24	399-1776-2-ND	500	296.00	T494C476K010AS
	100	±10	10	8.0	0.15	D	399-1777-1-ND	2.60	2.27	1.98	399-1777-2-ND	500	473.00	T494D107K010AS
	150	±10	15	10.0	0.9	C	399-3234-1-ND	2.60	2.27	1.98	399-3234-2-ND	500	473.00	T494C157K010AS
	220	±10	22	12	0.5	V	399-3372-1-ND	4.53	3.94	3.44	399-3372-2-ND	1,000	1539.00	T494V227K010AS
	330	±20	33	10.0	0.15	D	399-3104-1-ND	8.20	7.14	6.24	399-3104-2-ND	500	1492.50	T494D337M010AS
	330	±10	33	10.0	0.10	X	399-1778-1-ND	10.08	8.77	7.66	399-1778-2-ND	500	1833.50	T494X337K010AS
16	10	±20	1.6	10.0	3.0	A	399-3105-1-ND	.78	.68	.59	399-3105-2-ND	2,000	264.00/M	T494A106M016AS
	10	±10	1.6	6.0	0.8	B	399-1779-1-ND	.90	.79	.69	399-1779-2-ND	2,000	306.00/M	T494B106K016AS
	22	±20	3.5	6.0	0.8	B	399-3106-1-ND	1.30	1.14	.99	399-3106-2-ND	2,000	442.00/M	T494B226M016AS
	22	±10	3.6	6.0	0.35	C	399-1780-1-ND	1.43	1.25	1.09	399-1780-2-ND	500	260.50	T494C226K016AS
	22	±20	3.6	6.0	0.35	C	399-1781-1-ND	1.28	1.12	.98	399-1781-2-ND	500	233.00	T494C226M016AS
	22	±10	3.6	6.0	0.25	D	399-1782-1-ND	2.18	1.90	1.66	399-1782-2-ND	500	396.50	T494D226K016AS
	100	±10	16	12	0.5	V	399-3371-1-ND	4.42	3.85	3.36	399-3371-2-ND	1,000	1503.00	T494V107K016AS
	150	±10	24	12	0.4	D	399-3370-1-ND	7.15	6.23	5.44	399-3370-2-ND	500	1301.50	T494D157K016AS
	150	±10	24	8.0	0.15	X	399-1783-1-ND	8.78	7.64	6.67	399-1783-2-ND	500	1597.00	T494X157K016AS
20	1.0	±20	0.2	6.0	15.0	R	399-3213-1-ND	1.39	1.21	1.06	399-3213-2-ND	2,500	472.00/M	T494R105M020AS
	100	±20	20	8.0	0.15	X	399-1784-1-ND	8.32	7.24	6.33	399-1784-2-ND	500	1514.00	T494X107M020AS
25	6.8	±10	1.7	8.0	2.0	B	399-3368-1-ND	1.35	1.18	1.03	399-3368-2-ND	2,000	459.00/M	T494B685K025AS
	10	±10	2.5	6.0	0.6	C	399-1785-1-ND	1.43	1.25	1.09	399-1785-2-ND	500	260.50	T494C106K025AS
	10	±20	2.5	6.0	0.6	C	399-1786-1-ND	1.28	1.12	.98	399-1786-2-ND	500	233.00	T494C106M025AS
	10	±10	2.5	6.0	0.4	D	399-1787-1-ND	2.18	1.90	1.66	399-1787-2-ND	500	396.50	T494D106K025AS
	22	±10	5.5	8.0	1.0	C	399-3369-1-ND	1.69	1.47	1.29	399-3369-2-ND	500	307.50	T494C226K025AS
	47	±20	11.8	10.0	0.2	D	399-3214-1-ND	6.83	5.94	5.19	399-3214-2-ND	500	1242.00	T494D476M025AS
	68	±20	17.0	8.0	0.3	X	399-3215-1-ND	8.32	7.24	6.33	399-3215-2-ND	500	1514.00	T494X686M025AS
35	3.3	±20	1.2	6.0	1.3	B	399-3107-1-ND	1.30	1.14	.99	399-3107-2-ND	2,000	442.00/M	T494B335M035AS
	4.7	±10	1.7	6.0	0.7	D	399-1788-1-ND	2.18	1.90	1.66	399-1788-2-ND	500	396.50	T494D475K035AS
	10	±20	3.5	6.0	0.4	D	399-1789-1-ND	2.11	1.84	1.61	399-1789-2-ND	500	384.50	T494D106M035AS
	22	±10	7.7	6.0	0.30	X	399-1790-1-ND	7.15	6.23	5.44	399-1790-2-ND	500	1301.50	T494X226K035AS
	47	±10	16.5	8.0	0.5	X	399-3312-1-ND	10.08	8.77	7.66	399-3312-2-ND	500	1833.50	T494X476K035AS
50	2.2	±10	1.1	6.0	0.8	D	399-1791-1-ND	2.86	2.49	2.18	399-1791-2-ND	500	520.50	T494D225K050AS
	4.7	±10	2.4	6.0	0.6	D	399-1792-1-ND	2.86	2.49	2.18	399-1792-2-ND	500	520.50	T494D475K050AS
	6.8	±20	3.4	6.0	0.7	D	399-3108-1-ND	3.25	2.83	2.47	399-3108-2-ND	500	591.50	T494D685M050AS
	15	±10	7.5	8.0	0.4	X	399-3235-1-ND	9.75	8.49	7.41	399-3235-2-ND	500	1774.50	T494X156K050AS
T495 Series — Low ESR, Surge Robust														
4	150	±20	6	12.0	0.9	B	399-3347-1-ND	1.90	1.66	1.45	399-3347-2-ND	2,000	646.00/M	T495B157M004ASE900
	330	±10	13.2	12.0	0.7	C	399-3307-1-ND	2.30	2.01	1.75	399-3307-2-ND	500	418.50	T495C337K004ASE700
6.3	100	±20	6.3	15.0	0.70	B	399-3197-1-ND	1.90	1.66	1.45	399-3197-2-ND	2,000	646.00/M	T495B107M006ASE700
	220	±10	13.9	10.0	0.225	C	399-3236-1-ND	2.30	2.01	1.75	399-3236-2-ND	500	418.50	T495C227K006ASE225
	330	±10	20.8	8.0	0.10	D	399-3198-1-ND	2.00	1.74	1.52	399-3198-2-ND	500	364.00	T495D337K006ASE100
	330	±10	19.8	8.0	0.10	X	399-1793-1-ND	3.63	3.16	2.76	399-1793-2-ND	500	660.00	T495X337K006ASE100
	470	±10	29.6	12.0	0.125	D	399-3348-1-ND	4.60	4.01	3.50	399-3348-2-ND	500	837.00	T495D477K006ASE125
10	100	±10	10	8.0	0.10	D	399-1794-1-ND	1.76	1.54	1.34	399-1794-2-ND	500	320.50	T495D107K010ASE100
	150	±20	15	8.0	0.15	V	399-3110-1-ND	3.85	3.35	2.93	399-3110-2-ND	1,000	1309.00	T495V157M010ASE150
	220	±10	22	8.0	0.125	D	399-3313-1-ND	4.50	3.92	3.42	399-3313-2-ND	500	819.00	T495D227K010ASE125
	220	±20	22	12	0.15	V	399-3373-1-ND	3.95	3.44	3.01	399-3373-2-ND	1,000	1343.00	T495V227M010ASE150
	220	±10	22	8.0	0.10	X	399-1795-1-ND	3.63	3.16	2.76	399-1795-2-ND	500	660.00	T495X227K010ASE100
	330	±10	33	10.0	0.125	D	399-3349-1-ND	4.60	4.01	3.50	399-3349-2-ND	500	837.00	T495D337K010ASE125
	330	±10	33	10	0.06	X	399-3199-1-ND	3.00	2.61	2.28	399-3199-2-ND	500	546.00	T495X337K010ASE060
16	68	±10	10.9	6.0	0.15	D	399-3200-1-ND	1.20	1.05	.92	399-3200-2-ND	500	218.50	T495D686K016ASE150
	100	±10	16	8.0	0.10	X	399-1796-1-ND	3.42	2.98	2.60	399-1796-2-ND	500	621.50	T495X107K016ASE100
	100	±20	16	8.0	0.10	X	399-1797-1-ND	3.42	2.98	2.60	399-1797-2-ND	500	621.50	T495X107M016ASE100
	150	±10	24	8.0	0.10	X	399-3201-1-ND	2.50	2.18	1.90	399-3201-2-ND	500	455.00	T495X157K016ASE100
20	47	±10	7.5	4.0	0.15	X	399-1798-1-ND	2.63	2.29	2.00	399-1798-2-ND	500	478.00	T495X476K020ASE150
	47	±10	9.4	6.0	0.175	D	399-3202-1-ND	1.40	1.22	1.07	399-3202-2-ND	500	255.00	T495D476K020ASE175
	68	±10	13.6	8.0	0.15	D	399-3308-1-ND	4.25	3.70	3.23	399-3308-2-ND	500	773.50	T495D686K020ASE150
	68	±10	13.6	6.0	0.15	X	399-1799-1-ND	3.42	2.98	2.60	399-1799-2-ND	500	621.50	T495X686K020ASE150
25	33	±10	6.6	4.0	0.175	X	399-1800-1-ND	2.63	2.29	2.00	399-1800-2-ND	500	478.00	T495X336K025ASE175
	33	±10	8.3	6.0	0.3	D	399-3203-1-ND	1.40	1.22	1.07	399-3203-2-ND	500	255.00	T495D336K025ASE300
	47	±20	11.8	6.0	0.2	X	399-3204-1-ND	9.00	7.83	6.84	399-3204-2-ND	500	1638.00	T495X476M025ASE200
	68	±10	17	8.0	0.2	X	399-3205-1-ND	2.50	2.18	1.90	399-3205-2-ND	500	455.00	T495X686K025ASE200
35	6.8	±10	2.4	6.0	0.4	D	399-3206-1-ND	1.20	1.05	.92	399-3206-2-ND	500	218.50	T495D685K035ASE400
	22	±10	7.7	6.0	0.3	D	399-3207-1-ND	1.40	1.22	1.07	399-3207-2-ND	500	255.00	T495D226K035ASE300
	22	±10	7.7	6.0	0.275	X	399-1801-1-ND	3.42	2.98	2.60	399-1801-2-ND	500	621.50	T495X226K035ASE275
	47	±10	16.5	8.0	0.3	X	399-3350-1-ND	10.50	9.14	7.98	399-3350-2-ND	500	1911.00	T495X476K035ASE300
50	6.8	±10	3.4	6.0	0.3	D	399-3237-1-ND	3.75	3.27	2.85	399-3237-2-ND	500	682.50	T495D685K050ASE300
	15	±10	7.5	8.0	0.3	X	399-3309-1-ND	12.25	10.66	9.31	399-3309-2-ND	500	2229.50	T495X156K050ASE300

NOTE: Parts with improved tolerances or voltages may be substituted within the same case size. These parts will provide performance equal to or better than those which you ordered.

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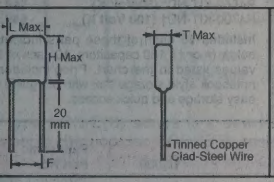
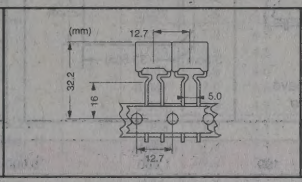
ASONIC ECQ-B CROSS REFERENCE: Sprague: 225P, 418P; **Mepco:** 713D1, 711D1, 719D1; **TRW:** PE, 601CPE; **Packtron:** PE, FM; **Secor:** MFDW, MFDR; **Roederstein:** KT1805, KT1806, KT1807, 398; **Wima:** FKS; **CSF Thompson:** ED (Dip); **Rubycon:** F2X, F2S, F3U; **Nichicon:** TDY; **Nissei:** AMZ, , AMR, AMM.

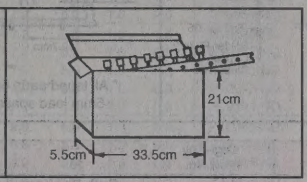
CIFICATIONS: • Operating Temp. Range: -40°C ~ 85°C **• Rated Voltage:** DC 50V, 100V, /. **• Capacitance Range:** .0001 ~ 0.47µF **• Capacitance Tolerance:** ±5% (J), ±10% (K) **• Dissipation or:** 1.0% (20°C, 1kHz) **• Withstand Voltage:** Between Terminals: rated voltage(V, DC) x 250% 1 ~ 5 sec. **• Insulation Resistance:** C ≤0.33µF: 30000MΩ min. (20°C, 50VDC 60s; ECQB1H(F), C>0.33µF: 10000MΩ·µF min. (20°C, 100VDC 60s: ECQB1(F), ECQB2(F) **• Construction:** Polyester film, non-inductive, epoxy coating.

FEATURES: High volumetric efficiency; non-inductive construction; low-loss, high stability; and epoxy resin coating.

APPLICATIONS: Blocking, by-pass and coupling of DC and signal to VHF range; pulse, logic and timing circuits; light duty pulse forming networks; filter & noise suppression circuits; and general purpose usage.







Panasonic Polyester Capacitors
Digi-Key® B-Series Kit
300 capacitors in all.
P4550-KIT-ND $29.95
Includes those parts listed below (*).

P4551-ND . . 80 pc.	P4555-ND . . 30 pc.	P4559-ND . . 30 pc.
P4552-ND . . 10 pc.	P4556-ND . . 10 pc.	P4560-ND . . 10 pc.
P4553-ND . . 20 pc.	P4557-ND . . 20 pc.	P4561-ND . . 30 pc.
P4554-ND . . 20 pc.	R4558-ND . . 20 pc.	P4562-ND . . 20 pc.

	Toler-ance	Dimensions (mm) L	T	H	F	Digi-Key Part No.	Pricing 10	100	1,000	5,000	Panasonic Part No.
						50WV (Bulk Pkg.)					
	±10%	7.0	3.0	6.0	5.0	P4570-ND	72	4.80	38.00	36.00/M	ECQ-B1H101KF
12	±10%	7.0	3.0	6.0	5.0	P4571-ND	72	4.80	38.00	36.00/M	ECQ-B1H121KF
15	±10%	7.0	3.0	6.0	5.0	P4572-ND	72	4.80	38.00	36.00/M	ECQ-B1H151KF
18	±10%	7.0	3.0	6.0	5.0	P4573-ND	72	4.80	38.00	36.00/M	ECQ-B1H181KF
22	±10%	7.0	3.0	6.0	5.0	P4574-ND	72	4.80	38.00	36.00/M	ECQ-B1H221KF
27	±10%	7.0	3.0	6.0	5.0	P4575-ND	72	4.80	38.00	36.00/M	ECQ-B1H271KF
33	±10%	7.0	3.0	6.0	5.0	P4576-ND	72	4.80	38.00	36.00/M	ECQ-B1H331KF
39	±10%	7.0	3.0	6.0	5.0	P4577-ND	72	4.80	38.00	36.00/M	ECQ-B1H391KF
47	±5%	7.0	3.0	6.0	5.0	P4578-ND	72	4.80	38.00	36.00/M	ECQ-B1H471JF
56	±5%	7.0	3.0	6.0	5.0	P4579-ND	72	4.80	38.00	36.00/M	ECQ-B1H561JF
68	±5%	7.0	3.0	6.0	5.0	P4580-ND	72	4.80	38.00	36.00/M	ECQ-B1H681JF
82	±5%	7.0	3.0	6.0	5.0	P4581-ND	72	4.80	38.00	36.00/M	ECQ-B1H821JF
	±5%	7.0	3.0	6.0	5.0	P4551-ND*	72	4.80	38.00	36.00/M	ECQ-B1H102JF
2	±5%	7.0	3.0	6.0	5.0	P4552-ND*	72	4.80	38.00	36.00/M	ECQ-B1H122JF
5	±5%	7.0	3.0	6.0	5.0	P4553-ND*	72	4.80	38.00	36.00/M	ECQ-B1H152JF
8	±5%	7.0	3.0	6.0	5.0	P4554-ND*	72	4.80	38.00	36.00/M	ECQ-B1H182JF
2	±5%	7.0	3.0	6.0	5.0	P4555-ND*	72	4.80	38.00	36.00/M	ECQ-B1H222JF
7	±5%	7.0	3.0	6.0	5.0	P4556-ND*	72	4.80	38.00	36.00/M	ECQ-B1H272JF
3	±5%	7.0	3.0	6.0	5.0	P4557-ND*	72	4.80	38.00	36.00/M	ECQ-B1H332JF
9	±5%	7.0	3.0	6.0	5.0	P4558-ND*	72	4.80	38.00	36.00/M	ECQ-B1H392JF
7	±5%	7.0	3.0	6.0	5.0	P4559-ND*	72	4.80	38.00	36.00/M	ECQ-B1H472JF
6	±5%	7.0	3.0	6.0	5.0	P4560-ND*	72	4.80	38.00	36.00/M	ECQ-B1H562JF
8	±5%	7.0	3.0	6.0	5.0	P4561-ND*	72	4.80	38.00	36.00/M	ECQ-B1H682JF
2	±5%	7.0	3.0	6.0	5.0	P4562-ND*	72	4.80	38.00	36.00/M	ECQ-B1H822JF
	±5%	7.0	3.0	6.0	5.0	P4582-ND	72	4.80	38.00	36.00/M	ECQ-B1H103JF
	±5%	7.3	3.3	6.0	5.0	P4583-ND	75	5.00	39.00	38.00/M	ECQ-B1H123JF
	±5%	7.5	3.0	6.0	5.0	P4584-ND	78	5.20	41.00	39.00/M	ECQ-B1H153JF
	±5%	7.5	3.0	6.0	5.0	P4585-ND	81	5.40	42.00	41.00/M	ECQ-B1H183JF
	±5%	7.5	3.0	6.0	5.0	P4586-ND	81	5.40	42.00	41.00/M	ECQ-B1H223JF
	±5%	7.5	3.5	6.5	5.0	P4587-ND	84	5.60	44.00	42.00/M	ECQ-B1H273JF
	±5%	7.5	3.5	6.5	5.0	P4569-ND	87	5.80	45.00	44.00/M	ECQ-B1H333JF
	±5%	7.5	4.0	7.0	5.0	P4588-ND	90	6.00	47.00	45.00/M	ECQ-B1H393JF
	±5%	7.5	4.0	7.5	5.0	P4589-ND	93	6.20	48.00	47.00/M	ECQ-B1H473JF
	±5%	8.0	4.3	7.5	5.0	P4590-ND	99	6.60	52.00	50.00/M	ECQ-B1H563JF
	±5%	8.0	4.3	8.5	5.0	P4591-ND	1.14	7.60	59.00	57.00/M	ECQ-B1H683JF
	±5%	8.0	4.5	9.0	5.0	P4592-ND	1.20	8.00	63.00	60.00/M	ECQ-B1H823J
	±5%	8.0	5.0	10.0	5.0	P4593-ND	1.29	8.60	67.00	65.00/M	ECQ-B1H104JF
	±5%	11.0	5.0	11.6	7.5	P4594-ND	3.15	21.00	164.00	159.00/M	ECQ-B1H124JF
	±5%	11.0	5.0	12.0	7.5	P4595-ND	3.39	22.60	177.00	171.00/M	ECQ-B1H154JF
	±5%	11.0	6.0	12.4	7.5	P4596-ND	3.54	23.60	184.00	178.00/M	ECQ-B1H184JF
	±5%	11.0	6.0	13.0	7.5	P4597-ND	3.96	26.40	206.00	199.00/M	ECQ-B1H224JF
	±5%	13.0	6.0	14.4	10.0	P4598-ND	4.95	33.00	258.00	249.00/M	ECQ-B1H274JF
	±5%	13.0	6.0	15.0	10.0	P4599-ND	5.34	35.60	278.00	269.00/M	ECQ-B1H334JF
	±5%	13.0	6.5	15.4	10.0	P4734-ND	5.76	38.40	300.00	290.00/M	ECQ-B1H394JF
	±5%	13.0	7.5	16.2	10.0	P4735-ND	6.33	42.20	330.00	319.00/M	ECQ-B1H474JF
						100WV (Bulk Pkg.)					
	±5%	7.2	3.0	6.0	5.0	P4773-ND	2.04	13.60	106.00	103.00/M	ECQ-B1101JF
2	±5%	7.2	3.0	6.0	5.0	P4774-ND	2.04	13.60	106.00	103.00/M	ECQ-B1121JF
5	±5%	7.2	3.0	6.0	5.0	P4775-ND	2.04	13.60	106.00	103.00/M	ECQ-B1151JF
8	±5%	7.2	3.0	6.0	5.0	P4776-ND	2.04	13.60	106.00	103.00/M	ECQ-B1181JF
22	±5%	7.2	3.0	6.0	5.0	P4777-ND	2.04	13.60	106.00	103.00/M	ECQ-B1221JF
27	±5%	7.2	3.0	6.0	5.0	P4778-ND	2.04	13.60	106.00	103.00/M	ECQ-B1271JF
33	±5%	7.2	3.0	6.0	5.0	P4779-ND	2.04	13.60	106.00	103.00/M	ECQ-B1331JF
39	±5%	7.2	3.0	6.0	5.0	P4780-ND	2.04	13.60	106.00	103.00/M	ECQ-B1391JF
47	±5%	7.2	3.0	6.0	5.0	P4781-ND	1.16	7.74	60.00	58.00/M	ECQ-B1471JF
56	±5%	7.2	3.0	6.0	5.0	P4782-ND	1.16	7.74	60.00	58.00/M	ECQ-B1561JF
68	±5%	7.2	3.0	6.0	5.0	P4783-ND	1.16	7.74	60.00	58.00/M	ECQ-B1681JF
82	±5%	7.2	3.0	6.0	5.0	P4784-ND	1.16	7.74	60.00	58.00/M	ECQ-B1821JF
	±5%	7.2	3.0	6.0	5.0	P4785-ND	1.16	7.74	60.00	58.00/M	ECQ-B1102JF
2	±5%	7.2	3.0	6.0	5.0	P4786-ND	1.16	7.74	60.00	58.00/M	ECQ-B1122JF
5	±5%	7.2	3.0	6.0	5.0	P4787-ND	1.16	7.74	60.00	58.00/M	ECQ-B1152JF
8	±5%	7.2	3.0	6.5	5.0	P4788-ND	1.16	7.74	60.00	58.00/M	ECQ-B1182JF
2	±5%	7.2	3.0	6.5	5.0	P4789-ND	1.16	7.74	60.00	58.00/M	ECQ-B1222JF
7	±5%	7.2	3.0	6.5	5.0	P4790-ND	1.16	7.74	60.00	58.00/M	ECQ-B1272JF
3	±5%	7.2	3.0	6.5	5.0	P4791-ND	1.16	7.74	60.00	58.00/M	ECQ-B1332JF
9	±5%	7.2	3.0	6.5	5.0	P4792-ND	1.16	7.74	60.00	58.00/M	ECQ-B1392JF
7	±5%	7.2	3.0	6.5	5.0	P4793-ND	1.16	7.74	60.00	58.00/M	ECQ-B1472JF
6	±5%	7.2	3.0	6.5	5.0	P4794-ND	1.16	7.74	60.00	58.00/M	ECQ-B1562JF
8	±5%	7.2	3.0	6.5	5.0	P4795-ND	1.16	7.74	60.00	58.00/M	ECQ-B1682JF
	±5%	7.2	3.2	7.0	5.0	P4796-ND	1.16	7.74	60.00	58.00/M	ECQ-B1822JF
	±5%	7.2	3.2	7.0	5.0	P4797-ND	1.16	7.74	60.00	58.00/M	ECQ-B1103JF
	±5%	7.2	3.5	7.0	5.0	P4798-ND	1.16	7.74	60.00	58.00/M	ECQ-B1123JF
	±5%	7.2	4.0	7.5	5.0	P4799-ND	1.20	8.02	63.00	61.00/M	ECQ-B1153JF
	±5%	7.2	4.5	8.0	5.0	P4647-ND	1.28	8.56	67.00	65.00/M	ECQ-B1183JF
	±5%	7.2	4.5	9.0	5.0	P4648-ND	1.38	9.22	72.00	70.00/M	ECQ-B1223JF
	±5%	7.5	5.0	9.5	5.0	P4649-ND	1.44	9.62	75.00	73.00/M	ECQ-B1273JF
	±5%	7.5	5.5	10.0	5.0	P4650-ND	1.47	9.80	77.00	74.00/M	ECQ-B1333JF
	±5%	7.5	6.0	11.2	5.0	P4651-ND	1.47	9.80	77.00	74.00/M	ECQ-B1393JF
	±5%	7.5	6.5	11.8	5.0	P4652-ND	1.49	9.90	77.00	75.00/M	ECQ-B1473JF
	±5%	10.0	5.0	12.0	7.5	P4653-ND	1.49	9.90	77.00	75.00/M	ECQ-B1563JF
	±5%	10.0	5.5	12.4	7.5	P4654-ND	1.52	10.12	79.00	76.00/M	ECQ-B1683JF
	±5%	10.0	5.5	14.0	7.5	P4655-ND	1.55	10.36	81.00	78.00/M	ECQ-B1823JF
	±5%	10.5	6.0	14.6	7.5	P4656-ND	1.59	10.58	83.00	80.00/M	ECQ-B1104JF
	±5%	10.5	7.0	15.2	7.5	P4657-ND	2.54	16.94	132.00	128.00/M	ECQ-B1124JF
	±5%	13.0	7.0	12.0	13.8	P4658-ND	3.05	20.32	159.00	153.00/M	ECQ-B1154JF

Cap. µF	Toler-ance	Dimensions (mm) L	T	H	F	Digi-Key Part No.	Pricing 10	100	1,000	5,000	Panasonic Part No.
						100WV (Bulk Pkg.)					
.18	±5%	13.0	7.5	14.4	10.0	P4659-ND	3.56	23.70	185.00	179.00/M	ECQ-B1184JF
.22	±5%	13.0	8.0	15.2	10.0	P4660-ND	4.06	27.08	212.00	205.00/M	ECQ-B1224JF
.27	±5%	13.0	8.5	17.2	10.0	P4661-ND	4.57	30.46	238.00	230.00/M	ECQ-B1274JF
.33	±5%	13.0	9.0	18.0	10.0	P4662-ND	5.08	33.84	264.00	256.00/M	ECQ-B1334JF
.39	±5%	13.0	10.5	19.0	10.0	P4663-ND	6.09	40.60	317.00	307.00/M	ECQ-B1394JF
.47	±5%	13.0	11.5	19.2	10.0	P4664-ND	7.61	50.74	396.00	383.00/M	ECQ-B1474JF
						200WV (Bulk Pkg.)					
.001	±5%	8.5	4.0	7.0	5.0	P4537A-ND	1.40	9.30	73.00	70.00/M	ECQ-B2102JF
.0012	±5%	8.5	4.0	7.5	5.0	P4538A-ND	1.40	9.30	73.00	70.00/M	ECQ-B2122JF
.0015	±5%	8.5	4.0	7.5	5.0	P4539A-ND	1.40	9.30	73.00	70.00/M	ECQ-B2152JF
.0018	±5%	8.5	4.5	7.5	5.0	P4540A-ND	1.40	9.30	73.00	70.00/M	ECQ-B2182JF
.0022	±5%	8.5	4.5	7.5	5.0	P4541A-ND	1.40	9.30	73.00	70.00/M	ECQ-B2222JF
.0027	±5%	8.5	4.5	8.0	5.0	P4542A-ND	1.40	9.30	73.00	70.00/M	ECQ-B2272JF
.0033	±5%	11.0	4.5	7.5	7.5	P4543A-ND	1.40	9.30	73.00	70.00/M	ECQ-B2332JF
.0039	±5%	11.0	4.5	7.5	7.5	P4544A-ND	1.40	9.30	73.00	70.00/M	ECQ-B2392JF
.0047	±5%	11.0	4.5	8.5	7.5	P4545A-ND	1.40	9.30	73.00	70.00/M	ECQ-B2472JF
.0056	+5%	11.0	4.5	8.5	7.5	P4546A-ND	1.40	9.30	73.00	70.00/M	ECQ-B2562JF
.0068	±5%	11.0	4.5	9.0	7.5	P4547A-ND	1.40	9.30	73.00	70.00/M	ECQ-B2682JF
.0082	±5%	11.0	4.5	9.0	7.5	P4548A-ND	1.40	9.30	73.00	70.00/M	ECQ-B2822JF
.01	±5%	11.0	4.5	10.0	7.5	P4549A-ND	1.40	9.30	73.00	70.00/M	ECQ-B2103JF
.012	±5%	11.0	5.0	10.5	7.5	P4550A-ND	1.40	9.30	73.00	70.00/M	ECQ-B2123JF
.015	±5%	11.0	5.5	10.5	7.5	P4551A-ND	1.44	9.62	75.00	73.00/M	ECQ-B2153JF
.018	±5%	11.0	5.5	12.2	7.5	P4552A-ND	1.55	10.30	80.00	78.00/M	ECQ-B2183JF
.022	±5%	11.0	6.0	12.6	7.5	P4553A-ND	1.66	11.08	87.00	84.00/M	ECQ-B2223JF
.027	±5%	11.0	6.5	13.2	7.5	P4554A-ND	1.73	11.56	90.00	87.00/M	ECQ-B2273JF
.033	±5%	11.0	7.0	13.6	7.5	P4555A-ND	1.77	11.78	92.00	89.00/M	ECQ-B2333JF
.039	±5%	13.5	5.0	14.4	10.0	P4556A-ND	1.77	11.78	92.00	89.00/M	ECQ-B2393JF
.047	±5%	13.5	5.5	14.8	10.0	P4557A-ND	1.78	11.88	93.00	90.00/M	ECQ-B2473JF
.056	±5%	13.5	6.0	15.4	10.0	P4558A-ND	1.78	11.88	93.00	90.00/M	ECQ-B2563JF
.068	±5%	16.0	5.5	15.0	12.5	P4559A-ND	1.82	12.16	95.00	92.00/M	ECQ-B2683JF
.082	±5%	16.0	6.0	15.4	12.5	P4560A-ND	1.86	12.42	97.00	94.00/M	ECQ-B2823JF
.1	±5%	16.0	7.0	16.0	12.5	P4561A-ND	1.91	12.70	99.00	96.00/M	ECQ-B2104JF
.12	±5%	19.0	6.5	17.6	15.0	P4562A-ND	3.05	20.34	159.00	154.00/M	ECQ-B2124JF
.15	±5%	19.0	7.5	18.4	15.0	P4563A-ND	3.66	24.38	190.00	184.00/M	ECQ-B2154JF
.18	±5%	19.0	8.0	19.0	15.0	P4564A-ND	4.27	28.44	222.00	215.00/M	ECQ-B2184JF
.22	±5%	19.0	9.0	20.0	15.0	P4565A-ND	4.88	32.50	254.00	245.00/M	ECQ-B2224JF
.27	±5%	24.0	8.0	19.4	20.0	P4566A-ND	5.48	36.56	286.00	276.00/M	ECQ-B2274JF
.33	±5%	24.0	9.0	20.4	20.0	P4567A-ND	6.09	40.62	317.00	307.00/M	ECQ-B2334JF
.39	±5%	24.0	10.0	21.2	20.0	P4568A-ND	7.31	48.72	381.00	368.00/M	ECQ-B2394JF
.47	±5%	24.0	11.5	22.2	20.0	P4569A-ND	9.14	60.92	476.00	460.00/M	ECQ-B2474JF

Cap. µF	Toler-ance	Dimensions (mm) L	T	H	F	Digi-Key Part No.	Tape & Box Size	Pricing	Panasonic Part No.
						50WV (Ammo Box Pkg.)			
.0001	±10%	7.0	3.0	6.0	5.0	P4570TB-ND	2,000	38.00/M	ECQ-B1H101KF3
.00012	±10%	7.0	3.0	6.0	5.0	P4571TB-ND	2,000	38.00/M	ECQ-B1H121KF3
.00015	±10%	7.0	3.0	6.0	5.0	P4572TB-ND	2,000	38.00/M	ECQ-B1H151KF3
.00018	±10%	7.0	3.0	6.0	5.0	P4573TB-ND	2,000	38.00/M	ECQ-B1H181KF3
.00022	±10%	7.0	3.0	6.0	5.0	P4574TB-ND	2,000	38.00/M	ECQ-B1H221KF3
.00027	±10%	7.0	3.0	6.0	5.0	P4575TB-ND	2,000	38.00/M	ECQ-B1H271KF3
.00033	±10%	7.0	3.0	6.0	5.0	P4576TB-ND	2,000	38.00/M	ECQ-B1H331KF3
.00039	±10%	7.0	3.0	6.0	5.0	P4577TB-ND	2,000	38.00/M	ECQ-B1H391KF3
.00047	±5%	7.0	3.0	6.0	5.0	P4578TB-ND	2,000	38.00/M	ECQ-B1H471JF3
.00056	±5%	7.0	3.0	6.0	5.0	P4579TB-ND	2,000	38.00/M	ECQ-B1H561JF3
.00068	±5%	7.0	3.0	6.0	5.0	P4580TB-ND	2,000	38.00/M	ECQ-B1H681JF3
.00082	±5%	7.0	3.0	6.0	5.0	P4581TB-ND	2,000	38.00/M	ECQ-B1H821JF3
.001	±5%	7.0	3.0	6.0	5.0	P4551TB-ND	2,000	38.00/M	ECQ-B1H102JF3
.0012	±5%	7.0	3.0	6.0	5.0	P4552TB-ND	2,000	38.00/M	ECQ-B1H122JF3
.0015	±5%	7.0	3.0	6.0	5.0	P4553TB-ND	2,000	38.00/M	ECQ-B1H152JF3
.0018	±5%	7.0	3.0	6.0	5.0	P4554TB-ND	2,000	38.00/M	ECQ-B1H182JF3
.0022	±5%	7.0	3.0	6.0	5.0	P4555TB-ND	2,000	38.00/M	ECQ-B1H222JF3
.0027	±5%	7.0	3.0	6.0	5.0	P4556TB-ND	2,000	38.00/M	ECQ-B1H272JF3
.0033	±5%	7.0	3.0	6.0	5.0	P4557TB-ND	2,000	38.00/M	ECQ-B1H332JF3
.0039	±5%	7.0	3.0	6.0	5.0	P4558TB-ND	2,000	38.00/M	ECQ-B1H392JF3
.0047	±5%	7.0	3.0	6.0	5.0	P4559TB-ND	2,000	38.00/M	ECQ-B1H472JF3
.0056	±5%	7.0	3.0	6.0	5.0	P4560TB-ND	2,000	38.00/M	ECQ-B1H562JF3
.0068	±5%	7.0	3.0	6.0	5.0	P4561TB-ND	2,000	38.00/M	ECQ-B1H682JF3
.0082	±5%	7.0	3.0	6.0	5.0	P4562TB-ND	2,000	38.00/M	ECQ-B1H822JF3
.01	±5%	7.0	3.0	6.0	5.0	P4582TB-ND	2,000	38.00/M	ECQ-B1H103JF3
.012	±5%	7.3	3.3	6.3	5.0	P4583TB-ND	2,000	39.00/M	ECQ-B1H123JF3
.015	±5%	7.5	3.0	6.0	5.0	P4584TB-ND	2,000	41.00/M	ECQ-B1H153JF3
.018	±5%	7.5	3.0	6.0	5.0	P4585TB-ND	2,000	42.00/M	ECQ-B1H183JF3
.022	±5%	7.5	3.0	6.0	5.0	P4586TB-ND	2,000	44.00/M	ECQ-B1H223JF3
.027	±5%	7.5	3.5	6.5	5.0	P4587TB-ND	2,000	44.00/M	ECQ-B1H273JF3
.033	±5%	7.5	3.5	6.5	5.0	P4569TB-ND	2,000	45.00/M	ECQ-B1H333JF3
.039	±5%	7.5	4.0	7.0	5.0	P4588TB-ND	2,000	47.00/M	ECQ-B1H393JF3
.047	±5%	7.5	4.0	7.5	5.0	P4589TB-ND	1,000	50.00	ECQ-B1H473JF3
.056	±5%	8.0	4.3	7.5	5.0	P4590TB-ND	1,000	52.00	ECQ-B1H563JF3
.068	±5%	8.0	4.3	8.5	5.0	P4591TB-ND	1,000	59.00	ECQ-B1H683JF3
.082	±5%	8.0	4.5	9.0	5.0	P4592TB-ND	1,000	63.00	ECQ-B1H823JF3
.1	±5%	8.0	5.0	10.0	5.0	P4593TB-ND	1,000	67.00	ECQ-B1H104JF3
.12	±5%	11.0	5.0	11.6	5.0	P4594TB-ND	1,000	153.00	ECQ-B1H124JF3
.15	±5%	11.0	5.0	12.0	5.0	P4595TB-ND	1,000	180.00	ECQ-B1H154JF3
.18	±5%	11.0	5.5	12.4	5.0	P4596TB-ND	500	87.50	ECQ-B1H184JF3
.22	±5%	11.0	6.0	13.0	5.0	P4597TB-ND	1,000	213.00	ECQ-B1H224JF3

Panasonic

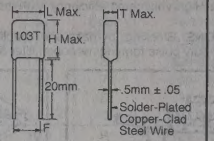
V-Series ±5% Stacked Metallized Film Capacitors

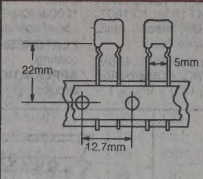
Suitable for Replacement of Monolit Ceramic Capacitors in Most Cases

FEATURES: • High volumetric efficiency • Low dissipation factor • Stacked and non-inductive construction • Operating temperature range: –40°C to +85°C • Temperature coefficient Δc/c: 200 ppm • Dissipation factor (max.): 1.0% • Insulation resistance (25°C): 1000MΩ μF • Self-healing

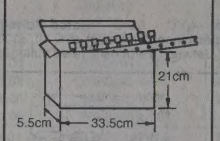
APPLICATIONS: • Blocking, by-pass and coupling of DC • Pulse, logic and timing circuits • Light duty pulse forming • Filter and noise suppression

PANASONIC ECQ-V CROSS REFERENCE
Sprague: 453P/454P. **CSF Thompson:** IRD. **Siemens:** B32509.
(To convert millimeters to inches divide by 25.4.)





* All taped parts have 5mm lead space.



* Panasonic V-Series Stac Metallized Film Capacito Digi-Key® V-Serie Capacitors Kit

P4542-KIT-ND* (50 Volt K).....$49.
P4700-KIT-ND† (100 Volt K).....$49

Includes 10 each of those parts indica below (* or †). 180 capacitors. 10 each of values listed in the part. Price include notebook style storage box with bin guide easy storage and quick access.

E

Working Voltage	Cap. μF	Dimensions (mm) L	T	H	F	Digi-Key Part No.	Pricing 10	100	1,000	5,000	10,000	Panasonic Part No.
Bulk Package												
	0.01	7.3	3.2	5.0	5.0	P4513-ND*	.95	7.90	47.00	44.00/M	41.00/M	ECQ-V1H103J
	0.012	7.3	3.2	5.0	5.0	P4514-ND	1.18	9.80	59.00	54.00/M	51.00/M	ECQ-V1H123J
	0.015	7.3	3.2	5.0	5.0	P4515-ND*	1.18	9.80	59.00	54.00/M	51.00/M	ECQ-V1H153J
	0.018	7.3	3.2	5.0	5.0	P4516-ND	1.18	9.80	59.00	54.00/M	51.00/M	ECQ-V1H183J
	0.022	7.3	3.2	5.0	5.0	P4517-ND*	1.25	10.38	62.00	58.00/M	54.00/M	ECQ-V1H223J
	0.027	7.3	3.2	5.0	5.0	P4518-ND*	1.28	10.65	64.00	59.00/M	55.00/M	ECQ-V1H273J
	0.033	7.3	3.2	5.0	5.0	P4519-ND*	1.34	11.20	67.00	62.00/M	58.00/M	ECQ-V1H333J
	0.039	7.3	3.2	5.0	5.0	P4520-ND	1.39	11.55	69.00	64.00/M	60.00/M	ECQ-V1H393J
	0.047	7.3	3.2	5.0	5.0	P4521-ND*	1.01	8.40	50.00	47.00/M	44.00/M	ECQ-V1H473J
	0.056	7.3	3.2	5.0	5.0	P4522-ND	1.01	8.40	50.00	47.00/M	44.00/M	ECQ-V1H563J
	0.068	7.3	3.2	5.0	5.0	P4523-ND*	1.04	8.70	52.00	48.00/M	45.00/M	ECQ-V1H683J
	0.082	7.3	3.6	5.0	5.0	P4524-ND*	1.08	8.98	54.00	50.00/M	47.00/M	ECQ-V1H823J
	0.1	7.3	4.0	5.0	5.0	P4525-ND*	1.08	8.98	54.00	50.00/M	47.00/M	ECQ-V1H104J
50	0.12	7.3	4.0	5.0	5.0	P4526-ND	1.14	9.53	57.00	53.00/M	49.00/M	ECQ-V1H124J
	0.15	10.2	3.4	9.0	7.5	P4538-ND	2.07	17.25	103.00	96.00/M	90.00/M	ECQ-V1H154J
	0.15	7.3	4.4	5.5	5.0	P4665-ND*	1.18	9.80	59.00	54.00/M	51.00/M	ECQ-V1H154J
	0.18	7.3	4.5	5.5	5.0	P4666-ND*	1.25	10.38	62.00	58.00/M	54.00/M	ECQ-V1H184J
	0.22	7.3	4.8	5.5	5.0	P4667-ND	1.34	11.20	67.00	62.00/M	58.00/M	ECQ-V1H224J
	0.27	7.3	4.6	7.0	5.0	P4668-ND*	1.41	11.78	70.00	65.00/M	61.00/M	ECQ-V1H274J
	0.33	7.3	5.2	7.0	5.0	P4669-ND*	1.51	12.60	75.00	70.00/M	65.00/M	ECQ-V1H334J
	0.39	7.3	5.7	7.3	5.0	P4670-ND	1.65	13.73	82.00	76.00/M	71.00/M	ECQ-V1H394J
	0.47	7.3	6.0	7.3	5.0	P4671-ND*	1.82	15.13	90.00	84.00/M	79.00/M	ECQ-V1H474J
	0.56	7.3	5.8	10.0	5.0	P4672-ND*	2.15	17.93	107.00	100.00/M	93.00/M	ECQ-V1H564J
	0.68	7.3	6.5	10.0	5.0	P4673-ND*	3.23	26.90	161.00	149.00/M	140.00/M	ECQ-V1H684J
	0.82	7.3	6.8	10.0	5.0	P4674-ND*	3.23	26.90	161.00	149.00/M	140.00/M	ECQ-V1H824J
	1.0	7.3	8.0	11.0	5.0	P4675-ND*	3.86	32.20	192.00	179.00/M	167.00/M	ECQ-V1H105J
	0.18	10.2	3.5	9.0	7.5	P4539-ND	1.23	10.25	61.00	57.00/M	53.00/M	ECQ-V1J184J
	0.22	10.2	3.5	9.0	7.5	P4540-ND	1.33	11.05	66.00	61.00/M	57.00/M	ECQ-V1J224J
	0.27	10.2	3.5	9.0	7.5	P4541-ND	1.40	11.63	69.00	65.00/M	60.00/M	ECQ-V1J274J
	0.33	10.2	3.8	9.0	7.5	P4549-ND	1.49	12.43	74.00	69.00/M	65.00/M	ECQ-V1J334J
63	0.39	10.2	4.0	9.0	7.5	P4543-ND	1.63	13.55	81.00	75.00/M	70.00/M	ECQ-V1J394J
	0.47	10.2	4.5	9.0	7.5	P4544-ND	1.79	14.93	89.00	83.00/M	78.00/M	ECQ-V1J474J
	0.56	10.2	4.9	9.0	7.5	P4545-ND	2.12	17.70	106.00	98.00/M	92.00/M	ECQ-V1J564J
	0.68	10.2	5.5	10.0	7.5	P4546-ND	3.18	26.53	158.00	147.00/M	138.00/M	ECQ-V1J684J
	0.82	10.2	6.1	10.0	7.5	P4547-ND	3.18	26.53	158.00	147.00/M	138.00/M	ECQ-V1J824J
	1.0	10.2	6.9	10.0	7.5	P4548-ND	3.81	31.75	190.00	176.00/M	165.00/M	ECQ-V1J105J
	0.01	7.3	3.2	7.0	5.0	P4713-ND†	1.28	10.65	64.00	59.00/M	55.00/M	ECQ-V1103JM
	0.012	7.3	3.2	7.0	5.0	P4714-ND	1.28	10.65	64.00	59.00/M	55.00/M	ECQ-V1123JM
	0.015	7.3	3.2	7.0	5.0	P4715-ND†	1.28	10.65	64.00	59.00/M	55.00/M	ECQ-V1153JM
	0.018	7.3	3.2	7.0	5.0	P4716-ND	1.35	11.28	67.00	63.00/M	59.00/M	ECQ-V1183JM
	0.022	7.3	3.2	7.0	5.0	P4717-ND†	1.39	11.55	69.00	64.00/M	60.00/M	ECQ-V1223JM
	0.027	7.3	3.2	7.0	5.0	P4718-ND†	1.46	12.18	73.00	68.00/M	63.00/M	ECQ-V1273JM
	0.033	7.3	3.2	7.0	5.0	P4719-ND†	1.51	12.55	75.00	70.00/M	65.00/M	ECQ-V1333JM
	0.039	7.3	3.2	7.0	5.0	P4720-ND†	1.10	9.15	55.00	51.00/M	48.00/M	ECQ-V1393JM
	0.047	7.3	4.0	7.0	5.0	P4721-ND†	1.10	9.15	55.00	51.00/M	48.00/M	ECQ-V1473JM
	0.056	7.3	4.2	7.0	5.0	P4722-ND†	1.13	9.45	56.00	52.00/M	49.00/M	ECQ-V1563JM
100	0.068	7.3	4.5	7.0	5.0	P4723-ND†	1.17	9.78	58.00	54.00/M	51.00/M	ECQ-V1683JM
	0.082	7.3	5.0	7.0	5.0	P4724-ND†	1.17	9.78	58.00	54.00/M	51.00/M	ECQ-V1823JM
	0.1	7.3	5.8	7.0	5.0	P4725-ND†	1.25	10.38	62.00	58.00/M	54.00/M	ECQ-V1104JM
	0.12	10.0	3.4	9.0	7.5	P4726-ND	1.28	10.65	64.00	59.00/M	55.00/M	ECQ-V1124JM
	0.15	10.0	3.8	9.0	7.5	P4727-ND†	1.35	11.28	67.00	63.00/M	59.00/M	ECQ-V1154JM
	0.18	10.0	4.0	9.0	7.5	P4728-ND†	1.46	12.18	73.00	68.00/M	63.00/M	ECQ-V1184JM
	0.22	10.0	4.3	9.0	7.5	P4729-ND†	1.54	12.80	76.00	71.00/M	66.00/M	ECQ-V1224JM
	0.27	10.0	5.2	10.0	7.5	P4730-ND†	1.64	13.68	82.00	76.00/M	71.00/M	ECQ-V1274JM
	0.33	10.0	5.9	10.0	7.5	P4731-ND†	1.79	14.93	89.00	83.00/M	78.00/M	ECQ-V1334JM
	0.39	10.0	7.5	11.0	7.5	P4732-ND†	1.97	16.43	98.00	91.00/M	85.00/M	ECQ-V1394JM
	0.47	10.0	8.1	11.0	7.5	P4733-ND†	2.34	19.48	116.00	108.00/M	101.00/M	ECQ-V1474JM

Working Voltage	Cap. μF	Dimensions (mm) L	T	H	F	Digi-Key Part No.	Pricing 1,000	2,000	5,000	6,000	10,000	26,000	Panasonic Part No.
Ammo Box Package													
	0.01	7.3	3.2	7.0	5.0	P4513TB-ND	—	57.00/M	—	53.00/M	49.00/M	46.00/M	ECQ-V1H103JL
	0.012	7.3	3.2	7.0	5.0	P4514TB-ND	—	59.00/M	—	54.00/M	51.00/M	48.00/M	ECQ-V1H123JL
	0.015	7.3	3.2	7.0	5.0	P4515TB-ND	—	59.00/M	—	54.00/M	51.00/M	48.00/M	ECQ-V1H153JL
	0.018	7.3	3.2	7.0	5.0	P4516TB-ND	—	59.00/M	—	54.00/M	51.00/M	48.00/M	ECQ-V1H183JL
	0.022	7.3	3.2	5.0	5.0	P4517TB-ND	—	44.00/M	—	41.00/M	38.00/M	36.00/M	ECQ-V1H223JL
	0.027	7.3	3.2	7.0	5.0	P4518TB-ND	—	64.00/M	—	59.00/M	55.00/M	52.00/M	ECQ-V1H273JL
	0.033	7.3	3.2	7.0	5.0	P4519TB-ND	—	67.00/M	—	62.00/M	58.00/M	55.00/M	ECQ-V1H333JL
	0.039	7.3	3.2	5.0	5.0	P4520TB-ND	—	69.00/M	—	64.00/M	60.00/M	56.00/M	ECQ-V1H393JL
	0.047	7.3	3.2	7.0	5.0	P4521TB-ND	—	50.00/M	—	47.00/M	44.00/M	41.00/M	ECQ-V1H473JL
	0.056	7.3	3.2	5.0	5.0	P4522TB-ND	—	50.00/M	—	47.00/M	44.00/M	41.00/M	ECQ-V1H563JL
	0.068	7.3	3.9	7.0	5.0	P4523TB-ND	—	52.00/M	—	48.00/M	45.00/M	42.00/M	ECQ-V1H683JL
	0.082	7.3	4.1	7.0	5.0	P4524TB-ND	—	54.00/M	—	50.00/M	47.00/M	44.00/M	ECQ-V1H823JL
	0.1	7.3	4.4	7.0	5.0	P4525TB-ND	—	54.00/M	—	50.00/M	47.00/M	44.00/M	ECQ-V1H104JL
50	0.12	7.3	4.7	7.0	5.0	P4526TB-ND	—	54.00/M	—	50.00/M	47.00/M	44.00/M	ECQ-V1H124JL
	0.15	10.0	3.4	9.0	5.0	P4527TB-ND	59.00	—	54.00/M	—	51.00/M	—	ECQ-V1H154JL
	0.18	10.0	3.5	9.0	5.0	P4528TB-ND	62.00	—	58.00/M	—	54.00/M	—	ECQ-V1H184JL
	0.22	10.0	3.7	9.0	5.0	P4529TB-ND	67.00	—	62.00/M	—	58.00/M	—	ECQ-V1H224JL
	0.27	10.0	4.0	9.0	5.0	P4530TB-ND	70.00	—	65.00/M	—	61.00/M	—	ECQ-V1H274JL
	0.33	10.0	4.2	9.0	5.0	P4531TB-ND	75.00	—	70.00/M	—	65.00/M	—	ECQ-V1H334JL
	0.39	10.0	4.9	9.0	5.0	P4532TB-ND	82.00	—	76.00/M	—	71.00/M	—	ECQ-V1H394JL
	0.47	10.0	5.5	10.0	5.0	P4533TB-ND	90.00	—	84.00/M	—	79.00/M	—	ECQ-V1H474JL
	0.56	10.0	6.1	10.0	5.0	P4534TB-ND	107.00	—	100.00/M	—	93.00/M	—	ECQ-V1H564JL
	0.68	10.0	6.8	10.0	5.0	P4535TB-ND	161.00	—	149.00/M	—	140.00/M	—	ECQ-V1H684JL
	0.82	7.3	6.8	10.0	5.0	P4536TB-ND	161.00	—	149.00/M	—	140.00/M	—	ECQ-V1H824JL
	1.0	7.3	8.0	11.0	5.0	P4537TB-ND	192.00	—	179.00/M	—	167.00/M	—	ECQ-V1H105JL

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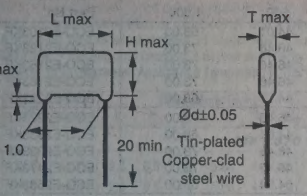
Panasonic® ECQ-E(B) Series Miniaturized Metallized Polyester Film Capacitors



type ECQ-E(B) series is a down-sized
sion of the popular ECQ-E(F) series. It
vides similar electrical characteristics in a
ller package.

TURES:
on-inductive construction
ound metallized polyester dielectric

PLICATIONS:
ocking, by-passing, filtering, timing, inter-
rence suppression, low pulse applications.

ECIFICATIONS:
rating temperature range: -40°C to +85°C
ed voltage: 250VDC
acitance tolerance: ±10%(K) @ 1kHZ
ipation factor: ≤1.0% (20°C 1kHz)
nstand voltage: 250VDC X 150% for 60 seconds between terminals.
lation resistance: ≥9,000MΩ (C ≤ 0.33μF)
00VDC, 20° for 60 seconds. ≥3,000MΩ · μF
0.33μF) @ 100VDC, 20° for 60 seconds.

Voltage (VDC)	Cap. (μF)	Dimensions (mm) L	T	H	F	G	dø	Digi-Key Part No.	Pricing 1	10	100	500	1,000	Panasonic Part No.
	0.01	7.9	4.2	7.1	5.0	1.0	0.5	P10955-ND	.30	2.06	14.52	50.16	79.00	ECQ-E2103KB
	0.012	7.9	4.2	7.1	5.0	1.0	0.5	P10956-ND	.30	2.06	14.52	50.16	79.00	ECQ-E2123KB
	0.015	7.9	4.2	7.1	5.0	1.0	0.5	P10957-ND	.30	2.06	14.52	50.16	79.00	ECQ-E2153KB
	0.018	7.9	4.3	7.2	5.0	1.0	0.5	P10958-ND	.30	2.06	14.52	50.16	79.00	ECQ-E2183KB
	0.022	7.9	4.3	7.2	5.0	1.0	0.5	P10959-ND	.30	2.06	14.52	50.16	79.00	ECQ-E2223KB
	0.027	7.9	4.3	7.2	5.0	1.0	0.5	P10960-ND	.30	2.06	14.52	50.16	79.00	ECQ-E2273KB
	0.033	7.9	4.3	7.2	5.0	1.0	0.5	P10961-ND	.30	2.06	14.52	50.16	79.00	ECQ-E2333KB
	0.039	7.9	4.5	7.4	5.0	1.0	0.5	P10962-ND	.30	2.06	14.52	50.16	79.00	ECQ-E2393KB
	0.047	7.9	4.5	7.4	5.0	1.0	0.5	P10963-ND	.25	1.68	11.88	41.04	65.00	ECQ-E2473KB
	0.056	7.9	4.7	7.7	5.0	1.0	0.5	P10964-ND	.30	2.06	14.52	50.16	79.00	ECQ-E2563KB
	0.068	7.9	5.1	8.0	5.0	1.0	0.5	P10965-ND	.25	1.85	13.20	47.52	74.00	ECQ-E2683KB
	0.082	7.9	5.4	8.6	5.0	1.0	0.5	P10966-ND	.27	2.02	14.40	51.84	81.00	ECQ-E2823KB
	0.1	7.9	5.9	9.0	5.0	1.0	0.5	P10967-ND	.30	2.02	14.27	49.31	78.00	ECQ-E2104KB
	0.12	7.9	5.7	10.6	5.0	1.0	0.5	P10968-ND	.32	2.35	16.80	60.48	94.00	ECQ-E2124KB
	0.15	7.9	6.3	11.2	5.0	1.0	0.5	P10969-ND	.34	2.49	17.78	63.99	100.00	ECQ-E2154KB
	0.18	10.3	5.0	9.7	7.5	1.0	0.5	P10970-ND	.36	2.62	18.73	67.41	105.00	ECQ-E2184KB
250	0.22	10.3	5.4	10.1	7.5	1.0	0.5	P10971-ND	.37	2.72	19.45	70.02	109.00	ECQ-E2224KB
	0.27	10.3	5.9	10.8	7.5	1.0	0.5	P10972-ND	.43	3.19	22.80	82.08	128.00	ECQ-E2274KB
	0.33	10.3	6.4	11.3	7.5	1.0	0.5	P10973-ND	.47	3.46	24.73	89.01	138.00	ECQ-E2334KB
	0.39	12.3	5.7	10.9	10.0	1.0	0.6	P10974-ND	.46	3.44	25.29	91.46	145.00	ECQ-E2394KB
	0.47	12.3	6.2	11.4	10.0	1.0	0.6	P10975-ND	.42	3.14	23.03	83.30	132.00	ECQ-E2474KB
	0.56	12.3	6.7	11.9	10.0	1.0	0.6	P10976-ND	.54	4.03	29.56	106.93	170.00	ECQ-E2564KB
	0.68	12.3	7.3	12.7	10.0	1.0	0.6	P10977-ND	.59	4.43	32.50	117.56	187.00	ECQ-E2684KB
	0.82	15.3	6.3	13.3	12.5	1.0	0.6	P10978-ND	.66	4.92	36.10	130.56	207.00	ECQ-E2824KB
	1.0	15.3	7.0	14.0	12.5	1.0	0.6	P10979-ND	.53	3.93	28.88	104.47	166.00	ECQ-E2105KB
	1.2	15.3	7.6	14.6	12.5	1.0	0.6	P10980-ND	.78	5.81	42.65	154.28	245.00	ECQ-E2125KB
	1.5	15.3	8.6	15.7	12.5	1.0	0.6	P10981-ND	.91	6.83	51.21	182.08	303.00	ECQ-E2155KB
	1.8	20.8	7.6	14.6	17.5	1.0	0.8	P10982-ND	1.00	7.52	56.39	200.48	333.00	ECQ-E2185KB
	2.2	20.8	8.4	15.6	17.5	1.0	0.8	P10983-ND	1.10	8.27	62.01	220.48	367.00	ECQ-E2225KB
	2.7	20.8	9.3	16.7	17.5	1.0	0.8	P10984-ND	1.24	9.33	70.00	248.88	414.00	ECQ-E2275KB
	3.3	20.8	10.5	17.9	17.5	1.0	0.8	P10985-ND	1.51	11.29	84.69	301.12	501.00	ECQ-E2335KB
	3.9	20.8	10.8	19.8	17.5	1.0	0.8	P10986-ND	2.13	16.10	121.54	455.78	790.00	ECQ-E2395KB
	4.7	20.8	11.9	21.0	17.5	1.0	0.8	P10987-ND	2.36	17.88	134.98	506.18	877.00	ECQ-E2475KB

E

Panasonic® ECQ-E(F) Series

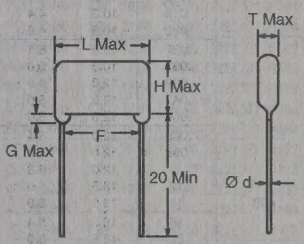
niaturized Metallized Polyester Film Capacitors

type ECQ-E(F) series is using a dual side metallized polyester with high dielectric constant(e) which makes it possible to duce large C-values in small dimensions, and is economical acitor meeting high requirements for professional circuit design.

TURES:
elf-healing property
ame retardant epoxy resin coating

PLICATIONS:
ocking, by-passing, filtering, timing, interference suppression, low lse applications.

SPECIFICATIONS:
Reference standard: JIS C5115, C5151
Operating temperature range: -40°C to +85°C (+105°C, 75% of Rated voltage)
Rated voltage: 100V, 250V, 400V, 630V
Capacitance tolerance: ±10% (K)
Dissipation factor: 1.0% Max. (20°C 1kHz)
Withstand voltage: Rated voltage DC100V ~ 630V (V.DC) X 150% 1 minute between terminals
Insulation resistance: DC100V ~ 630V: C ≤ 0.33μF 9,000MΩ Min., C > 0.33μF 3,000ΩVμF Min.



Working Voltage (VDC)	Capacitance (μF)	Dimensions (mm) L	T	H	F	G	d	Digi-Key Part No.	Pricing 1	10	100	500	1,000	Panasonic Part No.
	.01	7.8	4.6	7.7	5.0	1.0	0.5	EF1103-ND	.42	3.12	22.25	80.10	125.00	ECQ-E1103KF
	.012	7.8	4.5	7.6	5.0	1.0	0.5	EF1123-ND	.42	3.12	22.25	80.10	125.00	ECQ-E1123KF
	.015	7.8	4.5	7.6	5.0	1.0	0.5	EF1153-ND	.42	3.12	22.25	80.10	125.00	ECQ-E1153KF
	.018	7.8	4.6	7.7	5.0	1.0	0.5	EF1183-ND	.42	3.12	22.25	80.10	125.00	ECQ-E1183KF
	.022	7.8	4.9	8.0	5.0	1.0	0.5	EF1223-ND	.42	3.12	22.25	80.10	125.00	ECQ-E1223KF
	.027	7.8	4.7	7.8	5.0	1.0	0.5	EF1273-ND	.42	3.12	22.25	80.10	125.00	ECQ-E1273KF
	.033	7.8	4.6	7.7	5.0	1.0	0.5	EF1333-ND	.42	3.12	22.25	80.10	125.00	ECQ-E1333KF
	.039	7.8	4.9	8.0	5.0	1.0	0.5	EF1393-ND	.42	3.12	22.25	80.10	125.00	ECQ-E1393KF
	.047	7.8	4.5	7.5	5.0	1.0	0.5	EF1473-ND	.42	3.12	22.25	80.10	125.00	ECQ-E1473KF
	.056	7.8	4.8	7.9	5.0	1.0	0.5	EF1563-ND	.42	3.12	22.25	80.10	125.00	ECQ-E1563KF
	.068	7.8	4.8	7.9	5.0	1.0	0.5	EF1683-ND	.42	3.12	22.25	80.10	125.00	ECQ-E1683KF
	.082	7.8	4.7	9.9	5.0	1.0	0.5	EF1823-ND	.42	3.12	22.25	80.10	125.00	ECQ-E1823KF
	.1	7.8	5.0	10.0	5.0	1.0	0.5	EF1104-ND	.42	3.12	22.25	80.10	125.00	ECQ-E1104KF
	.12	10.3	4.5	7.5	7.5	1.0	0.6	EF1124-ND	.45	3.29	23.50	84.60	132.00	ECQ-E1124KF
	.15	10.3	4.5	7.5	7.5	1.0	0.6	EF1154-ND	.46	3.36	24.00	86.40	134.00	ECQ-E1154KF
	.18	10.3	4.8	7.9	7.5	1.0	0.6	EF1184-ND	.49	3.64	26.00	93.60	146.00	ECQ-E1184KF
	.22	10.3	5.0	8.0	7.5	1.0	0.6	EF1224-ND	.52	3.85	27.50	99.00	154.00	ECQ-E1224KF
	.27	10.3	4.5	12.0	7.5	1.0	0.6	EF1274-ND	.57	4.20	30.00	108.00	168.00	ECQ-E1274KF
100	.33	10.3	6.0	10.7	7.5	1.0	0.6	EF1334-ND	.65	4.76	34.00	122.40	190.00	ECQ-E1334KF
	.39	10.3	6.3	11.0	7.5	1.0	0.6	EF1394-ND	.67	4.90	35.00	126.00	196.00	ECQ-E1394KF
	.47	10.3	6.0	12.0	7.5	1.0	0.6	EF1474-ND	.69	5.11	36.50	131.40	204.00	ECQ-E1474KF
	.56	12.0	5.5	10.9	10.0	1.0	0.6	EF1564-ND	.73	5.44	39.95	144.50	230.00	ECQ-E1564KF
	.68	12.0	6.0	11.9	10.0	1.0	0.6	EF1684-ND	.83	6.18	45.36	164.05	261.00	ECQ-E1684KF
	.82	12.0	6.0	13.5	10.0	1.0	0.6	EF1824-ND	.91	6.75	49.59	179.35	285.00	ECQ-E1824KF
	1.0	12.0	6.7	14.0	10.0	1.0	0.6	EF1105-ND	.99	7.36	54.05	195.50	311.00	ECQ-E1105KF
	1.2	18.5	5.5	12.8	15.0	1.0	0.6	EF1125-ND	1.14	8.51	62.51	226.10	359.00	ECQ-E1125KF
	1.5	18.5	6.0	13.4	15.0	1.0	0.8	EF1155-ND	1.14	8.59	64.40	228.96	381.00	ECQ-E1155KF
	1.8	18.5	6.5	14.4	15.0	1.0	0.8	EF1185-ND	1.38	10.32	77.40	275.20	458.00	ECQ-E1185KF
	2.2	18.5	7.0	15.0	15.0	1.0	0.8	EF1225-ND	1.56	11.70	87.75	312.00	519.00	ECQ-E1225KF
	2.7	18.5	8.0	15.8	15.0	1.0	0.8	EF1275-ND	1.78	13.32	99.90	355.20	591.00	ECQ-E1275KF
	3.3	18.5	8.5	16.5	15.0	1.0	0.8	EF1335-ND	2.26	16.92	126.90	451.20	750.00	ECQ-E1335KF
	3.9	26.0	7.0	16.4	22.5	1.0	0.8	EF1395-ND	2.24	16.99	128.20	480.75	833.00	ECQ-E1395KF
	4.7	26.0	7.5	17.0	22.5	1.0	0.8	EF1475-ND	2.53	19.19	144.80	543.00	941.00	ECQ-E1475KF
	5.6	26.0	8.3	17.5	22.5	1.0	0.8	EF1565-ND	3.01	22.76	171.80	644.25	1117.00	ECQ-E1565KF
	6.8	26.0	9.0	18.5	22.5	1.0	0.8	EF1685-ND	3.42	25.86	195.20	732.00	1269.00	ECQ-E1685KF
	8.2	26.0	10.0	20.0	22.5	1.5	0.8	EF1825-ND	3.94	29.81	225.00	843.75	1463.00	ECQ-E1825KF
	10.0	26.0	11.5	21.0	22.5	1.5	0.8	EF1106-ND	4.58	34.69	261.80	981.75	1702.00	ECQ-E1106KF

(Continued)

Working Voltage (VDC)	Capacitance (µF)	Dimensions (mm) L	T	H	F	G	d	Digi-Key Part No.	Pricing 1	10	100	500	1,000	Panasonic Part No.
	.01	10.3	4.3	7.4	7.5	1.0	0.6	EF2103-ND	.23	1.71	12.23	44.01	68.00	ECQ-E2103KF
	.012	10.3	4.4	7.5	7.5	1.0	0.6	EF2123-ND	.28	1.91	13.45	46.46	73.00	ECQ-E2123KF
	.015	10.3	4.4	7.5	7.5	1.0	0.6	EF2153-ND	.28	1.91	13.45	46.46	73.00	ECQ-E2153KF
	.018	10.3	4.4	7.5	7.5	1.0	0.6	EF2183-ND	.28	1.91	13.45	46.46	73.00	ECQ-E2183KF
	.022	10.3	4.4	7.5	7.5	1.0	0.6	EF2223-ND	.23	1.71	12.23	44.01	68.00	ECQ-E2223KF
	.027	10.3	4.4	7.5	7.5	1.0	0.6	EF2273-ND	.28	1.91	13.45	46.46	73.00	ECQ-E2273KF
	.033	10.3	4.5	7.5	7.5	1.0	0.6	EF2333-ND	.23	1.71	12.23	44.01	68.00	ECQ-E2333KF
	.039	10.3	4.5	7.5	7.5	1.0	0.6	EF2393-ND	.28	1.91	13.45	46.46	73.00	ECQ-E2393KF
	.047	10.3	4.5	7.5	7.5	1.0	0.6	EF2473-ND	.28	1.91	13.45	46.46	73.00	ECQ-E2473KF
	.056	10.3	4.8	7.9	7.5	1.0	0.6	EF2563-ND	.33	2.23	15.73	54.34	86.00	ECQ-E2563KF
	.068	10.3	4.5	7.5	7.5	1.0	0.6	EF2683-ND	.29	2.15	15.35	55.26	86.00	ECQ-E2683KF
	.082	10.3	4.9	8.0	7.5	1.0	0.6	EF2823-ND	.25	1.86	13.28	47.79	74.00	ECQ-E2823KF
	.1	10.3	5.8	8.4	7.5	1.0	0.6	EF2104-ND	.31	2.07	14.60	50.45	80.00	ECQ-E2104KF
	.12	10.3	6.0	9.0	7.5	1.0	0.6	EF2124-ND	.30	2.18	15.60	56.16	87.00	ECQ-E2124KF
	.15	10.3	6.0	10.8	7.5	1.0	0.6	EF2154-ND	.32	2.33	16.65	59.94	93.00	ECQ-E2154KF
	.18	12.0	5.0	10.3	10.0	1.0	0.6	EF2184-ND	.38	2.80	20.03	72.09	112.00	ECQ-E2184KF
	.22	12.0	5.5	10.5	10.0	1.0	0.6	EF2224-ND	.40	2.91	20.80	74.88	116.00	ECQ-E2224KF
	.27	12.0	6.0	11.5	10.0	1.0	0.6	EF2274-ND	.43	3.17	22.63	81.45	127.00	ECQ-E2274KF
250	.33	12.0	6.5	12.0	10.0	1.0	0.6	EF2334-ND	.40	3.00	22.00	79.56	126.00	ECQ-E2334KF
	.39	18.5	4.9	12.0	15.0	1.0	0.6	EF2394-ND	.51	3.83	28.11	101.66	161.00	ECQ-E2394KF
	.47	18.5	5.3	12.5	15.0	1.0	0.6	EF2474-ND	.51	3.83	28.11	101.66	161.00	ECQ-E2474KF
	.56	18.5	5.5	13.0	15.0	1.0	0.6	EF2564-ND	.53	3.93	28.86	104.38	166.00	ECQ-E2564KF
	.68	18.5	6.0	13.5	15.0	1.0	0.8	EF2684-ND	.54	3.99	29.33	106.08	168.00	ECQ-E2684KF
	.82	18.5	6.5	14.5	15.0	1.0	0.8	EF2824-ND	.56	4.16	30.55	110.50	176.00	ECQ-E2824KF
	1.0	18.5	7.4	15.0	15.0	1.0	0.8	EF2105-ND	.58	4.33	31.77	114.92	183.00	ECQ-E2105KF
	1.2	18.5	8.0	15.9	15.0	1.0	0.8	EF2125-ND	.72	5.32	39.10	141.44	225.00	ECQ-E2125KF
	1.5	18.5	9.0	16.8	15.0	1.0	0.8	EF2155-ND	.75	5.62	42.12	149.76	249.00	ECQ-E2155KF
	1.8	26.0	7.5	15.5	22.5	1.0	0.8	EF2185-ND	.96	7.18	53.82	191.36	318.00	ECQ-E2185KF
	2.2	26.0	8.5	16.3	22.5	1.0	0.8	EF2225-ND	.92	6.86	51.48	183.04	304.00	ECQ-E2225KF
	2.7	26.0	9.4	17.0	22.5	1.0	0.8	EF2275-ND	1.17	8.80	65.99	234.64	390.00	ECQ-E2275KF
	3.3	26.0	10.3	18.0	22.5	1.5	0.8	EF2335-ND	1.19	8.89	66.69	237.12	394.00	ECQ-E2335KF
	3.9	26.0	11.0	20.5	22.5	1.5	0.8	EF2395-ND	1.14	8.60	64.90	243.38	422.00	ECQ-E2395KF
	4.7	26.0	12.0	21.5	22.5	1.5	0.8	EF2475-ND	1.27	9.65	72.80	273.00	473.00	ECQ-E2475KF
	5.6	31.0	11.8	21.0	27.5	1.5	0.8	EF2565-ND	2.18	16.51	124.60	467.25	810.00	ECQ-E2565KF
	6.8	31.0	13.0	22.4	27.5	1.5	0.8	EF2685-ND	2.32	17.56	132.50	496.88	861.00	ECQ-E2685KF
	8.2	31.0	14.3	23.5	27.5	1.5	0.8	EF2825-ND	2.50	18.96	143.12	536.70	930.00	ECQ-E2825KF
	10.0	31.0	15.9	25.8	27.5	1.5	0.8	EF2106-ND	4.48	33.90	255.84	959.40	1663.00	ECQ-E2106KF
	.01	10.3	4.3	7.4	7.5	1.0	0.6	EF4103-ND	.27	1.97	14.05	50.58	79.00	ECQ-E4103KF
	.012	10.3	4.4	7.5	7.5	1.0	0.6	EF4123-ND	.27	1.97	14.05	50.58	79.00	ECQ-E4123KF
	.015	10.3	4.4	7.5	7.5	1.0	0.6	EF4153-ND	.27	1.97	14.05	50.58	79.00	ECQ-E4153KF
	.018	10.3	4.4	7.5	7.5	1.0	0.6	EF4183-ND	.27	1.97	14.05	50.58	79.00	ECQ-E4183KF
	.022	10.3	4.8	7.9	7.5	1.0	0.6	EF4223-ND	.48	3.50	25.00	90.00	140.00	ECQ-E4223KF
	.027	10.3	5.5	8.0	7.5	1.0	0.6	EF4273-ND	.48	3.50	25.00	90.00	140.00	ECQ-E4273KF
	.033	10.3	6.0	9.0	7.5	1.0	0.6	EF4333-ND	.48	3.50	25.00	90.00	140.00	ECQ-E4333KF
	.039	12.0	4.9	8.0	10.0	1.0	0.6	EF4393-ND	.40	2.94	21.00	75.60	118.00	ECQ-E4393KF
	.047	12.0	5.0	8.3	10.0	1.0	0.6	EF4473-ND	.48	3.50	25.00	90.00	140.00	ECQ-E4473KF
	.056	12.0	5.0	10.0	10.0	1.0	0.6	EF4563-ND	.49	3.61	25.75	92.70	144.00	ECQ-E4563KF
	.068	12.0	5.4	10.5	10.0	1.0	0.6	EF4683-ND	.55	4.08	29.13	104.85	163.00	ECQ-E4683KF
	.082	12.0	5.8	11.0	10.0	1.0	0.6	EF4823-ND	.51	3.75	26.80	96.48	150.00	ECQ-E4823KF
	.1	12.0	6.3	12.0	10.0	1.0	0.6	EF4104-ND	.53	3.92	28.00	100.80	157.00	ECQ-E4104KF
	.12	18.5	5.0	10.0	15.0	1.0	0.6	EF4124-ND	.55	4.06	29.82	107.87	171.00	ECQ-E4124KF
400	.15	18.5	5.0	12.4	15.0	1.0	0.6	EF4154-ND	.56	4.20	30.81	111.44	177.00	ECQ-E4154KF
	.18	18.5	5.4	12.5	15.0	1.0	0.6	EF4184-ND	.60	4.46	32.76	118.49	188.00	ECQ-E4184KF
	.22	18.5	5.9	13.0	15.0	1.0	0.6	EF4224-ND	.70	5.23	38.38	138.81	220.00	ECQ-E4224KF
	.27	18.5	6.5	14.3	15.0	1.0	0.8	EF4274-ND	.71	5.26	38.63	139.74	222.00	ECQ-E4274KF
	.33	18.5	7.0	14.9	15.0	1.0	0.8	EF4334-ND	.76	5.66	41.55	150.28	239.00	ECQ-E4334KF
	.39	18.5	7.5	15.4	15.0	1.0	0.8	EF4394-ND	.83	6.16	45.21	163.54	260.00	ECQ-E4394KF
	.47	18.5	7.8	17.0	15.0	1.0	0.8	EF4474-ND	.95	7.06	51.82	187.43	298.00	ECQ-E4474KF
	.56	26.0	6.5	16.0	22.5	1.0	0.8	EF4564-ND	.96	7.18	53.82	191.36	318.00	ECQ-E4564KF
	.68	26.0	7.0	16.5	22.5	1.0	0.8	EF4684-ND	.77	5.77	43.29	153.92	256.00	ECQ-E4684KF
	.82	26.0	7.9	17.3	22.5	1.0	0.8	EF4824-ND	1.10	8.27	62.01	220.48	367.00	ECQ-E4824KF
	1.0	26.0	8.5	18.9	22.5	1.0	0.8	EF4105-ND	1.17	8.77	65.77	233.84	389.00	ECQ-E4105KF
	1.2	26.0	9.5	18.9	22.5	1.0	0.8	EF4125-ND	1.77	13.39	101.08	379.05	657.00	ECQ-E4125KF
	1.5	31.0	9.5	19.0	27.5	1.0	0.8	EF4155-ND	2.28	17.23	130.00	487.50	845.00	ECQ-E4155KF
	1.8	31.0	11.0	20.5	27.5	1.5	0.8	EF4185-ND	2.28	17.23	130.00	487.50	845.00	ECQ-E4185KF
	2.2	31.0	11.0	22.0	27.5	1.5	0.8	EF4225-ND	2.94	22.23	167.78	629.18	1091.00	ECQ-E4225KF
	.01	12.0	4.5	7.5	10.0	1.0	0.6	EF6103-ND	.32	2.37	16.90	60.84	95.00	ECQ-E6103KF
	.012	12.0	4.5	7.8	10.0	1.0	0.6	EF6123-ND	.40	2.95	21.08	75.87	118.00	ECQ-E6123KF
	.015	12.0	5.0	8.2	10.0	1.0	0.6	EF6153-ND	.44	3.28	23.40	84.24	131.00	ECQ-E6153KF
	.018	12.0	4.9	10.0	10.0	1.0	0.6	EF6183-ND	.45	3.35	23.93	86.13	134.00	ECQ-E6183KF
	.022	12.0	5.3	10.5	10.0	1.0	0.6	EF6223-ND	.46	3.42	24.45	88.02	137.00	ECQ-E6223KF
	.027	12.0	5.5	10.9	10.0	1.0	0.6	EF6273-ND	.47	3.46	24.70	88.92	138.00	ECQ-E6273KF
	.033	12.0	6.0	11.9	10.0	1.0	0.6	EF6333-ND	.49	3.59	25.68	92.43	144.00	ECQ-E6333KF
	.039	12.0	6.0	13.4	10.0	1.0	0.6	EF6393-ND	.48	3.53	25.23	90.81	141.00	ECQ-E6393KF
	.047	12.0	6.5	13.5	10.0	1.0	0.6	EF6473-ND	.48	3.53	25.23	90.81	141.00	ECQ-E6473KF
	.056	18.5	5.4	10.5	15.0	1.0	0.6	EF6563-ND	.48	3.60	26.41	95.54	152.00	ECQ-E6563KF
	.068	18.5	5.8	11.0	15.0	1.0	0.6	EF6683-ND	.50	3.73	27.38	99.03	157.00	ECQ-E6683KF
	.082	18.5	6.5	12.0	15.0	1.0	0.6	EF6823-ND	.51	3.83	28.11	101.66	161.00	ECQ-E6823KF
	.1	18.5	6.3	14.0	15.0	1.0	0.6	EF6104-ND	.55	4.13	30.32	109.65	174.00	ECQ-E6104KF
	.12	18.5	6.3	14.5	15.0	1.0	0.8	EF6124-ND	.58	4.29	31.54	114.07	181.00	ECQ-E6124KF
	.15	18.5	7.5	15.4	15.0	1.0	0.8	EF6154-ND	.60	4.49	32.99	119.34	190.00	ECQ-E6154KF
630	.18	18.5	8.0	16.0	15.0	1.0	0.8	EF6184-ND	.84	6.22	45.71	165.33	263.00	ECQ-E6184KF
	.22	18.5	9.0	16.5	15.0	1.0	0.8	EF6224-ND	.89	6.66	48.88	176.80	281.00	ECQ-E6224KF
	.27	26.0	7.0	16.5	22.5	1.0	0.8	EF6274-ND	.85	6.40	47.97	170.56	284.00	ECQ-E6274KF
	.33	26.0	7.8	17.0	22.5	1.0	0.8	EF6334-ND	.87	6.55	49.14	174.72	290.00	ECQ-E6334KF
	.39	26.0	8.5	17.9	22.5	1.0	0.8	EF6394-ND	1.09	8.18	61.31	218.00	362.00	ECQ-E6394KF
	.47	26.0	9.3	18.5	22.5	1.0	0.8	EF6474-ND	1.23	9.24	69.28	246.32	410.00	ECQ-E6474KF
	.56	26.0	10.0	20.0	22.5	1.5	0.8	EF6564-ND	1.29	9.67	72.54	257.92	429.00	ECQ-E6564KF
	.68	26.0	11.5	21.0	22.5	1.5	0.8	EF6684-ND	1.20	9.09	68.64	257.40	446.00	ECQ-E6684KF
	.82	31.0	11.3	20.5	27.5	1.5	0.8	EF6824-ND	1.74	13.15	99.22	372.08	645.00	ECQ-E6824KF
	1.0	31.0	12.5	21.9	27.5	1.5	0.8	EF6105-ND	1.82	13.78	104.00	390.00	676.00	ECQ-E6105KF
	1.2	31.0	13.5	23.0	27.5	1.5	0.8	EF6125-ND	1.84	13.92	105.04	393.90	683.00	ECQ-E6125KF
	1.5	31.0	15.3	24.7	27.5	1.5	0.8	EF6155-ND	2.09	15.79	119.20	447.00	775.00	ECQ-E6155KF
	1.8	31.0	16.8	27.0	27.5	1.5	0.8	EF6185-ND	2.32	17.56	132.50	496.88	861.00	ECQ-E6185KF
	2.2	31.0	19.5	29.0	27.5	1.5	0.8	EF6225-ND	3.57	27.01	203.84	764.40	1325.00	ECQ-E6225KF

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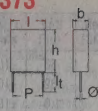
Metallized Polyester Film Capacitors MKT 370/371/372/373

RES: • Low-inductive wound cell of metallized (PETP) film • Potted with epoxy resin in a retardant case • Radial leads of solder-coated wire • Withstands solvents and rinsing liquids l stand-off pips to allow removal of solder flux • Suitable for high density packaging **CATIONS:** • Blocking and coupling • Bypass and energy reservoir **SPECIFICATIONS: Rated rature:** 85°C **Maximum Application Temperature:** 105°C



Cap. (µF)	Toler-ance	Dimensions (mm) b	h	l	P	l_t	ød$_t$	Digi-Key Part No.	Pricing 10	100	1,000	BC Components Part No.
MKT 370 Series												
.056	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1633-ND	1.08	7.20	54.00	2222 370 11563
.068	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1635-ND	1.08	7.20	54.00	2222 370 11683
.082	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1637-ND	1.08	7.20	54.00	2222 370 11823
.10	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1621-ND	.98	6.56	49.20	2222 370 11104
.12	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1623-ND	1.18	7.84	58.80	2222 370 11124
.15	±5%	2.5	6.5	7.2	5.08	4.0	.50	3014PH-ND	1.76	11.72	87.90	2222 370 12154
.15	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1625-ND	1.32	8.80	66.00	2222 370 11154
.18	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1627-ND	1.46	9.76	73.20	2222 370 11184
.22	±5%	3.5	8.0	7.2	5.08	4.0	.50	3015PH-ND	2.15	14.32	107.40	2222 370 12224
.22	±10%	3.5	8.0	7.2	5.08	4.0	.50	BC1628-ND	1.61	10.72	80.40	2222 370 11224
.27	±10%	3.5	8.0	7.2	5.08	4.0	.50	BC1629-ND	1.85	12.32	92.40	2222 370 11274
.33	±5%	3.5	8.0	7.2	5.08	4.0	.50	3016PH-ND	1.56	10.40	78.00	2222 370 12334
.33	±10%	3.5	8.0	7.2	5.08	4.0	.50	BC1630-ND	2.04	13.60	102.00	2222 370 11334
.39	±10%	3.5	8.0	7.2	5.08	4.0	.50	BC1631-ND	2.33	15.52	116.40	2222 370 11394
.47	±5%	3.5	8.0	7.2	5.08	4.0	.50	3017PH-ND	3.48	23.20	174.00	2222 370 12474
.47	±10%	3.5	8.0	7.2	5.08	4.0	.50	BC1632-ND	2.59	17.28	129.60	2222 370 11474
.56	±10%	4.5	9.0	7.2	5.08	4.0	.50	BC1634-ND	3.05	20.32	152.40	2222 370 11564
.68	±5%	4.5	9.0	7.2	5.08	4.0	.50	3018PH-ND	4.68	31.20	234.00	2222 370 12684
.68	±10%	4.5	9.0	7.2	5.08	4.0	.50	BC1636-ND	3.50	23.36	175.20	2222 370 11684
.82	±10%	6.0	11.0	7.2	5.08	4.0	.50	BC1638-ND	3.70	24.64	184.80	2222 370 11824
1.0	±5%	6.0	11.0	7.2	5.08	4.0	.50	3019PH-ND	5.07	33.80	253.50	2222 370 12105
1.0	±10%	6.0	11.0	7.2	5.08	4.0	.50	BC1622-ND	4.06	27.04	202.80	2222 370 11105
1.2*	±10%	6.0	11.0	7.2	5.08	4.0	.50	BC1624-ND	4.42	29.44	220.80	2222 370 11125
1.5*	±10%	6.0	11.0	7.2	5.08	4.0	.50	BC1626-ND	4.44	29.60	222.00	2222 370 11155
.012	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1640-ND	.94	6.24	46.80	2222 370 21123
.015	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1642-ND	.96	6.40	48.00	2222 370 21153
.018	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1644-ND	.96	6.40	48.00	2222 370 21183
.022	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1646-ND	.98	6.56	49.20	2222 370 21223
.027	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1648-ND	1.01	6.72	50.40	2222 370 21273
.033	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1650-ND	1.03	6.88	51.60	2222 370 21333
.039	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1652-ND	1.03	6.88	51.60	2222 370 21393
.047	±5%	2.5	6.5	7.2	5.08	4.0	.50	3011PH-ND	1.41	9.40	70.50	2222 370 22473
.047	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1654-ND	1.06	7.04	52.80	2222 370 21473
.056	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1656-ND	1.27	8.48	63.60	2222 370 21563
.068	±5%	2.5	6.5	7.2	5.08	4.0	.50	3012PH-ND	1.83	12.20	91.50	2222 370 22683
.068	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1657-ND	1.37	9.12	68.40	2222 370 21683
.082	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1658-ND	1.46	9.76	73.20	2222 370 21823
.10	±5%	3.5	8.0	7.2	5.08	4.0	.50	3013PH-ND	2.07	13.82	103.65	2222 370 22104
.10	±10%	3.5	8.0	7.2	5.08	4.0	.50	BC1639-ND	1.56	10.40	78.00	2222 370 21104
.12	±10%	3.5	8.0	7.2	5.08	4.0	.50	BC1641-ND	1.68	11.20	84.00	2222 370 21124
.15	±10%	3.5	8.0	7.2	5.08	4.0	.50	BC1643-ND	1.85	12.32	92.40	2222 370 21154
.18	±10%	3.5	8.0	7.2	5.08	4.0	.50	BC1645-ND	2.04	13.60	102.00	2222 370 21184
.22	±10%	4.5	9.0	7.2	5.08	4.0	.50	BC1647-ND	2.21	14.72	110.40	2222 370 21224
.27	±10%	4.5	9.0	7.2	5.08	4.0	.50	BC1649-ND	2.45	16.32	122.40	2222 370 21274
.33	±10%	4.5	9.0	7.2	5.08	4.0	.50	BC1651-ND	2.64	17.60	132.00	2222 370 21334
.39	±10%	6.0	11.0	7.2	5.08	4.0	.50	BC1653-ND	3.00	20.00	150.00	2222 370 21394
.47	±10%	6.0	11.0	7.2	5.08	4.0	.50	BC1655-ND	3.26	21.76	163.20	2222 370 21474
.0047	±5%	2.5	6.5	7.2	5.08	4.0	.50	3005PH-ND	1.22	8.12	60.90	2222 370 42472
.0068	±5%	2.5	6.5	7.2	5.08	4.0	.50	3006PH-ND	1.22	8.12	60.90	2222 370 42682
.010	±5%	2.5	6.5	7.2	5.08	4.0	.50	3007PH-ND	1.25	8.30	62.25	2222 370 42103
.015	±5%	2.5	6.5	7.2	5.08	4.0	.50	3008PH-ND	1.29	8.60	64.50	2222 370 42153
.022	±5%	3.5	8.0	7.2	5.08	4.0	.50	3009PH-ND	1.46	9.76	73.20	2222 370 42223
.033	±5%	3.5	8.0	7.2	5.08	4.0	.50	3010PH-ND	1.71	11.38	85.35	2222 370 42333
.0010	±5%	2.5	6.5	7.2	5.08	4.0	.50	3001PH-ND	1.22	8.12	60.90	2222 370 52102
.0010	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1659-ND	.91	6.08	45.60	2222 370 51102
.0012	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1661-ND	.91	6.08	45.60	2222 370 51122
.0015	±5%	2.5	6.5	7.2	5.08	4.0	.50	3002PH-ND	1.22	8.12	60.90	2222 370 52152
.0015	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1663-ND	.91	6.08	45.60	2222 370 51152
.0018	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1665-ND	.91	6.08	45.60	2222 370 51182
.0022	±5%	2.5	6.5	7.2	5.08	4.0	.50	3003PH-ND	1.22	8.12	60.90	2222 370 52222
.0022	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1667-ND	.91	6.08	45.60	2222 370 51222
.0027	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1669-ND	.91	6.08	45.60	2222 370 51272
.0033	±5%	2.5	6.5	7.2	5.08	4.0	.50	3004PH-ND	1.22	8.12	60.90	2222 370 52332
.0033	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1671-ND	.91	6.08	45.60	2222 370 51332
.0039	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1673-ND	.94	6.24	46.80	2222 370 51392
.0047	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1675-ND	.96	6.40	48.00	2222 370 51472
.0056	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1677-ND	.96	6.40	48.00	2222 370 51562
.0068	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1678-ND	.98	6.56	49.20	2222 370 51682
.0082	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1679-ND	1.01	6.72	50.40	2222 370 51822
.01	±10%	3.5	8.0	7.2	5.08	4.0	.50	BC1660-ND	1.03	6.88	51.60	2222 370 51103
.012	±10%	3.5	8.0	7.2	5.08	4.0	.50	BC1662-ND	1.03	6.88	51.60	2222 370 51123
.015	±10%	3.5	8.0	7.2	5.08	4.0	.50	BC1664-ND	1.06	7.04	52.80	2222 370 51153
.018	±10%	4.5	9.0	7.2	5.08	4.0	.50	BC1666-ND	1.10	7.36	55.20	2222 370 51183
.022	±10%	4.5	9.0	7.2	5.08	4.0	.50	BC1668-ND	1.18	7.84	58.80	2222 370 51223

Volt. (DC)	Cap. (µF)	Toler-ance	Dimensions (mm) b	h	l	P	l_t	ød$_t$	Digi-Key Part No.	Pricing 10	100	1,000	BC Components Part No.
400	.027	±10%	4.5	9.0	7.2	5.08	4.0	.50	BC1670-ND	1.30	8.64	64.80	2222 370 51273
	.033	±10%	6.0	11.0	7.2	5.08	4.0	.50	BC1672-ND	1.39	9.28	69.60	2222 370 51333
	.039	±10%	6.0	11.0	7.2	5.08	4.0	.50	BC1674-ND	1.49	9.92	74.40	2222 370 51393
	.047	±10%	6.0	11.0	7.2	5.08	4.0	.50	BC1676-ND	1.58	10.56	79.20	2222 370 51473
MKT 371 Series													
63	.056	±10%	2.5	6.5	10.0	7.62	4.0	.50	BC1688-ND	1.56	10.40	78.00	2222 371 11563
	.068	±10%	2.5	6.5	10.0	7.62	4.0	.50	BC1690-ND	1.58	10.56	79.20	2222 371 11683
	.082	±10%	2.5	6.5	10.0	7.62	4.0	.50	BC1692-ND	1.58	10.56	79.20	2222 371 11823
	.12	±10%	3.0	8.0	10.0	7.62	4.0	.50	BC1680-ND	1.66	11.04	82.80	2222 371 11124
	.15	±10%	3.0	8.0	10.0	7.62	4.0	.50	BC1681-ND	1.78	11.84	88.80	2222 371 11154
	.18	±10%	3.0	8.0	10.0	7.62	4.0	.50	BC1682-ND	1.92	12.80	96.00	2222 371 11184
	.22	±10%	3.0	8.0	10.0	7.62	4.0	.50	BC1683-ND	2.06	13.76	103.20	2222 371 11224
	.27	±10%	4.0	9.0	10.0	7.62	4.0	.50	BC1684-ND	2.28	15.20	114.00	2222 371 11274
	.33	±10%	4.0	9.0	10.0	7.62	4.0	.50	BC1685-ND	2.52	16.80	126.00	2222 371 11334
	.39	±10%	4.0	9.0	10.0	7.62	4.0	.50	BC1686-ND	2.76	18.40	138.00	2222 371 11394
	.47	±10%	4.0	9.0	10.0	7.62	4.0	.50	BC1687-ND	3.10	20.64	154.80	2222 371 11474
	.56	±10%	4.0	9.0	10.0	7.62	4.0	.50	BC1689-ND	3.46	23.04	172.80	2222 371 11564
	.68	±10%	4.0	9.0	10.0	7.62	4.0	.50	BC1691-ND	3.84	25.60	192.00	2222 371 11684
	.82	±10%	5.0	10.5	10.0	7.62	4.0	.50	BC1693-ND	4.20	28.00	210.00	2222 371 11824
100	.018	±10%	2.5	6.5	10.0	7.62	4.0	.50	BC1697-ND	1.56	10.40	78.00	2222 371 21183
	.022	±10%	2.5	6.5	10.0	7.62	4.0	.50	BC1699-ND	1.56	10.40	78.00	2222 371 21223
	.027	±10%	2.5	6.5	10.0	7.62	4.0	.50	BC1701-ND	1.56	10.40	78.00	2222 371 21273
	.033	±10%	2.5	6.5	10.0	7.62	4.0	.50	BC1703-ND	1.56	10.40	78.00	2222 371 21333
	.039	±10%	2.5	6.5	10.0	7.62	4.0	.50	BC1705-ND	1.56	10.40	78.00	2222 371 21393
	.047	±10%	2.5	6.5	10.0	7.62	4.0	.50	BC1707-ND	1.56	10.40	78.00	2222 371 21473
	.056	±10%	3.0	8.0	10.0	7.62	4.0	.50	BC1709-ND	1.58	10.56	79.20	2222 371 21563
	.068	±10%	3.0	8.0	10.0	7.62	4.0	.50	BC1710-ND	1.63	10.88	81.60	2222 371 21683
	.082	±10%	3.0	8.0	10.0	7.62	4.0	.50	BC1711-ND	1.66	11.04	82.80	2222 371 21823
	.10	±10%	3.0	8.0	10.0	7.62	4.0	.50	BC1694-ND	1.66	11.04	82.80	2222 371 21104
	.12	±10%	4.0	9.0	10.0	7.62	4.0	.50	BC1695-ND	1.68	11.20	84.00	2222 371 21124
	.15	±10%	4.0	9.0	10.0	7.62	4.0	.50	BC1696-ND	1.85	12.32	92.40	2222 371 21154
	.18	±10%	4.0	9.0	10.0	7.62	4.0	.50	BC1698-ND	1.97	13.12	98.40	2222 371 21184
	.22	±10%	4.0	9.0	10.0	7.62	4.0	.50	BC1700-ND	2.14	14.24	106.80	2222 371 21224
	.27	±10%	5.0	10.5	10.0	7.62	4.0	.50	BC1702-ND	2.35	15.68	117.60	2222 371 21274
	.33	±10%	5.0	10.5	10.0	7.62	4.0	.50	BC1704-ND	2.64	17.60	132.00	2222 371 21334
	.39	±10%	5.0	10.5	10.0	7.62	4.0	.50	BC1706-ND	2.90	19.36	145.20	2222 371 21394
	.47	±10%	5.0	10.5	10.0	7.62	4.0	.50	BC1708-ND	3.24	21.60	162.00	2222 371 21474
250	.0082	±10%	2.5	6.5	10.0	7.62	4.0	.50	BC1724-ND	1.90	12.64	94.80	2222 371 41822
	.01	±10%	2.5	6.5	10.0	7.62	4.0	.50	BC1712-ND	1.90	12.64	94.80	2222 371 41103
	.012	±10%	2.5	6.5	10.0	7.62	4.0	.50	BC1714-ND	1.90	12.64	94.80	2222 371 41123
	.015	±10%	2.5	6.5	10.0	7.62	4.0	.50	BC1715-ND	1.90	12.64	94.80	2222 371 41153
	.018	±10%	3.0	8.0	10.0	7.62	4.0	.50	BC1716-ND	1.92	12.80	96.00	2222 371 41183
	.022	±10%	3.0	8.0	10.0	7.62	4.0	.50	BC1717-ND	1.92	12.80	96.00	2222 371 41223
	.027	±10%	3.0	8.0	10.0	7.62	4.0	.50	BC1718-ND	1.94	12.96	97.20	2222 371 41273
	.033	±10%	3.0	8.0	10.0	7.62	4.0	.50	BC1719-ND	1.94	12.96	97.20	2222 371 41333
	.039	±10%	3.0	8.0	10.0	7.62	4.0	.50	BC1720-ND	1.97	13.12	98.40	2222 371 41393
	.047	±10%	3.0	8.0	10.0	7.62	4.0	.50	BC1721-ND	1.99	13.28	99.60	2222 371 41473
	.056	±10%	4.0	9.0	10.0	7.62	4.0	.50	BC1722-ND	2.02	13.44	100.80	2222 371 41563
	.068	±10%	4.0	9.0	10.0	7.62	4.0	.50	BC1723-ND	2.02	13.44	100.80	2222 371 41683
	.082	±10%	4.0	9.0	10.0	7.62	4.0	.50	BC1725-ND	2.06	13.76	103.20	2222 371 41823
	.10	±10%	4.0	9.0	10.0	7.62	4.0	.50	BC1713-ND	2.11	14.08	105.60	2222 371 41104
400	.0039	±10%	2.5	6.5	10.0	7.62	4.0	.50	BC1729-ND	1.87	12.48	93.60	2222 371 51392
	.0047	±10%	2.5	6.5	10.0	7.62	4.0	.50	BC1730-ND	1.87	12.48	93.60	2222 371 51472
	.0056	±10%	2.5	6.5	10.0	7.62	4.0	.50	BC1731-ND	1.87	12.48	93.60	2222 371 51562
	.0068	±10%	2.5	6.5	10.0	7.62	4.0	.50	BC1732-ND	1.87	12.48	93.60	2222 371 51682
	.0082	±10%	3.0	8.0	10.0	7.62	4.0	.50	BC1733-ND	1.90	12.64	94.80	2222 371 51822
	.01	±10%	3.0	8.0	10.0	7.62	4.0	.50	BC1726-ND	1.90	12.64	94.80	2222 371 51103
	.012	±10%	4.0	9.0	10.0	7.62	4.0	.50	BC1727-ND	1.90	12.64	94.80	2222 371 51123
	.015	±10%	4.0	9.0	10.0	7.62	4.0	.50	BC1728-ND	1.90	12.64	94.80	2222 371 51153
MKT 372 Series													
100	.10	±10%	4.0	10.0	12.5	10.0	4.0	.60	BC1734-ND	2.02	13.44	100.80	2222 372 21104
	.12	±10%	4.0	10.0	12.5	10.0	4.0	.60	BC1735-ND	2.04	13.60	102.00	2222 372 21124
	.15	±10%	4.0	10.0	12.5	10.0	4.0	.60	BC1736-ND	2.11	14.08	105.60	2222 372 21154
	.18	±10%	4.0	10.0	12.5	10.0	4.0	.60	BC1737-ND	2.18	14.56	109.20	2222 372 21184
	.22	±10%	4.0	10.0	12.5	10.0	4.0	.60	BC1738-ND	2.30	15.36	115.20	2222 372 21224
	.27	±10%	4.0	10.0	12.5	10.0	4.0	.60	BC1739-ND	2.45	16.32	122.40	2222 372 21274
	.33	±10%	4.0	10.0	12.5	10.0	4.0	.60	BC1740-ND	2.64	17.60	132.00	2222 372 21334
	.39	±10%	5.0	11.0	12.5	10.0	4.0	.60	BC1741-ND	2.88	19.20	144.00	2222 372 21394
	.47	±10%	5.0	11.0	12.5	10.0	4.0	.60	BC1742-ND	3.14	20.96	157.20	2222 372 21474
250	.047	±10%	4.0	10.0	12.5	10.0	4.0	.60	BC1746-ND	1.94	12.96	97.20	2222 372 41473
	.056	±10%	4.0	10.0	12.5	10.0	4.0	.60	BC1747-ND	1.94	12.96	97.20	2222 372 41563
	.068	±10%	4.0	10.0	12.5	10.0	4.0	.60	BC1748-ND	1.97	13.12	98.40	2222 372 41683
	.082	±10%	4.0	10.0	12.5	10.0	4.0	.60	BC1749-ND	1.99	13.28	99.60	2222 372 41823
	.10	±10%	4.0	10.0	12.5	10.0	4.0	.60	BC1743-ND	2.02	13.44	100.80	2222 372 41104
	.12	±10%	5.0	11.0	12.5	10.0	4.0	.60	BC1744-ND	2.04	13.60	102.00	2222 372 41124
	.15	±10%	5.0	11.0	12.5	10.0	4.0	.60	BC1745-ND	2.18	14.56	109.20	2222 372 41154
400	.0047	±10%	4.0	10.0	12.5	10.0	4.0	.60	BC1758-ND	1.92	12.80	96.00	2222 372 51472
	.0056	±10%	4.0	10.0	12.5	10.0	4.0	.60	BC1760-ND	1.92	12.80	96.00	2222 372 51562
	.0068	±10%	4.0	10.0	12.5	10.0	4.0	.60	BC1761-ND	1.92	12.80	96.00	2222 372 51682
	.0082	±10%	4.0	10.0	12.5	10.0	4.0	.60	BC1762-ND	1.92	12.80	96.00	2222 372 51822
	.01	±10%	4.0	10.0	12.5	10.0	4.0	.60	BC1750-ND	1.92	12.80	96.00	2222 372 51103

*U_{Rdc} = 50V and U_{Rac} = 32V.

(Continued)

E

Metallized Polyester Film Capacitors MKT 370/371/372/373 (Cont.)

Volt. (DC)	Cap. (µF)	Toler-ance	Dimensions (mm) b	h	l	P	i_t	$ød_t$	Digi-Key Part No.	Pricing 10	100	1,000	BC Components Part No.
400	.012	±10%	4.0	10.0	12.5	10.0	4.0	.60	BC1751-ND	1.92	12.80	96.00	2222 372 51123
	.015	±10%	4.0	10.0	12.5	10.0	4.0	.60	BC1752-ND	1.92	12.80	96.00	2222 372 51153
	.018	±10%	4.0	10.0	12.5	10.0	4.0	.60	BC1753-ND	1.97	13.12	98.40	2222 372 51183
	.022	±10%	4.0	10.0	12.5	10.0	4.0	.60	BC1754-ND	1.92	12.80	96.00	2222 372 51223
	.027	±10%	4.0	10.0	12.5	10.0	4.0	.60	BC1755-ND	1.92	12.80	96.00	2222 372 51273
	.033	±10%	4.0	10.0	12.5	10.0	4.0	.60	BC1756-ND	1.92	12.80	96.00	2222 372 51333
	.039	±10%	5.0	11.0	12.5	10.0	4.0	.60	BC1757-ND	1.94	12.96	97.20	2222 372 51393
	.047	±10%	5.0	11.0	12.5	10.0	4.0	.60	BC1759-ND	1.94	12.96	97.20	2222 372 51473
									MKT 373 Series				
100	.33	±10%	5.0	11.0	17.5	15.0	5.0	.60	BC1768-ND	2.88	19.20	144.00	2222 373 21334
	.39	±10%	5.0	11.0	17.5	15.0	5.0	.60	BC1769-ND	2.98	19.84	148.80	2222 373 21394
	.47	±10%	5.0	11.0	17.5	15.0	5.0	.60	BC1770-ND	3.07	20.48	153.60	2222 373 21474
	.56	±10%	5.0	11.0	17.5	15.0	5.0	.60	BC1771-ND	3.46	23.04	172.80	2222 373 21564
	.68	±10%	5.0	11.0	17.5	15.0	5.0	.60	BC1772-ND	3.84	25.60	192.00	2222 373 21684
	.82	±10%	6.0	12.0	17.5	15.0	5.0	.60	BC1773-ND	4.20	28.00	210.00	2222 373 21824
	1.0	±10%	6.0	12.0	17.5	15.0	5.0	.60	BC1763-ND	4.58	30.56	229.20	2222 373 21105
	1.2	±10%	7.0	13.5	17.5	15.0	5.0	.80	BC1764-ND	5.18	34.56	259.20	2222 373 21125
	1.5	±10%	7.0	13.5	17.5	15.0	5.0	.80	BC1765-ND	6.12	40.80	306.00	2222 373 21155
	1.8	±10%	8.5	15.0	17.5	15.0	5.0	.80	BC1766-ND	7.27	48.48	363.60	2222 373 21185
	2.2	±10%	8.5	15.0	17.5	15.0	5.0	.80	BC1767-ND	8.62	57.44	430.80	2222 373 21225
	1.2	±10%	10.0	16.5	17.5	15.0	5.0	.80	BC1791-ND	6.10	40.64	304.80	2222 373 43125
250	2.7	±10%	10.0	19.5	26.0	22.5	5.0	.80	BC1792-ND	11.93	79.52	596.40	2222 373 43275
	.15	±10%	5.0	11.0	17.5	15.0	5.0	.60	BC1775-ND	2.30	15.36	115.20	2222 373 41154
	.18	±10%	5.0	11.0	17.5	15.0	5.0	.60	BC1777-ND	2.50	16.64	124.80	2222 373 41184
	.22	±10%	5.0	11.0	17.5	15.0	5.0	.60	BC1779-ND	2.69	17.92	134.40	2222 373 41224
	.27	±10%	6.0	12.0	17.5	15.0	5.0	.60	BC1781-ND	2.88	19.20	144.00	2222 373 41274
	.33	±10%	6.0	12.0	17.5	15.0	5.0	.60	BC1782-ND	3.07	20.48	153.60	2222 373 41334
	.39	±10%	6.0	12.0	17.5	15.0	5.0	.60	BC1784-ND	3.46	23.04	172.80	2222 373 41394
	.47	±10%	6.0	12.0	17.5	15.0	5.0	.60	BC1786-ND	3.84	25.60	192.00	2222 373 41474
	.56	±10%	7.0	13.5	17.5	15.0	5.0	.80	BC1788-ND	4.20	28.00	210.00	2222 373 41564

Volt. (DC)	Cap. (µF)	Toler-ance	Dimensions (mm) b	h	l	P	i_t	$ød_t$	Digi-Key Part No.	Pricing 10	100	1,000	BC Comp Part No.
250	.68	±10%	7.0	13.5	17.5	15.0	5.0	.80	BC1789-ND	4.42	29.44	220.80	2222 373
	.82	±10%	8.5	15.0	17.5	15.0	5.0	.80	BC1790-ND	4.58	30.56	229.20	2222 373
	1.0	±10%	8.5	15.0	17.5	15.0	5.0	.80	BC1774-ND	4.97	33.12	248.40	2222 373
	1.5	±10%	8.5	18.0	26.0	22.5	5.0	.80	BC1776-ND	7.66	51.04	382.80	2222 373
	1.8	±10%	10.0	19.5	26.0	22.5	5.0	.80	BC1778-ND	9.19	61.28	459.60	2222 373
	2.2	±10%	10.0	19.5	26.0	22.5	5.0	.80	BC1780-ND	10.73	71.52	536.40	2222 373
	3.3	±10%	13.0	23.0	31.0	27.5	5.0	.80	BC1783-ND	14.38	95.84	718.80	2222 373
	3.9	±10%	15.0	25.0	31.0	27.5	5.0	.80	BC1785-ND	16.85	112.32	842.40	2222 373
	4.7	±10%	15.0	25.0	31.0	27.5	5.0	.80	BC1787-ND	20.23	134.88	1011.60	2222 373
400	.047	±10%	5.0	11.0	17.5	15.0	5.0	.60	BC1801-ND	2.50	16.64	124.80	2222 373
	.056	±10%	5.0	11.0	17.5	15.0	5.0	.60	BC1802-ND	2.54	16.96	127.20	2222 373
	.068	±10%	5.0	11.0	17.5	15.0	5.0	.60	BC1803-ND	2.59	17.28	129.60	2222 373
	.082	±10%	5.0	11.0	17.5	15.0	5.0	.60	BC1805-ND	2.64	17.60	132.00	2222 373
	.10	±10%	5.0	11.0	17.5	15.0	5.0	.60	BC1793-ND	2.71	18.08	135.60	2222 373
	.12	±10%	6.0	12.0	17.5	15.0	5.0	.60	BC1794-ND	3.07	20.48	153.60	2222 373
	.15	±10%	6.0	12.0	17.5	15.0	5.0	.60	BC1795-ND	3.46	23.04	172.80	2222 373
	.18	±10%	7.0	13.5	17.5	15.0	5.0	.80	BC1797-ND	3.84	25.60	192.00	2222 373
	.22	±10%	7.0	13.5	17.5	15.0	5.0	.80	BC1798-ND	4.20	28.00	210.00	2222 373
	.27	±10%	8.5	15.0	17.5	15.0	5.0	.80	BC1799-ND	4.80	32.00	240.00	2222 373
	.33	±10%	8.5	15.0	17.5	15.0	5.0	.80	BC1800-ND	5.35	35.68	267.60	2222 373
	.39	±10%	8.5	15.0	17.5	15.0	5.0	.80	BC1808-ND	5.64	37.60	282.00	2222 373
	.47	±10%	8.5	15.0	17.5	15.0	5.0	.80	BC1809-ND	5.81	38.72	290.40	2222 373
	.56	±10%	10.0	16.5	17.5	15.0	5.0	.80	BC1810-ND	6.77	45.12	338.40	2222 373
	.68	±10%	10.0	19.5	26.0	22.5	5.0	.80	BC1804-ND	7.66	51.04	382.80	2222 373
	.82	±10%	8.5	18.0	26.0	22.5	5.0	.80	BC1811-ND	8.28	55.20	414.00	2222 373
	1.0	±10%	10.0	19.5	26.0	22.5	5.0	.80	BC1806-ND	8.71	58.08	435.60	2222 373
	1.2	±10%	10.0	19.5	26.0	22.5	5.0	.80	BC1807-ND	10.99	73.28	549.60	2222 373
	1.5	±10%	15.0	25.0	31.0	27.5	5.0	.80	BC1796-ND	13.39	89.28	669.60	2222 373

*U_{Rdc} = 50V and U_{Rac} = 32V.

E

AVX TPC

NEW! Medium Power Film Capacitors

The FFB and FFV3 series use a non-impregnated metallized polypropylene or polyester dielectric with the controlled self-healing process, specially treated to have a very high dielectric strength in operating conditions up to 105°C. They have been designed for printed circuit board mounting. Furthermore, their performance allows them to be an alternative to electrolytic technology because they can withstand much higher levels of surge voltage. One unique feature of this technology (as opposed to electrolytics) is how the capacitor reacts at the end of its lifetime. With an electrolytic, there is a strong risk of explosion of the case. However, with this line of film capacitors, the capacitor will simply experience a loss of capacitance of about 2% at the end of its life. Please note that this is a theoretical, however, as the capacitor continues to be functional even after this 2% decrease. **Applications:** The FFB and FFV3 series are particularly designed for DC filtering, low reactive power. **General Characteristics:** • Climactic Category: 40/105/56 IEC 68 (FFV3 Series) 55/105/56 IEC 68 (FFB) • Test Voltage between terminals at 25°C is 1.5 X Vndc

Fig. 1

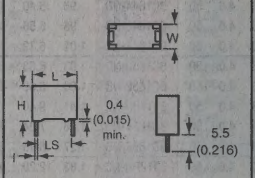


Fig. 2

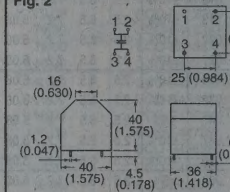


Fig.	Type	Voltage	Capacitance (µF)	Tolerance (%)	Irms Maximum (A)	Rs (mΩ)	L	W	H	t	LS	Digi-Key Part No.	1	10	100	1000	AVX Part No.
												FFB Series					
1	Polyester	75VDC (45Vrms)	33	10	3.0	3.0	31.1	13.0	22.4	0.80	27.5	478-2589-ND	7.95	6.36	5.57	4.77	FFB14D0336K
			68	10	6.2	1.7	31.1	17.3	29.8	0.80	27.5	478-2590-ND	15.00	12.00	10.50	9.00	FFB34D0686K
			110	10	10	1.4	32.0	22.0	37.0	1.00	27.5	478-2591-ND	26.75	21.40	18.73	16.05	FFB54D0117K
		100VDC (60Vrms)	20	10	2.6	3.0	31.1	13.0	22.4	0.80	27.5	478-2592-ND	6.33	5.06	4.43	3.80	FFB14E0206K
			47	10	6.0	1.7	31.1	20.8	31.3	1.00	27.5	478-2593-ND	13.63	10.90	9.54	8.18	FFB44E0476K
			68	10	9.0	1.4	32.0	22.0	37.0	1.00	27.5	478-2594-ND	21.20	16.96	14.84	12.72	FFB54E0686K
		300VDC (90Vrms)	7.5	10	2.4	16	31.1	13.0	22.4	.80	27.5	478-2595-ND	4.00	3.20	2.80	2.40	FFB14H0755K
			18	10	6.0	7.0	31.1	20.8	31.3	1.00	27.5	478-2596-ND	8.95	7.16	6.27	5.37	FFB44H0186K
			27	10	9.0	5.0	32.0	22.0	37.0	1.00	27.5	478-2597-ND	14.58	11.66	10.21	8.75	FFB54H0276K
		400VDC (105Vrms)	6.2	10	2.5	17	31.1	13.0	22.4	.80	27.5	478-2598-ND	3.83	3.06	2.68	2.30	FFB14I0625K
			15	10	6.2	7.0	31.1	20.8	31.3	1.0	27.5	478-2599-ND	8.40	6.72	5.88	5.04	FFB44I0156K
			20	10	8.2	5.5	32.0	22.0	37.0	1.00	27.5	478-2600-ND	12.88	10.30	9.02	7.73	FFB54I0206K
	Polypropylene	525VDC (105Vrms)	3.9	10	5.1	30	31.1	13.0	22.4	.80	27.5	478-2601-ND	5.43	4.34	3.80	3.26	FFB16J0395K
			10	10	12	12	31.1	20.8	31.3	1.00	27.5	478-2602-ND	10.58	8.46	7.41	6.35	FFB46J0106K
			13	10	12	9.0	32.0	22.0	3.0	1.00	27.5	478-2603-ND	13.35	10.68	9.35	8.01	FFB56J0136K
		720VDC (120Vrms)	3.3	10	5.0	31	31.1	13.0	22.4	.80	27.5	478-2604-ND	5.15	4.12	3.61	3.09	FFB16A0335K
			7.5	10	11.4	14	31.1	20.8	31.3	1.00	27.5	478-2605-ND	10.08	8.06	7.06	6.05	FFB46A0755K
			10	10	12	11	32.0	22.0	37.0	1.00	27.5	478-2606-ND	12.68	10.14	8.88	7.61	FFB56A0106K
		900VDC (150Vrms)	2.0	10	3.6	41	31.1	13.0	22.4	.80	27.5	478-2607-ND	4.90	3.92	3.43	2.94	FFB16C0205K
			5.1	10	9.3	16	31.1	20.8	31.3	1.00	27.5	478-2608-ND	9.58	7.66	6.71	5.75	FFB46C0515K
			6.8	10	12	12	32.0	22.0	37.0	1.00	27.5	478-2609-ND	12.05	9.64	8.44	7.23	FFB56C0685K
		1100VDC (180Vrms)	1.5	10	3.3	45	31.1	13.0	22.4	.80	27.5	478-2610-ND	4.68	3.74	3.28	2.81	FFB16L0155K
			3.0	10	6.6	23	31.1	20.8	31.3	1.00	27.5	478-2611-ND	9.08	7.26	6.36	5.45	FFB46L0305K
			4.7	10	10.3	15	32.0	22.0	37.0	1.00	27.5	478-2612-ND	11.43	9.14	8.00	6.86	FFB56L0475K

Fig.	Type	Voltage	Capacitance (µF)	Tolerance (%)	Irms Maximum (A)	Rs (mΩ)	Digi-Key Part No.	1	10	100	1000	AVX Part No.
						FFV3 Series						
2	Polyester	75VDC (45Vrms)	160	10	28	.47	478-2613-ND	35.84	31.36	26.88	25.09	FFV34D0167K
		100VDC (60Vrms)	100	10	24	.55	478-2614-ND	31.40	27.48	23.55	21.98	FFV34E0107K
		300VDC (90Vrms)	50	10	26	2.25	478-2615-ND	29.86	26.13	22.40	20.91	FFV34H0506K
		400VDC (105Vrms)	40	10	23	2.21	478-2616-ND	26.90	23.54	20.18	18.83	FFV34I0406K
	Polypropylene	500VDC (105Vrms)	20	10	27	5.88	478-2617-ND	22.40	19.60	16.80	15.68	FFV36J0206K
		700VDC (120Vrms)	20	10	30	5.15	478-2618-ND	20.92	18.31	15.69	14.65	FFV36A0206K
		900VDC (150Vrms)	13	10	25	6.33	478-2619-ND	18.68	16.35	14.01	13.08	FFV36C0136K
		1100VDC (180Vrms)	9.0	10	20	7.61	478-2620-ND	17.94	15.70	13.46	12.56	FFV36L0905K

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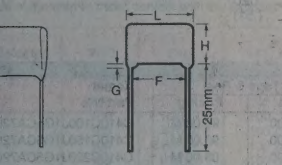
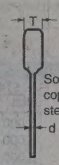
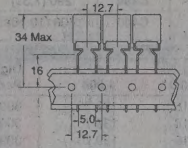
Electrical Specifications:
• Reference Standard: EIAJ RC-3670A • Temperature Range: –40°C ~ +85°C • Dissipation Factor: .1% max. at 1KHz and 25°C • Withstand Voltage: 1-5 seconds at 250% of rated voltage • Insulation Resistance: 45,000 MΩ min., for values less than .33µF. 15,000 MΩ/µF min., for .33µF and greater. (Measured after a 2-minute charge at rated voltage and 25°C.)

PANASONIC ECQ-P CROSS REF.: Sprague: 715P **Westlake:** 173/174 **Mepco:** 719E1/719H1 **Secor:** PFDS/PFDR **Roderstein:** KP1835 **Wima:** FKP **CSF Thompson:** PL/PS **Rubycon:** PP **Nissel:** APS/APA







Cap. µF	Toler-ance	Dimensions (mm) L	T	H	F	d	Digi-Key Part No.	Tape & Box Pricing 500	1,000	5,000	Panasonic Part No.
.0001	5%	8.5	4.5	7.5	5.0	0.5	P3101TB-ND	—	138.00	133.00/M	ECQ-P1H101JZ3
.00012	5%	8.5	4.5	7.5	5.0	0.5	P3121TB-ND	—	138.00	133.00/M	ECQ-P1H121JZ3
.00015	5%	8.5	4.5	7.5	5.0	0.5	P3151TB-ND	—	138.00	133.00/M	ECQ-P1H151JZ3
.00018	5%	8.5	4.5	7.5	5.0	0.5	P3181TB-ND	—	138.00	133.00/M	ECQ-P1H181JZ3
.00022	5%	8.5	4.5	7.5	5.0	0.5	P3221TB-ND	—	138.00	133.00/M	ECQ-P1H221JZ3
.00027	5%	8.5	4.5	7.5	5.0	0.5	P3271TB-ND	—	138.00	133.00/M	ECQ-P1H271JZ3
.00033	5%	8.5	4.5	7.5	5.0	0.5	P3331TB-ND	—	138.00	133.00/M	ECQ-P1H331JZ3
.00039	5%	8.5	4.5	7.5	5.0	0.5	P3391TB-ND	—	138.00	133.00/M	ECQ-P1H391JZ3
.00047	5%	8.5	4.5	7.5	5.0	0.5	P3471TB-ND	—	138.00	133.00/M	ECQ-P1H471JZ3
.00056	5%	8.5	4.5	7.5	5.0	0.5	P3561TB-ND	—	138.00	133.00/M	ECQ-P1H561JZ3
.00068	5%	8.5	4.5	7.5	5.0	0.5	P3681TB-ND	—	138.00	133.00/M	ECQ-P1H681JZ3
.00082	5%	8.5	4.5	7.5	5.0	0.5	P3821TB-ND	—	138.00	133.00/M	ECQ-P1H821JZ3
.001	2%	8.5	4.5	7.5	5.0	0.5	P3102TB-ND	—	193.00	187.00/M	ECQ-P1H102GZ3
.0012	2%	8.5	4.5	7.5	5.0	0.5	P3122TB-ND	—	193.00	187.00/M	ECQ-P1H122GZ3
.0015	2%	8.5	4.5	7.5	5.0	0.5	P3152TB-ND	—	193.00	187.00/M	ECQ-P1H152GZ3
.0018	2%	8.5	4.5	7.5	5.0	0.5	P3182TB-ND	—	193.00	187.00/M	ECQ-P1H182GZ3
.0022	2%	8.5	4.5	7.5	5.0	0.5	P3222TB-ND	—	193.00	187.00/M	ECQ-P1H222GZ3
.0027	2%	8.5	4.5	7.5	5.0	0.5	P3272TB-ND	—	193.00	187.00/M	ECQ-P1H272GZ3
.0033	2%	8.5	4.5	7.5	5.0	0.5	P3332TB-ND	—	193.00	187.00/M	ECQ-P1H332GZ3
.0039	2%	8.5	4.5	7.5	5.0	0.5	P3392TB-ND	—	193.00	187.00/M	ECQ-P1H392GZ3
.0047	2%	8.5	4.5	7.5	5.0	0.5	P3472TB-ND	—	193.00	187.00/M	ECQ-P1H472GZ3
.0056	2%	8.5	4.5	8.0	5.0	0.5	P3562TB-ND	—	206.00	199.00/M	ECQ-P1H562GZ3
.0068	2%	8.5	5.0	8.0	5.0	0.5	P3682TB-ND	—	206.00	199.00/M	ECQ-P1H682GZ3
.0082	2%	12.0	5.5	9.0	5.0	0.6	P3822TB-ND	—	221.00	214.00/M	ECQ-P1H822GZ3
.01	2%	12.0	5.0	8.5	5.0	0.6	P3103TB-ND	—	221.00	214.00/M	ECQ-P1H103GZ3
.012	2%	12.0	5.5	9.0	5.0	0.6	P3123TB-ND	—	221.00	214.00/M	ECQ-P1H123GZ3
.015	2%	12.0	5.0	9.0	5.0	0.6	P3153TB-ND	—	221.00	214.00/M	ECQ-P1H153GZ3
.018	2%	12.0	5.5	9.5	5.0	0.6	P3183TB-ND	—	238.00	230.00/M	ECQ-P1H183GZ3
.022	2%	12.0	5.5	10.5	5.0	0.6	P3223TB-ND	—	238.00	230.00/M	ECQ-P1H223GZ3
.027	2%	12.0	6.0	11.0	5.0	0.6	P3273TB-ND	136.50	—	264.00/M	ECQ-P1H273GZ3
.033	2%	12.0	6.5	00.5	5.0	0.6	P3333TB-ND	136.50	—	264.00/M	ECQ-P1H333GZ3

WV DC	Cap. µF	Toler-ance	Dimensions (mm) L	T	H	F	G	d	Digi-Key Part No.	Pricing 1	10	100	1,000	Panasonic Part No.
50	.0001	5%	8.5	4.5	7.5	5.0	1.0	0.5	P3101-ND*	.23	1.99	16.58	99.00	ECQ-P1H101JZ
	.00012	5%	8.5	4.5	7.5	5.0	1.0	0.5	P3121-ND	.23	1.99	16.58	99.00	ECQ-P1H121JZ
	.00015	5%	8.5	4.5	7.5	5.0	1.0	0.5	P3151-ND	.23	1.99	16.58	99.00	ECQ-P1H151JZ
	.00018	5%	8.5	4.5	7.5	5.0	1.0	0.5	P3181-ND	.23	1.99	16.58	99.00	ECQ-P1H181JZ
	.00022	5%	8.5	4.5	7.5	5.0	1.0	0.5	P3221-ND*	.23	1.99	16.58	99.00	ECQ-P1H221JZ
	.00027	5%	8.5	4.5	7.5	5.0	1.0	0.5	P3271-ND	.23	1.99	16.58	99.00	ECQ-P1H271JZ
	.00033	5%	8.5	4.5	7.5	5.0	1.0	0.5	P3331-ND*	.23	1.99	16.58	99.00	ECQ-P1H331JZ
	.00039	5%	8.5	4.5	7.5	5.0	1.0	0.5	P3391-ND	.23	1.99	16.58	99.00	ECQ-P1H391JZ
	.00047	5%	8.5	4.5	7.5	5.0	1.0	0.5	P3471-ND*	.23	1.99	16.58	99.00	ECQ-P1H471JZ
	.00056	5%	8.5	4.5	7.5	5.0	1.0	0.5	P3561-ND	.23	1.99	16.58	99.00	ECQ-P1H561JZ
	.00068	5%	8.5	4.5	7.5	5.0	1.0	0.5	P3681-ND	.23	1.99	16.58	99.00	ECQ-P1H681JZ
	.00082	5%	8.5	4.5	7.5	5.0	1.0	0.5	P3821-ND	.23	1.99	16.58	99.00	ECQ-P1H821JZ
	.001	2%	8.5	4.5	7.5	5.0	1.0	0.5	P3102-ND*	.46	3.90	32.50	194.00	ECQ-P1H102GZ
	.0012	2%	8.5	4.5	7.5	5.0	1.0	0.5	P3122-ND	.46	3.90	32.50	194.00	ECQ-P1H122GZ
	.0015	2%	8.5	4.5	7.5	5.0	1.0	0.5	P3152-ND	.46	3.90	32.50	194.00	ECQ-P1H152GZ
	.0018	2%	8.5	4.5	7.5	5.0	1.0	0.5	P3182-ND	.46	3.90	32.50	194.00	ECQ-P1H182GZ
	.0022	2%	8.5	4.5	7.5	5.0	1.0	0.5	P3222-ND*	.46	3.90	32.50	194.00	ECQ-P1H222GZ
	.0027	2%	8.5	4.5	7.5	5.0	1.0	0.5	P3272-ND	.46	3.90	32.50	194.00	ECQ-P1H272GZ
	.0033	2%	8.5	4.5	7.5	5.0	1.0	0.5	P3332-ND*	.46	3.90	32.50	194.00	ECQ-P1H332GZ
	.0039	2%	8.5	4.5	7.5	5.0	1.0	0.5	P3392-ND	.46	3.90	32.50	194.00	ECQ-P1H392GZ
	.0047	2%	8.5	4.5	7.5	5.0	1.0	0.5	P3472-ND*	.46	3.90	32.50	194.00	ECQ-P1H472GZ
	.0056	2%	8.5	4.5	8.0	5.0	1.0	0.5	P3562-ND	.49	4.20	35.00	209.00	ECQ-P1H562GZ
	.0068	2%	8.5	5.0	8.0	5.0	1.0	0.5	P3682-ND	.49	4.20	35.00	209.00	ECQ-P1H682GZ
	.0082	2%	12.0	5.5	9.0	7.5	1.0	0.6	P3822-ND	.49	4.20	35.00	209.00	ECQ-P1H822GZ
	.01	2%	12.0	5.0	8.5	7.5	1.0	0.6	P3103-ND*	.53	4.50	37.50	224.00	ECQ-P1H103GZ
	.012	2%	12.0	5.5	9.0	7.5	1.0	0.6	P3123-ND	.53	4.50	37.50	224.00	ECQ-P1H123GZ
	.015	2%	12.0	5.0	9.0	7.5	1.0	0.6	P3153-ND	.53	4.50	37.50	224.00	ECQ-P1H153GZ
	.018	2%	12.0	5.5	9.5	7.5	1.0	0.6	P3183-ND	.57	4.86	40.50	242.00	ECQ-P1H183GZ
	.022	2%	12.0	5.5	10.5	7.5	1.0	0.6	P3223-ND*	.57	4.86	40.50	242.00	ECQ-P1H223GZ
	.027	2%	12.0	6.0	11.0	7.5	1.0	0.6	P3273-ND	.59	5.07	42.25	252.00	ECQ-P1H273GZ
	.033	2%	12.0	6.5	11.5	7.5	1.0	0.6	P3333-ND*	.59	5.07	42.25	252.00	ECQ-P1H333GZ
	.039	2%	14.5	5.5	12.0	10.0	1.0	0.6	P3393-ND	.64	5.52	46.00	275.00	ECQ-P1H393GZ
	.047	2%	14.5	6.0	12.5	10.0	1.0	0.6	P3473-ND*	.64	5.52	46.00	275.00	ECQ-P1H473GZ
	.056	2%	14.5	6.5	13.5	10.0	1.0	0.6	P3563-ND	.72	6.15	51.25	306.00	ECQ-P1H563GZ
	.068	2%	14.5	7.0	14.0	10.0	1.0	0.6	P3683-ND	.86	7.41	61.75	369.00	ECQ-P1H683GZ
	.082	2%	17.0	7.0	14.0	12.5	1.0	0.6	P3823-ND	.86	7.41	61.75	369.00	ECQ-P1H823GZ
	.1	2%	17.0	7.5	14.5	12.5	1.0	0.6	P3104-ND*	.86	7.41	61.75	369.00	ECQ-P1H104GZ
	.12	2%	17.0	8.5	15.5	12.5	1.0	0.6	P3124-ND	1.06	9.06	75.50	451.00	ECQ-P1H124GZ
	.15	2%	20.0	8.0	15.5	15.0	1.0	0.6	P3154-ND	1.06	9.06	75.50	451.00	ECQ-P1H154GZ
	.18	2%	20.0	9.0	16.0	15.0	1.0	0.6	P3184-ND	1.28	11.01	91.75	548.00	ECQ-P1H184GZ
	.22	2%	20.0	9.5	17.0	15.0	1.0	0.6	P3224-ND*	1.28	11.01	91.75	548.00	ECQ-P1H224GZ
	.27	2%	20.0	10.5	18.0	15.0	1.0	0.6	P3274-ND	1.58	13.56	113.00	675.00	ECQ-P1H274GZ
	.33	2%	22.5	10.0	19.5	17.5	1.0	0.8	P3334-ND*	1.58	13.56	113.00	675.00	ECQ-P1H334GZ
	.39	2%	22.5	11.0	20.0	17.5	1.0	0.8	P3394-ND	1.89	16.20	135.00	806.00	ECQ-P1H394GZ
	.47	2%	22.5	12.0	21.0	17.5	1.0	0.8	P3474-ND	1.89	16.20	135.00	806.00	ECQ-P1H474GZ

00-KIT-ND ***Digi-Key® P-Series Capacitors Kit*** 10 each of parts indicated. Notebook style storage and bin, storage guide included..... **$69.95**

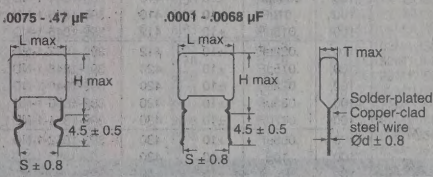
CQ-P (Z) Series Polypropylene Film Capacitors

inductive construction using Poly-
lene film with epoxy resin coating.

ures:
ellent temperature and frequency
racteristics
ellent long term stability

Applications:
• Dolby circuits
• Oscillation circuits

Electrical Specifications:
• Temperature Range: -40°C~85°C • Rated Voltage: 50VDC, (Voltage derating is required above 70°. See data sheet for details.) • Dissipation Factor: 0.1% max. at 1kHz and 20° • Withstand Voltage: Between terminals: Rated voltage: (VDC) x 250% 1 to 5s • Insulation Resistance: C≤ 0.33µF: 45000 MΩ min., C≤ 0.33µF: 15000 MΩ µF min. (20°C Rated Voltage - 60s)



Cap. µF	Toler-ance	Dimensions (mm) L	T	H	S	d	Digi-Key Part No.	Pricing 1	10	100	1,000	Panasonic Part No.
.0001	5%	8.5	4.5	12.5	5.0	0.50	P3889-ND	.23	1.94	16.20	97.20	ECQ-P1H101JZW
.00012	5%	8.5	4.5	12.5	5.0	0.50	P3890-ND	.23	1.94	16.20	97.20	ECQ-P1H121JZW
.00015	5%	8.5	4.5	12.5	5.0	0.50	P3891-ND	.23	1.94	16.20	97.20	ECQ-P1H151JZW
.00018	5%	8.5	4.5	12.5	5.0	0.50	P3892-ND	.23	1.94	16.20	97.20	ECQ-P1H181JZW
.00022	5%	8.5	4.5	12.5	5.0	0.50	P3893-ND	.23	1.94	16.20	97.20	ECQ-P1H221JZW
.00027	5%	8.5	4.5	12.5	5.0	0.50	P3894-ND	.23	1.94	16.20	97.20	ECQ-P1H271JZW
.00033	5%	8.5	4.5	12.5	5.0	0.50	P3895-ND	.23	1.94	16.20	97.20	ECQ-P1H331JZW
.00039	5%	8.5	4.5	12.5	5.0	0.50	P3896-ND	.23	1.94	16.20	97.20	ECQ-P1H391JZW
.00047	5%	8.5	4.5	12.5	5.0	0.50	P3897-ND	.23	1.94	16.20	97.20	ECQ-P1H471JZW
.00056	5%	8.5	4.5	12.5	5.0	0.50	P3898-ND	.23	1.94	16.20	97.20	ECQ-P1H561JZW
.00068	5%	8.5	4.5	12.5	5.0	0.50	P3899-ND	.23	1.94	16.20	97.20	ECQ-P1H681JZW
.00082	5%	8.5	4.5	12.5	5.0	0.50	P3900-ND	.23	1.94	16.20	97.20	ECQ-P1H821JZW
.0011	2%	8.5	4.5	12.5	5.0	0.50	P3901-ND	.35	3.04	25.30	151.80	ECQ-P1H102GZW
.0012	2%	8.5	4.5	12.5	5.0	0.50	P3902-ND	.35	3.04	25.30	151.80	ECQ-P1H122GZW
.0015	2%	8.5	4.5	12.5	5.0	0.50	P3903-ND	.35	3.04	25.30	151.80	ECQ-P1H152GZW
.0018	2%	8.5	4.5	12.5	5.0	0.50	P3904-ND	.35	3.04	25.30	151.80	ECQ-P1H182GZW
.0022	2%	8.5	4.5	12.5	5.0	0.50	P3905-ND	.35	3.04	25.30	151.80	ECQ-P1H222GZW
.0027	2%	8.5	4.5	12.5	5.0	0.50	P3906-ND	.35	3.04	25.30	151.80	ECQ-P1H272GZW
.0033	2%	8.5	4.5	12.5	5.0	0.50	P3907-ND	.35	3.04	25.30	151.80	ECQ-P1H332GZW
.0039	2%	8.5	4.5	12.5	5.0	0.50	P3908-ND	.35	3.04	25.30	151.80	ECQ-P1H392GZW
.0047	2%	8.5	4.5	12.5	5.0	0.50	P3909-ND	.35	3.04	25.30	151.80	ECQ-P1H472GZW
.0056	2%	8.5	4.5	13.0	5.0	0.50	P3910-ND	.38	3.28	27.30	163.80	ECQ-P1H562GZW
.0068	2%	8.5	5.0	13.0	5.0	0.50	P3911-ND	.38	3.28	27.30	163.80	ECQ-P1H682GZW
.0082	2%	12.0	5.5	14.0	5.0	0.60	P3912-ND	.38	3.28	27.30	163.80	ECQ-P1H822GZW
0.01	2%	12.0	5.0	13.5	5.0	0.60	P3913-ND	.41	3.55	29.60	177.60	ECQ-P1H103GZW
.012	2%	12.0	5.0	14.0	5.0	0.60	P3914-ND	.41	3.55	29.60	177.60	ECQ-P1H123GZW
.015	2%	12.0	5.0	14.0	5.0	0.60	P3915-ND	.41	3.55	29.60	177.60	ECQ-P1H153GZW
.018	2%	12.0	5.5	14.5	5.0	0.60	P3916-ND	.45	3.86	32.20	193.20	ECQ-P1H183GZW
.022	2%	12.0	5.5	15.5	5.0	0.60	P3917-ND	.45	3.86	32.20	193.20	ECQ-P1H223GZW
.027	2%	12.0	6.0	16.0	5.0	0.60	P3918-ND	.45	3.86	32.20	193.20	ECQ-P1H273GZW
.033	2%	12.0	6.5	16.5	5.0	0.60	P3919-ND	.47	4.04	33.63	201.75	ECQ-P1H333GZW
.039	2%	14.5	5.5	17.0	5.0	0.60	P3920-ND	.52	4.42	36.80	220.80	ECQ-P1H393GZW

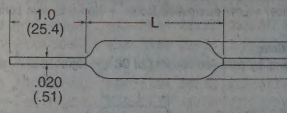
WV DC	Cap. µF	Toler-ance	Dimensions (mm) L	T	H	S	d	Digi-Key Part No.	Pricing 1	10	100	1,000	Panasonic Part No.
50	0.047	2%	14.5	6.0	17.5	5.0	0.60	P3921-ND	.60	5.14	42.85	257.10	ECQ-P1H473GZW
	0.056	2%	14.5	6.5	18.5	5.0	0.60	P3922-ND	.60	5.14	42.85	257.10	ECQ-P1H563GZW
	0.068	2%	14.5	7.0	19.0	5.0	0.60	P3923-ND	.60	5.14	42.85	257.10	ECQ-P1H683GZW
	0.082	2%	17.0	7.0	19.0	7.5	0.60	P3924-ND	.60	5.14	42.85	257.10	ECQ-P1H823GZW
	0.1	2%	17.0	7.5	19.5	7.5	0.60	P3925-ND	.82	7.06	58.83	352.95	ECQ-P1H104GZW
	0.12	2%	17.0	8.5	20.5	7.5	0.60	P3926-ND	1.03	8.81	73.45	440.70	ECQ-P1H124GZW
	0.15	2%	20.0	8.0	20.5	10.0	0.60	P3927-ND	1.03	8.81	73.45	440.70	ECQ-P1H154GZW
	0.18	2%	20.0	9.0	21.0	10.0	0.60	P3928-ND	1.10	9.41	78.45	470.70	ECQ-P1H184GZW
	0.22	2%	20.0	9.5	22.0	10.0	0.60	P3929-ND	1.32	11.31	94.28	565.65	ECQ-P1H224GZW
	0.27	2%	20.0	10.5	23.0	10.0	0.60	P3930-ND	1.32	11.31	94.28	565.65	ECQ-P1H274GZW
	0.33	2%	22.5	10.0	24.5	12.5	0.80	P3931-ND	1.33	11.39	94.88	569.25	ECQ-P1H334GZW
	0.39	2%	22.5	11.0	25.0	12.5	0.80	P3932-ND	1.59	13.66	113.85	683.10	ECQ-P1H394GZW
	0.47	2%	22.5	12.0	26.0	12.5	0.80	P3933-ND	1.59	13.66	113.85	683.10	ECQ-P1H474GZW
	0.001	1%	8.5	4.5	12.5	5.0	0.50	P3824-ND	.63	5.42	45.15	270.90	ECQ-P1H102FZW
	0.0011	1%	8.5	4.5	12.5	5.0	0.50	P3825-ND	.63	5.42	45.15	270.90	ECQ-P1H112FZW
	0.0012	1%	8.5	4.5	12.5	5.0	0.50	P3826-ND	.63	5.42	45.15	270.90	ECQ-P1H122FZW
	0.0013	1%	8.5	4.5	12.5	5.0	0.50	P3827-ND	.63	5.42	45.15	270.90	ECQ-P1H132FZW
	0.0015	1%	8.5	4.5	12.5	5.0	0.50	P3828-ND	.63	5.42	45.15	270.90	ECQ-P1H152FZW
	0.0016	1%	8.5	4.5	12.5	5.0	0.50	P3829-ND	.63	5.42	45.15	270.90	ECQ-P1H162FZW
	0.0018	1%	8.5	4.5	12.5	5.0	0.50	P3830-ND	.63	5.42	45.15	270.90	ECQ-P1H182FZW
	0.002	1%	8.5	4.5	12.5	5.0	0.50	P3831-ND	.63	5.42	45.15	270.90	ECQ-P1H202FZW
	0.0022	1%	8.5	4.5	12.5	5.0	0.50	P3832-ND	.63	5.42	45.15	270.90	ECQ-P1H222FZW
	0.0024	1%	8.5	4.5	12.5	5.0	0.50	P3833-ND	.63	5.42	45.18	271.05	ECQ-P1H242FZW
	0.0027	1%	8.5	4.5	12.5	5.0	0.50	P3834-ND	.63	5.42	45.18	271.05	ECQ-P1H272FZW
	0.003	1%	8.5	4.5	12.5	5.0	0.50	P3835-ND	.63	5.42	45.18	271.05	ECQ-P1H302FZW
	0.0033	1%	8.5	4.5	12.5	5.0	0.50	P3836-ND	.63	5.42	45.18	271.05	ECQ-P1H332FZW
	0.0036	1%	8.5	4.5	12.5	5.0	0.50	P3837-ND	.63	5.42	45.18	271.05	ECQ-P1H362FZW
	0.0039	1%	8.5	4.5	12.5	5.0	0.50	P3838-ND	.63	5.42	45.18	271.05	ECQ-P1H392FZW
	0.0043	1%	8.5	4.5	12.5	5.0	0.50	P3839-ND	.63	5.42	45.18	271.05	ECQ-P1H432FZW
	0.0047	1%	8.5	4.5	12.5	5.0	0.50	P3840-ND	.63	5.42	45.18	271.05	ECQ-P1H472FZW

KEMET Ceramic Conformally Coated Axial Leaded Capacitors "AXIMAX"

The "Aximax" series of multi-layer ceramic capacitors starts with a capacitor element that consists of formulated dielectric materials which have been cast into thin layers, interspersed with metal electrodes alternately exposed on opposite edges of the laminated structure. The entire structure is fired at high temperature to produce a monolithic block, which provides high capacitance values in a small physical volume. After firing, conductive terminations are applied to opposite ends of the chip to make contact with the exposed electrodes.

KEMET leaded ceramic capacitors are offered in the three most popular temperature characteristics: **C0G:** Class 1, with a temperature coefficient of 0 ± 30ppm per degree C over an operating temperature range of -55°C to +125°C (Also known as "NP0"). **X7R:** Class II, with a maximum capacitance change of ±15% over an operating temperature range of -55°C to +125°C. **Z5U:** Class III, with a maximum capacitance change of +22% - 56% over an operating temperature range of +10°C to +85°C.

Style	L Max. In. (mm)	D Max. In. (mm)
C410	.170 (4.32)	.100 (2.54)
C412	.170 (4.32)	.120 (3.05)
C420	.260 (6.60)	.100 (2.54)
C430	.290 (7.37)	.150 (3.81)
C440	.400 (10.16)	.150 (3.81)



Dielectric	Volt.	Cap.	Cap. Tol.(%)	Size Code	Digi-Key Part No.	Cut Tape Pricing 1	10	100	1,000	Digi-Key Part No.	Tape & Reel Size	Pricing	Kemet Part No.
C0G	100	10pF	±5	410	399-1806-1-ND	.29	2.79	20.18	139.73	399-1806-2-ND	5,000	93.00/M	C410C100J1G5CA72
	100	15pF	±5	410	399-1807-1-ND	.29	2.79	20.18	139.73	399-1807-2-ND	5,000	93.00/M	C410C150J1G5CA72
	100	22pF	±5	410	399-1808-1-ND	.29	2.79	20.18	139.73	399-1808-2-ND	5,000	93.00/M	C410C220J1G5CA72
	100	33pF	±5	410	399-1809-1-ND	.29	2.79	20.18	139.73	399-1809-2-ND	5,000	93.00/M	C410C330J1G5CA72
	100	47pF	±5	410	399-1810-1-ND	.29	2.79	20.18	139.73	399-1810-2-ND	5,000	93.00/M	C410C470J1G5CA72
	100	68pF	±5	410	399-1811-1-ND	.29	2.79	20.18	139.73	399-1811-2-ND	5,000	93.00/M	C410C680J1G5CA72
	100	100pF	±5	410	399-1812-1-ND	.26	2.48	17.94	124.20	399-1812-2-ND	5,000	83.00/M	C410C101J1G5CA72
	100	150pF	±5	410	399-1813-1-ND	.29	2.79	20.18	139.73	399-1813-2-ND	5,000	93.00/M	C410C151J1G5CA72
	100	220pF	±5	410	399-1814-1-ND	.29	2.79	20.18	139.73	399-1814-2-ND	5,000	93.00/M	C410C221J1G5CA72
	100	330pF	±5	410	399-1815-1-ND	.29	2.79	20.18	139.73	399-1815-2-ND	5,000	93.00/M	C410C331J1G5CA72
	100	470pF	±5	410	399-1816-1-ND	.29	2.79	20.18	139.73	399-1816-2-ND	5,000	93.00/M	C410C471J1G5CA72
	100	680pF	±5	410	399-1817-1-ND	.29	2.79	20.18	139.73	399-1817-2-ND	5,000	93.00/M	C410C681J1G5CA72
	100	1000pF	±5	410	399-1818-1-ND	.27	2.59	18.69	129.38	399-1818-2-ND	5,000	86.00/M	C410C102J1G5CA72
	100	1500pF	±5	420	399-1819-1-ND	.44	4.14	29.90	207.00	399-1819-2-ND	5,000	138.00/M	C420C152J1G5CA72
	100	2200pF	±5	420	399-1820-1-ND	.46	4.35	31.40	217.35	399-1820-2-ND	5,000	145.00/M	C420C222J1G5CA72
	100	3300pF	±5	430	399-1821-1-ND	.75	7.14	51.58	357.08	399-1821-2-ND	2,500	238.00/M	C430C332J1G5CA72
	100	4700pF	±5	430	399-1822-1-ND	.75	7.14	51.58	357.08	399-1822-2-ND	2,500	238.00/M	C430C472J1G5CA72
	100	6800pF	±5	430	399-1823-1-ND	1.02	9.63	69.52	481.28	399-1823-2-ND	2,500	321.00/M	C430C682J1G5CA72
	100	.01µF	±5	440	399-1824-1-ND	1.17	11.13	80.37	556.43	399-1824-2-ND	2,500	371.00/M	C440C103J1G5CA72
	100	.015µF	±5	440	399-1825-1-ND	1.17	11.13	80.37	556.43	399-1825-2-ND	2,500	371.00/M	C440C153J1G5CA72
	50	680pF	±5	410	399-1826-1-ND	.30	2.85	20.57	142.43	399-1826-2-ND	5,000	95.00/M	C410C681J5G5CA72
	50	1000pF	±5	410	399-1827-1-ND	.27	2.59	18.69	129.38	399-1827-2-ND	5,000	86.00/M	C410C102J5G5CA72
	50	1500pF	±5	412	399-1828-1-ND	.46	4.35	31.40	217.35	399-1828-2-ND	5,000	145.00/M	C412C152J5G5CA72
	50	2200pF	±5	412	399-1829-1-ND	.46	4.35	31.40	217.35	399-1829-2-ND	5,000	145.00/M	C412C222J5G5CA72
	50	1500pF	±5	420	399-1830-1-ND	.46	4.35	31.40	217.35	399-1830-2-ND	5,000	145.00/M	C420C152J5G5CA72
	50	2200pF	±5	420	399-1831-1-ND	.46	4.35	31.40	217.35	399-1831-2-ND	5,000	145.00/M	C420C222J5G5CA72
	50	3300pF	±5	430	399-1832-1-ND	.85	8.02	57.95	401.18	399-1832-2-ND	2,500	267.00/M	C430C332J5G5CA72
	50	4700pF	±5	430	399-1833-1-ND	.85	8.02	57.95	401.18	399-1833-2-ND	2,500	267.00/M	C430C472J5G5CA72
	50	6800pF	±5	430	399-1834-1-ND	.85	8.02	57.95	401.18	399-1834-2-ND	2,500	267.00/M	C430C682J5G5CA72
	50	.01µF	±5	440	399-1835-1-ND	1.17	11.13	80.37	556.43	399-1835-2-ND	2,500	371.00/M	C440C103J5G5CA72
	50	.015µF	±5	440	399-1836-1-ND	1.44	13.66	98.67	683.10	399-1836-2-ND	2,500	455.00/M	C440C153J5G5CA72
X7R	100	470pF	±10	410	399-1837-1-ND	.22	2.13	15.37	106.43	399-1837-2-ND	5,000	71.00/M	C410C471K1R5CA72
	100	680pF	±10	410	399-1838-1-ND	.22	2.13	15.37	106.43	399-1838-2-ND	5,000	71.00/M	C410C681K1R5CA72
	100	1000pF	±10	410	399-1839-1-ND	.21	1.98	14.30	99.00	399-1839-2-ND	5,000	66.00/M	C410C102K1R5CA72
	100	1500pF	±10	410	399-1840-1-ND	.22	2.13	15.37	106.43	399-1840-2-ND	5,000	71.00/M	C410C152K1R5CA72
	100	2200pF	±10	410	399-1841-1-ND	.22	2.13	15.37	106.43	399-1841-2-ND	5,000	71.00/M	C410C222K1R5CA72
	100	3300pF	±10	410	399-1842-1-ND	.22	2.13	15.37	106.43	399-1842-2-ND	5,000	71.00/M	C410C332K1R5CA72
	100	4700pF	±10	410	399-1843-1-ND	.22	2.13	15.37	106.43	399-1843-2-ND	5,000	71.00/M	C410C472K1R5CA72
	100	6800pF	±10	410	399-1844-1-ND	.22	2.13	15.37	106.43	399-1844-2-ND	5,000	71.00/M	C410C682K1R5CA72
	100	.01µF	±10	410	399-1845-1-ND	.18	1.68	12.16	84.15	399-1845-2-ND	5,000	56.00/M	C410C103K1R5CA72
	100	.015µF	±10	412	399-1846-1-ND	.26	2.48	17.88	123.75	399-1846-2-ND	5,000	83.00/M	C412C153K1R5CA72
	100	.022µF	±10	412	399-1847-1-ND	.33	3.17	22.88	158.40	399-1847-2-ND	5,000	106.00/M	C412C223K1R5CA72
	100	.015µF	±10	420	399-1848-1-ND	.26	2.48	17.88	123.75	399-1848-2-ND	5,000	83.00/M	C420C153K1R5CA72
	100	.022µF	±10	420	399-1849-1-ND	.37	3.47	25.03	173.25	399-1849-2-ND	5,000	116.00/M	C420C223K1R5CA72
	100	.033µF	±10	420	399-1850-1-ND	.37	3.47	25.03	173.25	399-1850-2-ND	5,000	116.00/M	C420C333K1R5CA72
	100	.047µF	±10	430	399-1851-1-ND	.47	4.46	32.18	222.75	399-1851-2-ND	2,500	149.00/M	C430C473K1R5CA72
	100	.068µF	±10	430	399-1852-1-ND	.65	6.14	44.33	306.90	399-1852-2-ND	2,500	205.00/M	C430C683K1R5CA72
	100	.1µF	±10	430	399-1853-1-ND	.52	4.95	35.75	247.50	399-1853-2-ND	2,500	165.00/M	C430C104K1R5CA72
	100	.15µF	±10	440	399-1854-1-ND	.96	9.11	65.78	455.40	399-1854-2-ND	2,500	304.00/M	C440C154K1R5CA72
	50	.01µF	±10	410	399-1855-1-ND	.17	1.58	11.44	79.20	399-1855-2-ND	5,000	53.00/M	C410C103K5R5CA72
	50	.015µF	±10	410	399-1856-1-ND	.29	2.72	19.66	136.13	399-1856-2-ND	5,000	91.00/M	C410C153K5R5CA72
	50	.022µF	±10	410	399-1857-1-ND	.29	2.72	19.66	136.13	399-1857-2-ND	5,000	91.00/M	C410C223K5R5CA72
	50	.033µF	±10	410	399-1858-1-ND	.29	2.72	19.66	136.13	399-1858-2-ND	5,000	91.00/M	C410C333K5R5CA72
	50	.047µF	±10	410	399-1859-1-ND	.31	2.97	21.45	148.50	399-1859-2-ND	5,000	99.00/M	C410C473K5R5CA72
	50	.068µF	±10	412	399-1860-1-ND	.31	2.97	21.45	148.50	399-1860-2-ND	5,000	99.00/M	C412C683K5R5CA72
	50	.1µF	±10	412	399-1861-1-ND	.20	1.88	13.59	94.05	399-1861-2-ND	5,000	63.00/M	C412C104K5R5CA72
	50	.068µF	±10	420	399-1862-1-ND	.31	2.97	21.45	148.50	399-1862-2-ND	5,000	99.00/M	C420C683K5R5CA72
	50	.1µF	±10	420	399-1863-1-ND	.20	1.88	13.59	94.05	399-1863-2-ND	5,000	63.00/M	C420C104K5R5CA72
	50	.15µF	±10	430	399-1864-1-ND	.65	6.14	44.33	306.90	399-1864-2-ND	2,500	205.00/M	C430C154K5R5CA72
	50	.22µF	±10	430	399-1865-1-ND	.96	9.11	65.78	455.40	399-1865-2-ND	2,500	304.00/M	C430C224K5R5CA72
	50	.33µF	±10	440	399-1866-1-ND	1.06	10.00	72.22	499.95	399-1866-2-ND	2,500	333.00/M	C440C334K5R5CA72
	50	.47µF	±10	440	399-1867-1-ND	1.57	14.85	107.25	742.50	399-1867-2-ND	2,500	495.00/M	C440C474K5R5CA72
Z5U	100	.01µF	±20	410	399-1868-1-ND	.14	1.29	9.30	64.35	399-1868-2-ND	5,000	43.00/M	C410C103M1U5CA72
	100	.015µF	±20	410	399-1869-1-ND	.19	1.83	13.23	91.58	399-1869-2-ND	5,000	61.00/M	C410C153M1U5CA72
	100	.022µF	±20	410	399-1870-1-ND	.19	1.83	13.23	91.58	399-1870-2-ND	5,000	61.00/M	C410C223M1U5CA72
	100	.033µF	±20	420	399-1871-1-ND	.30	2.87	20.74	143.55	399-1871-2-ND	5,000	96.00/M	C420C333M1U5CA72
	100	.047µF	±20	420	399-1872-1-ND	.30	2.87	20.74	143.55	399-1872-2-ND	5,000	96.00/M	C420C473M1U5CA72
	100	.068µF	±20	430	399-1873-1-ND	.52	4.95	35.75	247.50	399-1873-2-ND	2,500	165.00/M	C430C683M1U5CA72
	100	.1µF	±20	430	399-1874-1-ND	.34	3.22	23.24	160.88	399-1874-2-ND	2,500	107.00/M	C430C104M1U5CA72
	100	.15µF	±20	430	399-1875-1-ND	.57	5.45	39.33	272.25	399-1875-2-ND	2,500	182.00/M	C430C154M1U5CA72
	100	.22µF	±20	440	399-1876-1-ND	.57	5.45	39.33	272.25	399-1876-2-ND	2,500	182.00/M	C440C224M1U5CA72
	50	.033µF	±20	410	399-1877-1-ND	.18	1.68	12.16	84.15	399-1877-2-ND	5,000	56.00/M	C410C333M5U5CA72
	50	.047µF	±20	410	399-1878-1-ND	.18	1.68	12.16	84.15	399-1878-2-ND	5,000	56.00/M	C410C473M5U5CA72
	50	.068µF	±20	410	399-1879-1-ND	.18	1.68	12.16	84.15	399-1879-2-ND	5,000	56.00/M	C410C683M5U5CA72
	50	.1µF	±20	410	399-1880-1-ND	.13	1.19	8.58	59.40	399-1880-2-ND	5,000	40.00/M	C410C104M5U5CA72
	50	.15µF	±20	410	399-1881-1-ND	.26	2.48	17.88	123.75	399-1881-2-ND	5,000	83.00/M	C410C154M5U5CA72
	50	.22µF	±20	410	399-1882-1-ND	.26	2.48	17.88	123.75	399-1882-2-ND	5,000	83.00/M	C410C224M5U5CA72
	50	.33µF	±20	412	399-1883-1-ND	.40	3.81	27.53	190.58	399-1883-2-ND	5,000	127.00/M	C412C334M5U5CA72
	50	.33µF	±20	420	399-1884-1-ND	.40	3.81	27.53	190.58	399-1884-2-ND	5,000	127.00/M	C420C334M5U5CA72
	50	.47µF	±20	430	399-1885-1-ND	.65	6.19	44.69	309.38	399-1885-2-ND	2,500	206.00/M	C430C474M5U5CA72
	50	.68µF	±20	430	399-1886-1-ND	.65	6.19	44.69	309.38	399-1886-2-ND	2,500	206.00/M	C430C684M5U5CA72
	50	1µF	±20	440	399-1887-1-ND	.84	7.92	57.20	396.00	399-1887-2-ND	2,500	264.00/M	C440C105M5U5CA72

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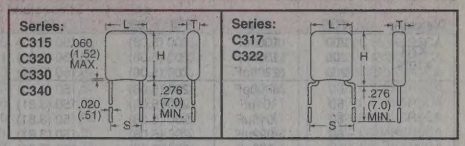
KEMET Ceramic Conformally Coated Radial Leaded Capacitors "GOLDEN MAX"

e "Golden Max" series of multi-layer ceramic capacitors starts with a acitor element that consists of formulated dielectric materials which e been cast into thin layers, and interspersed with metal electrodes mately exposed on opposite edges of the laminated structure. The re structure is fired at high temperature to produce a monolithic ck, which provides high capacitance values in a small physical ume. After firing, conductive terminations are applied to opposite s of the chip to make contact with the exposed electrodes.

KEMET leaded ceramic capacitors are offered in the three most popular temperature characteristics: **C0G:** Class 1, with a temperature coefficient of 0 ± 30ppm per degree C over an operating temperature range of -55°C to +125°C (Also known as "NP0"). **X7R:** Class II, with a maximum capacitance change of ±15% over an operating temperature range of -55°C to +125°C. **Z5U:** Class III, with a maximum capacitance change of +22% - 56% over an operating temperature range of +10°C to +85°C.



Dielectric	VDC	Cap.	Dimensions - Inches (mm) S (1) + .030	L Max.	H Max.	T Max.	Digi-Key Part No.	Pricing 1	10	100	500	Kemet Part No.
						C315 Series						
	100	150pF	.100 (2.54)	.150 (3.81)	.210 (5.33)	.100 (2.54)	399-1900-ND	.27	1.96	14.00	50.40	C315C151J1G5CA
	100	220pF	.100 (2.54)	.150 (3.81)	.210 (5.33)	.100 (2.54)	399-1901-ND	.27	1.96	14.00	50.40	C315C221J1G5CA
	100	330pF	.100 (2.54)	.150 (3.81)	.210 (5.33)	.100 (2.54)	399-1902-ND	.27	1.96	14.00	50.40	C315C331J1G5CA
	100	470pF	.100 (2.54)	.150 (3.81)	.210 (5.33)	.100 (2.54)	399-1903-ND	.27	1.96	14.00	50.40	C315C471J1G5CA
	100	680pF	.100 (2.54)	.150 (3.81)	.210 (5.33)	.100 (2.54)	399-1904-ND	.38	2.82	20.15	72.54	C315C681J1G5CA
	100	1000pF	.100 (2.54)	.150 (3.81)	.210 (5.33)	.100 (2.54)	399-1905-ND	.31	2.28	16.25	58.50	C315C102J1G5CA
	200	10pF	.100 (2.54)	.150 (3.81)	.210 (5.33)	.100 (2.54)	399-1888-ND	.26	1.93	13.75	49.50	C315C100J2G5CA
C0G	200	15pF	.100 (2.54)	.150 (3.81)	.210 (5.33)	.100 (2.54)	399-1889-ND	.28	2.08	14.85	53.46	C315C150J2G5CA
±5%	200	22pF	.100 (2.54)	.150 (3.81)	.210 (5.33)	.100 (2.54)	399-1890-ND	.28	2.08	14.85	53.46	C315C220J2G5CA
	200	27pF	.100 (2.54)	.150 (3.81)	.210 (5.33)	.100 (2.54)	399-1891-ND	.28	2.08	14.85	53.46	C315C270J2G5CA
	200	33pF	.100 (2.54)	.150 (3.81)	.210 (5.33)	.100 (2.54)	399-1892-ND	.28	2.08	14.85	53.46	C315C330J2G5CA
	200	47pF	.100 (2.54)	.150 (3.81)	.210 (5.33)	.100 (2.54)	399-1893-ND	.28	2.08	14.85	53.46	C315C470J2G5CA
	200	68pF	.100 (2.54)	.150 (3.81)	.210 (5.33)	.100 (2.54)	399-1894-ND	.30	2.19	15.68	56.43	C315C680J2G5CA
	200	100pF	.100 (2.54)	.150 (3.81)	.210 (5.33)	.100 (2.54)	399-1895-ND	.28	2.08	14.85	53.46	C315C101J2G5CA
	200	150pF	.100 (2.54)	.150 (3.81)	.210 (5.33)	.100 (2.54)	399-1896-ND	.32	2.35	16.80	60.48	C315C151J2G5CA
	200	220pF	.100 (2.54)	.150 (3.81)	.210 (5.33)	.100 (2.54)	399-1897-ND	.32	2.35	16.80	60.48	C315C221J2G5CA
	200	330pF	.100 (2.54)	.150 (3.81)	.210 (5.33)	.100 (2.54)	399-1898-ND	.38	2.82	20.15	72.54	C315C331J2G5CA
	200	470pF	.100 (2.54)	.150 (3.81)	.210 (5.33)	.100 (2.54)	399-1899-ND	.38	2.82	20.15	72.54	C315C471J2G5CA
	50	3300pF	.100 (2.54)	.150 (3.81)	.210 (5.33)	.100 (2.54)	399-2001-ND	.19	1.39	9.90	35.64	C315C332K5R5CA
	50	4700pF	.100 (2.54)	.150 (3.81)	.210 (5.33)	.100 (2.54)	399-2002-ND	.21	1.54	11.00	39.60	C315C472K5R5CA
	50	6800pF	.100 (2.54)	.150 (3.81)	.210 (5.33)	.100 (2.54)	399-2003-ND	.21	1.54	11.00	39.60	C315C682K5R5CA
	50	.01µF	.100 (2.54)	.150 (3.81)	.210 (5.33)	.100 (2.54)	399-2004-ND	.20	1.51	10.75	38.70	C315C103K5R5CA
	50	.015µF	.100 (2.54)	.150 (3.81)	.210 (5.33)	.100 (2.54)	399-2005-ND	.21	1.54	11.00	39.60	C315C153K5R5CA
	50	.022µF	.100 (2.54)	.150 (3.81)	.210 (5.33)	.100 (2.54)	399-2006-ND	.22	1.66	11.83	42.57	C315C223K5R5CA
	50	.033µF	.100 (2.54)	.150 (3.81)	.210 (5.33)	.100 (2.54)	399-2007-ND	.22	1.66	11.83	42.57	C315C333K5R5CA
	100	1000pF	.100 (2.54)	.150 (3.81)	.210 (5.33)	.100 (2.54)	399-1994-ND	.17	1.27	9.08	32.67	C315C102K1R5CA
	100	1500pF	.100 (2.54)	.150 (3.81)	.210 (5.33)	.100 (2.54)	399-1995-ND	.19	1.39	9.90	35.64	C315C152K1R5CA
	100	2200pF	.100 (2.54)	.150 (3.81)	.210 (5.33)	.100 (2.54)	399-1996-ND	.19	1.39	9.90	35.64	C315C222K1R5CA
X7R	100	3300pF	.100 (2.54)	.150 (3.81)	.210 (5.33)	.100 (2.54)	399-1997-ND	.19	1.39	9.90	35.64	C315C332K1R5CA
±10%	100	4700pF	.100 (2.54)	.150 (3.81)	.210 (5.33)	.100 (2.54)	399-1998-ND	.21	1.54	11.00	39.60	C315C472K1R5CA
	100	6800pF	.100 (2.54)	.150 (3.81)	.210 (5.33)	.100 (2.54)	399-1999-ND	.21	1.54	11.00	39.60	C315C682K1R5CA
	100	.01µF	.100 (2.54)	.150 (3.81)	.210 (5.33)	.100 (2.54)	399-2000-ND	.19	1.39	9.90	35.64	C315C103K1R5CA
	200	100pF	.100 (2.54)	.150 (3.81)	.210 (5.33)	.100 (2.54)	399-1985-ND	.22	1.65	11.75	42.30	C315C101K2R5CA
	200	150pF	.100 (2.54)	.150 (3.81)	.210 (5.33)	.100 (2.54)	399-1986-ND	.24	1.80	12.88	46.35	C315C151K2R5CA
	200	220pF	.100 (2.54)	.150 (3.81)	.210 (5.33)	.100 (2.54)	399-1987-ND	.24	1.80	12.88	46.35	C315C221K2R5CA
	200	330pF	.100 (2.54)	.150 (3.81)	.210 (5.33)	.100 (2.54)	399-1988-ND	.24	1.80	12.88	46.35	C315C331K2R5CA
	200	470pF	.100 (2.54)	.150 (3.81)	.210 (5.33)	.100 (2.54)	399-1989-ND	.24	1.80	12.88	46.35	C315C471K2R5CA
	200	680pF	.100 (2.54)	.150 (3.81)	.210 (5.33)	.100 (2.54)	399-1990-ND	.24	1.80	12.88	46.35	C315C681K2R5CA
	200	1000pF	.100 (2.54)	.150 (3.81)	.210 (5.33)	.100 (2.54)	399-1991-ND	.22	1.65	11.75	42.30	C315C102K2R5CA
	200	1500pF	.100 (2.54)	.150 (3.81)	.210 (5.33)	.100 (2.54)	399-1992-ND	.24	1.80	12.88	46.35	C315C152K2R5CA
	200	2200pF	.100 (2.54)	.150 (3.81)	.210 (5.33)	.100 (2.54)	399-1993-ND	.24	1.80	12.88	46.35	C315C222K2R5CA
	50	4700pF	.100 (2.54)	.150 (3.81)	.210 (5.33)	.100 (2.54)	399-2119-ND	.19	1.37	9.78	35.19	C315C472M5U5CA
	50	6800pF	.100 (2.54)	.150 (3.81)	.210 (5.33)	.100 (2.54)	399-2120-ND	.19	1.37	9.78	35.19	C315C682M5U5CA
	50	.01µF	.100 (2.54)	.150 (3.81)	.210 (5.33)	.100 (2.54)	399-2121-ND	.16	1.21	8.63	31.05	C315C103M5U5CA
	50	.015µF	.100 (2.54)	.150 (3.81)	.210 (5.33)	.100 (2.54)	399-2122-ND	.18	1.33	9.50	34.20	C315C153M5U5CA
	50	.022µF	.100 (2.54)	.150 (3.81)	.210 (5.33)	.100 (2.54)	399-2123-ND	.18	1.33	9.50	34.20	C315C223M5U5CA
	50	.033µF	.100 (2.54)	.150 (3.81)	.210 (5.33)	.100 (2.54)	399-2124-ND	.18	1.33	9.50	34.20	C315C333M5U5CA
	50	.047µF	.100 (2.54)	.150 (3.81)	.210 (5.33)	.100 (2.54)	399-2125-ND	.18	1.33	9.50	34.20	C315C473M5U5CA
Z5U	50	.068µF	.100 (2.54)	.150 (3.81)	.210 (5.33)	.100 (2.54)	399-2126-ND	.20	1.49	10.65	38.34	C315C683M5U5CA
±20%	50	.1µF	.100 (2.54)	.150 (3.81)	.210 (5.33)	.100 (2.54)	399-2127-ND	.16	1.21	8.63	31.05	C315C104M5U5CA
	100	1000pF	.100 (2.54)	.150 (3.81)	.210 (5.33)	.100 (2.54)	399-2111-ND	.17	1.25	8.93	32.13	C315C102M1U5CA
	100	1500pF	.100 (2.54)	.150 (3.81)	.210 (5.33)	.100 (2.54)	399-2112-ND	.19	1.37	9.78	35.19	C315C152M1U5CA
	100	2200pF	.100 (2.54)	.150 (3.81)	.210 (5.33)	.100 (2.54)	399-2113-ND	.19	1.37	9.78	35.19	C315C222M1U5CA
	100	3300pF	.100 (2.54)	.150 (3.81)	.210 (5.33)	.100 (2.54)	399-2114-ND	.19	1.37	9.78	35.19	C315C332M1U5CA
	100	4700pF	.100 (2.54)	.150 (3.81)	.210 (5.33)	.100 (2.54)	399-2115-ND	.19	1.37	9.78	35.19	C315C472M1U5CA
	100	6800pF	.100 (2.54)	.150 (3.81)	.210 (5.33)	.100 (2.54)	399-2116-ND	.19	1.37	9.78	35.19	C315C682M1U5CA
	100	.01µF	.100 (2.54)	.150 (3.81)	.210 (5.33)	.100 (2.54)	399-2117-ND	.17	1.25	8.93	32.13	C315C103M1U5CA
	100	.015µF	.100 (2.54)	.150 (3.81)	.210 (5.33)	.100 (2.54)	399-2118-ND	.21	1.53	10.93	39.33	C315C153M1U5CA
						C317 Series						
	100	150pF	.200 (5.08)	.150 (3.81)	.230 (5.84)	.100 (2.54)	399-1918-ND	.27	1.96	14.00	50.40	C317C151J1G5CA
	100	220pF	.200 (5.08)	.150 (3.81)	.230 (5.84)	.100 (2.54)	399-1919-ND	.27	1.96	14.00	50.40	C317C221J1G5CA
	100	330pF	.200 (5.08)	.150 (3.81)	.230 (5.84)	.100 (2.54)	399-1920-ND	.27	1.96	14.00	50.40	C317C331J1G5CA
	100	470pF	.200 (5.08)	.150 (3.81)	.230 (5.84)	.100 (2.54)	399-1921-ND	.27	1.96	14.00	50.40	C317C471J1G5CA
	100	680pF	.200 (5.08)	.150 (3.81)	.230 (5.84)	.100 (2.54)	399-1922-ND	.38	2.82	20.15	72.54	C317C681J1G5CA
	100	1000pF	.200 (5.08)	.150 (3.81)	.230 (5.84)	.100 (2.54)	399-1923-ND	.31	2.28	16.25	58.50	C317C102J1G5CA
	200	10pF	.200 (5.08)	.150 (3.81)	.230 (5.84)	.100 (2.54)	399-1906-ND	.26	1.93	13.75	49.50	C317C100J2G5CA
C0G	200	15pF	.200 (5.08)	.150 (3.81)	.230 (5.84)	.100 (2.54)	399-1907-ND	.28	2.08	14.85	53.46	C317C150J2G5CA
±5%	200	22pF	.200 (5.08)	.150 (3.81)	.230 (5.84)	.100 (2.54)	399-1908-ND	.28	2.08	14.85	53.46	C317C220J2G5CA
	200	33pF	.200 (5.08)	.150 (3.81)	.230 (5.84)	.100 (2.54)	399-1909-ND	.28	2.08	14.85	53.46	C317C330J2G5CA
	200	39pF	.200 (5.08)	.150 (3.81)	.230 (5.84)	.100 (2.54)	399-1910-ND	.28	2.08	14.85	53.46	C317C390J2G5CA
	200	47pF	.200 (5.08)	.150 (3.81)	.230 (5.84)	.100 (2.54)	399-1911-ND	.28	2.08	14.85	53.46	C317C470J2G5CA
	200	68pF	.200 (5.08)	.150 (3.81)	.230 (5.84)	.100 (2.54)	399-1912-ND	.30	2.19	15.68	56.43	C317C680J2G5CA
	200	100pF	.200 (5.08)	.150 (3.81)	.230 (5.84)	.100 (2.54)	399-1913-ND	.28	2.08	14.85	53.46	C317C101J2G5CA
	200	150pF	.200 (5.08)	.150 (3.81)	.230 (5.84)	.100 (2.54)	399-1914-ND	.32	2.35	16.80	60.48	C317C151J2G5CA
	200	220pF	.200 (5.08)	.150 (3.81)	.230 (5.84)	.100 (2.54)	399-1915-ND	.32	2.35	16.80	60.48	C317C221J2G5CA
	200	330pF	.200 (5.08)	.150 (3.81)	.230 (5.84)	.100 (2.54)	399-1916-ND	.38	2.82	20.15	72.54	C317C331J2G5CA
	200	470pF	.200 (5.08)	.150 (3.81)	.230 (5.84)	.100 (2.54)	399-1917-ND	.38	2.82	20.15	72.54	C317C471J2G5CA
	50	3300pF	.200 (5.08)	.150 (3.81)	.230 (5.84)	.100 (2.54)	399-2024-ND	.19	1.39	9.90	35.64	C317C332K5R5CA
	50	4700pF	.200 (5.08)	.150 (3.81)	.230 (5.84)	.100 (2.54)	399-2025-ND	.21	1.54	11.00	39.60	C317C472K5R5CA
	50	6800pF	.200 (5.08)	.150 (3.81)	.230 (5.84)	.100 (2.54)	399-2026-ND	.21	1.54	11.00	39.60	C317C682K5R5CA
	50	.01µF	.200 (5.08)	.150 (3.81)	.230 (5.84)	.100 (2.54)	399-2027-ND	.20	1.51	10.75	38.70	C317C103K5R5CA
	50	.015µF	.200 (5.08)	.150 (3.81)	.230 (5.84)	.100 (2.54)	399-2028-ND	.21	1.54	11.00	39.60	C317C153K5R5CA
	50	.022µF	.200 (5.08)	.150 (3.81)	.230 (5.84)	.100 (2.54)	399-2029-ND	.22	1.66	11.83	42.57	C317C223K5R5CA
	50	.033µF	.200 (5.08)	.150 (3.81)	.230 (5.84)	.100 (2.54)	399-2030-ND	.22	1.66	11.83	42.57	C317C333K5R5CA
	100	1000pF	.200 (5.08)	.150 (3.81)	.230 (5.84)	.100 (2.54)	399-2017-ND	.17	1.27	9.08	32.67	C317C102K1R5CA
	100	1500pF	.200 (5.08)	.150 (3.81)	.230 (5.84)	.100 (2.54)	399-2018-ND	.19	1.39	9.90	35.64	C317C152K1R5CA
	100	2200pF	.200 (5.08)	.150 (3.81)	.230 (5.84)	.100 (2.54)	399-2019-ND	.19	1.39	9.90	35.64	C317C222K1R5CA
X7R	100	3300pF	.200 (5.08)	.150 (3.81)	.230 (5.84)	.100 (2.54)	399-2020-ND	.19	1.39	9.90	35.64	C317C332K1R5CA
±10%	100	4700pF	.200 (5.08)	.150 (3.81)	.230 (5.84)	.100 (2.54)	399-2021-ND	.21	1.54	11.00	39.60	C317C472K1R5CA
	100	6800pF	.200 (5.08)	.150 (3.81)	.230 (5.84)	.100 (2.54)	399-2022-ND	.21	1.54	11.00	39.60	C317C682K1R5CA
	100	.01µF	.200 (5.08)	.150 (3.81)	.230 (5.84)	.100 (2.54)	399-2023-ND	.19	1.39	9.90	35.64	C317C103K1R5CA
	200	100pF	.200 (5.08)	.150 (3.81)	.230 (5.84)	.100 (2.54)	399-2008-ND	.22	1.65	11.75	42.30	C317C101K2R5CA
	200	150pF	.200 (5.08)	.150 (3.81)	.230 (5.84)	.100 (2.54)	399-2009-ND	.24	1.80	12.88	46.35	C317C151K2R5CA
	200	220pF	.200 (5.08)	.150 (3.81)	.230 (5.84)	.100 (2.54)	399-2010-ND	.24	1.80	12.88	46.35	C317C221K2R5CA
	200	330pF	.200 (5.08)	.150 (3.81)	.230 (5.84)	.100 (2.54)	399-2011-ND	.24	1.80	12.88	46.35	C317C331K2R5CA
	200	470pF	.200 (5.08)	.150 (3.81)	.230 (5.84)	.100 (2.54)	399-2012-ND	.24	1.80	12.88	46.35	C317C471K2R5CA
	200	680pF	.200 (5.08)	.150 (3.81)	.230 (5.84)	.100 (2.54)	399-2013-ND	.24	1.80	12.88	46.35	C317C681K2R5CA

(Continued)

Dielectric	VDC	Cap.	Dimensions - Inches (mm) S (1) + .030	L Max.	H Max.	T Max.	Digi-Key Part No.	Pricing 1	10	100	500	Kemet Part No.
X7R ±10%	200	1000pF	.200 (5.08)	.150 (3.81)	.230 (5.84)	.100 (2.54)	399-2014-ND	.22	1.65	11.75	42.30	C317C102K2R5
	200	1500pF	.200 (5.08)	.150 (3.81)	.230 (5.84)	.100 (2.54)	399-2015-ND	.24	1.80	12.88	46.35	C317C152K2R5
	200	2200pF	.200 (5.08)	.150 (3.81)	.230 (5.84)	.100 (2.54)	399-2016-ND	.24	1.80	12.88	46.35	C317C222K2R5
Z5U ±20%	50	6800pF	.200 (5.08)	.150 (3.81)	.230 (5.84)	.100 (2.54)	399-2136-ND	.19	1.37	9.78	35.19	C317C682M5U5
	50	.01µF	.200 (5.08)	.150 (3.81)	.230 (5.84)	.100 (2.54)	399-2137-ND	.16	1.21	8.63	31.05	C317C103M5U5
	50	.015µF	.200 (5.08)	.150 (3.81)	.230 (5.84)	.100 (2.54)	399-2138-ND	.18	1.33	9.50	34.20	C317C153M5U5
	50	.022µF	.200 (5.08)	.150 (3.81)	.230 (5.84)	.100 (2.54)	399-2139-ND	.18	1.33	9.50	34.20	C317C223M5U5
	50	.033µF	.200 (5.08)	.150 (3.81)	.230 (5.84)	.100 (2.54)	399-2140-ND	.18	1.33	9.50	34.20	C317C333M5U5
	50	.047µF	.200 (5.08)	.150 (3.81)	.230 (5.84)	.100 (2.54)	399-2141-ND	.18	1.33	9.50	34.20	C317C473M5U5
	50	.068µF	.200 (5.08)	.150 (3.81)	.230 (5.84)	.100 (2.54)	399-2142-ND	.20	1.49	10.65	38.34	C317C683M5U5
	50	.1µF	.200 (5.08)	.150 (3.81)	.230 (5.84)	.100 (2.54)	399-2143-ND	.16	1.21	8.63	31.05	C317C104M5U5
	100	1000pF	.200 (5.08)	.150 (3.81)	.230 (5.84)	.100 (2.54)	399-2128-ND	.17	1.25	8.93	32.13	C317C102M1U5
	100	1500pF	.200 (5.08)	.150 (3.81)	.230 (5.84)	.100 (2.54)	399-2129-ND	.19	1.37	9.78	35.19	C317C152M1U5
	100	2200pF	.200 (5.08)	.150 (3.81)	.230 (5.84)	.100 (2.54)	399-2130-ND	.19	1.37	9.78	35.19	C317C222M1U5
	100	3300pF	.200 (5.08)	.150 (3.81)	.230 (5.84)	.100 (2.54)	399-2131-ND	.19	1.37	9.78	35.19	C317C332M1U5
	100	4700pF	.200 (5.08)	.150 (3.81)	.230 (5.84)	.100 (2.54)	399-2132-ND	.19	1.37	9.78	35.19	C317C472M1U5
	100	6800pF	.200 (5.08)	.150 (3.81)	.230 (5.84)	.100 (2.54)	399-2133-ND	.19	1.37	9.78	35.19	C317C682M1U5
	100	.01µF	.200 (5.08)	.150 (3.81)	.230 (5.84)	.100 (2.54)	399-2134-ND	.17	1.25	8.93	32.13	C317C103M1U5
	100	.015µF	.200 (5.08)	.150 (3.81)	.230 (5.84)	.100 (2.54)	399-2135-ND	.21	1.53	10.93	39.33	C317C153M1U5
C320 Series												
C0G ±5%	100	680pF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-1940-ND	.39	2.85	20.35	73.26	C320C681J1G5
	100	1000pF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-1941-ND	.31	2.29	16.38	58.95	C320C102J1G5
	100	1500pF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-1942-ND	.39	2.90	20.70	74.52	C320C152J1G5
	100	2200pF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-1943-ND	.39	2.90	20.70	74.52	C320C222J1G5
	100	3300pF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-1944-ND	.45	3.30	23.58	84.87	C320C332J1G5
	100	4700pF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-1945-ND	.48	3.54	25.30	91.08	C320C472J1G5
	200	10pF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-1924-ND	.27	1.96	14.00	50.40	C320C100J2G5
	200	15pF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-1925-ND	.29	2.12	15.13	54.45	C320C150J2G5
	200	22pF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-1926-ND	.29	2.12	15.13	54.45	C320C220J2G5
	200	33pF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-1927-ND	.29	2.12	15.13	54.45	C320C330J2G5
	200	47pF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-1928-ND	.29	2.12	15.13	54.45	C320C470J2G5
	200	68pF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-1929-ND	.30	2.23	15.95	57.42	C320C680J2G5
	200	100pF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-1930-ND	.29	2.12	15.13	54.45	C320C101J2G5
	200	150pF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-1931-ND	.32	2.37	16.95	61.02	C320C151J2G5
	200	220pF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-1932-ND	.32	2.37	16.95	61.02	C320C221J2G5
	200	330pF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-1933-ND	.39	2.85	20.35	73.26	C320C331J2G5
	200	470pF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-1934-ND	.39	2.85	20.35	73.26	C320C471J2G5
	200	680pF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-1935-ND	.42	3.08	22.03	79.29	C320C681J2G5
	200	1000pF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-1936-ND	.40	2.97	21.20	76.32	C320C102J2G5
	200	1500pF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-1937-ND	.45	3.30	23.58	84.87	C320C152J2G5
	200	2200pF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-1938-ND	.45	3.30	23.58	84.87	C320C222J2G5
	200	3300pF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-1939-ND	.55	4.07	29.05	104.58	C320C332J2G5
X7R ±10%	50	.015µF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2049-ND	.21	1.57	11.20	40.32	C320C153K5R5
	50	.022µF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2050-ND	.23	1.69	12.05	43.38	C320C223K5R5
	50	.033µF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2051-ND	.23	1.69	12.05	43.38	C320C333K5R5
	50	.047µF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2052-ND	.26	1.92	13.73	49.41	C320C473K5R5
	50	.068µF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2053-ND	.26	1.92	13.73	49.41	C320C683K5R5
	50	.1µF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2054-ND	.21	1.57	11.20	40.32	C320C104K5R5
	50	.15µF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2055-ND	.37	2.71	19.33	69.57	C320C154K5R5
	50	.22µF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2056-ND	.53	3.92	28.00	100.80	C320C224K5R5
	100	4700pF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2040-ND	.21	1.58	11.30	40.68	C320C472K1R5
	100	6800pF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2041-ND	.21	1.58	11.30	40.68	C320C682K1R5
	100	.01µF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2042-ND	.19	1.42	10.18	36.63	C320C103K1R5
	100	.015µF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2043-ND	.24	1.74	12.43	44.73	C320C153K1R5
	100	.022µF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2044-ND	.27	2.02	14.40	51.84	C320C223K1R5
	100	.033µF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2045-ND	.27	2.02	14.40	51.84	C320C333K1R5
	100	.047µF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2046-ND	.34	2.49	17.80	64.08	C320C473K1R5
	100	.068µF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2047-ND	.34	2.49	17.80	64.08	C320C683K1R5
	100	.1µF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2048-ND	.34	2.49	17.80	64.08	C320C104K1R5
	200	1000pF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2031-ND	.23	1.69	12.08	43.47	C320C102K2R5
	200	1500pF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2032-ND	.25	1.85	13.23	47.61	C320C152K2R5
	200	2200pF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2033-ND	.25	1.85	13.23	47.61	C320C222K2R5
	200	3300pF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2034-ND	.25	1.85	13.23	47.61	C320C332K2R5
	200	4700pF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2035-ND	.27	2.01	14.38	51.75	C320C472K2R5
	200	6800pF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2036-ND	.27	2.01	14.38	51.75	C320C682K2R5
	200	.01µF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2037-ND	.25	1.85	13.23	47.61	C320C103K2R5
	200	.015µF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2038-ND	.31	2.30	16.40	59.04	C320C153K2R5
	200	.022µF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2039-ND	.31	2.30	16.40	59.04	C320C223K2R5
Z5U ±20%	50	.033µF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2152-ND	.18	1.33	9.50	34.20	C320C333M5U5
	50	.047µF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2153-ND	.18	1.33	9.50	34.20	C320C473M5U5
	50	.068µF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2154-ND	.20	1.49	10.65	38.34	C320C683M5U5
	50	.1µF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2155-ND	.16	1.21	8.63	31.05	C320C104M5U5
	50	.15µF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2156-ND	.24	1.73	12.38	44.55	C320C154M5U5
	50	.22µF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2157-ND	.32	2.33	16.68	60.03	C320C224M5U5
	50	.33µF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2158-ND	.32	2.33	16.68	60.03	C320C334M5U5
	50	.47µF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2159-ND	.40	2.94	21.00	75.60	C320C474M5U5
	100	.01µF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2144-ND	.17	1.25	8.93	32.13	C320C103M1U5
	100	.015µF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2145-ND	.21	1.53	10.93	39.33	C320C153M1U5
	100	.022µF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2146-ND	.21	1.53	10.93	39.33	C320C223M1U5
	100	.033µF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2147-ND	.24	1.73	12.38	44.55	C320C333M1U5
	100	.047µF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2148-ND	.24	1.73	12.38	44.55	C320C473M1U5
	100	.068µF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2149-ND	.28	2.05	14.68	52.83	C320C683M1U5
	100	.1µF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2150-ND	.21	1.53	10.93	39.33	C320C104M1U5
	100	.15µF	.100 (2.54)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2151-ND	.38	2.78	19.85	71.46	C320C154M1U5
C322 Series												
C0G ±5%	100	680pF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-1962-ND	.39	2.85	20.35	73.26	C322C681J1G5C
	100	1000pF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-1963-ND	.31	2.29	16.38	58.95	C322C102J1G5C
	100	1500pF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-1964-ND	.39	2.90	20.70	74.52	C322C152J1G5C
	100	2200pF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-1965-ND	.39	2.90	20.70	74.52	C322C222J1G5C
	100	3300pF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-1966-ND	.45	3.30	23.58	84.87	C322C332J1G5C
	100	4700pF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-1967-ND	.48	3.54	25.30	91.08	C322C472J1G5C
	200	10pF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-1946-ND	.27	1.96	14.00	50.40	C322C100J2G5C
	200	15pF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-1947-ND	.29	2.12	15.13	54.45	C322C150J2G5C
	200	22pF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-1948-ND	.29	2.12	15.13	54.45	C322C220J2G5C
	200	33pF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-1949-ND	.29	2.12	15.13	54.45	C322C330J2G5C
	200	47pF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-1950-ND	.29	2.12	15.13	54.45	C322C470J2G5C
	200	68pF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-1951-ND	.30	2.23	15.95	57.42	C322C680J2G5C
	200	100pF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-1952-ND	.29	2.12	15.13	54.45	C322C101J2G5C
	200	150pF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-1953-ND	.32	2.37	16.95	61.02	C322C151J2G5C
	200	220pF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-1954-ND	.32	2.37	16.95	61.02	C322C221J2G5C
	200	330pF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-1955-ND	.39	2.85	20.35	73.26	C322C331J2G5C
	200	470pF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-1956-ND	.39	2.85	20.35	73.26	C322C471J2G5C
	200	680pF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-1957-ND	.42	3.08	22.03	79.29	C322C681J2G5C
	200	1000pF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-1958-ND	.40	2.97	21.20	76.32	C322C102J2G5C
	200	1500pF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-1959-ND	.45	3.30	23.58	84.87	C322C152J2G5C
	200	2200pF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-1960-ND	.45	3.30	23.58	84.87	C322C222J2G5C
	200	3300pF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-1961-ND	.55	4.07	29.05	104.58	C322C332J2G5C

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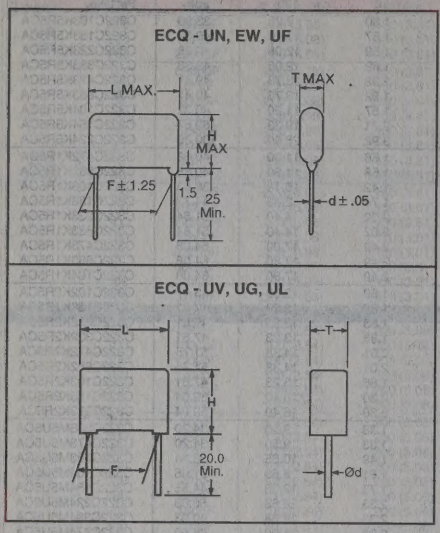
	50	.01µF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2075-ND	.18	1.30	9.25	33.30	C322C103K5R5CA
	50	.015µF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2076-ND	.21	1.57	11.20	40.32	C322C153K5R5CA
	50	.022µF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2077-ND	.23	1.69	12.05	43.38	C322C223K5R5CA
	50	.033µF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2078-ND	.23	1.69	12.05	43.38	C322C333K5R5CA
	50	.047µF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2079-ND	.26	1.92	13.73	49.41	C322C473K5R5CA
	50	.068µF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2080-ND	.26	1.92	13.73	49.41	C322C683K5R5CA
	50	.1µF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2081-ND	.21	1.57	11.20	40.32	C322C104K5R5CA
	50	.15µF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2082-ND	.37	2.71	19.33	69.57	C322C154K5R5CA
	50	.22µF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2083-ND	.53	3.92	28.00	100.80	C322C224K5R5CA
	100	4700pF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2066-ND	.21	1.58	11.30	40.68	C322C472K1R5CA
	100	6800pF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2067-ND	.21	1.58	11.30	40.68	C322C682K1R5CA
X7R	100	.01µF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2068-ND	.19	1.42	10.18	36.63	C322C103K1R5CA
±10%	100	.015µF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2069-ND	.24	1.74	12.43	44.73	C322C153K1R5CA
	100	.022µF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2070-ND	.27	2.02	14.40	51.84	C322C223K1R5CA
	100	.033µF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2071-ND	.27	2.02	14.40	51.84	C322C333K1R5CA
	100	.047µF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2072-ND	.34	2.49	17.80	64.08	C322C473K1R5CA
	100	.068µF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2073-ND	.34	2.49	17.80	64.08	C322C683K1R5CA
	100	.1µF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2074-ND	.34	2.49	17.80	64.08	C322C104K1R5CA
	200	1000pF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2057-ND	.23	1.69	12.08	43.47	C322C102K2R5CA
	200	1500pF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2058-ND	.25	1.85	13.23	47.61	C322C152K2R5CA
	200	2200pF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2059-ND	.25	1.85	13.23	47.61	C322C222K2R5CA
	200	3300pF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2060-ND	.25	1.85	13.23	47.61	C322C332K2R5CA
	200	4700pF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2061-ND	.27	2.01	14.38	51.75	C322C472K2R5CA
	200	6800pF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2062-ND	.27	2.01	14.38	51.75	C322C682K2R5CA
	200	.01µF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2063-ND	.25	1.85	13.23	47.61	C322C103K2R5CA
	200	.015µF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2064-ND	.31	2.30	16.40	59.04	C322C153K2R5CA
	200	.022µF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2065-ND	.31	2.30	16.40	59.04	C322C223K2R5CA
	50	.033µF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2168-ND	.18	1.33	9.50	34.20	C322C333M5U5CA
	50	.047µF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2169-ND	.18	1.33	9.50	34.20	C322C473M5U5CA
	50	.068µF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2170-ND	.20	1.49	10.65	38.34	C322C683M5U5CA
	50	.1µF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2171-ND	.16	1.21	8.63	31.05	C322C104M5U5CA
	50	.15µF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2172-ND	.24	1.73	12.38	44.55	C322C154M5U5CA
	50	.22µF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2173-ND	.32	2.33	16.68	60.03	C322C224M5U5CA
	50	.33µF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2174-ND	.32	2.33	16.68	60.03	C322C334M5U5CA
Z5U	50	.47µF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2175-ND	.40	2.94	21.00	75.60	C322C474M5U5CA
±20%	100	.01µF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2160-ND	.17	1.25	8.93	32.13	C322C103M1U5CA
	100	.015µF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2161-ND	.21	1.53	10.93	39.33	C322C153M1U5CA
	100	.022µF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2162-ND	.21	1.53	10.93	39.33	C322C223M1U5CA
	100	.033µF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2163-ND	.24	1.73	12.38	44.55	C322C333M1U5CA
	100	.047µF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2164-ND	.24	1.73	12.38	44.55	C322C473M1U5CA
	100	.068µF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2165-ND	.28	2.05	14.68	52.83	C322C683M1U5CA
	100	.1µF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2166-ND	.21	1.53	10.93	39.33	C322C104M1U5CA
	100	.15µF	.200 (5.08)	.200 (5.08)	.260 (6.60)	.125 (3.18)	399-2167-ND	.38	2.78	19.85	71.46	C322C154M1U5CA
							C330 Series					
	100	3300pF	.200 (5.08)	.300 (7.62)	.360 (9.14)	.150 (3.81)	399-1973-ND	.84	6.16	44.00	158.40	C330C332J1G5CA
	100	4700pF	.200 (5.08)	.300 (7.62)	.360 (9.14)	.150 (3.81)	399-1974-ND	.84	6.16	44.00	158.40	C330C472J1G5CA
	100	6800pF	.200 (5.08)	.300 (7.62)	.360 (9.14)	.150 (3.81)	399-1975-ND	.91	6.68	47.73	171.81	C330C682J1G5CA
	100	.01µF	.200 (5.08)	.300 (7.62)	.360 (9.14)	.150 (3.81)	399-1976-ND	1.11	8.21	58.65	211.14	C330C103J1G5CA
C0G	100	.015µF	.200 (5.08)	.300 (7.62)	.360 (9.14)	.150 (3.81)	399-1977-ND	1.41	10.38	74.18	267.03	C330C153J1G5CA
±5%	100	.022µF	.200 (5.08)	.300 (7.62)	.360 (9.14)	.150 (3.81)	399-1978-ND	2.10	15.46	110.40	397.44	C330C223J1G5CA
	200	3300pF	.200 (5.08)	.300 (7.62)	.360 (9.14)	.150 (3.81)	399-1968-ND	.94	6.92	49.45	178.02	C330C332J2G5CA
	200	4700pF	.200 (5.08)	.300 (7.62)	.360 (9.14)	.150 (3.81)	399-1969-ND	.94	6.92	49.45	178.02	C330C472J2G5CA
	200	6800pF	.200 (5.08)	.300 (7.62)	.360 (9.14)	.150 (3.81)	399-1970-ND	1.33	9.78	69.88	251.55	C330C682J2G5CA
	200	.01µF	.200 (5.08)	.300 (7.62)	.360 (9.14)	.150 (3.81)	399-1971-ND	1.26	9.30	66.43	239.13	C330C103J2G5CA
	200	.015µF	.200 (5.08)	.300 (7.62)	.360 (9.14)	.150 (3.81)	399-1972-ND	2.49	18.32	130.83	470.97	C330C153J2G5CA
	50	.15µF	.200 (5.08)	.300 (7.62)	.360 (9.14)	.150 (3.81)	399-2097-ND	.60	4.43	31.65	113.94	C330C154K5R5CA
	50	.22µF	.200 (5.08)	.300 (7.62)	.360 (9.14)	.150 (3.81)	399-2098-ND	.77	5.68	40.60	146.16	C330C224K5R5CA
	50	.33µF	.200 (5.08)	.300 (7.62)	.360 (9.14)	.150 (3.81)	399-2099-ND	.83	6.11	43.68	157.23	C330C334K5R5CA
	50	.47µF	.200 (5.08)	.300 (7.62)	.360 (9.14)	.150 (3.81)	399-2100-ND	.83	6.11	43.68	157.23	C330C474K5R5CA
	50	.68µF	.200 (5.08)	.300 (7.62)	.360 (9.14)	.150 (3.81)	399-2101-ND	1.73	12.74	91.00	327.60	C330C684K5R5CA
	50	1µF	.200 (5.08)	.300 (7.62)	.360 (9.14)	.150 (3.81)	399-2102-ND	1.40	10.31	73.65	265.14	C330C105K5R5CA
	100	.068µF	.200 (5.08)	.300 (7.62)	.360 (9.14)	.150 (3.81)	399-2091-ND	.46	3.36	24.03	86.49	C330C683K1R5CA
	100	.1µF	.200 (5.08)	.300 (7.62)	.360 (9.14)	.150 (3.81)	399-2092-ND	.40	2.97	21.20	76.32	C330C104K1R5CA
X7R	100	.15µF	.200 (5.08)	.300 (7.62)	.360 (9.14)	.150 (3.81)	399-2093-ND	.62	4.59	32.78	117.99	C330C154K1R5CA
±10%	100	.22µF	.200 (5.08)	.300 (7.62)	.360 (9.14)	.150 (3.81)	399-2094-ND	.91	6.72	48.03	172.89	C330C224K1R5CA
	100	.33µF	.200 (5.08)	.300 (7.62)	.360 (9.14)	.150 (3.81)	399-2095-ND	1.13	8.34	59.60	214.56	C330C334K1R5CA
	100	.47µF	.200 (5.08)	.300 (7.62)	.360 (9.14)	.150 (3.81)	399-2096-ND	1.74	12.86	91.83	330.57	C330C474K1R5CA
	200	.015µF	.200 (5.08)	.300 (7.62)	.360 (9.14)	.150 (3.81)	399-2084-ND	.46	3.42	24.45	88.02	C330C153K2R5CA
	200	.022µF	.200 (5.08)	.300 (7.62)	.360 (9.14)	.150 (3.81)	399-2085-ND	.46	3.42	24.45	88.02	C330C223K2R5CA
	200	.033µF	.200 (5.08)	.300 (7.62)	.360 (9.14)	.150 (3.81)	399-2086-ND	.46	3.42	24.45	88.02	C330C333K2R5CA
	200	.047µF	.200 (5.08)	.300 (7.62)	.360 (9.14)	.150 (3.81)	399-2087-ND	.46	3.42	24.45	88.02	C330C473K2R5CA
	200	.056µF	.200 (5.08)	.300 (7.62)	.360 (9.14)	.150 (3.81)	399-2088-ND	.46	3.42	24.45	88.02	C330C563K2R5CA
	200	.068µF	.200 (5.08)	.300 (7.62)	.360 (9.14)	.150 (3.81)	399-2089-ND	.63	4.63	33.08	119.07	C330C683K2R5CA
	200	.1µF	.200 (5.08)	.300 (7.62)	.360 (9.14)	.150 (3.81)	399-2090-ND	.96	7.05	50.33	181.17	C330C104K2R5CA
	50	.33µF	.200 (5.08)	.300 (7.62)	.360 (9.14)	.150 (3.81)	399-2181-ND	.52	3.83	27.33	98.37	C330C334M5U5CA
	50	.47µF	.200 (5.08)	.300 (7.62)	.360 (9.14)	.150 (3.81)	399-2182-ND	.52	3.83	27.33	98.37	C330C474M5U5CA
	50	.68µF	.200 (5.08)	.300 (7.62)	.360 (9.14)	.150 (3.81)	399-2183-ND	.72	5.27	37.68	135.63	C330C684M5U5CA
	50	1µF	.200 (5.08)	.300 (7.62)	.360 (9.14)	.150 (3.81)	399-2184-ND	.65	4.79	34.23	123.21	C330C105M5U5CA
	50	1.5µF	.200 (5.08)	.300 (7.62)	.360 (9.14)	.150 (3.81)	399-2185-ND	1.06	7.81	55.78	200.79	C330C155M5U5CA
Z5U	50	2.2µF	.200 (5.08)	.300 (7.62)	.360 (9.14)	.150 (3.81)	399-2186-ND	1.11	8.19	58.50	210.60	C330C225M5U5CA
±20%	100	.1µF	.200 (5.08)	.300 (7.62)	.360 (9.14)	.150 (3.81)	399-2176-ND	.41	3.02	21.58	77.67	C330C104M1U5CA
	100	.15µF	.200 (5.08)	.300 (7.62)	.360 (9.14)	.150 (3.81)	399-2177-ND	.48	3.54	25.30	91.08	C330C154M1U5CA
	100	.22µF	.200 (5.08)	.300 (7.62)	.360 (9.14)	.150 (3.81)	399-2178-ND	.55	4.03	28.75	103.50	C330C224M1U5CA
	100	.33µF	.200 (5.08)	.300 (7.62)	.360 (9.14)	.150 (3.81)	399-2179-ND	.55	4.03	28.75	103.50	C330C334M1U5CA
	100	.47µF	.200 (5.08)	.300 (7.62)	.360 (9.14)	.150 (3.81)	399-2180-ND	.66	4.83	34.50	124.20	C330C474M1U5CA
							C340 Series					
	100	.033µF	.200 (5.08)	.400 (10.16)	.460 (11.68)	.150 (3.81)	399-1982-ND	4.53	33.39	238.50	858.60	C340C333J1G5CA
	100	.047µF	.200 (5.08)	.400 (10.16)	.460 (11.68)	.150 (3.81)	399-1983-ND	5.06	37.25	266.10	957.96	C340C473J1G5CA
C0G	100	.068µF	.200 (5.08)	.400 (10.16)	.460 (11.68)	.150 (3.81)	399-1984-ND	5.67	41.75	298.20	1073.52	C340C683J1G5CA
±5%	200	.022µF	.200 (5.08)	.400 (10.16)	.460 (11.68)	.150 (3.81)	399-1979-ND	4.53	33.39	238.50	858.60	C340C223J2G5CA
	200	.033µF	.200 (5.08)	.400 (10.16)	.460 (11.68)	.150 (3.81)	399-1980-ND	5.06	37.25	266.10	957.96	C340C333J2G5CA
	200	.047µF	.200 (5.08)	.400 (10.16)	.460 (11.68)	.150 (3.81)	399-1981-ND	5.67	41.75	298.20	1073.52	C340C473J2G5CA
	50	1.5µF	.200 (5.08)	.400 (10.16)	.460 (11.68)	.150 (3.81)	399-2109-ND	3.55	26.16	186.88	672.75	C340C155K5R5CA
	50	2.2µF	.200 (5.08)	.400 (10.16)	.460 (11.68)	.150 (3.81)	399-2110-ND	4.44	32.73	233.75	841.50	C340C225K5R5CA
	100	.47µF	.200 (5.08)	.400 (10.16)	.460 (11.68)	.150 (3.81)	399-2106-ND	1.85	13.65	97.50	351.00	C340C474K1R5CA
X7R	100	.68µF	.200 (5.08)	.400 (10.16)	.460 (11.68)	.150 (3.81)	399-2107-ND	4.63	34.15	243.90	878.04	C340C684K1R5CA
±10%	100	1µF	.200 (5.08)	.400 (10.16)	.460 (11.68)	.150 (3.81)	399-2108-ND	4.63	34.15	243.90	878.04	C340C105K1R5CA
	200	.1µF	.200 (5.08)	.400 (10.16)	.460 (11.68)	.150 (3.81)	399-2103-ND	1.00	7.35	52.50	189.00	C340C104K2R5CA
	200	.15µF	.200 (5.08)	.400 (10.16)	.460 (11.68)	.150 (3.81)	399-2104-ND	4.13	30.45	217.50	783.00	C340C154K2R5CA
	200	.22µF	.200 (5.08)	.400 (10.16)	.460 (11.68)	.150 (3.81)	399-2105-ND	4.63	34.15	243.90	878.04	C340C224K2R5CA
	50	2.2µF	.200 (5.08)	.400 (10.16)	.460 (11.68)	.150 (3.81)	399-2191-ND	3.17	23.35	166.75	600.30	C340C225M5U5CA
	50	3.3µF	.200 (5.08)	.400 (10.16)	.460 (11.68)	.150 (3.81)	399-2192-ND	3.96	29.18	208.45	750.42	C340C335M5U5CA
	50	4.7µF	.200 (5.08)	.400 (10.16)	.460 (11.68)	.150 (3.81)	399-2193-ND	4.78	35.22	251.58	905.67	C340C475M5U5CA
Z5U	100	.47µF	.200 (5.08)	.400 (10.16)	.460 (11.68)	.150 (3.81)	399-2187-ND	.66	4.83	34.50	124.20	C340C474M1U5CA
±20%	100	.68µF	.200 (5.08)	.400 (10.16)	.460 (11.68)	.150 (3.81)	399-2188-ND	1.78	13.08	93.45	336.42	C340C684M1U5CA
	100	1µF	.200 (5.08)	.400 (10.16)	.460 (11.68)	.150 (3.81)	399-2189-ND	3.14	23.15	165.33	595.17	C340C105M1U5CA
	100	1.5µF	.200 (5.08)	.400 (10.16)	.460 (11.68)	.150 (3.81)	399-2190-ND	3.82	28.18	201.25	724.50	C340C155M1U5CA



Electrical Specifications:

- **Operating Temperature Range:** -40°C to +85°C (-40°C to +100°C for ECQ-UG/UL)
- **Capacitance Tolerance:** ±20% (M)
- **Dissipation Factor:** Less than 1.0% (at 20°C 1 kHz)

ECQ-UN Series: Rated Voltage: 250VAC. **Standards: UL (UL 1414);** Across-The-Line Capacitor, Antenna Coupling and Line-By-Pass Capacitors. File No. E62674. **CSA (CSA C22.2);** No. 0-M1982, No. 1-M1981. Across-The-Line, antenna-isolation and line-by-pass capacitor. File No. LR35752. **VDE (VED0565-1);** class X2 File No. 4811.6-4670-1041. **SEV (SEV1055);** class X, Ref No. 89, 5 50251.05. **DEMKO (AFSNIT21);** class X2, Ref No. 70726EC. **SEMKO (SS4430414);** class X2 Reg No. 8602146. **NEMKO (NEMKO);** class X2 Ref No. E 25082 02. **EI (E384-14);** class X2, Reg No. 062521 01~14(0.001~0.012µF), Reg No. 062522 01~15(0.015~0.22µF).

ECQ-EW Series: Rated Voltage: 250VAC. **Standards: UL (UL 1283);** Electromagnetic Interference Filters Class X File No. E79502. **SEMKO (SS 443 04 14);** class X2 Reg No. 8932009. **DEMKO (AFSNIT21);** class X2 Ref No. 94911EC. **VDE (VDE0565-1);** class X2 File No. 4811. 6-4670-1035.

ECQ-UF Series: Rated Voltage: 250VAC **Standards: SEMKO (SEMKO 101)** Reg. No. 61-88271/1-4. **DEMKO (AFSNIT 21);** class Y/X, Ref No. 61254EC. **VDE (VDE 0565-1)** class Y/X2, File No. 4811-6-1-4670-1032. **BSI (BS415);** certified No. 6026. **UL (UL1414)** Across-The-Line Capacitor & Antenna-Coupling and Line-by-pass. File No. E62674. **CSA (CSA C22.2)** No. 0-M1982, No.1-M1981, Across-The-Line, Antenna-Isolation and Line-by-Pass Capacitor, File No. LR35752.

ECQ-UV Series: Rated Voltage: 250VAC **Standards (UL1414);** Across-The-Line Capacitors, Antenna-Coupling and Lin Pass Capacitors. File No. E62674. **(UL1283);** Electromagnetic ference Filters, File No. E79502. **CSA (CSA C22.2);** Across-The- Antenna-Isolation and Line-by-Pass Capacitor, No. 0-M1982, N M1981. **SEMKO (SS 443 04 14);** class X2/Y Reg No. 8804 **DEMKO (AFSNIT21);** class X2/Y Ref No. 89275EC. **NEMKO (NE 132);** class X2 Ref No. 37892, class Y Ref No. 37894. **EI (IEC 384** class X2/Y Reg No. 110918-01-02. **VDE (VDE 0565-1);** class X2/ No. 4811.6-4670-1070. **SEV (SEV 1055);** class X ref No. 00318,01.

ECQ-UG — Class X2 Series: Rated Voltage: 250/275 **Standards: UL (UL1414);** Across-The-Line Capacitors, Ante Coupling and Line-by-Pass Capacitors. **CSA (Standard C22.2 N 94);** Across-The-Line Capacitors. Antenna-Isolation and Line-by- Capacitors. **SEMKO, DEMKO, NEMKO, FIMCO, VDE, SEV;** IEC 14, 1993, EN132400, Class X2.

ECQ-UG — Class X1 Series: Rated Voltage: 250/300 **Standards: UL (UL1414);** Across-The-Line Capacitors, Ante Coupling and Line-by-Pass Capacitors. **CSA (Standard C22.2 N 94);** Across-The-Line Capacitors. Antenna-Isolation and Line-by- Capacitors. **FIMCO and VDE;** IEC384-14, 1993, A1 - 1995, EN132 Class X1.

ECQ-UL Series: Rated Voltage: 250/275VAC **Standards (UL1414);** Across-The-Line Capacitors. Antenna-Coupling and Lin Pass Capacitors. **CSA (Standard C22.2 No. I-94);** Across-The- Capacitors., Antenna-Isolation and Line-by-Pass Capacitors. V IEC384-14, 1993, EN132400, Class X2.

Voltage (VAC)	Cap. (µF)	L	T	H	F	dø	Digi-Key Part No.	1	10	100	Panasonic Part No.
							ECQ-UN				
250	0.0047	17.0	6.5	13.5	13.5	0.6	P4600-ND†	.93	.80	.67	ECQ-U2A472MN
	0.01	17.0	7.0	14.0	13.5	0.6	P4601-ND†	.93	.80	.67	ECQ-U2A103MN
	0.047	25.5	7.0	14.0	21.5	0.6	P4602-ND†	1.18	1.01	.84	ECQ-U2A473MN
	0.1	30.5	7.5	17.01	26.5	0.8	P4603-ND†	1.44	1.24	1.03	ECQ-U2A104MN
							ECQ-EW				
250	0.047	17.0	7.5	13.0	13.5	0.6	P4604-ND†	.79	.69	.57	ECQ-E2A473MW
	0.1	24.0	8.0	13.5	20.5	0.8	P4605-ND†	.95	.81	.68	ECQ-E2A104MW
	0.22	24.0	10.5	17.5	20.5	0.8	P4606-ND†	1.34	1.15	.96	ECQ-E2A224MW
	0.47	29.0	13.0	20.5	25.5	0.8	P4607-ND†	1.79	1.54	1.28	ECQ-E2A474MW
							ECQ-UF				
250	0.0047	20.0	7.0	14.5	16.5	0.6	P4608-ND†	.90	.78	.65	ECQ-U2A472MF
	0.01	23.0	7.5	15.0	19.5	0.6	P4609-ND†	.95	.81	.68	ECQ-U2A103MF
							ECQ-UV				
250	0.001	17.5	4.0	10.5	15.0	0.6	P4617-ND	.76	.66	.55	ECQ-U2A102MV
	0.0012	17.5	4.0	10.5	15.0	0.6	P4618-ND	.76	.66	.55	ECQ-U2A122MV
	0.0015	17.5	4.0	10.5	15.0	0.6	P4619-ND	.76	.66	.55	ECQ-U2A152MV
	0.0018	17.5	4.0	10.5	15.0	0.6	P4620-ND	.76	.66	.55	ECQ-U2A182MV
	0.0022	17.5	4.0	10.5	15.0	0.6	P4621-ND	.76	.66	.55	ECQ-U2A222MV
	0.0027	17.5	4.0	10.5	15.0	0.6	P4622-ND	.76	.66	.55	ECQ-U2A272MV
	0.0033	17.5	4.0	10.5	15.0	0.6	P4623-ND	.76	.66	.55	ECQ-U2A332MV
	0.0039	17.5	4.0	10.5	15.0	0.6	P4624-ND	.76	.66	.55	ECQ-U2A392MV
	0.0047	17.5	4.0	10.5	15.0	0.6	P4625-ND	.76	.66	.55	ECQ-U2A472MV
	0.0056	17.5	4.0	10.5	15.0	0.6	P4626-ND	.76	.66	.55	ECQ-U2A562MV
	0.0068	17.5	4.0	10.5	15.0	0.6	P4627-ND	.76	.66	.55	ECQ-U2A682MV
	0.0082	17.5	4.0	10.5	15.0	0.6	P4628-ND	.76	.66	.55	ECQ-U2A822MV
	0.01	17.5	4.0	10.5	15.0	0.6	P4629-ND	.76	.66	.55	ECQ-U2A103MV
	0.012	17.5	4.0	10.5	15.0	0.6	P4630-ND	.76	.66	.55	ECQ-U2A123MV
	0.015	17.5	4.0	10.5	15.0	0.6	P4631-ND	.76	.66	.55	ECQ-U2A153MV
	0.018	17.5	4.5	10.5	15.0	0.6	P4632-ND	.76	.66	.55	ECQ-U2A183MV
	0.022	17.5	4.5	10.5	15.0	0.6	P4633-ND	.76	.66	.55	ECQ-U2A223MV
	0.027	17.5	4.5	13.0	15.0	0.6	P4634-ND	.76	.66	.55	ECQ-U2A273MV
	0.033	17.5	4.5	13.0	15.0	0.6	P4635-ND	.76	.66	.55	ECQ-U2A333MV
	0.039	17.5	5.5	12.5	15.0	0.6	P4636-ND	.76	.66	.55	ECQ-U2A393MV
	0.047	17.5	5.5	12.5	15.0	0.6	P4637-ND	.90	.77	.65	ECQ-U2A473MV
	0.056	17.5	7.0	14.0	15.0	0.6	P4638-ND	.78	.67	.56	ECQ-U2A563MV
	0.068	17.5	7.0	14.0	15.0	0.6	P4639-ND	.78	.67	.56	ECQ-U2A683MV
	0.082	17.5	8.0	15.0	15.0	0.6	P4640-ND	.78	.67	.56	ECQ-U2A823MV
	0.1	17.5	8.0	15.0	15.0	0.8	P4610-ND	.78	.67	.56	ECQ-U2A104MV
	0.12	25.5	6.5	16.5	22.5	0.6	P4641-ND	1.13	.97	.81	ECQ-U2A124MV
	0.15	25.5	6.5	16.5	22.5	0.8	P4611-ND	1.18	1.02	.85	ECQ-U2A154MV
	0.18	25.5	8.5	17.0	22.5	0.6	P4642-ND	1.18	1.02	.85	ECQ-U2A184MV
	0.22	25.5	8.5	17.0	22.5	0.8	P4612-ND	1.28	1.10	.92	ECQ-U2A224MV
	0.27	30.5	10.0	18.0	27.5	0.6	P4643-ND	1.79	1.54	1.28	ECQ-U2A274MV
	0.33	30.5	10.0	18.0	27.5	0.8	P4613-ND	1.79	1.54	1.29	ECQ-U2A334MV
	0.39	30.5	12.0	20.0	27.5	0.6	P4644-ND	1.79	1.54	1.29	ECQ-U2A394MV
	0.47	30.5	12.0	20.0	27.5	0.8	P4614-ND	2.00	1.72	1.43	ECQ-U2A474MV
	0.56	30.5	13.5	23.5	27.5	0.6	P4645-ND	2.07	1.77	1.48	ECQ-U2A564MV
	0.68	30.5	13.5	23.5	27.5	0.8	P4615-ND	2.36	2.03	1.69	ECQ-U2A684MV
	0.82	30.5	16.5	26.5	27.5	0.6	P4646-ND	2.66	2.28	1.90	ECQ-U2A824MV
	1.0	30.5	16.5	26.5	27.5	0.8	P4616-ND	2.75	2.36	1.97	ECQ-U2A105MV
							ECQ-UG — Class X2				
250/275	0.033	15.0	6.0	13.0	12.5	0.60	P10520-ND	.94	.81	.64	ECQ-U2A333MG
	0.047	15.0	6.0	13.0	12.5	0.60	P10521-ND	.97	.84	.66	ECQ-U2A473MG
	0.068	15.0	8.0	15.0	12.5	0.60	P10522-ND	1.07	.92	.72	ECQ-U2A683MG
	0.1	15.0	8.0	16.5	12.5	0.60	P10523-ND	1.07	.93	.73	ECQ-U2A104MG
	0.1	17.5	6.0	15.0	15.0	0.80	P10524-ND	.91	.78	.61	ECQ-U2A104BC1
250/275	0.15	17.5	8.0	16.5	15.0	0.80	P10525-ND	1.34	1.15	.90	ECQ-U2A154M
	0.22	17.5	9.0	17.5	15.0	0.80	P10526-ND	1.39	1.19	.94	ECQ-U2A224M
	0.33	25.5	9.0	18.5	22.5	0.80	P10527-ND	2.30	1.97	1.55	ECQ-U2A334M
	0.47	25.5	10.5	20.0	22.5	0.80	P10528-ND	2.35	2.01	1.58	ECQ-U2A474M
	0.68	25.5	12.5	22.0	22.5	0.80	P10529-ND	3.19	2.74	2.15	ECQ-U2A684M
	1.0	25.5	15.5	24.5	22.5	0.80	P10530-ND	3.55	3.05	2.39	ECQ-U2A105M
							ECQ-UG — Class X1				
250/300	0.01	15.0	5.0	11.5	12.5	0.60	P11110-ND	.37	.32	.25	ECQ-U3A103M
	0.015	15.0	5.0	11.5	12.5	0.60	P11111-ND	.37	.32	.25	ECQ-U3A153M
	0.022	15.0	5.0	11.5	12.5	0.60	P11112-ND	.37	.32	.25	ECQ-U3A223M
	0.033	15.0	6.0	13.0	12.5	0.60	P11113-ND	.37	.32	.25	ECQ-U3A333M
	0.047	15.0	6.0	13.0	12.5	0.60	P11114-ND	.37	.32	.25	ECQ-U3A473M
	0.068	15.0	8.0	15.0	12.5	0.60	P11115-ND	.37	.32	.25	ECQ-U3A683M
	0.1	15.0	8.0	15.0	12.5	0.60	P11116-ND	.37	.32	.25	ECQ-U3A104M
	0.15	17.5	8.0	16.5	15.0	0.80	P11117-ND	.51	.44	.35	ECQ-U3A154M
	0.22	17.5	9.0	17.5	15.0	0.80	P11118-ND	.61	.53	.42	ECQ-U3A224M
	0.33	25.5	9.0	18.5	22.5	0.80	P11119-ND	.92	.79	.62	ECQ-U3A334M
	0.47	25.5	10.5	20.0	22.5	0.80	P11120-ND	1.22	1.05	.83	ECQ-U3A474M
	0.68	25.5	12.5	22.0	22.5	0.80	P11121-ND	1.63	1.40	1.10	ECQ-U3A684M
	1.0	27.0	16.5	25.5	22.5	0.80	P11122-ND	2.03	1.75	1.37	ECQ-U3A105M
							ECQ-UL				
250/275	0.001	15.0	5.0	11.5	12.5	0.60	P10988-ND	.20	.18	.14	ECQ-U2A102M
	0.0012	15.0	5.0	11.5	12.5	0.60	P10989-ND	.20	.18	.14	ECQ-U2A122M
	0.0015	15.0	5.0	11.5	12.5	0.60	P10990-ND	.20	.18	.14	ECQ-U2A152M
	0.0018	15.0	5.0	11.5	12.5	0.60	P10991-ND	.20	.18	.14	ECQ-U2A182M
	0.0022	15.0	5.0	11.5	12.5	0.60	P10992-ND	.20	.18	.14	ECQ-U2A222M
	0.0027	15.0	5.0	11.5	12.5	0.60	P10993-ND	.20	.18	.14	ECQ-U2A272M
	0.0033	15.0	5.0	11.5	12.5	0.60	P10994-ND	.20	.18	.14	ECQ-U2A332M
	0.0039	15.0	5.0	11.5	12.5	0.60	P10995-ND	.20	.18	.14	ECQ-U2A392M
	0.0047	15.0	5.0	11.5	12.5	0.60	P10996-ND	.20	.18	.14	ECQ-U2A472M
	0.0056	15.0	5.0	11.5	12.5	0.60	P10997-ND	.20	.18	.14	ECQ-U2A562M
	0.0068	15.0	5.0	11.5	12.5	0.60	P10998-ND	.20	.18	.14	ECQ-U2A682M
	0.0082	15.0	5.0	11.5	12.5	0.60	P10999-ND	.20	.18	.14	ECQ-U2A822M
	0.01	15.0	5.0	11.5	12.5	0.60	P10724-ND	.20	.18	.14	ECQ-U2A103M
	0.012	15.0	5.0	11.5	12.5	0.60	P11000-ND	.20	.18	.14	ECQ-U2A123M
	0.015	15.0	5.0	11.5	12.5	0.60	P10725-ND	.20	.18	.14	ECQ-U2A153M
	0.018	15.0	5.0	13.0	12.5	0.60	P11001-ND	.20	.18	.14	ECQ-U2A183M
	0.022	15.0	5.0	11.5	12.5	0.60	P10726-ND	.20	.18	.14	ECQ-U2A223M
	0.027	15.0	5.0	11.5	12.5	0.60	P11002-ND	.20	.18	.14	ECQ-U2A273M
	0.033	15.0	6.0	13.0	12.5	0.60	P10727-ND	.20	.18	.14	ECQ-U2A333M
	0.039	15.0	6.0	13.0	12.5	0.60	P11003-ND	.20	.18	.14	ECQ-U2A393M
	0.047	15.0	6.0	13.0	12.5	0.60	P10728-ND	.20	.18	.14	ECQ-U2A473M
	0.056	17.5	4.5	11.5	15.0	0.60	P11004-ND	.20	.18	.14	ECQ-U2A563M
	0.068	17.5	4.5	11.5	15.0	0.60	P10729-ND	.20	.18	.14	ECQ-U2A683M
	0.082	17.5	5.5	12.0	15.0	0.60	P11005-ND	.20	.18	.14	ECQ-U2A823M
	0.1	17.5	5.5	12.0	15.0	0.60	P10730-ND	.20	.18	.14	ECQ-U2A104M
	0.12	17.5	6.5	14.5	15.0	0.60	P11006-ND	.21	.19	.15	ECQ-U2A124M
	0.15	17.5	6.5	14.5	15.0	0.60	P10731-ND	.23	.20	.16	ECQ-U2A154M
	0.18	17.5	8.0	16.0	15.0	0.60	P11007-ND	.26	.22	.18	ECQ-U2A184M
	0.22	17.5	8.0	16.0	15.0	0.60	P10732-ND	.28	.24	.19	ECQ-U2A224M
	0.27	17.5	9.5	17.5	15.0	0.80	P11008-ND	.33	.28	.22	ECQ-U2A274M
	0.33	17.5	9.5	17.5	15.0	0.80	P10733-ND	.37	.32	.25	ECQ-U2A334M
	0.39	25.5	8.5	17.5	22.5	0.80	P11009-ND	.42	.36	.29	ECQ-U2A394M
	0.47	25.5	8.5	17.5	22.5	0.80	P10734-ND	.47	.40	.32	ECQ-U2A474M
	0.56	25.5	10.5	19.5	22.5	0.80	P11010-ND	.58	.50	.40	ECQ-U2A564M
	0.68	25.5	10.5	19.5	22.5	0.80	P10735-ND	.69	.59	.47	ECQ-U2A684M
	0.82	25.5	12.5	22.0	22.5	0.80	P11011-ND	.72	.63	.49	ECQ-U2A824M
	1.0	25.5	12.0	22.0	22.5	0.80	P10736-ND	.76	.66	.52	ECQ-U2A105M
	1.2	30.5	16.5	26.5	27.5	0.80	P11012-ND	.92	.79	.62	ECQ-U2A125M
	1.5	30.5	16.5	26.5	27.5	0.80	P10737-ND	1.07	.92	.72	ECQ-U2A155M
	1.8	30.5	19.0	29.5	27.5	0.80	P11013-ND	1.17	1.01	.79	ECQ-U2A185M
	2.2	30.5	19.0	29.5	27.5	0.80	P10738-ND	1.27	1.10	.86	ECQ-U2A225M

† P4650-KIT-ND *Digi-Key® X-Y Series Capacitors Kit* 10 each of all values denoted: (100 pcs.) Notebook style box included: ..... $59.

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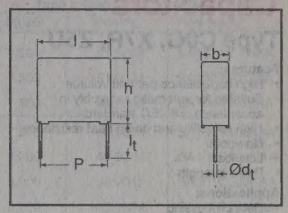
Interference Suppression Film Capacitors MKP 338 X1 and MKP 338 X2

tures: • Consists of a low-inductive wound cell of metallized polypropylene film, potted in a flame-rdant case **X1 Applications:** • For X1 electromagnetic interference suppression • Specially designed to et the requirements of the "IEC 60384-14 2nd edition and EN 132400", requiring a 4kV peak pulse voltage UL1414 and CSA-C22.2 No. 1 specifications **X2 Applications:** • For X2 electromagnetic interference pression • Specially designed to meet the requirements of the "IEC 60384-14 2nd edition and EN 132400", requiring for X2 a 2.5kV peak pulse voltage test and both UL1414 and CSA-C22.2 No. 1 specifications **X1 Specifications: Rated (AC) Voltage, 50 to 60Hz:** 440V **Rated (DC) Voltage:** 1000V **Rated Temperature:** 105°C **C-Tol:** ±20% **Safety Class:** X1; across the line **X2 Specifications: Rated (AC) Voltage, 50 to 60Hz:** 275V **Rated (DC) Voltage:** 630V **Rated Temperature:** 105°C **C-Tol:** ±20% **Safety Class:** X2 across the line

Safety Approvals (X1)	Voltage	Value	File Numbers
UL1414	250V (AC)	10nF to 1µF	E112471
UL1283 and CSA 22.2.8	440V (AC)	10nF to 1µF	Pending
EN132400	440V (AC)	10nF to 1µF	ENEC/B04/2001

Safety Approvals (X2)	Voltage	Value	File Numbers
UL1414	250V (AC)	1nF to 1µF	E112471
UL1283	305V (AC)	1nF to 3.3µF	E109565
CSA-C22.2 No. 1	250V (AC)	1nF to 1µF	1087424 (LR94054-15)
CSA-C22.2 No. 8	275V (AC)	1nF to 3.3µF	1078568
CCEE	275V (AC)	1nF to 3.3µF	CH0038043-99
EN132400	275V (AC)	1nF to 3.3µF	ENEC/B05/2001



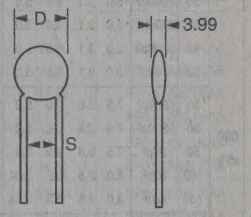
lt-e	Cap. (µF)	Dimensions (mm) b	h	l	P	t	ød	Digi-Key Part No.	Price Each 1	10	100	BC Components Part No.
MKP 338 X1 Series (±20% Tolerance)												
	.01	5.0	11.0	17.5	15.0	3.5	.60	BC1574-ND	.66	.57	.38	2222 338 10103
	.01	5.0	11.0	17.5	15.0	25.0	.60	BC1587-ND	.66	.57	.38	2222 338 14103
	.015	5.0	11.0	17.5	15.0	3.5	.60	BC1577-ND	.67	.58	.39	2222 338 10153
	.015	5.0	11.0	17.5	15.0	25.0	.60	BC1590-ND	.67	.58	.39	2222 338 14153
	.022	5.0	11.0	17.5	15.0	3.5	.60	BC1579-ND	.68	.58	.39	2222 338 10223
	.022	5.0	11.0	17.5	15.0	25.0	.60	BC1592-ND	.68	.58	.39	2222 338 14223
	.033	6.0	12.0	17.5	15.0	3.5	.60	BC1581-ND	.58	.50	.34	2222 338 10333
	.033	6.0	12.0	17.5	15.0	25.0	.60	BC1594-ND	.58	.50	.34	2222 338 14333
	.047	7.0	13.5	17.5	15.0	3.5	.80	BC1583-ND	.59	.51	.34	2222 338 10473
	.047	7.0	13.5	17.5	15.0	25.0	.80	BC1596-ND	.59	.51	.34	2222 338 14473
	.068	8.5	15.0	17.5	15.0	3.5	.80	BC1585-ND	.61	.53	.35	2222 338 10683
0	.068	8.5	15.0	17.5	15.0	25.0	.80	BC1598-ND	.61	.53	.35	2222 338 14683
C)	.10	10.0	16.5	17.5	15.0	3.5	.80	BC1575-ND	.66	.57	.38	2222 338 10104
	.10	10.0	16.5	17.5	15.0	25.0	.80	BC1588-ND	.66	.57	.38	2222 338 14104
	.15	8.5	18.0	26.0	22.5	3.5	.80	BC1578-ND	.78	.67	.45	2222 338 10154
	.15	8.5	18.0	26.0	22.5	25.0	.80	BC1591-ND	.78	.67	.45	2222 338 14154
	.22	10.0	19.5	26.0	22.5	3.5	.80	BC1580-ND	.93	.80	.54	2222 338 10224
	.22	10.0	19.5	26.0	22.5	25.0	.80	BC1593-ND	.93	.80	.54	2222 338 14224
	.33	13.0	23.0	31.0	27.5	3.5	.80	BC1582-ND	1.05	.91	.61	2222 338 10334
	.33	13.0	23.0	31.0	27.5	25.0	.80	BC1595-ND	1.05	.91	.61	2222 338 14334
	.47	15.0	25.0	31.0	27.5	3.5	.80	BC1584-ND	.66	.57	.38	2222 338 10474
	.47	15.0	25.0	31.0	27.5	25.0	.80	BC1597-ND	.66	.57	.38	2222 338 14474
	.68	18.0	28.0	31.0	27.5	3.5	.80	BC1586-ND	2.22	1.91	1.27	2222 338 10684
	1.0	21.0	31.0	31.0	27.5	3.5	.80	BC1576-ND	2.78	2.39	1.60	2222 338 10105
	1.0	21.0	31.0	31.0	27.5	25.0	.80	BC1589-ND	2.78	2.39	1.60	2222 338 14105

Volt-age	Cap. (µF)	Dimensions (mm) b	h	l	P	t	ød	Digi-Key Part No.	Price Each 1	10	100	BC Components Part No.
MKP 338 X2 Series (±20% Tolerance)												
	.001	4.0	9.0	10.0	7.5	3.5	.50	BC1599-ND	.30	.26	.18	2222 338 20102
	.0015	4.0	9.0	10.0	7.5	3.5	.50	BC1603-ND	.30	.26	.18	2222 338 20152
	.0022	4.0	9.0	10.0	7.5	3.5	.50	BC1607-ND	.33	.28	.19	2222 338 20222
	.0033	4.0	9.0	10.0	7.5	3.5	.50	BC1611-ND	.35	.30	.20	2222 338 20332
	.0047	4.0	9.0	10.0	7.5	3.5	.50	BC1615-ND	.36	.32	.21	2222 338 20472
	.0068	4.0	9.0	10.0	7.5	3.5	.50	BC1618-ND	.39	.34	.23	2222 338 20682
	.01	4.0	9.0	10.0	7.5	3.5	.50	BC1600-ND	.40	.35	.24	2222 338 20103
	.015	4.0	9.0	10.0	7.5	3.5	.50	BC1604-ND	.41	.36	.24	2222 338 20153
	.022	4.0	9.0	10.0	7.5	3.5	.50	BC1608-ND	.42	.36	.24	2222 338 20223
	.033	5.0	10.5	10.0	7.5	3.5	.50	BC1612-ND	.36	.31	.21	2222 338 20333
275 (AC)	.047	6.0	11.5	10.0	7.5	3.5	.50	BC1616-ND	.36	.32	.21	2222 338 20473
	.068	6.0	12.0	12.5	10.0	3.5	.60	BC1619-ND	.37	.33	.22	2222 338 20683
	.10	6.0	12.0	12.5	10.0	3.5	.60	BC1601-ND	.40	.35	.23	2222 338 20104
	.15	7.0	13.5	17.5	15.0	3.5	.80	BC1605-ND	.42	.37	.25	2222 338 20154
	.22	8.5	15.0	17.5	15.0	3.5	.80	BC1609-ND	.54	.47	.31	2222 338 20224
	.33	10.0	16.5	17.5	15.0	3.5	.80	BC1613-ND	.61	.53	.35	2222 338 20334
	.47	8.5	18.0	26.0	22.5	3.5	.80	BC1617-ND	.96	.83	.56	2222 338 20474
	.68	10.0	19.5	26.0	22.5	3.5	.80	BC1620-ND	1.29	1.11	.74	2222 338 20684
	1.0	12.0	22.0	26.0	22.5	3.5	.80	BC1602-ND	1.62	1.39	.93	2222 338 20105
	1.5	15.0	25.0	31.0	27.5	3.5	.80	BC1606-ND	2.14	1.84	1.23	2222 338 20155
	2.2	18.0	28.0	31.0	27.5	3.5	.80	BC1610-ND	2.60	2.23	1.49	2222 338 20225
	3.3	21.0	31.0	31.0	27.5	3.5	.80	BC1614-ND	3.83	3.29	2.20	2222 338 20335

E

eramic Disc Capacitors

EIA Temperature Coefficient Code	C0G	Y5V	Y5P
Capacitance Temperature Coefficient	30PPM/°C	+22%, -82%	±10%
Operating Temperature Range	-25 to 85°C	-30 to 85°C	-30 to 85°C
Tolerance on Capacitance	±5%	+80/-20%	±10%
Q Factor	C ≥ 30pF Q ≥ 1000 C < 30pF: Q ≥ 400 +20°C	—	—
Dissipation Factor	—	4.0% max.	2.5% max.
Insulation Resistance	10000MΩ	10000MΩ min.	10000MΩ min.



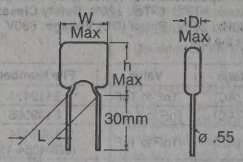
lerance	Dims. (mm) D	S	Cap. Value	Digi-Key Part No.	Pricing 10	100	500	1,000	BC Components Part No.
Type C0G, 100V									
±.5	5.00	6.35	10pF	1326PH-ND	1.37	10.73	39.00	57.00	D100D20C0GH63L6
5%	5.00	6.35	15pF	1328PH-ND	.88	6.88	25.00	37.00	D150J20C0GH63L6
5%	5.00	6.35	18pF	1329PH-ND	.60	4.68	17.00	25.00	D180J20C0GH63L6
5%	5.00	6.35	22pF	1330PH-ND	1.37	10.73	39.00	57.00	D220J20C0GH63L6
5%	5.00	6.35	27pF	1331PH-ND	1.37	10.73	39.00	57.00	D270J20C0GH63L6
5%	5.00	6.35	33pF	1332PH-ND	1.37	10.73	39.00	57.00	D330J20C0GH63L6
5%	6.50	6.35	39pF	1333PH-ND	.60	4.68	17.00	25.00	D390J25C0GH63L6
5%	6.50	6.35	56pF	1335PH-ND	.84	6.60	24.00	35.00	D560J25C0GH63L6
5%	6.50	6.35	68pF	1336PH-ND	1.72	13.48	49.00	72.00	D680J25C0GH63L6
5%	7.37	6.35	100pF	1338PH-ND	1.82	14.30	52.00	77.00	D101J29C0GH63L6
5%	7.37	6.35	120pF	1339PH-ND	.67	5.23	19.00	28.00	D121J33C0GH63L6
5%	10.01	6.35	150pF	1340PH-ND	1.75	13.75	50.00	74.00	D151J33C0GH63L6
5%	10.01	6.35	220pF	1342PH-ND	2.07	16.23	59.00	87.00	D221J39C0GH63L6
Type C0G, 500V									
5%	5.00	6.35	15pF	1356PH-ND	1.37	10.73	39.00	57.00	D150J20C0GL63L6
5%	6.50	6.35	22pF	1358PH-ND	1.37	10.73	39.00	57.00	D220J25C0GL63L6
Type Y5P, 100V									
10%	5.00	6.35	100pF	1371PH-ND	.67	5.23	19.00	28.00	D101K20Y5PH63L6
10%	5.00	6.35	220pF	1375PH-ND	1.37	10.73	39.00	57.00	D221K20Y5PH63L6

Tolerance	Dims. (mm) D	S	Cap. Value	Digi-Key Part No.	Pricing 10	100	500	1,000	BC Components Part No.
10%	5.00	6.35	330pF	1377PH-ND	1.37	10.73	39.00	57.00	D331K20Y5PH63L6
10%	5.00	6.35	1000pF	1383PH-ND	1.37	10.73	39.00	57.00	D102K20Y5PH63L6
10%	6.50	6.35	2200pF	1387PH-ND	1.72	13.48	49.00	72.00	D222K25Y5PH63L6
10%	8.83	6.35	2700pF	1388PH-ND	.84	6.60	24.00	35.00	D272K33Y5PL63L6
10%	7.37	6.35	3300pF	1389PH-ND	1.82	14.30	52.00	77.00	D332K29Y5PH63L6
10%	8.83	6.35	4700pF	1391PH-ND	1.10	8.61	31.30	46.00	D472K33Y5PH63L6
Type Y5V, 100V									
+80/-20	5.00	6.35	1500pF	1395PH-ND	.77	6.05	22.00	32.00	D152Z20Y5VH63L6
Type Y5P, 500V									
10%	5.00	6.35	100pF	1401PH-ND	1.37	10.73	39.00	57.00	D101K20Y5PL63L6
10%	5.00	6.35	150pF	1402PH-ND	1.37	10.73	39.00	57.00	D151K20Y5PL63L6
10%	5.00	6.35	220pF	1404PH-ND	1.37	10.73	39.00	57.00	D221K20Y5PL63L6
10%	5.00	6.35	270pF	1405PH-ND	1.37	10.73	39.00	57.00	D271K20Y5PL63L6
10%	5.00	6.35	330pF	1406PH-ND	1.37	10.73	39.00	57.00	D331K20Y5PL63L6
10%	5.00	6.35	470pF	1408PH-ND	1.37	10.73	39.00	57.00	D471K20Y5PL63L6
10%	6.50	6.35	1000pF	1412PH-ND	1.61	12.65	46.00	68.00	D102K25Y5PL63L6
10%	9.91	9.52	2200pF	1415PH-ND	1.19	9.35	34.00	50.00	D222K33Y5PL63L0
10%	11.99	9.52	3300pF	1417PH-ND	1.72	13.48	49.00	72.00	D332K39Y5PL63L0
10%	17.53	9.52	0.01µF	1424PH-ND	3.05	23.93	87.00	128.00	D103K69Y5PLABEC

EPCOS

Monolithic Ceramic Capacitors

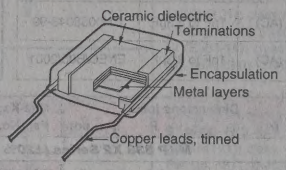
Type C0G, X7R, Z5U



Features:
- High capacitance per unit volume
- Suitable for automatic assembly in accordance with IEC standard
- High reliability and damp heat resistance
- Non-polar
- Low-loss
- Pulse strength

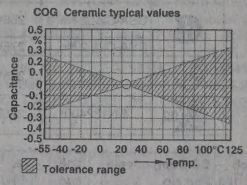
Applications:
- Data processing
- Communications engineering
- Measuring and control equipment
- Photo industry
- Entertainment industry
- Medical engineering
- Automotive electronic systems

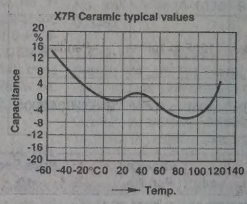
Temperature Range:
- C0G/X7R: -55 to 125°C
- Z5U: -25 to 85°C

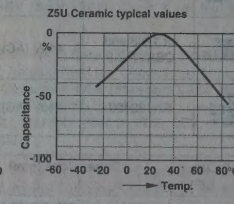


Marking: Rated capacitance, tolerance, manufacturer's logo, ceramic material, voltage

Capacitance Change vs. Temperature







E

Type	VDC	Cap.	Dim. (mm) W*	D*	H*	L	Digi-Key Part No.	Pricing 1	10	100	500	1,000	EPCOS Part No.
C0G ±5%	50	100pF	5.0	2.5	5.5	2.5	P4925-ND	.38	2.56	18.03	62.27	98.33	B37979N5101J000
	50	120pF	5.0	2.5	5.5	2.5	P4926-ND	.38	2.56	18.03	62.27	98.33	B37979N5121J000
	50	150pF	5.0	2.5	5.5	2.5	P4927-ND	.38	2.56	18.03	62.27	98.33	B37979N5151J000
	50	180pF	5.0	2.5	5.5	2.5	P4928-ND	.38	2.56	18.03	62.27	98.33	B37979N5181J000
	50	220pF	5.0	2.5	5.5	2.5	P4929-ND	.38	2.56	18.03	62.27	98.33	B37979N5221J000
	50	270pF	5.0	2.5	5.5	2.5	P4930-ND	.38	2.56	18.03	62.27	98.33	B37979N5271J000
	50	330pF	5.0	2.5	5.5	2.5	P4931-ND	.38	2.56	18.03	62.27	98.33	B37979N5331J000
	50	390pF	5.0	2.5	5.5	2.5	P4932-ND	.44	3.00	21.19	73.20	115.58	B37979N5391J000
	50	470pF	5.0	2.5	5.5	2.5	P4933-ND	.44	3.00	21.19	73.20	115.58	B37979N5471J000
	50	560pF	5.0	2.5	5.5	2.5	P4934-ND	.44	3.00	21.19	73.20	115.58	B37979N5561J000
	50	680pF	5.0	3.1	6.5	5.0	P4935-ND	.46	3.38	24.15	86.94	135.24	B37979G5681J000
	50	820pF	5.0	3.1	6.5	5.0	P4936-ND	.46	3.38	24.15	86.94	135.24	B37979G5821J000
	50	1000pF	5.0	3.1	6.5	5.0	P4937-ND	.46	3.38	24.15	86.94	135.24	B37979G5102J000
	50	1200pF	5.0	3.1	6.5	5.0	P4938-ND	.55	4.07	29.04	104.54	162.61	B37979G5122J000
	50	1500pF	5.0	3.1	6.5	5.0	P4939-ND	.55	4.07	29.04	104.54	162.61	B37979G5152J000
	50	1800pF	5.0	3.1	6.5	5.0	P4940-ND	.68	4.99	35.65	128.34	199.64	B37979G5182J000
	50	2200pF	5.0	3.1	6.5	5.0	P4941-ND	.68	4.99	35.65	128.34	199.64	B37979G5222J000
	50	2700pF	5.0	3.1	6.5	5.0	P4942-ND	.82	6.07	44.59	161.29	256.16	B37986G5272J000
	50	3300pF	5.0	3.1	6.5	5.0	P4943-ND	.82	6.07	44.59	161.29	256.16	B37986G5332J000
	50	4700pF	5.0	3.1	6.5	5.0	P4944-ND	1.00	7.43	54.59	197.46	313.61	B37986G5472J000
	50	5600pF	7.5	3.8	9.0	5.0	P4945-ND	1.63	12.21	91.60	325.68	541.44	B37986G5562J000
	50	6800pF	7.5	3.8	9.0	5.0	P4946-ND	1.63	12.21	91.60	325.68	541.44	B37986G5682J000
	50	.01µF	7.5	3.8	9.0	5.0	P4948-ND	1.92	14.42	108.16	384.56	639.33	B37986G5103J000
	100	10pF	5.0	2.5	5.5	2.54	P4837-ND	.38	2.56	18.03	62.27	98.33	B37979N1100J000
	100	12pF	5.0	2.5	5.5	2.54	P4838-ND	.38	2.56	18.03	62.27	98.33	B37979N1120J000
	100	15pF	5.0	2.5	5.5	2.54	P4839-ND	.38	2.56	18.03	62.27	98.33	B37979N1150J000
	100	18pF	5.0	2.5	5.5	2.54	P4840-ND	.38	2.56	18.03	62.27	98.33	B37979N1180J000
	100	22pF	5.0	2.5	5.5	2.54	P4841-ND	.38	2.56	18.03	62.27	98.33	B37979N1220J000
	100	27pF	5.0	2.5	5.5	2.54	P4842-ND	.38	2.56	18.03	62.27	98.33	B37979N1270J000
	100	33pF	5.0	2.5	5.5	2.54	P4843-ND	.38	2.56	18.03	62.27	98.33	B37979N1330J000
	100	47pF	5.0	2.5	5.5	2.54	P4845-ND	.38	2.56	18.03	62.27	98.33	B37979N1470J000
	100	56pF	5.0	2.5	5.5	2.54	P4846-ND	.38	2.56	18.03	62.27	98.33	B37979N1560J000
	100	68pF	5.0	2.5	5.5	2.54	P4847-ND	.38	2.56	18.03	62.27	98.33	B37979N1680J000
	100	82pF	5.0	2.5	5.5	2.54	P4848-ND	.38	2.56	18.03	62.27	98.33	B37979N1820J000
	100	100pF	5.0	2.5	5.5	2.54	P4849-ND	.38	2.56	18.03	62.27	98.33	B37979N1101J000
	100	120pF	5.0	2.5	5.5	2.54	P4850-ND	.38	2.56	18.03	62.27	98.33	B37979N1121J000
	100	150pF	5.0	2.5	5.5	2.54	P4851-ND	.38	2.56	18.03	62.27	98.33	B37979N1151J000
	100	180pF	5.0	2.5	5.5	2.54	P4852-ND	.38	2.56	18.03	62.27	98.33	B37979N1181J000
	100	220pF	5.0	3.1	6.5	5.08	P4853-ND	.50	3.41	24.04	83.03	131.10	B37979G1221J000
	100	270pF	5.0	3.1	6.5	5.08	P4854-ND	.50	3.41	24.04	83.03	131.10	B37979G1271J000
	100	330pF	5.0	3.1	6.5	5.08	P4855-ND	.50	3.41	24.04	83.03	131.10	B37979G1331J000
	100	390pF	5.0	3.1	6.5	5.08	P4856-ND	.50	3.41	24.04	83.03	131.10	B37979N1391J000
	100	470pF	5.0	3.1	6.5	5.08	P4857-ND	.50	3.41	24.04	83.03	131.10	B37979G1471J000
	100	560pF	5.0	3.1	6.5	5.08	P4858-ND	.49	3.62	25.88	93.15	144.90	B37979N1561J000
	100	680pF	5.0	3.1	6.5	5.08	P4859-ND	.49	3.62	25.88	93.15	144.90	B37979G1681J000

Type	VDC	Cap.	Dim. (mm) W*	D*	H*	L	Digi-Key Part No.	Pricing 1	10	100	500	1,000	EPCOS Part No.
C0G ±5%	100	820pF	5.0	3.1	6.5	5.08	P4860-ND	.57	4.23	30.19	108.68	169.05	B37979G1821
	100	1000pF	5.0	3.1	6.5	5.08	P4861-ND	.57	4.23	30.19	108.68	169.05	B37979G1102
	100	1200pF	5.0	3.1	6.5	5.08	P4862-ND	.69	5.07	36.23	130.41	202.86	B37986G1122
	100	1500pF	5.0	3.1	6.5	5.08	P4863-ND	.69	5.07	36.23	130.41	202.86	B37986G1152
	100	2200pF	7.5	3.8	9.0	5.08	P4865-ND	1.25	9.31	68.37	247.31	392.78	B37986G1222
	50	3300pF	5.0	2.5	5.5	2.5	P4949-ND	.35	2.38	16.76	57.90	91.43	B37981M5332
	50	4700pF	5.0	2.5	5.5	2.5	P4950-ND	.35	2.38	16.76	57.90	91.43	B37981M5472
	50	6800pF	5.0	2.5	5.5	2.5	P4951-ND	.35	2.38	16.76	57.90	91.43	B37981M5682
	50	.010µF	5.0	2.5	5.5	2.5	P4922-ND	.35	2.38	16.76	57.90	91.43	B37981M5109
	50	.015µF	5.0	2.5	5.5	2.5	P4952-ND	.35	2.38	16.76	57.90	91.43	B37981M5153
	50	.022µF	5.0	2.5	5.5	2.5	P4953-ND	.40	2.69	18.98	65.55	103.50	B37981M5223
	50	.033µF	5.0	2.5	5.5	5.0	P4954-ND	.49	3.32	23.40	80.85	127.65	B37981F5333
	50	.047µF	5.0	2.5	5.5	5.0	P4955-ND	.49	3.32	23.40	80.85	127.65	B37981F5473
	50	.068µF	5.0	2.5	5.5	5.0	P4956-ND	.48	3.54	25.30	91.08	141.68	B37987F5683
	50	.10µF	5.0	2.5	5.5	5.0	P4923-ND	.55	4.07	29.04	104.54	162.61	B37987F5104
	50	.15µF	5.0	2.5	5.5	5.0	P4957-ND	.65	4.78	34.16	122.98	191.30	B37987F5154
	50	.22µF	7.5	3.8	9.0	5.0	P4958-ND	1.18	8.80	64.59	233.62	371.05	B37987F5224
	50	.33µF	7.5	3.8	9.0	5.0	P4959-ND	1.45	10.82	79.45	287.39	456.44	B37984M5334
	50	.47µF	7.5	3.8	9.0	5.0	P4960-ND	1.74	13.08	98.07	348.68	579.68	B37984M5474
	50	.68µF	7.5	3.8	9.0	5.0	P4961-ND	2.42	18.11	135.84	483.00	802.99	B37984M5684
X7R ±10%	50	1.0µF	10.0	5.0	11.5	5.0	P4962-ND	3.12	23.59	178.02	667.58	1157.13	B37984M5105
	100	680pF	5.0	2.5	5.5	2.54	P4897-ND	.35	2.38	16.76	57.90	91.43	B37981M1681
	100	1000pF	5.0	2.5	5.5	2.54	P4898-ND	.35	2.38	16.76	57.90	91.43	B37981M1102
	100	1500pF	5.0	2.5	5.5	2.54	P4899-ND	.35	2.38	16.76	57.90	91.43	B37981M1152
	100	2200pF	5.0	2.5	5.5	2.54	P4900-ND	.35	2.38	16.76	57.90	91.43	B37981M1222
	100	3300pF	5.0	2.5	5.5	2.54	P4901-ND	.35	2.38	16.76	57.90	91.43	B37981M1332
	100	4700pF	5.0	2.5	5.5	2.54	P4902-ND	.35	2.38	16.76	57.90	91.43	B37981M1472
	100	6800pF	5.0	3.1	6.5	2.54	P4903-ND	.44	3.00	21.19	73.20	115.58	B37981M1682
	100	.010µF	5.0	3.1	6.5	2.54	P4904-ND	.44	3.00	21.19	73.20	115.58	B37981M1103
	100	.015µF	5.0	3.1	6.5	2.54	P4905-ND	.44	3.00	21.19	73.20	115.58	B37981M1153
	100	.022µF	5.0	3.1	6.5	2.54	P4906-ND	.48	3.23	22.77	78.66	124.20	B37987M1223
	100	.033µF	5.0	3.1	6.5	2.54	P4907-ND	.54	3.68	25.93	89.59	141.45	B37987M1333
	100	.047µF	5.0	3.1	6.5	2.54	P4908-ND	.51	3.78	27.03	97.29	151.34	B37987M1473
	100	.068µF	5.0	3.1	6.5	2.54	P4909-ND	.60	4.39	31.34	112.82	175.49	B37987M1683
	100	.10µF	5.0	3.1	6.5	2.54	P4910-ND	.74	5.47	39.10	140.76	218.96	B37987M1104
	100	.15µF	7.5	3.8	9.0	5.08	P4911-ND	1.24	9.20	67.56	244.38	388.13	B37987F1154K
Z5U ±20%	50	.010µF	5.0	2.5	5.5	2.5	P4963-ND	.32	2.15	15.18	52.44	82.80	B37982N5103
	50	.022µF	5.0	2.5	5.5	2.5	P4964-ND	.32	2.15	15.18	52.44	82.80	B37982N5223
	50	.047µF	5.0	2.5	5.5	2.5	P4965-ND	.37	2.51	17.71	61.18	96.60	B37982N5473
	50	.10µF	5.0	3.1	6.5	2.5	P4924-ND	.43	2.92	20.56	71.01	112.13	B37982N5104
	50	.22µF	5.0	3.1	6.5	2.5	P4966-ND	.55	4.07	29.04	104.54	162.61	B37988N5224
	50	.47µF	7.5	3.8	9.0	5.0	P4967-ND	.99	7.36	54.05	195.50	310.50	B37988G5474
	50	1.0µF	7.5	3.8	9.0	5.0	P4968-ND	1.44	10.71	78.64	284.45	451.78	B37988G5105
	50	2.2µF	10.0	5.0	11.5	5.0	P4969-ND	3.24	24.56	185.38	695.18	1204.97	B37985N5225

* Max Dimensions. Actual Dimensions may be smaller.

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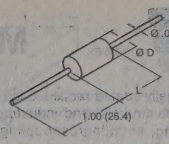
AVX SpinGuard® Axial Leaded Ceramic Capacitors

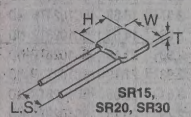


e SpinGuard series is the industry leading conformally coated axial leaded multilayer capacitor.
plications: • Decoupling • Filtering

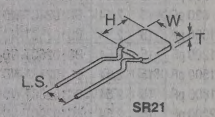
elec-tric	VDC	Cap.	Cap. Tol. (%)	Dimensions - Inch (mm) L Max.	D Max.	Digi-Key Part No.	Cut Tape Pricing 1	10	100	1000	Digi-Key Part No.	Tape & Reel Size	Pricing	AVX Part No.
	200	22pF	±5	.170 (4.32)	.100 (2.54)	478-2426-1-ND	.16	1.53	11.05	76.50	478-2426-2-ND	7,500	51.00/M	SA102A220JAA
C0G	200	100pF	±5	.170 (4.32)	.100 (2.54)	478-2425-1-ND	.16	1.53	11.05	76.50	478-2425-2-ND	7,500	51.00/M	SA102A101JAA
	50	1000pF	±5	.170 (4.32)	.100 (2.54)	478-2431-1-ND	.19	1.80	13.00	90.00	478-2431-2-ND	7,500	60.00/M	SA105A102JAA
	100	1000pF	±10	.170 (4.32)	.100 (2.54)	478-2427-1-ND	.13	1.26	9.10	63.00	478-2427-2-ND	7,500	42.00/M	SA101C102KAA
	100	10000pF	±10	.170 (4.32)	.100 (2.54)	478-2428-1-ND	.13	1.26	9.10	63.00	478-2428-2-ND	7,500	42.00/M	SA101C103KAA
	100	56000pF	±10	.290 (7.37)	.150 (3.81)	478-2429-1-ND	.31	2.93	21.13	146.25	478-2429-2-ND	5,000	98.00/M	SA301C563KAA
	100	.10µF	±10	.290 (7.37)	.150 (3.81)	478-2430-1-ND	.32	3.06	22.10	153.00	478-2430-2-ND	5,000	102.00/M	SA301C104KAA
X7R	50	10000pF	±10	.170 (4.32)	.100 (2.54)	478-2432-1-ND	.13	1.22	8.78	60.75	478-2432-2-ND	7,500	41.00/M	SA105C103KAA
	50	47000pF	±10	.170 (4.32)	.100 (2.54)	478-2433-1-ND	.18	1.67	12.03	83.25	478-2433-2-ND	7,500	56.00/M	SA105C473KAA
	50	.10µF	±10	.170 (4.32)	.100 (2.54)	478-2434-1-ND	.14	1.35	9.75	67.50	478-2434-2-ND	7,500	45.00/M	SA105C104KAA
	50	.10µF	±10	.170 (4.32)	.120 (3.05)	478-2435-1-ND	.16	1.53	11.05	76.50	478-2435-2-ND	5,000	51.00/M	SA115C104KAA
	50	.10µF	±10	.260 (6.60)	.100 (2.54)	478-2436-1-ND	.21	2.03	14.63	101.25	478-2436-2-ND	5,000	68.00/M	SA205C104KAA
	50	.22µF	±10	.290 (7.37)	.150 (3.81)	478-2437-1-ND	.53	5.04	36.40	252.00	478-2437-2-ND	5,000	168.00/M	SA305C224KAA
	100	.10µF	±20	.170 (4.32)	.120 (3.05)	478-2438-1-ND	.13	1.26	9.10	63.00	478-2438-2-ND	5,000	42.00/M	SA111E104MAA
	50	10000pF	±20	.170 (4.32)	.100 (2.54)	478-2439-1-ND	.13	1.26	9.10	63.00	478-2439-2-ND	7,500	42.00/M	SA105E103MAA
Z5U	50	.10µF	±20	.170 (4.32)	.100 (2.54)	478-2440-1-ND	.13	1.26	9.10	63.00	478-2440-2-ND	7,500	42.00/M	SA105E104MAA
	50	.10µF	+80/-20	.170 (4.32)	.100 (2.54)	478-2441-1-ND	.13	1.26	9.10	63.00	478-2441-2-ND	7,500	42.00/M	SA105E104ZAA
	50	.47µF	±20	.290 (7.37)	.150 (3.81)	478-2442-1-ND	.43	4.05	29.25	202.50	478-2442-2-ND	5,000	135.00/M	SA305E474MAA
	50	1.0µF	±20	.290 (7.37)	.150 (3.81)	478-2443-1-ND	.61	5.81	41.93	290.25	478-2443-2-ND	5,000	194.00/M	SA305E105MAA

E

kyCap® Radial Leaded Ceramic Capacitors



SR15, SR20, SR30



SR21

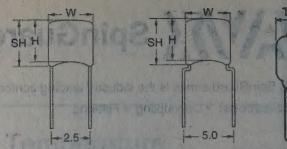
e SkyCap series is the industry leading conformally coated radial leaded multilayer capacitor.
plications: • Decoupling • Filtering • Automotive

elec-tric	VDC	Cap.	Cap. Tol. (%)	Dimensions - Inch (mm) W Max.	H Max.	T Max.	L.S.	Digi-Key Part No.	Pricing 1	10	100	500	1000	AVX Part No.
	200	10pF	±10	.150 (3.81)	.150 (3.81)	.100 (2.54)	.100 (2.54)	478-2444-ND	.20	1.51	10.75	38.70	60.20	SR152A100KAA
	200	15pF	±10	.150 (3.81)	.150 (3.81)	.100 (2.54)	.100 (2.54)	478-2445-ND	.20	1.51	10.75	38.70	60.20	SR152A150KAA
	200	22pF	±10	.150 (3.81)	.150 (3.81)	.100 (2.54)	.100 (2.54)	478-2446-ND	.20	1.51	10.75	38.70	60.20	SR152A220KAA
	200	33pF	±10	.150 (3.81)	.150 (3.81)	.100 (2.54)	.100 (2.54)	478-2447-ND	.20	1.51	10.75	38.70	60.20	SR152A330KAA
	200	47pF	±10	.150 (3.81)	.150 (3.81)	.100 (2.54)	.100 (2.54)	478-2448-ND	.20	1.51	10.75	38.70	60.20	SR152A470KAA
	200	68pF	±10	.150 (3.81)	.150 (3.81)	.100 (2.54)	.100 (2.54)	478-2449-ND	.20	1.51	10.75	38.70	60.20	SR152A680KAA
C0G	100	100pF	±10	.150 (3.81)	.150 (3.81)	.100 (2.54)	.100 (2.54)	478-2450-ND	.17	1.26	9.00	32.40	50.40	SR151A101KAA
	100	150pF	±10	.150 (3.81)	.150 (3.81)	.100 (2.54)	.100 (2.54)	478-2451-ND	.17	1.26	9.00	32.40	50.40	SR151A151KAA
	100	220pF	±10	.150 (3.81)	.150 (3.81)	.100 (2.54)	.100 (2.54)	478-2452-ND	.19	1.37	9.75	35.10	54.60	SR151A221KAA
	100	330pF	±10	.150 (3.81)	.150 (3.81)	.100 (2.54)	.100 (2.54)	478-2453-ND	.19	1.44	10.25	36.90	57.40	SR151A331KAA
	100	470pF	±10	.150 (3.81)	.150 (3.81)	.100 (2.54)	.100 (2.54)	478-2454-ND	.20	1.51	10.75	38.70	60.20	SR151A471KAA
	100	680pF	±10	.150 (3.81)	.150 (3.81)	.100 (2.54)	.100 (2.54)	478-2455-ND	.22	1.61	11.50	41.40	64.40	SR151A681KAA
	100	1000pF	±10	.150 (3.81)	.150 (3.81)	.100 (2.54)	.100 (2.54)	478-2456-ND	.19	1.44	10.25	36.90	57.40	SR151C102KAA
	100	1500pF	±10	.150 (3.81)	.150 (3.81)	.100 (2.54)	.100 (2.54)	478-2457-ND	.19	1.44	10.25	36.90	57.40	SR151C152KAA
	100	2200pF	±10	.150 (3.81)	.150 (3.81)	.100 (2.54)	.100 (2.54)	478-2458-ND	.24	1.79	12.75	45.90	71.40	SR151C222KAA
	100	3300pF	±10	.150 (3.81)	.150 (3.81)	.100 (2.54)	.100 (2.54)	478-2459-ND	.24	1.79	12.75	45.90	71.40	SR151C332KAA
	100	4700pF	±10	.150 (3.81)	.150 (3.81)	.100 (2.54)	.100 (2.54)	478-2460-ND	.27	1.96	14.00	50.40	78.40	SR151C472KAA
	100	6800pF	±10	.150 (3.81)	.150 (3.81)	.100 (2.54)	.100 (2.54)	478-2461-ND	.27	1.96	14.00	50.40	78.40	SR151C682KAA
	100	10000pF	±10	.150 (3.81)	.150 (3.81)	.100 (2.54)	.100 (2.54)	478-2462-ND	.24	1.75	12.50	45.00	70.00	SR151C103KAA
	100	10000pF	±10	.200 (5.08)	.200 (5.08)	.125 (3.175)	.200 (5.08)	478-2463-ND	.21	1.54	11.00	39.60	61.60	SR211C103KAA
X7R	100	15000pF	±10	.200 (5.08)	.200 (5.08)	.125 (3.175)	.200 (5.08)	478-2464-ND	.21	1.58	11.25	40.50	63.00	SR211C153KAA
	100	22000pF	±10	.200 (5.08)	.200 (5.08)	.125 (3.175)	.200 (5.08)	478-2465-ND	.24	1.79	12.75	45.90	71.40	SR211C223KAA
	100	33000pF	±10	.200 (5.08)	.200 (5.08)	.125 (3.175)	.200 (5.08)	478-2466-ND	.24	1.79	12.75	45.90	71.40	SR211C333KAA
	100	47000pF	±10	.200 (5.08)	.200 (5.08)	.125 (3.175)	.200 (5.08)	478-2467-ND	.24	1.79	12.75	45.90	71.40	SR211C473KAA
	100	68000pF	±10	.200 (5.08)	.200 (5.08)	.125 (3.175)	.200 (5.08)	478-2468-ND	.24	1.79	12.75	45.90	71.40	SR211C683KAA
	100	.10µF	±10	.200 (5.08)	.200 (5.08)	.125 (3.175)	.200 (5.08)	478-2469-ND	.24	1.79	12.75	45.90	71.40	SR211C104KAA
	50	68000pF	±10	.200 (5.08)	.200 (5.08)	.125 (3.175)	.100 (2.54)	478-2470-ND	.21	1.58	11.25	40.50	63.00	SR205C683KAA
	50	.10µF	±10	.200 (5.08)	.200 (5.08)	.125 (3.175)	.100 (2.54)	478-2471-ND	.24	1.79	12.75	45.90	71.40	SR205C104KAA
	50	.10µF	±10	.200 (5.08)	.200 (5.08)	.125 (3.175)	.200 (5.08)	478-2472-ND	.24	1.79	12.75	45.90	71.40	SR215C104KAA
	50	.47µF	±10	.300 (7.62)	.300 (7.62)	.150 (3.81)	.200 (5.08)	478-2473-ND	1.01	7.46	53.25	191.70	298.20	SR305C474KAA
	100	.10µF	+80/-20	.200 (5.08)	.200 (5.08)	.125 (3.175)	.200 (5.08)	478-2474-ND	.27	1.96	14.00	50.40	78.40	SR211E104ZAA
	100	.22µF	+80/-20	.200 (5.08)	.200 (5.08)	.125 (3.175)	.200 (5.08)	478-2475-ND	.35	2.56	18.25	65.70	102.20	SR211E224ZAA
Z5U	50	.10µF	±20	.200 (5.08)	.200 (5.08)	.125 (3.175)	.100 (2.54)	478-2476-ND	.16	1.19	8.50	30.60	47.60	SR205E104MAA
	50	.10µF	±20	.200 (5.08)	.200 (5.08)	.125 (3.175)	.200 (5.08)	478-2477-ND	.15	1.12	8.00	28.80	44.80	SR215E104MAA
	50	.33µF	±20	.200 (5.08)	.200 (5.08)	.125 (3.175)	.200 (5.08)	478-2478-ND	.37	2.70	19.25	69.30	107.80	SR215E334MAA
	50	1.0µF	±20	.300 (7.62)	.300 (7.62)	.150 (3.81)	.200 (5.08)	478-2479-ND	.59	4.34	31.00	111.60	173.60	SR305E105MAA

Mono-Kap™ Leaded Ceramic Multilayer Capacitors

These conformally coated radial leaded capacitors are designed for commercial and industrial applications, such as: timing, coupling/decoupling, signal comparison and biasing.

Size Code	Dimensions (mm) W Max.	H Max.	T Max.	SH Max. 2.5mm LS	5.08mm LS
15	4.0	4.0	2.5	5.58	6.5
20	5.0	5.0	3.2	6.58	7.5



2.5mm Lead Spacing 5.08mm Lead Spacing

Cap. Value	Size Code	LS	Digi-Key Part No.	Cut Tape Pricing 10	100	Digi-Key Part No.	Tape & Reel Pricing	BC Components Part No.
Type COG 50V ±5%								
10 pF	15	2.54	BC1001CT-ND	1.13	8.13	BC1001TR-ND	150.00/4000	K100J15C0GF5TL2
12 pF	15	2.54	BC1002CT-ND	1.67	12.03	BC1002TR-ND	222.00/4000	K120J15C0GF5TL2
15 pF	15	2.54	BC1003CT-ND	1.67	12.03	BC1003TR-ND	222.00/4000	K150J15C0GF5TL2
18 pF	15	2.54	BC1004CT-ND	1.67	12.03	BC1004TR-ND	222.00/4000	K180J15C0GF5TL2
22 pF	15	2.54	BC1005CT-ND	1.26	9.10	BC1005TR-ND	168.00/4000	K220J15C0GF5TL2
27 pF	15	2.54	BC1006CT-ND	1.67	12.03	BC1006TR-ND	222.00/4000	K270J15C0GF5TL2
33 pF	15	2.54	BC1007CT-ND	1.49	10.73	BC1007TR-ND	198.00/4000	K330J15C0GF5TL2
39 pF	15	2.54	BC1008CT-ND	1.67	12.03	BC1008TR-ND	222.00/4000	K390J15C0GF5TL2
47 pF	15	2.54	BC1009CT-ND	1.49	10.73	BC1009TR-ND	198.00/4000	K470J15C0GF5TL2
56 pF	15	2.54	BC1010CT-ND	1.67	12.03	BC1010TR-ND	222.00/4000	K560J15C0GF5TL2
68 pF	15	2.54	BC1011CT-ND	1.67	12.03	BC1011TR-ND	222.00/4000	K680J15C0GF5TL2
82 pF	15	2.54	BC1012CT-ND	1.67	12.03	BC1012TR-ND	222.00/4000	K820J15C0GF5TL2
100 pF	15	2.54	BC1013CT-ND	1.13	8.13	BC1013TR-ND	150.00/4000	K101J15C0GF5TL2
120 pF	15	2.54	BC1014CT-ND	1.71	12.35	BC1014TR-ND	228.00/4000	K121J15C0GF5TL2
150 pF	15	2.54	BC1015CT-ND	1.71	12.35	BC1015TR-ND	228.00/4000	K151J15C0GF5TL2
180 pF	15	2.54	BC1016CT-ND	1.80	13.00	BC1016TR-ND	240.00/4000	K181J15C0GF5TL2
220 pF	15	2.54	BC1017CT-ND	1.58	11.38	BC1017TR-ND	210.00/4000	K221J15C0GF5TL2
270 pF	15	2.54	BC1018CT-ND	1.58	11.38	BC1018TR-ND	210.00/4000	K271J15C0GF5TL2
330 pF	15	2.54	BC1019CT-ND	1.58	11.38	BC1019TR-ND	210.00/4000	K331J15C0GF5TL2
390 pF	15	2.54	BC1020CT-ND	1.94	13.98	BC1020TR-ND	258.00/4000	K391J15C0GF5TL2
470 pF	15	2.54	BC1021CT-ND	1.58	11.38	BC1021TR-ND	210.00/4000	K471J15C0GF5TL2
560 pF	15	2.54	BC1022CT-ND	2.48	17.88	BC1022TR-ND	330.00/4000	K561J15C0GF5TL2
680 pF	15	2.54	BC1023CT-ND	2.52	18.20	BC1023TR-ND	336.00/4000	K681J15C0GF5TL2
820 pF	15	2.54	BC1024CT-ND	2.57	18.53	BC1024TR-ND	342.00/4000	K821J15C0GF5TL2
1000 pF	15	2.54	BC1025CT-ND	2.03	14.63	BC1025TR-ND	270.00/4000	K102J15C0GF5TL2
1200 pF	15	2.54	BC1026CT-ND	2.93	21.19	BC1026TR-ND	391.20/4000	K122J15C0GF5TL2
1500 pF	15	2.54	BC1027CT-ND	2.93	21.19	BC1027TR-ND	391.20/4000	K152J15C0GF5TL2
1800 pF	15	2.54	BC1028CT-ND	3.51	25.35	BC1028TR-ND	468.00/4000	K182J15C0GF5TL2
2200 pF	15	2.54	BC1029CT-ND	2.79	20.15	BC1029TR-ND	372.00/4000	K222J15C0GF5TL2
10 pF	15	5.08	BC1030CT-ND	1.13	8.13	BC1030TR-ND	150.00/4000	K100J15C0GF5TH5
12 pF	15	5.08	BC1031CT-ND	1.67	12.03	—	—	K120J15C0GF5TH5
15 pF	15	5.08	BC1032CT-ND	1.67	12.03	BC1032TR-ND	222.00/4000	K150J15C0GF5TH5
18 pF	15	5.08	BC1033CT-ND	1.67	12.03	BC1033TR-ND	222.00/4000	K180J15C0GF5TH5
22 pF	15	5.08	BC1034CT-ND	1.26	9.10	BC1034TR-ND	168.00/4000	K220J15C0GF5TH5
27 pF	15	5.08	BC1035CT-ND	1.67	12.03	BC1035TR-ND	222.00/4000	K270J15C0GF5TH5
33 pF	15	5.08	BC1036CT-ND	1.49	10.73	BC1036TR-ND	198.00/4000	K330J15C0GF5TH5
47 pF	15	5.08	BC1038CT-ND	1.49	10.73	BC1038TR-ND	198.00/4000	K470J15C0GF5TH5
56 pF	15	5.08	BC1039CT-ND	1.67	12.03	BC1039TR-ND	222.00/4000	K560J15C0GF5TH5
68 pF	15	5.08	BC1040CT-ND	1.67	12.03	BC1040TR-ND	222.00/4000	K680J15C0GF5TH5
82 pF	15	5.08	BC1041CT-ND	1.67	12.03	BC1041TR-ND	222.00/4000	K820J15C0GF5TH5
100 pF	15	5.08	BC1042CT-ND	1.13	8.13	BC1042TR-ND	150.00/4000	K101J15C0GF5TH5
150 pF	15	5.08	BC1043CT-ND	1.71	12.35	BC1043TR-ND	228.00/4000	K151J15C0GF5TH5
220 pF	15	5.08	BC1044CT-ND	1.58	11.38	BC1044TR-ND	210.00/4000	K221J15C0GF5TH5
330 pF	15	5.08	BC1045CT-ND	1.58	11.38	BC1045TR-ND	210.00/4000	K331J15C0GF5TH5
470 pF	15	5.08	BC1046CT-ND	1.58	11.38	BC1046TR-ND	210.00/4000	K471J15C0GF5TH5
1000 pF	15	5.08	BC1048CT-ND	2.03	14.63	BC1048TR-ND	270.00/4000	K102J15C0GF5TH5
1500 pF	15	5.08	BC1049CT-ND	2.93	21.19	—	—	K152J15C0GF5TH5
2200 pF	15	5.08	BC1050CT-ND	2.79	20.15	BC1050TR-ND	372.00/4000	K222J15C0GF5TH5
3300 pF	20	5.08	BC1051CT-ND	5.63	40.63	BC1051TR-ND	562.50/3000	K332J20C0GF5TH5
4700 pF	20	5.08	BC1052CT-ND	11.52	83.20	BC1052TR-ND	1152.00/3000	K472J20C0GF5TH5
Type COG 100V ±5%								
10 pF	15	2.54	BC1054CT-ND	1.13	8.13	BC1054TR-ND	150.00/4000	K100J15C0GH5TL2
22 pF	15	2.54	BC1055CT-ND	1.26	9.10	BC1055TR-ND	168.00/4000	K220J15C0GH5TL2
47 pF	15	2.54	BC1056CT-ND	1.49	10.73	—	—	K470J15C0GH5TL2
100 pF	15	2.54	BC1057CT-ND	1.13	8.13	BC1057TR-ND	150.00/4000	K101J15C0GH5TL2
220 pF	15	2.54	BC1058CT-ND	1.58	11.38	BC1058TR-ND	210.00/4000	K221J15C0GH5TL2
22 pF	15	5.08	BC1062CT-ND	1.26	9.10	—	—	K220J15C0GH5TH5
47 pF	15	5.08	BC1063CT-ND	1.49	10.73	BC1063TR-ND	198.00/4000	K470J15C0GH5TH5
100 pF	15	5.08	BC1064CT-ND	1.13	8.13	BC1064TR-ND	150.00/4000	K101J15C0GH5TH5
220 pF	15	5.08	BC1065CT-ND	1.58	11.38	BC1065TR-ND	210.00/4000	K221J15C0GH5TH5
470 pF	15	5.08	BC1066CT-ND	1.58	11.38	BC1066TR-ND	210.00/4000	K471J15C0GH5TH5
1000 pF	20	5.08	BC1067CT-ND	2.03	14.63	—	—	K102J20C0GH5TH5
Type X7R 50V ±10%								
220 pF	15	2.54	BC1068CT-ND	1.44	10.40	BC1068TR-ND	192.00/4000	K221K15X7RF5TL2
330 pF	15	2.54	BC1069CT-ND	1.44	10.40	—	—	K331K15X7RF5TL2
470 pF	15	2.54	BC1070CT-ND	1.44	10.40	—	—	K471K15X7RF5TL2
680 pF	15	2.54	BC1071CT-ND	1.44	10.40	BC1071TR-ND	192.00/4000	K681K15X7RF5TL2
1000 pF	15	2.54	BC1072CT-ND	1.35	9.75	BC1072TR-ND	180.00/4000	K102K15X7RF5TL2
2200 pF	15	2.54	BC1074CT-ND	1.35	9.75	BC1074TR-ND	180.00/4000	K222K15X7RF5TL2
3300 pF	15	2.54	BC1075CT-ND	1.35	9.75	BC1075TR-ND	180.00/4000	K332K15X7RF5TL2
4700 pF	15	2.54	BC1076CT-ND	1.35	9.75	BC1076TR-ND	180.00/4000	K472K15X7RF5TL2
6800 pF	15	2.54	BC1077CT-ND	1.35	9.75	BC1077TR-ND	180.00/4000	K682K15X7RF5TL2
.01 µF	15	2.54	BC1078CT-ND	1.40	10.08	BC1078TR-ND	186.00/4000	K103K15X7RF5TL2

Cap. Value	Size Code	LS	Digi-Key Part No.	Cut Tape Pricing 10	100	Digi-Key Part No.	Tape & Reel Pricing	BC Components Part No.
.015 µF	15	2.54	BC1079CT-ND	1.71	12.35	—	—	K153K15X7RF5TL
.022 µF	15	2.54	BC1080CT-ND	1.40	10.08	BC1080TR-ND	186.00/4000	K223K15X7RF5TL
.033 µF	15	2.54	BC1081CT-ND	2.39	17.23	BC1081TR-ND	318.00/4000	K333K15X7RF5TL
.047 µF	15	2.54	BC1082CT-ND	1.80	13.00	BC1082TR-ND	240.00/4000	K473K15X7RF5TL
.068 µF	15	2.54	BC1083CT-ND	2.88	20.80	BC1083TR-ND	384.00/4000	K683K15X7RF5TL
.1 µF	15	2.54	BC1084CT-ND	1.67	12.03	BC1084TR-ND	222.00/4000	K104K15X7RF5TL
220 pF	15	5.08	BC1085CT-ND	1.44	10.40	BC1085TR-ND	192.00/4000	K221K15X7RF5TH
330 pF	15	5.08	BC1086CT-ND	1.44	10.40	BC1086TR-ND	192.00/4000	K331K15X7RF5TH
470 pF	15	5.08	BC1087CT-ND	1.44	10.40	BC1087TR-ND	192.00/4000	K471K15X7RF5TH
680 pF	15	5.08	BC1088CT-ND	1.44	10.40	—	—	K681K15X7RF5TH
1000 pF	15	5.08	BC1089CT-ND	1.35	9.75	BC1089TR-ND	180.00/4000	K102K15X7RF5TH
1500 pF	15	5.08	BC1090CT-ND	1.40	10.08	BC1090TR-ND	186.00/4000	K152K15X7RF5TH
2200 pF	15	5.08	BC1091CT-ND	1.35	9.75	BC1091TR-ND	180.00/4000	K222K15X7RF5TH
3300 pF	15	5.08	BC1092CT-ND	1.35	9.75	BC1092TR-ND	180.00/4000	K332K15X7RF5TH
4700 pF	15	5.08	BC1093CT-ND	1.35	9.75	BC1093TR-ND	180.00/4000	K472K15X7RF5TH
6800 pF	15	5.08	BC1094CT-ND	1.35	9.75	BC1094TR-ND	180.00/4000	K682K15X7RF5TH
.01 µF	15	5.08	BC1095CT-ND	.88	6.34	BC1095TR-ND	117.00/4000	K103K15X7RF5TH
.015 µF	15	5.08	BC1096CT-ND	1.71	12.35	BC1096TR-ND	228.00/4000	K153K15X7RF5TH
.022 µF	15	5.08	BC1097CT-ND	1.40	10.08	BC1097TR-ND	186.00/4000	K223K15X7RF5TH
.033 µF	15	5.08	BC1098CT-ND	2.39	17.23	BC1098TR-ND	318.00/4000	K333K15X7RF5TH
.047 µF	15	5.08	BC1099CT-ND	1.80	13.00	BC1099TR-ND	240.00/4000	K473K15X7RF5TH
.068 µF	20	5.08	BC1100CT-ND	2.88	20.80	—	—	K683K20X7RF5TH
.1 µF	15	5.08	BC1101CT-ND	1.67	12.03	BC1101TR-ND	222.00/4000	K104K15X7RF5TH
.15 µF	20	5.08	BC1102CT-ND	6.35	45.83	BC1102TR-ND	634.50/3000	K154K20X7RF5TH
.22 µF	20	5.08	BC1103CT-ND	3.80	27.43	BC1103TR-ND	379.80/3000	K224K20X7RF5TH
Type X7R 100V ±10%								
1000 pF	15	2.54	BC1108CT-ND	1.35	9.75	BC1108TR-ND	180.00/4000	K102K15X7RH5TL2
2200 pF	15	2.54	BC1109CT-ND	1.35	9.75	—	—	K222K15X7RH5TL2
4700 pF	15	2.54	BC1110CT-ND	1.35	9.75	BC1110TR-ND	180.00/4000	K472K15X7RH5TL2
.01 µF	15	2.54	BC1111CT-ND	1.58	11.38	BC1111TR-ND	210.00/4000	K103K15X7RH5TL2
.022 µF	20	2.54	BC1112CT-ND	1.40	10.08	BC1112TR-ND	186.00/4000	K223K20X7RH5TL2
.047 µF	20	2.54	BC1113CT-ND	1.80	13.00	—	—	K473K20X7RH5TL2
.1 µF	20	2.54	BC1114CT-ND	1.67	12.03	BC1114TR-ND	166.50/3000	K104K20X7RH5TL2
220 pF	15	5.08	BC1115CT-ND	1.53	11.05	BC1115TR-ND	204.00/4000	K221K15X7RH5TH5
470 pF	15	5.08	BC1116CT-ND	1.53	11.05	BC1116TR-ND	204.00/4000	K471K15X7RH5TH5
1000 pF	15	5.08	BC1117CT-ND	1.35	9.75	BC1117TR-ND	180.00/4000	K102K15X7RH5TH5
2200 pF	15	5.08	BC1118CT-ND	1.35	9.75	BC1118TR-ND	180.00/4000	K222K15X7RH5TH5
4700 pF	15	5.08	BC1119CT-ND	1.35	9.75	—	—	K472K15X7RH5TH5
.01 µF	15	5.08	BC1120CT-ND	1.23	8.91	BC1120TR-ND	164.40/4000	K103K15X7RH5TH5
.022 µF	15	5.08	BC1121CT-ND	1.40	10.08	—	—	K223K15X7RH5TH5
.047 µF	20	5.08	BC1122CT-ND	1.80	13.00	BC1122TR-ND	180.00/3000	K473K20X7RH5TH5
.1 µF	20	5.08	BC1123CT-ND	1.67	12.03	BC1123TR-ND	166.50/3000	K104K20X7RH5TH5
Type Z5U 50V ±20%								
.15 µF	15	2.54	BC1128CT-ND	1.80	13.00	—	—	K154M15Z5UF5TL
Type Z5U 100V ±20%								
.022 µF	20	2.54	BC1141CT-ND	1.46	10.53	—	—	K223M20Z5UH5TL
.047 µF	20	2.54	BC1142CT-ND	1.98	14.30	—	—	K473M20Z5UH5TL
Type Y5V 25V +80 -20%								
.01 µF	15	2.54	BC1146CT-ND	1.13	8.13	BC1146TR-ND	150.00/4000	K103Z15Y5VE5TL
.022 µF	15	2.54	BC1147CT-ND	1.31	9.43	BC1147TR-ND	174.00/4000	K223Z15Y5VE5TL
.1 µF	15	2.54	BC1148CT-ND	1.31	9.43	BC1148TR-ND	174.00/4000	K104Z15Y5VE5TL
.22 µF	15	2.54	BC1149CT-ND	2.16	15.60	BC1149TR-ND	288.00/4000	K224Z15Y5VE5TL
.47 µF	20	2.54	BC1150CT-ND	2.89	20.90	BC1150TR-ND	289.35/3000	K474Z20Y5VE5TL
1 µF	20	2.54	BC1151CT-ND	4.50	32.50	BC1151TR-ND	450.00/3000	K105Z20Y5VE5TL
.01 µF	15	5.08	BC1152CT-ND	1.13	8.13	BC1152TR-ND	150.00/4000	K103Z15Y5VE5TH
.022 µF	15	5.08	BC1153CT-ND	1.03	7.41	BC1153TR-ND	136.80/4000	K223Z15Y5VE5TH
.1 µF	15	5.08	BC1154CT-ND	1.31	9.43	BC1154TR-ND	174.00/4000	K104Z15Y5VE5TH
.22 µF	15	5.08	BC1155CT-ND	2.16	15.60	BC1155TR-ND	288.00/4000	K224Z15Y5VE5TH
.47 µF	20	5.08	BC1156CT-ND	2.89	20.90	BC1156TR-ND	289.35/3000	K474Z20Y5VE5TH
1 µF	20	5.08	BC1157CT-ND	4.50	32.50	BC1157TR-ND	450.00/3000	K105Z20Y5VE5TH
Type Y5V 50V +80 -20%								
.01 µF	15	2.54	BC1158CT-ND	1.13	8.13	BC1158TR-ND	150.00/4000	K103Z15Y5VF5TL
.022 µF	15	2.54	BC1159CT-ND	1.31	9.43	BC1159TR-ND	174.00/4000	K223Z15Y5VF5TL
.1 µF	15	2.54	BC1160CT-ND	1.31	9.43	BC1160TR-ND	174.00/4000	K104Z15Y5VF5TL
1 µF	20	2.54	BC1162CT-ND	4.50	32.50	BC1162TR-ND	450.00/3000	K105Z20Y5VF5TL
.01 µF	15	5.08	BC1163CT-ND	1.13	8.13	BC1163TR-ND	150.00/4000	K103Z15Y5VF5TH
.022 µF	15	5.08	BC1164CT-ND	1.31	9.43	—	—	K223Z15Y5VF5TH
.1 µF	15	5.08	BC1165CT-ND	1.31	9.43	BC1165TR-ND	174.00/4000	K104Z15Y5VF5TH
.47 µF	20	5.08	BC1167CT-ND	2.89	20.90	BC1167TR-ND	289.35/3000	K474Z20Y5VF5TH
1 µF	20	5.08	BC1168CT-ND	4.50	32.50	BC1168TR-ND	450.00/3000	K105Z20Y5VF5TH

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anasonic® Multilayer Ceramic Chip Capacitors

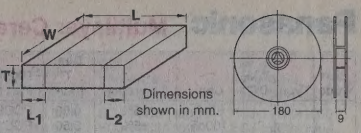
0201, 0402, 0508, 0603, 0612, 0805, 1206, 1210 and 1812

URES:
ll in size and wide capacitance range
erior humidity characteristic and long life due to the monolithic
tructure
llent solderability and resistance to soldering heat due to
inals with three layers of silver nickel and solder
self-inductance and excellent frequency characteristic

RECOMMENDED APPLICATIONS:

Class 1 (T.C. Type): Temperature compensations, tuned circuits and filter circuits, where low loss and high stability of capacitance and high insulation resistance are required.

Class 2 (HI-K type): Coupling and By-pass, where low loss and high stability of capacitance are not so important.

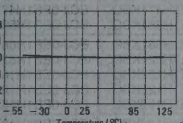


Size Code (EIA)	L◊	W◊	L1 / L2
0201	0.6±0.03	0.3±0.03	0.15±0.05
0402	1.00±0.05	0.50±0.05	0.20±0.10
0508	1.25±0.15	2.00±0.15	0.20±0.10
0603	1.60±0.10	0.80±0.10	0.30±0.20
0612	1.60±0.20	3.20±0.20	0.30±0.20
0805	2.00±0.10	1.25±0.10	0.50±0.25
1206	3.20±0.15	1.60±0.15	0.60±0.30
1210	3.20±0.30	2.50±0.20	0.60±0.30
1812	4.50±0.30	3.20±0.30	0.90±0.60

◊ See data sheet for dimensional tolerance.

Type - Class 1:
erating temperature range:
5°C ~ 125°C

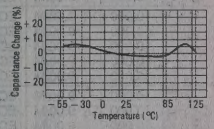
Temperature Coefficient



X7R Type - Class 2:
- Operating temperature range: -55°C ~ 125°C

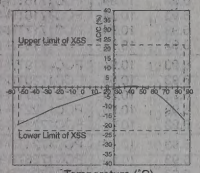
X5R Type - Class 2:
- Operating temperature range: -55°C ~ 85°C

Temperature Coefficient



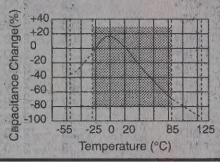
X5S Type - Class2:
- Operating temperature range: -55°C ~ 85°C

Temperature Coefficient



Y5V Type - Class 2:
- Operating temperature range: -30°C ~ 85°C
(F Type: -25°C ~ 85°C◊)

Temperature Coefficient



† NOTE: Panasonic is in the process of changing all MLCC part numbers to a standardized system. This is a part number change only and does not affect the electrical or mechanical specifications. As a result of this change, Digi-Key may ship parts labeled with either the old or new number. Parts that **do not** have a new Panasonic part number listed will be subject to availability beginning March 2001 and are not recommended for new design. Please contact Digi-Key for a direct replacement.

Type	WV DC	Cap.	Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing 10	100	500	1,000	Digi-Key Part No.	Tape & Reel Size	Pricing	Old † Panasonic Part No.	New † Panasonic Part No.
NP0	25	0.5pF	±.25pF	0.30	PCC2101CT-ND	.63	4.50	16.21	25.21	PCC2101TR-ND	15,000	23.00/M	ECJ-ZEC1E0R5C	ECJ-ZEC1E0R5C
		1.0pF	±.25pF	0.30	PCC2102CT-ND	.63	4.50	16.21	25.21	PCC2102TR-ND	15,000	23.00/M	ECJ-ZEC1E010C	ECJ-ZEC1E010C
		1.5pF	±.25pF	0.30	PCC2103CT-ND	.63	4.50	16.21	25.21	PCC2103TR-ND	15,000	23.00/M	ECJ-ZEC1E1R5C	ECJ-ZEC1E1R5C
		2.0pF	±.25pF	0.30	PCC2104CT-ND	.63	4.50	16.21	25.21	PCC2104TR-ND	15,000	23.00/M	ECJ-ZEC1E020C	ECJ-ZEC1E020C
		3.0pF	±.25pF	0.30	PCC2105CT-ND	.63	4.50	16.21	25.21	PCC2105TR-ND	15,000	23.00/M	ECJ-ZEC1E030C	ECJ-ZEC1E030C
		4.0pF	±.25pF	0.30	PCC2106CT-ND	.63	4.50	16.21	25.21	PCC2106TR-ND	15,000	23.00/M	ECJ-ZEC1E040C	ECJ-ZEC1E040C
		5.0pF	±.25pF	0.30	PCC2107CT-ND	.63	4.50	16.21	25.21	PCC2107TR-ND	15,000	23.00/M	ECJ-ZEC1E050C	ECJ-ZEC1E050C
		6.0pF	±.5pF	0.30	PCC2108CT-ND	.63	4.50	16.21	25.21	PCC2108TR-ND	15,000	23.00/M	ECJ-ZEC1E060D	ECJ-ZEC1E060D
		7.0pF	±.5pF	0.30	PCC2109CT-ND	.63	4.50	16.21	25.21	PCC2109TR-ND	15,000	23.00/M	ECJ-ZEC1E070D	ECJ-ZEC1E070D
		8.0pF	±.5pF	0.30	PCC2110CT-ND	.63	4.50	16.21	25.21	PCC2110TR-ND	15,000	23.00/M	ECJ-ZEC1E080D	ECJ-ZEC1E080D
		9.0pF	±.5pF	0.30	PCC2111CT-ND	.63	4.50	16.21	25.21	PCC2111TR-ND	15,000	23.00/M	ECJ-ZEC1E090D	ECJ-ZEC1E090D
		10pF	±.5pF	0.30	PCC2112CT-ND	.63	4.50	16.21	25.21	PCC2112TR-ND	15,000	23.00/M	ECJ-ZEC1E100D	ECJ-ZEC1E100D
		12pF	±5%	0.30	PCC2113CT-ND	.63	4.50	16.21	25.21	PCC2113TR-ND	15,000	23.00/M	ECJ-ZEC1E120J	ECJ-ZEC1E120J
		15pF	±5%	0.30	PCC2114CT-ND	.63	4.50	16.21	25.21	PCC2114TR-ND	15,000	23.00/M	ECJ-ZEC1E150J	ECJ-ZEC1E150J
		18pF	±5%	0.30	PCC2115CT-ND	.63	4.50	16.21	25.21	PCC2115TR-ND	15,000	23.00/M	ECJ-ZEC1E180J	ECJ-ZEC1E180J
		22pF	±5%	0.30	PCC2116CT-ND	.63	4.50	16.21	25.21	PCC2116TR-ND	15,000	23.00/M	ECJ-ZEC1E220J	ECJ-ZEC1E220J
		27pF	±5%	0.30	PCC2117CT-ND	.63	4.50	16.21	25.21	PCC2117TR-ND	15,000	23.00/M	ECJ-ZEC1E270J	ECJ-ZEC1E270J
		33pF	±5%	0.30	PCC2118CT-ND	.63	4.50	16.21	25.21	PCC2118TR-ND	15,000	23.00/M	ECJ-ZEC1E330J	ECJ-ZEC1E330J
	16	39pF	±5%	0.30	PCC2119CT-ND	.63	4.50	16.21	25.21	PCC2119TR-ND	15,000	23.00/M	ECJ-ZEC1C390J	ECJ-ZEC1C390J
		47pF	±5%	0.30	PCC2120CT-ND	.63	4.50	16.21	25.21	PCC2120TR-ND	15,000	23.00/M	ECJ-ZEC1C470J	ECJ-ZEC1C470J
		56pF	±5%	0.30	PCC2121CT-ND	.63	4.50	16.21	25.21	PCC2121TR-ND	15,000	23.00/M	ECJ-ZEC1C560J	ECJ-ZEC1C560J
		68pF	±5%	0.30	PCC2122CT-ND	.63	4.50	16.21	25.21	PCC2122TR-ND	15,000	23.00/M	ECJ-ZEC1C680J	ECJ-ZEC1C680J
		82pF	±5%	0.30	PCC2123CT-ND	.63	4.50	16.21	25.21	PCC2123TR-ND	15,000	23.00/M	ECJ-ZEC1C820J	ECJ-ZEC1C820J
		100pF	±5%	0.30	PCC2124CT-ND	.63	4.50	16.21	25.21	PCC2124TR-ND	15,000	23.00/M	ECJ-ZEC1C101J	ECJ-ZEC1C101J
X7R	50	150pF	±10%	0.30	PCC2388CT-ND ***NEW!***	.32	2.12	6.85	8.72	PCC2388TR-ND ***NEW!***	15,000	6.00/M	ECJ-ZEB1H151K	ECJ-ZEB1H151K
		220pF	±10%	0.30	PCC2389CT-ND ***NEW!***	.32	2.12	6.85	8.72	PCC2389TR-ND ***NEW!***	15,000	6.00/M	ECJ-ZEB1H221K	ECJ-ZEB1H221K
		330pF	±10%	0.30	PCC2390CT-ND ***NEW!***	.32	2.12	6.85	8.72	PCC2390TR-ND ***NEW!***	15,000	6.00/M	ECJ-ZEB1H331K	ECJ-ZEB1H331K
		470pF	±10%	0.30	PCC2391CT-ND ***NEW!***	.32	2.12	6.85	8.72	PCC2391TR-ND ***NEW!***	15,000	6.00/M	ECJ-ZEB1H471K	ECJ-ZEB1H471K
		680pF	±10%	0.30	PCC2392CT-ND ***NEW!***	.32	2.12	6.85	8.72	PCC2392TR-ND ***NEW!***	15,000	6.00/M	ECJ-ZEB1H681K	ECJ-ZEB1H681K
		1000pF	±10%	0.30	PCC2387CT-ND ***NEW!***	.32	2.12	6.85	8.72	PCC2387TR-ND ***NEW!***	15,000	6.00/M	ECJ-ZEB1H102K	ECJ-ZEB1H102K
	25	150pF	±10%	0.30	PCC2125CT-ND	.63	4.50	16.21	25.21	PCC2125TR-ND	15,000	23.00/M	ECJ-ZEB1E151K	ECJ-ZEB1E151K
		220pF	±10%	0.30	PCC2126CT-ND	.63	4.50	16.21	25.21	PCC2126TR-ND	15,000	23.00/M	ECJ-ZEB1E221K	ECJ-ZEB1E221K
		331pF	±10%	0.30	PCC2127CT-ND	.63	4.50	16.21	25.21	PCC2127TR-ND	15,000	23.00/M	ECJ-ZEB1E331K	ECJ-ZEB1E331K
		470pF	±10%	0.30	PCC2128CT-ND	.63	4.50	16.21	25.21	PCC2128TR-ND	15,000	23.00/M	ECJ-ZEB1E471K	ECJ-ZEB1E471K
		680pF	±10%	0.30	PCC2129CT-ND	.63	4.50	16.21	25.21	PCC2129TR-ND	15,000	23.00/M	ECJ-ZEB1E681K	ECJ-ZEB1E681K
		1000pF	±10%	0.30	PCC2130CT-ND	.63	4.50	16.21	25.21	PCC2130TR-ND	15,000	23.00/M	ECJ-ZEB1E102K	ECJ-ZEB1E102K
		1500pF	±10%	0.30	PCC2385CT-ND ***NEW!***	.32	2.12	6.85	8.72	PCC2385TR-ND ***NEW!***	15,000	6.00/M	ECJ-ZEB1E152K	ECJ-ZEB1E152K
		2200pF	±10%	0.30	PCC2386CT-ND ***NEW!***	.32	2.12	6.85	8.72	PCC2386TR-ND ***NEW!***	15,000	6.00/M	ECJ-ZEB1E222K	ECJ-ZEB1E222K
	16	1500pF	±10%	0.30	PCC2131CT-ND	.63	4.50	16.21	25.21	PCC2131TR-ND	15,000	23.00/M	ECJ-ZEB1C152K	ECJ-ZEB1C152K
		2200pF	±10%	0.30	PCC2132CT-ND	.63	4.50	16.21	25.21	PCC2132TR-ND	15,000	23.00/M	ECJ-ZEB1C222K	ECJ-ZEB1C222K
		3300pF	±10%	0.30	PCC2384CT-ND ***NEW!***	.32	2.12	6.85	8.72	PCC2384TR-ND ***NEW!***	15,000	6.00/M	ECJ-ZEB1C332K	ECJ-ZEB1C332K
	10	3300pF	±10%	0.30	PCC2133CT-ND	.63	4.50	16.21	25.21	PCC2133TR-ND	15,000	23.00/M	ECJ-ZEB1A332K	ECJ-ZEB1A332K
X5R	6.3	4700pF	±10%	0.30	PCC2134CT-ND	.63	4.50	16.21	25.21	PCC2134TR-ND	15,000	23.00/M	ECJ-ZEB0J472K	ECJ-ZEB0J472K
		6800pF	±10%	0.30	PCC2135CT-ND	.63	4.50	16.21	25.21	PCC2135TR-ND	15,000	23.00/M	ECJ-ZEB0J682K	ECJ-ZEB0J682K
		10000pF	±10%	0.30	PCC2136CT-ND	.63	4.50	16.21	25.21	PCC2136TR-ND	15,000	23.00/M	ECJ-ZEB0J103K	ECJ-ZEB0J103K
		0.1µF	±10%	0.30	PCC2366CT-ND	1.84	12.01	38.84	49.44	PCC2366TR-ND	15,000	40.00/M	ECJ-ZEB0J104K	ECJ-ZEB0J104K
		0.1µF	±20%	0.30	PCC2336CT-ND	1.21	8.15	27.62	42.08	PCC2336TR-ND	15,000	34.00/M	ECJ-ZEB0J104M	ECJ-ZEB0J104M
	10	4700pF	±10%	0.30	PCC2382CT-ND ***NEW!***	.32	2.12	6.85	8.72	PCC2382TR-ND ***NEW!***	15,000	6.00/M	ECJ-ZEB1A472K	ECJ-ZEB1A472K
		6800pF	±10%	0.03	PCC2383CT-ND ***NEW!***	.32	2.12	6.85	8.72	PCC2383TR-ND ***NEW!***	15,000	6.00/M	ECJ-ZEB1A682K	ECJ-ZEB1A682K
		.01µF	±10%	0.30	PCC2381CT-ND ***NEW!***	.32	2.12	6.85	8.72	PCC2381TR-ND ***NEW!***	15,000	6.00/M	ECJ-ZEB1A103K	ECJ-ZEB1A103K
NPO	50	0.5pF	±.25pF	0.50	PCC0R5CQCT-ND*	.28	2.00	6.93	10.94	PCC0R5CQTR-ND	10,000	9.00/M	ECU-E1H0R5CCQ	ECJ-0EC1H0R5C
		1.0pF	±.25pF	0.50	PCC010CQCT-ND*	.28	2.00	6.93	10.94	PCC010CQTR-ND	10,000	9.00/M	ECU-E1H010CCQ	ECJ-0EC1H010C
		1.5pF	±.25pF	0.50	PCC1R5CQCT-ND*	.28	2.00	6.93	10.94	PCC1R5CQTR-ND	10,000	9.00/M	ECU-E1H1R5CCQ	ECJ-0EC1H1R5C
		2.0pF	±.25pF	0.50	PCC020CQCT-ND*	.28	2.00	6.93	10.94	PCC020CQTR-ND	10,000	9.00/M	ECU-E1H020CCQ	ECJ-0EC1H020C
		3.0pF	±.25pF	0.50	PCC030CQCT-ND*	.28	2.00	6.93	10.94	PCC030CQTR-ND	10,000	9.00/M	ECU-E1H030CCQ	ECJ-0EC1H030C
		4.0pF	±.25pF	0.50	PCC040CQCT-ND*	.28	2.00	6.93	10.94	PCC040CQTR-ND	10,000	9.00/M	ECU-E1H040CCQ	ECJ-0EC1H040C
		5.0pF	±.25pF	0.50	PCC050CQCT-ND*	.28	2.00	6.93	10.94	PCC050CQTR-ND	10,000	9.00/M	ECU-E1H050CCQ	ECJ-0EC1H050C
		6.0pF	±.5pF	0.50	PCC060CQCT-ND*	.28	2.00	6.93	10.94	PCC060CQTR-ND	10,000	9.00/M	ECU-E1H060DCQ	ECJ-0EC1H060D
		7.0pF	±.5pF	0.50	PCC070CQCT-ND*	.28	2.00	6.93	10.94	PCC070CQTR-ND	10,000	9.00/M	ECU-E1H070DCQ	ECJ-0EC1H070D
		8.0pF	±.5pF	0.50	PCC080CQCT-ND*	.28	2.00	6.93	10.94	PCC080CQTR-ND	10,000	9.00/M	ECU-E1H080DCQ	ECJ-0EC1H080D
		9.0pF	±.5pF	0.50	PCC090CQCT-ND*	.28	2.00	6.93	10.94	PCC090CQTR-ND	10,000	9.00/M	ECU-E1H090DCQ	ECJ-0EC1H090D
		10pF	±.5pF	0.50	PCC100CQCT-ND*	.28	2.00	6.93	10.94	PCC100CQTR-ND	10,000	9.00/M	ECU-E1H100DCQ	ECJ-0EC1H100D
		11pF	±5%	0.50	PCC110CQCT-ND	.28	2.00	6.93	10.94	—	—	—	ECU-E1H110JCQ	(Not for new design)
		12pF	±5%	0.50	PCC120CQCT-ND*	.28	2.00	6.93	10.94	PCC120CQTR-ND	10,000	9.00/M	ECU-E1H120JCQ	ECJ-0EC1H120J
		15pF	±5%	0.50	PCC150CQCT-ND*	.28	2.00	6.93	10.94	PCC150CQTR-ND	10,000	9.00/M	ECU-E1H150JCQ	ECJ-0EC1H150J
		18pF	±5%	0.50	PCC180CQCT-ND*	.28	2.00	6.93	10.94	PCC180CQTR-ND	10,000	9.00/M	ECU-E1H180JCQ	ECJ-0EC1H180J
		22pF	±5%	0.50	PCC220CQCT-ND*	.28	2.00	6.93	10.94	PCC220CQTR-ND	10,000	9.00/M	ECU-E1H220JCQ	ECJ-0EC1H220J
		27pF	±5%	0.50	PCC270CQCT-ND*	.28	2.00	6.93	10.94	PCC270CQTR-ND	10,000	9.00/M	ECU-E1H270JCQ	ECJ-0EC1H270J
		33pF	±5%	0.50	PCC330CQCT-ND*	.28	2.00	6.93	10.94	PCC330CQTR-ND	10,000	9.00/M	ECU-E1H330JCQ	ECJ-0EC1H330J
		39pF	±5%	0.50	PCC390CQCT-ND*	.28	2.00	6.93	10.94	PCC390CQTR-ND	10,000	9.00/M	ECU-E1H390JCQ	ECJ-0EC1H390J
		47pF	±5%	0.50	PCC470CQCT-ND*	.28	2.00	6.93	10.94	PCC470CQTR-ND	10,000	9.00/M	ECU-E1H470JCQ	ECJ-0EC1H470J
		56pF	±5%	0.50	PCC560CQCT-ND*	.28	2.00	6.93	10.94	PCC560CQTR-ND	10,000	9.00/M	ECU-E1H560JCQ	ECJ-0EC1H560J
		68pF	±5%	0.50	PCC680CQCT-ND*	.28	2.00	6.93	10.94	PCC680CQTR-ND	10,000	9.00/M	ECU-E1H680JCQ	ECJ-0EC1H680J

uced DC Bias Voltage Characteristics

(Continued)

Size Code	Type	WV DC	Cap.	Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing 10	100	500	1,000	Digi-Key Part No.	Tape & Reel Size	Tape & Reel Pricing	Old † Panasonic Part No.	New † Panasonic Part No.
0402	NPO	50	82pF	±5%	0.50	PCC820CQCT-ND*	.28	2.00	6.93	10.94	PCC820CQTR-ND	10,000	9.00/M	ECU-E1H820JCQ	ECJ-0EC1H82
			100pF	±5%	0.50	PCC101CQCT-ND*	.30	2.15	7.42	11.72	PCC101CQTR-ND	10,000	10.00/M	ECU-E1H101JCQ	ECJ-0EC1H10
			120pF	±5%	0.50	PCC121CQCT-ND*	.30	2.15	7.42	11.72	PCC121CQTR-ND	10,000	10.00/M	ECU-E1H121JCQ	ECJ-0EC1H12
			150pF	±5%	0.50	PCC151CQCT-ND*	.30	2.15	7.42	11.72	PCC151CQTR-ND	10,000	10.00/M	ECU-E1H151JCQ	ECJ-0EC1H15
			180pF	±5%	0.50	PCC181CQCT-ND*	.27	1.95	7.03	10.93	PCC181CQTR-ND	10,000	10.00/M	ECU-E1H181JCQ	ECJ-0EC1H18
			220pF	±5%	0.50	PCC221CQCT-ND*	.27	1.95	7.03	10.93	PCC221CQTR-ND	10,000	10.00/M	ECU-E1H221JCQ	ECJ-0EC1H22
			100pF	±10%	0.50	PCC1709CT-ND*	.28	2.00	6.93	10.94	PCC1709TR-ND	10,000	9.00/M	ECU-E1H101KBQ	ECJ-0EB1H10
			120pF	±10%	0.50	PCC1710CT-ND*	.28	2.00	6.93	10.94	PCC1710TR-ND	10,000	9.00/M	ECU-E1H121KBQ	ECJ-0EB1H12
			150pF	±10%	0.50	PCC1711CT-ND*	.28	2.00	6.93	10.94	PCC1711TR-ND	10,000	9.00/M	ECU-E1H151KBQ	ECJ-0EB1H15
			180pF	±10%	0.50	PCC1712CT-ND*	.28	2.00	6.93	10.94	PCC1712TR-ND	10,000	9.00/M	ECU-E1H181KBQ	ECJ-0EB1H18
			220pF	±10%	0.50	PCC1713CT-ND*	.28	2.00	6.93	10.94	PCC1713TR-ND	10,000	9.00/M	ECU-E1H221KBQ	ECJ-0EB1H22
			270pF	±10%	0.50	PCC1714CT-ND*	.28	2.00	6.93	10.94	PCC1714TR-ND	10,000	9.00/M	ECU-E1H271KBQ	ECJ-0EB1H27
			330pF	±10%	0.50	PCC1715CT-ND*	.28	2.00	6.93	10.94	PCC1715TR-ND	10,000	9.00/M	ECU-E1H331KBQ	ECJ-0EB1H33
			390pF	±10%	0.50	PCC1716CT-ND*	.28	2.00	6.93	10.94	PCC1716TR-ND	10,000	9.00/M	ECU-E1H391KBQ	ECJ-0EB1H39
			470pF	±10%	0.50	PCC1717CT-ND*	.28	2.00	6.93	10.94	PCC1717TR-ND	10,000	9.00/M	ECU-E1H471KBQ	ECJ-0EB1H47
		50	560pF	±10%	0.50	PCC1718CT-ND*	.28	2.00	6.93	10.94	PCC1718TR-ND	10,000	9.00/M	ECU-E1H561KBQ	ECJ-0EB1H56
			680pF	±10%	0.50	PCC1719CT-ND*	.28	2.00	6.93	10.94	PCC1719TR-ND	10,000	9.00/M	ECU-E1H681KBQ	ECJ-0EB1H68
			820pF	±10%	0.50	PCC1720CT-ND*	.28	2.00	6.93	10.94	PCC1720TR-ND	10,000	9.00/M	ECU-E1H821KBQ	ECJ-0EB1H82
			1000pF	±10%	0.50	PCC1721CT-ND*	.28	2.00	6.93	10.94	PCC1721TR-ND	10,000	9.00/M	ECU-E1H102KBQ	ECJ-0EB1H10
			1200pF	±10%	0.50	PCC1722CT-ND*	.28	2.00	6.93	10.94	PCC1722TR-ND	10,000	9.00/M	ECU-E1H122KBQ	ECJ-0EB1H12
			1500pF	±10%	0.50	PCC1723CT-ND*	.28	2.00	6.93	10.94	PCC1723TR-ND	10,000	9.00/M	ECU-E1H152KBQ	ECJ-0EB1H15
			1800pF	±10%	0.50	PCC1724CT-ND*	.28	2.00	6.93	10.94	PCC1724TR-ND	10,000	9.00/M	ECU-E1H182KBQ	ECJ-0EB1H18
			2200pF	±10%	0.50	PCC1725CT-ND*	.28	2.00	6.93	10.94	PCC1725TR-ND	10,000	9.00/M	ECU-E1H222KBQ	ECJ-0EB1H22
			2700pF	±10%	0.50	PCC1726CT-ND*	.28	2.00	6.93	10.94	PCC1726TR-ND	10,000	9.00/M	ECU-E1H272KBQ	ECJ-0EB1H27
			3300pF	±10%	0.50	PCC1727CT-ND*	.28	2.00	6.93	10.94	PCC1727TR-ND	10,000	9.00/M	ECU-E1H332KBQ	ECJ-0EB1H33
			3900pF	±10%	0.50	PCC1728CT-ND*	.28	2.00	6.93	10.94	PCC1728TR-ND	10,000	9.00/M	ECU-E1H392KBQ	ECJ-0EB1H39
			100pF	±10%	0.50	PCC1702CT-ND	2.81	19.80	68.40	108.00	PCC1702TR-ND	10,000	90.00/M	ECU-E1E101KBQ	ECJ-0EB1E10
			120pF	±10%	0.50	PCC1703CT-ND	2.81	19.80	68.40	108.00	PCC1703TR-ND	10,000	90.00/M	ECU-E1E121KBQ	ECJ-0EB1E12
			150pF	±10%	0.50	PCC1704CT-ND	2.81	19.80	68.40	108.00	PCC1704TR-ND	10,000	90.00/M	ECU-E1E151KBQ	ECJ-0EB1E15
			180pF	±10%	0.50	PCC1705CT-ND	2.81	19.80	68.40	108.00	PCC1705TR-ND	10,000	90.00/M	ECU-E1E181KBQ	ECJ-0EB1E18
			220pF	±10%	0.50	PCC1706CT-ND	2.81	19.80	68.40	108.00	PCC1706TR-ND	10,000	90.00/M	ECU-E1E221KBQ	ECJ-0EB1E22
	X7R		270pF	±10%	0.50	PCC271BQCT-ND	2.89	20.35	70.30	111.00	PCC271BQTR-ND	10,000	93.00/M	ECU-E1E271KBQ	ECJ-0EB1E27
			330pF	±10%	0.50	PCC331BQCT-ND	2.89	20.35	70.30	111.00	PCC331BQTR-ND	10,000	93.00/M	ECU-E1E331KBQ	ECJ-0EB1E33
			391pF	±10%	0.50	PCC391BQCT-ND	2.89	20.35	70.30	111.00	PCC391BQTR-ND	10,000	93.00/M	ECU-E1E391KBQ	ECJ-0EB1E39
			470pF	±10%	0.50	PCC471BQCT-ND	2.89	20.35	70.30	111.00	PCC471BQTR-ND	10,000	93.00/M	ECU-E1E471KBQ	ECJ-0EB1E47
			560pF	±10%	0.50	PCC561BQCT-ND	2.89	20.35	70.30	111.00	PCC561BQTR-ND	10,000	93.00/M	ECU-E1E561KBQ	ECJ-0EB1E56
			680pF	±10%	0.50	PCC681BQCT-ND	2.89	20.35	70.30	111.00	PCC681BQTR-ND	10,000	93.00/M	ECU-E1E681KBQ	ECJ-0EB1E68
			820pF	±10%	0.50	PCC821BQCT-ND	2.89	20.35	70.30	111.00	PCC821BQTR-ND	10,000	93.00/M	ECU-E1E821KBQ	ECJ-0EB1E82
		25	1000pF	±10%	0.50	PCC102BQCT-ND	2.89	20.35	70.30	111.00	PCC102BQTR-ND	10,000	93.00/M	ECU-E1E102KBQ	ECJ-0EB1E10
			1200pF	±10%	0.50	PCC122BQCT-ND	2.89	20.35	70.30	111.00	PCC122BQTR-ND	10,000	93.00/M	ECU-E1E122KBQ	ECJ-0EB1E12
			1500pF	±10%	0.50	PCC152BQCT-ND	2.89	20.35	70.30	111.00	PCC152BQTR-ND	10,000	93.00/M	ECU-E1E152KBQ	ECJ-0EB1E15
			1800pF	±10%	0.50	PCC182BQCT-ND	2.89	20.35	70.30	111.00	PCC182BQTR-ND	10,000	93.00/M	ECU-E1E182KBQ	ECJ-0EB1E18
			2200pF	±10%	0.50	PCC222BQCT-ND	2.89	20.35	70.30	111.00	PCC222BQTR-ND	10,000	93.00/M	ECU-E1E222KBQ	ECJ-0EB1E22
			2700pF	±10%	0.50	PCC272BQCT-ND	3.12	22.00	76.00	120.00	PCC272BQTR-ND	10,000	100.00/M	ECU-E1E272KBQ	ECJ-0EB1E27
			3300pF	±10%	0.50	PCC332BQCT-ND	3.39	23.93	82.65	130.50	PCC332BQTR-ND	10,000	109.00/M	ECU-E1E332KBQ	ECJ-0EB1E33
			3900pF	±10%	0.50	PCC392BQCT-ND	3.51	24.75	85.50	135.00	PCC392BQTR-ND	10,000	113.00/M	ECU-E1E392KBQ	ECJ-0EB1E39
			4700pF	±10%	0.50	PCC472BQCT-ND*	.28	2.00	6.93	10.94	PCC472BQTR-ND	10,000	9.00/M	ECU-E1E472KBQ	ECJ-0EB1E47
			5600pF	±10%	0.50	PCC1707CT-ND*	.28	2.00	6.93	10.94	PCC1707TR-ND	10,000	9.00/M	ECU-E1E562KBQ	ECJ-0EB1E56
			6800pF	±10%	0.50	PCC1708CT-ND*	.28	2.00	6.93	10.94	PCC1708TR-ND	10,000	9.00/M	ECU-E1E682KBQ	ECJ-0EB1E68
			8200pF	±10%	0.50	PCC2271CT-ND	.28	2.00	6.93	10.94	PCC2271TR-ND	10,000	9.00/M	ECJ-0EB1E822K	ECJ-0EB1E82
			.01µF	±10%	0.50	PCC2270CT-ND	.28	2.00	6.93	10.94	PCC2270TR-ND	10,000	9.00/M	ECJ-0EB1E103K	ECJ-0EB1E10
			5600pF	±10%	0.50	PCC562BQCT-ND	2.42	17.05	58.90	93.00	PCC562BQTR-ND	10,000	78.00/M	ECU-E1C562KBQ	ECJ-0EB1C56
			6800pF	±10%	0.50	PCC682BQCT-ND	2.50	17.60	60.80	96.00	PCC682BQTR-ND	10,000	80.00/M	ECU-E1C682KBQ	ECJ-0EB1C68
			8200pF	±10%	0.50	PCC822BQCT-ND*	2.54	17.88	61.75	97.50	PCC822BQTR-ND	10,000	81.00/M	ECU-E1C822KBQ	ECJ-0EB1C82
		16	10000pF	±10%	0.50	PCC103BQCT-ND*	.28	2.00	6.93	10.94	PCC103BQTR-ND	10,000	9.00/M	ECU-E1C103KBQ	ECJ-0EB1C10
			12000pF	±10%	0.50	PCC1700CT-ND*	.28	2.00	6.93	10.94	PCC1700TR-ND	10,000	9.00/M	ECU-E1C123KBQ	ECJ-0EB1C12
			15000pF	±10%	0.50	PCC1701CT-ND*	.31	2.20	7.59	11.99	PCC1701TR-ND	10,000	10.00/M	ECU-E1C153KBQ	ECJ-0EB1C15
			18000pF	±10%	0.50	PCC2137CT-ND*	.38	2.67	9.22	14.57	PCC2137TR-ND	10,000	12.00/M	ECJ-0EB1C183K	ECJ-0EB1C18
			22000pF	±10%	0.50	PCC2138CT-ND*	.38	2.67	9.22	14.57	PCC2138TR-ND	10,000	12.00/M	ECJ-0EB1C223K	ECJ-0EB1C22
		16	.1µF	±10%	0.50	PCC2363CT-ND	1.36	9.01	29.15	37.10	PCC2363TR-ND	10,000	30.00/M	ECJ-0EB1C104K	ECJ-0EB1C10
	X5R		27000pF	±10%	0.50	PCC2139CT-ND	.39	2.77	9.57	15.11	PCC2139TR-ND	10,000	13.00/M	ECJ-0EB1A273K	ECJ-0EB1A27
			33000pF	±10%	0.50	PCC2140CT-ND	.39	2.77	9.57	15.11	PCC2140TR-ND	10,000	13.00/M	ECJ-0EB1A333K	ECJ-0EB1A33
			39000pF	±10%	0.50	PCC2141CT-ND	.39	2.77	9.57	15.11	PCC2141TR-ND	10,000	13.00/M	ECJ-0EB1A393K	ECJ-0EB1A39
			47000pF	±10%	0.50	PCC2142CT-ND	.39	2.77	9.57	15.11	PCC2142TR-ND	10,000	13.00/M	ECJ-0EB1A473K	ECJ-0EB1A47
		10	56000pF	±10%	0.50	PCC2143CT-ND	.39	2.77	9.57	15.11	PCC2143TR-ND	10,000	13.00/M	ECJ-0EB1A563K	ECJ-0EB1A56
			68000pF	±10%	0.50	PCC2144CT-ND	.39	2.77	9.57	15.11	PCC2144TR-ND	10,000	13.00/M	ECJ-0EB1A683K	ECJ-0EB1A68
			82000pF	±10%	0.50	PCC2145CT-ND	.39	2.77	9.57	15.11	PCC2145TR-ND	10,000	13.00/M	ECJ-0EB1A823K	ECJ-0EB1A82
			.1µF	±10%	0.50	PCC2146CT-ND*	.39	2.77	9.57	15.11	PCC2146TR-ND	10,000	13.00/M	ECJ-0EB1A104K	ECJ-0EB1A10
			1.0µF	±20%	0.50	PCC2364CT-ND	2.97	19.21	59.33	84.75	PCC2364TR-ND	10,000	75.00/M	ECJ-0EB1A105M	ECJ-0EB1A10
			.22µF	±10%	0.50	PCC2269CT-ND	1.04	6.99	23.68	36.08	PCC2269TR-ND	10,000	29.00/M	ECJ-0EB0J224K	ECJ-0EB0J22
		6.3	.47µF	±10%	0.50	PCC2394CT-ND **NEW!**	1.33	8.67	28.05	35.70	PCC2394TR-ND **NEW!**	10,000	29.00/M	ECJ-0EB0J474K	ECJ-0EB0J47
			1µF	±20%	0.50	PCC2257CT-ND	1.65	11.66	40.28	63.60	PCC2257TR-ND	10,000	53.00/M	ECJ-0EB0J105M	ECJ-0EB0J10
			1µF	±10%	0.50	PCC2393CT-ND **NEW!**	1.85	12.07	39.06	49.72	PCC2393TR-ND **NEW!**	10,000	40.00/M	ECJ-0EB0J105K	ECJ-0EB0J10
	Y5V		1000pF	+80%/-20%	0.50	PCC1741CT-ND	.28	2.00	6.93	10.94	PCC1741TR-ND	10,000	9.00/M	ECU-E1H102ZFQ	ECJ-0EF1H10
			1500pF	+80%/-20%	0.50	PCC1742CT-ND	2.57	18.15	62.70	99.00	PCC1742TR-ND	10,000	83.00/M	ECU-E1H152ZFQ	ECJ-0EF1H15
			2200pF	+80%/-20%	0.50	PCC1743CT-ND	.28	2.00	6.93	10.94	PCC1743TR-ND	10,000	9.00/M	ECU-E1H222ZFQ	ECJ-0EF1H22
		50	3300pF	+80%/-20%	0.50	PCC1744CT-ND	2.57	18.15	62.70	99.00	PCC1744TR-ND	10,000	83.00/M	ECU-E1H332ZFQ	ECJ-0EF1H33
			4700pF	+80%/-20%	0.50	PCC1745CT-ND	.28	2.00	6.93	10.94	PCC1745TR-ND	10,000	9.00/M	ECU-E1H472ZFQ	ECJ-0EF1H47
			6800pF	+80%/-20%	0.50	PCC1746CT-ND	2.57	18.15	62.70	99.00	PCC1746TR-ND	10,000	83.00/M	ECU-E1H682ZFQ	ECJ-0EF1H68
			10000pF	+80%/-20%	0.50	PCC1747CT-ND	.28	2.00	6.93	10.94	PCC1747TR-ND	10,000	9.00/M	ECU-E1H103ZFQ	ECJ-0EF1H10
			1000pF	+80%/-20%	0.50	PCC1732CT-ND	.28	2.00	6.93	10.94	PCC1732TR-ND	10,000	9.00/M	ECU-E1E102ZFQ	ECJ-0EF1E10
			1500pF	+80%/-20%	0.50	PCC1733CT-ND	2.57	18.15	62.70	99.00	PCC1733TR-ND	10,000	83.00/M	ECU-E1E152ZFQ	ECJ-0EF1E15
			2200pF	+80%/-20%	0.50	PCC1734CT-ND	.28	2.00	6.93	10.94	PCC1734TR-ND	10,000	9.00/M	ECU-E1E222ZFQ	ECJ-0EF1E22
			3300pF	+80%/-20%	0.50	PCC1735CT-ND	2.57	18.15	62.70	99.00	PCC1735TR-ND	10,000	83.00/M	ECU-E1E332ZFQ	ECJ-0EF1E33
		25	4700pF	+80%/-20%	0.50	PCC1736CT-ND	.28	2.00	6.93	10.94	PCC1736TR-ND	10,000	9.00/M	ECU-E1E472ZFQ	ECJ-0EF1E47
			6800pF	+80%/-20%	0.50	PCC1737CT-ND	2.57	18.15	62.70	99.00	PCC1737TR-ND	10,000	83.00/M	ECU-E1E682ZFQ	ECJ-0EF1E68
			10000pF	+80%/-20%	0.50	PCC1738CT-ND	.28	2.00	6.93	10.94	PCC1738TR-ND	10,000	9.00/M	ECU-E1E103ZFQ	ECJ-0EF1E10
			15000pF	+80%/-20%	0.50	PCC1739CT-ND	2.54	17.88	61.75	97.50	PCC1739TR-ND	10,000	81.00/M	ECU-E1E153ZFQ	ECJ-0EF1E15
			22000pF	+80%/-20%	0.50	PCC1740CT-ND	.28	2.00	6.93	10.94	PCC1740TR-ND	10,000	9.00/M	ECU-E1E223ZFQ	ECJ-0EF1E22
			15000pF	+80%/-20%	0.50	PCC153FQCT-ND	3.08	21.73	75.05	118.50	PCC153FQTR-ND	10,000	99.00/M	ECU-E1C153ZFQ	ECJ-0EF1C15
			22000pF	+80%/-20%	0.50	PCC223FQCT-ND	.28	2.00	6.93	10.94	PCC223FQTR-ND	10,000	9.00/M	ECU-E1C223ZFQ	ECJ-0EF1C22
			33000pF	+80%/-20%	0.50	PCC333FQCT-ND	3.39	23.93	82.65	130.50	PCC333FQTR-ND	10,000	109.00/M	ECU-E1C333ZFQ	ECJ-0EF1C33
		16	47000pF	+80%/-20%	0.50	PCC1729CT-ND	.28	2.00	6.93	10.94	PCC1729TR-ND	10,000	9.00/M	ECU-E1C473ZFQ	ECJ-0EF1C47
			68000pF	+80%/-20%	0.50	PCC1730CT-ND	3.39	23.93	82.65	130.50	PCC1730TR-ND	10,000	109.00/M	ECU-E1C683ZFQ	ECJ-0EF1C68
			.1µF	+80%/-20%	0.50	PCC1731CT-ND	.28	2.00	6.93	10.94	PCC1731TR-ND	10,000	9.00/M	ECU-E1C104ZFQ	ECJ-0EF1C10
		10	.22µF	+80%/-20%	0.50	PCC2272CT-ND	1.09	7.36	24.93	37.98	PCC2272TR-ND	10,000	30.00/M	ECJ-0EF1A224Z	ECJ-0EF1A22
		6.3	1µF	+80%/-20%	0.50	PCC2268CT-ND	1.39	9.39	31.79	48.45	PCC2268TR-ND	10,000	39.00/M	ECJ-0EF0J105Z	ECJ-0EF0J10
0508	X7R	50	.01µF	±10%	0.85	PCC2187CT-ND	2.04	14.55	52.37	87.29	PCC2187TR-ND	4,000	76.00/M	ECJ-VVB1H103K	ECY-29RH103
		25	.1µF	±10%	0.85	PCC2188CT-ND	2.04	14.55	52.37	87.29	PCC2188TR-ND	4,000	76.00/M	ECJ-VVB1E104K	ECY-29RE104
	X5R	10	1µF	±10%	0.85	PCC2189CT-ND	2.27	16.24	58.47	97.46	PCC2189TR-ND	4,000	84.00/M	ECJ-VVB1A105K	ECY-29RA105

‡ Reduced DC Bias Voltage Characteristics

(Cont.)

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Type	WV DC	Cap.	Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing 10	100	500	1,000	Digi-Key Part No.	Tape & Reel Size	Pricing	Old † Panasonic Part No.	New † Panasonic Part No.
		10pF	±0.5pF	0.80	PCC1941CT-ND	60	4.03	13.65	22.10	PCC1941TR-ND	4,000	18.00/M	ECJ-1VC2A100D	ECJ-1VC2A100D
		15pF	±5%	0.80	PCC1942CT-ND	60	4.03	13.65	22.10	PCC1942TR-ND	4,000	18.00/M	ECJ-1VC2A150J	ECJ-1VC2A150J
		22pF	±5%	0.80	PCC1943CT-ND	60	4.03	13.65	22.10	PCC1943TR-ND	4,000	18.00/M	ECJ-1VC2A220J	ECJ-1VC2A220J
	100	33pF	±5%	0.80	PCC1944CT-ND	51	3.58	12.35	20.80	PCC1944TR-ND	4,000	17.00/M	ECJ-1VC2A330J	ECJ-1VC2A330J
		47pF	±5%	0.80	PCC1945CT-ND	51	3.58	12.35	20.80	PCC1945TR-ND	4,000	17.00/M	ECJ-1VC2A470J	ECJ-1VC2A470J
		68pF	±5%	0.80	PCC1946CT-ND	51	3.58	12.35	20.80	PCC1946TR-ND	4,000	17.00/M	ECJ-1VC2A680J	ECJ-1VC2A680J
		100pF	±5%	0.80	PCC1947CT-ND	51	3.58	12.35	20.80	PCC1947TR-ND	4,000	17.00/M	ECJ-1VC2A101J	ECJ-1VC2A101J
		0.5pF	±0.25pF	0.80	PCC0R5CVCT-ND•	44	2.95	10.01	16.20	PCC0R5CVTR-ND	4,000	13.00/M	ECU-V1H0R5CCV	ECJ-1VC1H0R5C
		1pF	±0.25pF	0.80	PCC010CVCT-ND•	44	2.95	10.01	16.20	PCC010CVTR-ND	4,000	13.00/M	ECU-V1H010CCV	ECJ-1VC1H010C
		1.5pF	±0.25pF	0.80	PCC1R5CVCT-ND•	44	2.95	10.01	16.20	PCC1R5CVTR-ND	4,000	13.00/M	ECU-V1H1R5CCV	ECJ-1VC1H1R5C
		2pF	±0.25pF	0.80	PCC020CVCT-ND•	44	2.95	10.01	16.20	PCC020CVTR-ND	4,000	13.00/M	ECU-V1H020CCV	ECJ-1VC1H020C
		3pF	±0.25pF	0.80	PCC030CVCT-ND•	44	2.95	10.01	16.20	PCC030CVTR-ND	4,000	13.00/M	ECU-V1H030CCV	ECJ-1VC1H030C
		4pF	±0.25pF	0.80	PCC040CVCT-ND•	44	2.95	10.01	16.20	PCC040CVTR-ND	4,000	13.00/M	ECU-V1H040CCV	ECJ-1VC1H040C
		5pF	±0.25pF	0.80	PCC050CVCT-ND•	44	2.95	10.01	16.20	PCC050CVTR-ND	4,000	13.00/M	ECU-V1H050CCV	ECJ-1VC1H050C
		6pF	±0.5pF	0.80	PCC060CVCT-ND•	44	2.95	10.01	16.20	PCC060CVTR-ND	4,000	13.00/M	ECU-V1H060DCV	ECJ-1VC1H060D
		7pF	±0.5pF	0.80	PCC070CVCT-ND•	44	2.95	10.01	16.20	PCC070CVTR-ND	4,000	13.00/M	ECU-V1H070DCV	ECJ-1VC1H070D
		8pF	±0.5pF	0.80	PCC080CVCT-ND•	44	2.95	10.01	16.20	PCC080CVTR-ND	4,000	13.00/M	ECU-V1H080DCV	ECJ-1VC1H080D
		9pF	±0.5pF	0.80	PCC090CVCT-ND•	44	2.95	10.01	16.20	PCC090CVTR-ND	4,000	13.00/M	ECU-V1H090DCV	ECJ-1VC1H090D
		10pF	±0.5pF	0.80	PCC100CVCT-ND•	44	2.95	10.01	16.20	PCC100CVTR-ND	4,000	13.00/M	ECU-V1H100DCV	ECJ-1VC1H100D
		12pF	±5%	0.80	PCC120ACVCT-ND	44	2.95	10.01	16.20	PCC120ACVTR-ND	4,000	13.00/M	ECU-V1H120JCV	ECJ-1VC1H120J
		15pF	±5%	0.80	PCC150ACVCT-ND•	44	2.95	10.01	16.20	PCC150ACVTR-ND	4,000	13.00/M	ECU-V1H150JCV	ECJ-1VC1H150J
NPO		18pF	±5%	0.80	PCC180ACVCT-ND•	44	2.95	10.01	16.20	PCC180ACVTR-ND	4,000	13.00/M	ECU-V1H180JCV	ECJ-1VC1H180J
		22pF	±5%	0.80	PCC220ACVCT-ND•	44	2.95	10.01	16.20	PCC220ACVTR-ND	4,000	13.00/M	ECU-V1H220JCV	ECJ-1VC1H220J
		27pF	±5%	0.80	PCC270ACVCT-ND•	44	2.95	10.01	16.20	PCC270ACVTR-ND	4,000	13.00/M	ECU-V1H270JCV	ECJ-1VC1H270J
		33pF	±5%	0.80	PCC330ACVCT-ND•	44	2.95	10.01	16.20	PCC330ACVTR-ND	4,000	13.00/M	ECU-V1H330JCV	ECJ-1VC1H330J
	50	39pF	±5%	0.80	PCC390ACVCT-ND•	44	2.95	10.01	16.20	PCC390ACVTR-ND	4,000	13.00/M	ECU-V1H390JCV	ECJ-1VC1H390J
		47pF	±5%	0.80	PCC470ACVCT-ND•	44	2.95	10.01	16.20	PCC470ACVTR-ND	4,000	13.00/M	ECU-V1H470JCV	ECJ-1VC1H470J
		56pF	±5%	0.80	PCC560ACVCT-ND•	44	2.95	10.01	16.20	PCC560ACVTR-ND	4,000	13.00/M	ECU-V1H560JCV	ECJ-1VC1H560J
		68pF	±5%	0.80	PCC680ACVCT-ND•	44	2.95	10.01	16.20	PCC680ACVTR-ND	4,000	13.00/M	ECU-V1H680JCV	ECJ-1VC1H680J
		82pF	±5%	0.80	PCC820ACVCT-ND•	44	2.95	10.01	16.20	PCC820ACVTR-ND	4,000	13.00/M	ECU-V1H820JCV	ECJ-1VC1H820J
		100pF	±5%	0.80	PCC101ACVCT-ND•	44	2.95	10.01	16.20	PCC101ACVTR-ND	4,000	13.00/M	ECU-V1H101JCV	ECJ-1VC1H101J
		120pF	±5%	0.80	PCC121ACVCT-ND•	44	2.95	10.01	16.20	PCC121ACVTR-ND	4,000	13.00/M	ECU-V1H121JCV	ECJ-1VC1H121J
		150pF	±5%	0.80	PCC151ACVCT-ND•	44	2.95	10.01	16.20	PCC151ACVTR-ND	4,000	13.00/M	ECU-V1H151JCV	ECJ-1VC1H151J
		180pF	±5%	0.80	PCC181ACVCT-ND•	44	2.95	10.01	16.20	PCC181ACVTR-ND	4,000	13.00/M	ECU-V1H181JCV	ECJ-1VC1H181J
		220pF	±5%	0.80	PCC221ACVCT-ND•	44	2.95	10.01	16.20	PCC221ACVTR-ND	4,000	13.00/M	ECU-V1H221JCV	ECJ-1VC1H221J
		270pF	±5%	0.80	PCC271ACVCT-ND•	44	2.95	10.01	16.20	PCC271ACVTR-ND	4,000	13.00/M	ECU-V1H271JCV	ECJ-1VC1H271J
		330pF	±5%	0.80	PCC331ACVCT-ND•	44	2.95	10.01	16.20	PCC331ACVTR-ND	4,000	13.00/M	ECU-V1H331JCV	ECJ-1VC1H331J
		390pF	±5%	0.80	PCC391ACVCT-ND•	44	2.95	10.01	16.20	PCC391ACVTR-ND	4,000	13.00/M	ECU-V1H391JCV	ECJ-1VC1H391J
		470pF	±5%	0.80	PCC2147CT-ND	44	2.95	10.01	16.20	PCC2147TR-ND	4,000	13.00/M	ECJ-1VC1H471J	ECJ-1VC1H471J
		560pF	±5%	0.80	PCC2148CT-ND	72	4.84	16.40	26.55	PCC2148TR-ND	4,000	21.00/M	ECJ-1VC1H561J	ECJ-1VC1H561J
		680pF	±5%	0.80	PCC2149CT-ND	72	4.84	16.40	26.55	PCC2149TR-ND	4,000	21.00/M	ECJ-1VC1H681J	ECJ-1VC1H681J
		820pF	±5%	0.80	PCC2150CT-ND	72	4.84	16.40	26.55	PCC2150TR-ND	4,000	21.00/M	ECJ-1VC1H821J	ECJ-1VC1H821J
		1000pF	±5%	0.80	PCC2151CT-ND	72	4.84	16.40	26.55	PCC2151TR-ND	4,000	21.00/M	ECJ-1VC1H102J	ECJ-1VC1H102J
		220pF	±10%	0.80	PCC1953CT-ND	61	4.30	14.84	24.99	PCC1953TR-ND	4,000	20.00/M	ECJ-1VB2D221K	ECJ-1VB2D221K
		330pF	±10%	0.80	PCC1954CT-ND	61	4.30	14.84	24.99	PCC1954TR-ND	4,000	20.00/M	ECJ-1VB2D331K	ECJ-1VB2D331K
	200	470pF	±10%	0.80	PCC1955CT-ND	61	4.30	14.84	24.99	PCC1955TR-ND	4,000	20.00/M	ECJ-1VB2D471K	ECJ-1VB2D471K
		680pF	±10%	0.80	PCC1956CT-ND	61	4.30	14.84	24.99	PCC1956TR-ND	4,000	20.00/M	ECJ-1VB2D681K	ECJ-1VB2D681K
		1000pF	±10%	0.80	PCC1957CT-ND	61	4.30	14.84	24.99	PCC1957TR-ND	4,000	20.00/M	ECJ-1VB2D102K	ECJ-1VB2D102K
		220pF	±10%	0.80	PCC1948CT-ND	56	3.77	12.76	20.66	PCC1948TR-ND	4,000	16.00/M	ECJ-1VB2A221K	ECJ-1VB2A221K
		330pF	±10%	0.80	PCC1949CT-ND	56	3.77	12.76	20.66	PCC1949TR-ND	4,000	16.00/M	ECJ-1VB2A331K	ECJ-1VB2A331K
	100	470pF	±10%	0.80	PCC1950CT-ND	56	3.77	12.76	20.66	PCC1950TR-ND	4,000	16.00/M	ECJ-1VB2A471K	ECJ-1VB2A471K
		680pF	±10%	0.80	PCC1951CT-ND	56	3.77	12.76	20.66	PCC1951TR-ND	4,000	16.00/M	ECJ-1VB2A681K	ECJ-1VB2A681K
		1000pF	±10%	0.80	PCC1952CT-ND	56	3.77	12.76	20.66	PCC1952TR-ND	4,000	16.00/M	ECJ-1VB2A102K	ECJ-1VB2A102K
		220pF	±10%	0.80	PCC221BVCT-ND	83	5.58	18.90	30.60	PCC221BVTR-ND	4,000	24.00/M	ECU-V1H221KBV	(Not for new design)
		1000pF	±10%	0.80	PCC102BVCT-ND	87	5.89	19.95	32.30	PCC102BVTR-ND	4,000	26.00/M	ECU-V1H102KBV	(Not for new design)
		1000pF	±10%	0.80	PCC1772CT-ND•	40	2.69	9.11	14.76	PCC1772TR-ND	4,000	12.00/M	ECJ-1VB1H102K	ECJ-1VB1H102K
		1200pF	±10%	0.80	PCC1773CT-ND•	40	2.69	9.11	14.76	PCC1773TR-ND	4,000	12.00/M	ECJ-1VB1H122K	ECJ-1VB1H122K
		1500pF	±10%	0.80	PCC1774CT-ND•	40	2.69	9.11	14.76	PCC1774TR-ND	4,000	12.00/M	ECJ-1VB1H152K	ECJ-1VB1H152K
		1800pF	±10%	0.80	PCC1775CT-ND•	40	2.69	9.11	14.76	PCC1775TR-ND	4,000	12.00/M	ECJ-1VB1H182K	ECJ-1VB1H182K
		2200pF	±10%	0.80	PCC1776CT-ND•	31	2.11	7.16	11.59	PCC1776TR-ND	4,000	9.00/M	ECJ-1VB1H222K	ECJ-1VB1H222K
		2700pF	±10%	0.80	PCC1777CT-ND•	40	2.69	9.11	14.76	PCC1777TR-ND	4,000	12.00/M	ECJ-1VB1H272K	ECJ-1VB1H272K
		3300pF	±10%	0.80	PCC1778CT-ND•	40	2.69	9.11	14.76	PCC1778TR-ND	4,000	12.00/M	ECJ-1VB1H332K	ECJ-1VB1H332K
		3900pF	±10%	0.80	PCC1779CT-ND•	40	2.69	9.11	14.76	PCC1779TR-ND	4,000	12.00/M	ECJ-1VB1H392K	ECJ-1VB1H392K
		4700pF	±10%	0.80	PCC1780CT-ND•	40	2.69	9.11	14.76	PCC1780TR-ND	4,000	12.00/M	ECJ-1VB1H472K	ECJ-1VB1H472K
	50	5600pF	±10%	0.80	PCC1781CT-ND•	40	2.69	9.11	14.76	PCC1781TR-ND	4,000	12.00/M	ECJ-1VB1H562K	ECJ-1VB1H562K
		6800pF	±10%	0.80	PCC1782CT-ND•	40	2.69	9.11	14.76	PCC1782TR-ND	4,000	12.00/M	ECJ-1VB1H682K	ECJ-1VB1H682K
		8200pF	±10%	0.80	PCC1783CT-ND•	40	2.69	9.11	14.76	PCC1783TR-ND	4,000	12.00/M	ECJ-1VB1H822K	ECJ-1VB1H822K
		10000pF	±10%	0.80	PCC1784CT-ND•	40	2.69	9.11	14.76	PCC1784TR-ND	4,000	12.00/M	ECJ-1VB1H103K	ECJ-1VB1H103K
		12000pF	±10%	0.80	PCC123BVCT-ND	47	3.17	10.75	17.41	PCC123BVTR-ND	4,000	14.00/M	ECU-V1H123KBV	(Not for new design)
		12000pF	±10%	0.80	PCC1785CT-ND•	47	3.17	10.75	17.41	PCC1785TR-ND	4,000	14.00/M	ECJ-1VB1H123K	ECJ-1VB1H123K
		15000pF	±10%	0.80	PCC1786CT-ND•	47	3.17	10.75	17.41	PCC1786TR-ND	4,000	14.00/M	ECJ-1VB1H153K	ECJ-1VB1H153K
X7R		.018µF	±10%	0.80	PCC2281CT-ND	47	3.17	10.75	16.38	PCC2281TR-ND	4,000	14.00/M	ECJ-1VB1H183K	ECJ-1VB1H183K
		.022µF	±10%	0.80	PCC2282CT-ND	47	3.17	10.75	16.38	PCC2282TR-ND	4,000	14.00/M	ECJ-1VB1H223K	ECJ-1VB1H223K
		.027µF	±10%	0.80	PCC2283CT-ND	82	5.52	18.69	28.48	PCC2283TR-ND	4,000	24.00/M	ECJ-1VB1H273K	ECJ-1VB1H273K
		.033µF	±10%	0.80	PCC2284CT-ND	82	5.52	18.69	28.48	PCC2284TR-ND	4,000	24.00/M	ECJ-1VB1H333K	ECJ-1VB1H333K
		.039µF	±10%	0.80	PCC2285CT-ND	82	5.52	18.69	28.48	PCC2285TR-ND	4,000	24.00/M	ECJ-1VB1H393K	ECJ-1VB1H393K
		.047µF	±10%	0.80	PCC2286CT-ND	82	5.52	18.69	28.48	PCC2286TR-ND	4,000	24.00/M	ECJ-1VB1H473K	ECJ-1VB1H473K
		0.1µF	±10%	0.80	PCC2398CT-ND NEW!	90	5.88	19.03	24.22	PCC2398TR-ND NEW!	4,000	21.00/M	ECJ-1VB1H104K	ECJ-1VB1H104K
		10000pF	±10%	0.80	PCC1763CT-ND	47	3.17	10.75	17.41	PCC1763TR-ND	4,000	14.00/M	ECJ-1VB1E103K	ECJ-1VB1E103K
		12000pF	±10%	0.80	PCC1764CT-ND	47	3.17	10.75	17.41	PCC1764TR-ND	4,000	14.00/M	ECJ-1VB1E123K	ECJ-1VB1E123K
		15000pF	±10%	0.80	PCC1765CT-ND	47	3.17	10.75	17.41	PCC1765TR-ND	4,000	14.00/M	ECJ-1VB1E153K	ECJ-1VB1E153K
		18000pF	±10%	0.80	PCC1766CT-ND•	47	3.17	10.75	17.41	PCC1766TR-ND	4,000	14.00/M	ECJ-1VB1E183K	ECJ-1VB1E183K
		22000pF	±10%	0.80	PCC1767CT-ND•	47	3.17	10.75	17.41	PCC1767TR-ND	4,000	14.00/M	ECJ-1VB1E223K	ECJ-1VB1E223K
		27000pF	±10%	0.80	PCC1768CT-ND•	47	3.17	10.75	17.41	PCC1768TR-ND	4,000	14.00/M	ECJ-1VB1E273K	ECJ-1VB1E273K
		33000pF	±10%	0.80	PCC1769CT-ND•	47	3.17	10.75	17.41	PCC1769TR-ND	4,000	14.00/M	ECJ-1VB1E333K	ECJ-1VB1E333K
	25	39000pF	±10%	0.80	PCC1770CT-ND•	47	3.17	10.75	17.41	PCC1770TR-ND	4,000	14.00/M	ECJ-1VB1E393K	ECJ-1VB1E393K
		47000pF	±10%	0.80	PCC1771CT-ND•	47	3.17	10.75	17.41	PCC1771TR-ND	4,000	14.00/M	ECJ-1VB1E473K	ECJ-1VB1E473K
		.056µF	±10%	0.80	PCC2278CT-ND	63	4.25	14.39	21.92	PCC2278TR-ND	4,000	18.00/M	ECJ-1VB1E563K	ECJ-1VB1E563K
		.068µF	±10%	0.80	PCC2279CT-ND	63	4.25	14.39	21.92	PCC2279TR-ND	4,000	18.00/M	ECJ-1VB1E683K	ECJ-1VB1E683K
		.082µF	±10%	0.80	PCC2280CT-ND	63	4.25	14.39	21.92	PCC2280TR-ND	4,000	18.00/M	ECJ-1VB1E823K	ECJ-1VB1E823K
		.1µF	±10%	0.80	PCC2277CT-ND	63	4.25	14.39	21.92	PCC2277TR-ND	4,000	18.00/M	ECJ-1VB1E104K	ECJ-1VB1E104K
		10000pF	±10%	0.80	PCC1750CT-ND	49	3.28	11.12	18.00	PCC1750TR-ND	4,000	14.00/M	ECJ-1VB1C103K	ECJ-1VB1C103K
		12000pF	±10%	0.80	PCC1751CT-ND	49	3.28	11.12	18.00	PCC1751TR-ND	4,000	14.00/M	ECJ-1VB1C123K	ECJ-1VB1C123K
		15000pF	±10%	0.80	PCC1752CT-ND	49	3.28	11.12	18.00	PCC1752TR-ND	4,000	14.00/M	ECJ-1VB1C153K	ECJ-1VB1C153K
		18000pF	±10%	0.80	PCC1753CT-ND	49	3.28	11.12	18.00	PCC1753TR-ND	4,000	14.00/M	ECJ-1VB1C183K	ECJ-1VB1C183K
		22000pF	±10%	0.80	PCC1754CT-ND	49	3.28	11.12	18.00	PCC1754TR-ND	4,000	14.00/M	ECJ-1VB1C223K	ECJ-1VB1C223K
		27000pF	±10%	0.80	PCC1755CT-ND	49	3.28	11.12	18.00	PCC1755TR-ND	4,000	14.00/M	ECJ-1VB1C273K	ECJ-1VB1C273K
		33000pF	±10%	0.80	PCC1756CT-ND	49	3.28	11.12	18.00	PCC1756TR-ND	4,000	14.00/M	ECJ-1VB1C333K	ECJ-1VB1C333K
		39000pF	±10%	0.80	PCC1757CT-ND	49	3.28	11.12	18.00	PCC1757TR-ND	4,000	14.00/M	ECJ-1VB1C393K	ECJ-1VB1C393K
		47000pF	±10%	0.80	PCC1758CT-ND	49	3.28	11.12	18.00	PCC1758TR-ND	4,000	14.00/M	ECJ-1VB1C473K	ECJ-1VB1C473K
		56000pF	±10%	0.80	PCC1759CT-ND•	49	3.28	11.12	18.00	PCC1759TR-ND	4,000	14.00/M	ECJ-1VB1C563K	ECJ-1VB1C563K
		68000pF	±10%	0.80	PCC1760CT-ND•	49	3.28	11.12	18.00	PCC1760TR-ND	4,000	14.00/M	ECJ-1VB1C683K	ECJ-1VB1C683K

uced DC Bias Voltage Characteristics

(Continued)

Size Code	Type	WV DC	Cap.	Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing 10	100	500	1,000	Digi-Key Part No.	Tape & Reel Size	Tape & Reel Pricing	Old † Panasonic Part No.	New † Panasonic Part No.
0603	X7R	16	82000pF	±10%	0.80	PCC1761CT-ND*	.49	3.28	11.12	18.00	PCC1761TR-ND	4,000	14.00/M	ECJ-1VB1C823K	ECJ-1VB1C823K
			.1µF	±10%	0.80	PCC1762CT-ND*	.49	3.28	11.12	18.00	PCC1762TR-ND	4,000	14.00/M	ECJ-1VB1C104K	ECJ-1VB1C104K
		16	1.0µF	±10%	0.80	PCC2224CT-ND	1.21	8.68	31.23	48.58	PCC2224TR-ND	4,000	45.00/M	ECJ-1VB1C105K	ECJ-1VB1C105K
		10	.12µF	±10%	0.80	PCC1906CT-ND*	1.76	12.38	42.75	72.00	PCC1906TR-ND	4,000	59.00/M	ECJ-1VB1A124K	ECJ-1VB1A124K
			.15µF	±10%	0.80	PCC1748CT-ND*	.41	2.91	10.06	16.94	PCC1748TR-ND	4,000	14.00/M	ECJ-1VB1A154K	ECJ-1VB1A154K
			.18µF	±10%	0.80	PCC1907CT-ND*	1.79	12.65	43.70	73.60	PCC1907TR-ND	4,000	60.00/M	ECJ-1VB1A184K	ECJ-1VB1A184K
			.22µF	±10%	0.80	PCC1749CT-ND*	.65	4.57	15.77	26.56	PCC1749TR-ND	4,000	22.00/M	ECJ-1VB1A224K	ECJ-1VB1A224K
			.33µF	±10%	0.80	PCC2274CT-ND	.65	4.57	15.77	26.56	PCC2274TR-ND	4,000	22.00/M	ECJ-1VB1A334K	ECJ-1VB1A334K
			.47µF	±10%	0.80	PCC2275CT-ND	.65	4.57	15.77	26.56	PCC2275TR-ND	4,000	22.00/M	ECJ-1VB1A474K	ECJ-1VB1A474K
			.68µF	±10%	0.80	PCC2276CT-ND	1.36	9.16	31.02	47.26	PCC2276TR-ND	4,000	40.00/M	ECJ-1VB1A684K	ECJ-1VB1A684K
			1µF	±10%	0.80	PCC2174CT-ND	1.03	7.39	26.59	44.31	PCC2174TR-ND	4,000	38.00/M	ECJ-1VB1A105K	ECJ-1VB1A105K
			2.2µF	±20%	0.80	PCC2365CT-ND	3.19	21.37	69.93	108.78	PCC2365TR-ND	4,000	103.00/M	ECJ-1VB1A225M	ECJ-1VB1A225M
			2.2µF	±10%	0.80	PCC2397CT-ND **NEW!**	2.91	18.83	58.14	83.06	PCC2397TR-ND **NEW!**	4,000	80.00/M	ECJ-1VB1A225K	ECJ-1VB1A225K
	X5R	6.3	.27µF	±10%	0.80	PCC1908CT-ND	2.34	16.50	57.00	96.00	PCC1908TR-ND	4,000	78.00/M	ECJ-1VB0J274K	ECJ-1VB0J274K
			.33µF	±10%	0.80	PCC1909CT-ND	2.34	16.50	57.00	96.00	PCC1909TR-ND	4,000	78.00/M	ECJ-1VB0J334K	ECJ-1VB0J334K
			.39µF	±10%	0.80	PCC1910CT-ND	2.34	16.50	57.00	96.00	PCC1910TR-ND	4,000	78.00/M	ECJ-1VB0J394K	ECJ-1VB0J394K
			.47µF	±10%	0.80	PCC1911CT-ND	.64	4.48	15.49	26.08	PCC1911TR-ND	4,000	21.00/M	ECJ-1VB0J474K	ECJ-1VB0J474K
			.56µF	±10%	0.80	PCC1912CT-ND	2.42	17.05	58.90	99.20	PCC1912TR-ND	4,000	81.00/M	ECJ-1VB0J564K	ECJ-1VB0J564K
			.68µF	±10%	0.80	PCC1913CT-ND	.64	4.48	15.49	26.08	PCC1913TR-ND	4,000	21.00/M	ECJ-1VB0J684K	ECJ-1VB0J684K
			.82µF	±10%	0.80	PCC1914CT-ND	2.50	17.60	60.80	102.40	PCC1914TR-ND	4,000	83.00/M	ECJ-1VB0J824K	ECJ-1VB0J824K
			1µF	±10%	0.80	PCC1915CT-ND*	.72	5.10	17.63	29.70	PCC1915TR-ND	4,000	24.00/M	ECJ-1VB0J105K	ECJ-1VB0J105K
			2.2µF	±10%	0.80	PCC2273CT-ND	1.96	13.79	47.64	75.23	PCC2273TR-ND	4,000	65.00/M	ECJ-1VB0J225K	ECJ-1VB0J225K
			4.7µF	±10%	0.80	PCC2396CT-ND **NEW!**	2.26	14.62	45.14	64.49	PCC2396TR-ND **NEW!**	4,000	62.00/M	ECJ-1VB0J475K	ECJ-1VB0J475K
			4.7µF	±20%	0.80	PCC2318CT-ND	2.36	16.65	57.53	90.84	PCC2318TR-ND	4,000	79.00/M	ECJ-1VB0J475M	ECJ-1VB0J475M
			10µF	±20%	0.80	PCC2395CT-ND **NEW!**	4.10	27.50	90.00	140.00	PCC2395TR-ND **NEW!**	4,000	133.00/M	ECJ-1VB0J106M	ECJ-1VB0J106M
		4.0	10µF	±20%	0.80	PCC2367CT-ND	4.45	29.48	111.35	176.85	PCC2367TR-ND	4,000	170.00/M	ECJ-1VB0G106M	ECJ-1VB0G106M
	X5S	25	1.0µF	±20%	0.80	PCC2354CT-ND	2.30	16.23	56.05	88.50	PCC2354TR-ND	4,000	77.00/M	ECJ-1V41E105M	ECJ-1V41E105M
	Y5V	50	1500pF	+80%/-20%	0.80	PCC1796CT-ND	.70	4.75	16.08	26.03	PCC1796TR-ND	4,000	21.00/M	ECU-V1H152ZFV	(Not for new des
			10000pF	+80%/-20%	0.80	PCC1801CT-ND	.40	2.69	9.11	14.76	PCC1801TR-ND	4,000	12.00/M	ECJ-1VF1H103Z	ECJ-1VF1H103Z
			15000pF	+80%/-20%	0.80	PCC1802CT-ND	.69	4.65	15.75	25.50	PCC1802TR-ND	4,000	20.00/M	ECJ-1VF1H153Z	ECJ-1VF1H153Z
			22000pF	+80%/-20%	0.80	PCC1803CT-ND	.43	2.90	9.83	15.91	PCC1803TR-ND	4,000	13.00/M	ECJ-1VF1H223Z	ECJ-1VF1H223Z
			33000pF	+80%/-20%	0.80	PCC1804CT-ND	.87	5.89	19.95	32.30	PCC1804TR-ND	4,000	26.00/M	ECJ-1VF1H333Z	ECJ-1VF1H333Z
			47000pF	+80%/-20%	0.80	PCC1805CT-ND	.43	2.90	9.83	15.91	PCC1805TR-ND	4,000	13.00/M	ECJ-1VF1H473Z	ECJ-1VF1H473Z
			68000pF	+80%/-20%	0.80	PCC2152CT-ND	1.15	7.75	26.25	42.50	PCC2152TR-ND	4,000	34.00/M	ECJ-1VF1H683Z	ECJ-1VF1H683Z
			.1µF	+80%/-20%	0.80	PCC2153CT-ND	.51	3.44	11.67	18.89	PCC2153TR-ND	4,000	15.00/M	ECJ-1VF1H104Z	ECJ-1VF1H104Z
		25	68000pF	+80%/-20%	0.80	PCC1793CT-ND	1.10	7.44	25.20	40.80	PCC1793TR-ND	4,000	32.00/M	ECJ-1VF1E683Z	ECJ-1VF1E683Z
			.1µF	+80%/-20%	0.80	PCC1794CT-ND	.46	3.10	10.49	16.98	PCC1794TR-ND	4,000	13.00/M	ECJ-1VF1E104Z	ECJ-1VF1E104Z
		16	.1µF	+80%/-20%	0.80	PCC1788CT-ND	.38	2.53	8.57	13.87	PCC1788TR-ND	4,000	11.00/M	ECJ-1VF1C104Z	ECJ-1VF1C104Z
			.15µF	+80%/-20%	0.80	PCC1789CT-ND	1.01	6.82	23.10	37.40	PCC1789TR-ND	4,000	30.00/M	ECJ-1VF1C154Z	ECJ-1VF1C154Z
			.22µF	+80%/-20%	0.80	PCC1790CT-ND	.53	3.61	12.21	19.77	PCC1790TR-ND	4,000	16.00/M	ECJ-1VF1C224Z	ECJ-1VF1C224Z
			.33µF	+80%/-20%	0.80	PCC1791CT-ND	1.38	9.30	31.50	51.00	PCC1791TR-ND	4,000	41.00/M	ECJ-1VF1C334Z	ECJ-1VF1C334Z
			.47µF	+80%/-20%	0.80	PCC1792CT-ND	.53	3.61	12.21	19.77	PCC1792TR-ND	4,000	16.00/M	ECJ-1VF1C474Z	ECJ-1VF1C474Z
		10	.68µF	+80%/-20%	0.80	PCC2154CT-ND	1.91	13.48	46.55	78.40	PCC2154TR-ND	4,000	64.00/M	ECJ-1VF1A684Z	ECJ-1VF1A684Z
			1µF	+80%/-20%	0.80	PCC1787CT-ND	.50	3.53	12.19	20.53	PCC1787TR-ND	4,000	17.00/M	ECJ-1VF1A105Z	ECJ-1VF1A105Z
		6.3	2.2µF	+80%/-20%	0.80	PCC2181CT-ND	1.52	10.85	39.04	65.07	PCC2181TR-ND	4,000	56.00/M	ECJ-1VF0J225Z	ECJ-1VF0J225Z
	F	25	1µF	±80%/-20%	0.80	PCC2399CT-ND **NEW!**	.85	5.57	18.03	22.94	PCC2399TR-ND **NEW!**	4,000	20.00/M	ECJ-1VF1E105Z	ECJ-1VF1E105Z
		16	1µF	+80%/-20%	0.80	PCC2287CT-ND	.72	4.84	16.40	24.99	PCC2287TR-ND	4,000	21.00/M	ECJ-1VF1C105Z	ECJ-1VF1C105Z
		10	2.2µF	+80%/-20%	0.80	PCC2229CT-ND	1.64	11.71	42.17	65.59	PCC2229TR-ND	4,000	61.00/M	ECJ-1VF1A225Z	ECJ-1VF1A225Z
0612	X7R	50	15000pF	±10%	0.85	PCC2173CT-ND	3.08	22.00	79.18	131.97	PCC2173TR-ND	4,000	114.00/M	ECJ-WVB1H153K	ECY-39RH153K
		16	.33µF	±10%	0.85	PCC2185CT-ND	7.80	55.72	200.58	334.31	PCC2185TR-ND	4,000	290.00/M	ECJ-WVB1C334K	ECY-39RC334K
	X5R	50	.1µF	±10%	0.85	PCC2313CT-ND	2.38	16.82	58.09	91.73	PCC2313TR-ND	4,000	79.00/M	ECY-39RH104KV	ECY-39RH104K
		16	1µF	±10%	0.85	PCC2186CT-ND	2.42	17.32	62.33	103.89	PCC2186TR-ND	4,000	90.00/M	ECJ-WVB1C105K	ECY-39RC105K
		6.3	10µF	±20%	0.85	PCC2355CT-ND	13.32	99.88	355.12	590.39	PCC2355TR-ND	4,000	568.00/M	ECY-39RJ106MV	ECY-39RJ106M
0805	NPO	200	10pF	±0.5pF	0.85	PCC1971CT-ND	1.10	7.85	28.26	47.10	PCC1971TR-ND	4,000	41.00/M	ECJ-2VC2D100D	ECJ-2VC2D100D
			15pF	±5%	0.85	PCC1972CT-ND	1.10	7.85	28.26	47.10	PCC1972TR-ND	4,000	41.00/M	ECJ-2VC2D150J	ECJ-2VC2D150J
			22pF	±5%	0.85	PCC1973CT-ND	1.10	7.85	28.26	47.10	PCC1973TR-ND	4,000	41.00/M	ECJ-2VC2D220J	ECJ-2VC2D220J
			33pF	±5%	0.85	PCC1974CT-ND	1.10	7.85	28.26	47.10	PCC1974TR-ND	4,000	41.00/M	ECJ-2VC2D330J	ECJ-2VC2D330J
			47pF	±5%	0.85	PCC1975CT-ND	1.10	7.85	28.26	47.10	PCC1975TR-ND	4,000	41.00/M	ECJ-2VC2D470J	ECJ-2VC2D470J
			68pF	±5%	1.25	PCC1976CT-ND	3.78	27.00	97.20	162.00	PCC1976TR-ND	2,000	151.00/M	ECJ-2YC2D680J	ECJ-2YC2D680J
			100pF	±5%	1.25	PCC1977CT-ND	3.82	27.25	98.10	163.50	PCC1977TR-ND	2,000	153.00/M	ECJ-2YC2D101J	ECJ-2YC2D101J
			150pF	±5%	1.25	PCC1978CT-ND	3.96	28.25	101.70	169.50	PCC1978TR-ND	2,000	158.00/M	ECJ-2YC2D151J	ECJ-2YC2D151J
			220pF	±5%	1.25	PCC1979CT-ND	3.96	28.25	101.70	169.50	PCC1979TR-ND	2,000	158.00/M	ECJ-2YC2D221J	ECJ-2YC2D221J
			330pF	±5%	1.25	PCC1980CT-ND	3.96	28.25	101.70	169.50	PCC1980TR-ND	2,000	158.00/M	ECJ-2YC2D331J	ECJ-2YC2D331J
		100	10pF	±0.5pF	0.85	PCC1958CT-ND	1.09	7.68	26.53	44.69	PCC1958TR-ND	4,000	36.00/M	ECJ-2VC2A100D	ECJ-2VC2A100D
			15pF	±5%	0.85	PCC1959CT-ND	1.09	7.68	26.53	44.69	PCC1959TR-ND	4,000	36.00/M	ECJ-2VC2A150J	ECJ-2VC2A150J
			22pF	±5%	0.85	PCC1960CT-ND	1.09	7.68	26.53	44.69	PCC1960TR-ND	4,000	36.00/M	ECJ-2VC2A220J	ECJ-2VC2A220J
			33pF	±5%	0.85	PCC1961CT-ND	1.09	7.68	26.53	44.69	PCC1961TR-ND	4,000	36.00/M	ECJ-2VC2A330J	ECJ-2VC2A330J
			47pF	±5%	0.85	PCC1962CT-ND	1.09	7.68	26.53	44.69	PCC1962TR-ND	4,000	36.00/M	ECJ-2VC2A470J	ECJ-2VC2A470J
			68pF	±5%	0.85	PCC1963CT-ND	1.22	8.59	29.67	49.97	PCC1963TR-ND	4,000	41.00/M	ECJ-2VC2A680J	ECJ-2VC2A680J
			100pF	±5%	0.85	PCC1964CT-ND	1.22	8.59	29.67	49.97	PCC1964TR-ND	4,000	41.00/M	ECJ-2VC2A101J	ECJ-2VC2A101J
			150pF	±5%	0.85	PCC1965CT-ND	1.22	8.59	29.67	49.97	PCC1965TR-ND	4,000	41.00/M	ECJ-2VC2A151J	ECJ-2VC2A151J
			220pF	±5%	0.85	PCC1966CT-ND	1.22	8.59	29.67	49.97	PCC1966TR-ND	4,000	41.00/M	ECJ-2VC2A221J	ECJ-2VC2A221J
			330pF	±5%	0.85	PCC1967CT-ND	1.22	8.59	29.67	49.97	PCC1967TR-ND	4,000	41.00/M	ECJ-2VC2A331J	ECJ-2VC2A331J
			470pF	±5%	0.85	PCC1968CT-ND	1.22	8.59	29.67	49.97	PCC1968TR-ND	4,000	41.00/M	ECJ-2VC2A471J	ECJ-2VC2A471J
			680pF	±5%	0.85	PCC1969CT-ND	1.09	7.81	28.11	46.85	PCC1969TR-ND	4,000	41.00/M	ECJ-2VC2A681J	ECJ-2VC2A681J
			1000pF	±5%	0.85	PCC1970CT-ND	1.29	9.24	33.25	55.41	PCC1970TR-ND	4,000	48.00/M	ECJ-2VC2A102J	ECJ-2VC2A102J
		50	0.5pF	±0.25pF	0.60	PCC0R5CNCT-ND*	.97	6.51	22.05	33.60	PCC0R5CNTR-ND	5,000	28.00/M	ECU-V1H0R5CCN	ECJ-2VC1H0R5
			1.0pF	±0.25pF	0.60	PCC010CNCT-ND*	.97	6.51	22.05	33.60	PCC010CNTR-ND	5,000	28.00/M	ECU-V1H010CCN	ECJ-2VC1H010
			1.5pF	±0.25pF	0.60	PCC1R5CNCT-ND*	.97	6.51	22.05	33.60	PCC1R5CNTR-ND	5,000	28.00/M	ECU-V1H1R5CCN	ECJ-2VC1H1R5
			2.0pF	±0.25pF	0.60	PCC020CNCT-ND*	.97	6.51	22.05	33.60	PCC020CNTR-ND	5,000	28.00/M	ECU-V1H020CCN	ECJ-2VC1H020
			3.0pF	±0.25pF	0.60	PCC030CNCT-ND*	.97	6.51	22.05	33.60	PCC030CNTR-ND	5,000	28.00/M	ECU-V1H030CCN	ECJ-2VC1H030
			4.0pF	±0.25pF	0.60	PCC040CNCT-ND*	.97	6.51	22.05	33.60	PCC040CNTR-ND	5,000	28.00/M	ECU-V1H040CCN	ECJ-2VC1H040
			5.0pF	±0.25pF	0.60	PCC050CNCT-ND*	.97	6.51	22.05	33.60	PCC050CNTR-ND	5,000	28.00/M	ECU-V1H050CCN	ECJ-2VC1H050
			6.0pF	±0.5pF	0.60	PCC060CNCT-ND*	.97	6.51	22.05	33.60	PCC060CNTR-ND	5,000	28.00/M	ECU-V1H060DCN	ECJ-2VC1H060
			7.0pF	±0.5pF	0.60	PCC070CNCT-ND*	.97	6.51	22.05	33.60	PCC070CNTR-ND	5,000	28.00/M	ECU-V1H070DCN	ECJ-2VC1H070
			8.0pF	±0.5pF	0.60	PCC080CNCT-ND*	.97	6.51	22.05	33.60	PCC080CNTR-ND	5,000	28.00/M	ECU-V1H080DCN	ECJ-2VC1H080
			9.0pF	±0.5pF	0.60	PCC090CNCT-ND*	.97	6.51	22.05	33.60	PCC090CNTR-ND	5,000	28.00/M	ECU-V1H090DCN	ECJ-2VC1H090
			10pF	±0.5pF	0.60	PCC100CNCT-ND*	.97	6.51	22.05	33.60	PCC100CNTR-ND	5,000	28.00/M	ECU-V1H100DCN	ECJ-2VC1H100
			12pF	±5%	0.60	PCC120CNCT-ND	.97	6.51	22.05	33.60	PCC120CNTR-ND	5,000	28.00/M	ECU-V1H120JCN	ECJ-2VC1H120
			15pF	±5%	0.60	PCC150CNCT-ND*	.97	6.51	22.05	33.60	PCC150CNTR-ND	5,000	28.00/M	ECU-V1H150JCN	ECJ-2VC1H150
			18pF	±5%	0.60	PCC180CNCT-ND	.97	6.51	22.05	33.60	PCC180CNTR-ND	5,000	28.00/M	ECU-V1H180JCN	ECJ-2VC1H180
			22pF	±5%	0.60	PCC220CNCT-ND*	.69	4.65	15.75	24.00	PCC220CNTR-ND	5,000	20.00/M	ECU-V1H220JCN	ECJ-2VC1H220
			27pF	±5%	0.60	PCC270CGCT-ND	.49	3.31	11.21	17.09	PCC270CGTR-ND	5,000	14.00/M	ECU-V1H270JCG	ECJ-2VC1H270
			33pF	±5%	0.60	PCC330CGCT-ND*	.49	3.31	11.21	17.09	PCC330CGTR-ND	5,000	14.00/M	ECU-V1H330JCG	ECJ-2VC1H330
			39pF	±5%	0.60	PCC390CGCT-ND	.49	3.31	11.21	17.09	PCC390CGTR-ND	5,000	14.00/M	ECU-V1H390JCG	ECJ-2VC1H390
			47pF	±5%	0.60	PCC470CGCT-ND*	.49	3.31	11.21	17.09	PCC470CGTR-ND	5,000	14.00/M	ECU-V1H470JCG	ECJ-2VC1H470
			56pF	±5%	0.60	PCC560CGCT-ND	.49	3.31	11.21	17.09	PCC560CGTR-ND	5,000	14.00/M	ECU-V1H560JCG	ECJ-2VC1H560

‡ Reduced DC Bias Voltage Characteristics

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Type	WV DC	Cap.	Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing 10	100	500	1,000	Digi-Key Part No.	Tape & Reel Size	Pricing	Old † Panasonic Part No.	New † Panasonic Part No.
		68pF	±5%	0.60	PCC680CGCT-ND•	.49	3.31	11.21	17.09	PCC680CGTR-ND	5,000	14.00/M	ECU-V1H680JCG	ECJ-2VC1H680J
		82pF	±5%	0.60	PCC820CGCT-ND	.49	3.31	11.21	17.09	PCC820CGTR-ND	5,000	14.00/M	ECU-V1H820JCG	ECJ-2VC1H820J
		100pF	±5%	0.60	PCC101CGCT-ND•	.49	3.31	11.21	17.09	PCC101CGTR-ND	5,000	14.00/M	ECU-V1H101JCG	ECJ-2VC1H101J
		120pF	±5%	0.60	PCC121CGCT-ND•	.49	3.31	11.21	17.09	PCC121CGTR-ND	5,000	14.00/M	ECU-V1H121JCG	ECJ-2VC1H121J
		150pF	±5%	0.60	PCC151CGCT-ND•	.49	3.31	11.21	17.09	PCC151CGTR-ND	5,000	14.00/M	ECU-V1H151JCG	ECJ-2VC1H151J
		180pF	±5%	0.60	PCC181CGCT-ND•	.49	3.31	11.21	17.09	PCC181CGTR-ND	5,000	14.00/M	ECU-V1H181JCG	ECJ-2VC1H181J
		220pF	±5%	0.60	PCC221CGCT-ND•	.49	3.31	11.21	17.09	PCC221CGTR-ND	5,000	14.00/M	ECU-V1H221JCG	ECJ-2VC1H221J
		270pF	±5%	0.60	PCC271CGCT-ND•	.49	3.31	11.21	17.09	PCC271CGTR-ND	5,000	14.00/M	ECU-V1H271JCG	ECJ-2VC1H271J
		330pF	±5%	0.60	PCC331CGCT-ND•	.49	3.31	11.21	17.09	PCC331CGTR-ND	5,000	14.00/M	ECU-V1H331JCG	ECJ-2VC1H331J
		390pF	±5%	0.60	PCC391CGCT-ND•	.49	3.31	11.21	17.09	PCC391CGTR-ND	5,000	14.00/M	ECU-V1H391JCG	ECJ-2VC1H391J
		470pF	±5%	0.60	PCC471CGCT-ND•	.49	3.31	11.21	17.09	PCC471CGTR-ND	5,000	14.00/M	ECU-V1H471JCX	ECJ-2VC1H471J
		560pF	±5%	0.60	PCC561CGCT-ND•	.49	3.31	11.21	17.09	PCC561CGTR-ND	5,000	14.00/M	ECU-V1H561JCX	ECJ-2VC1H561J
		680pF	±5%	0.60	PCC681CGCT-ND•	.49	3.31	11.21	17.09	PCC681CGTR-ND	5,000	14.00/M	ECU-V1H681JCX	ECJ-2VC1H681J
		820pF	±5%	0.60	PCC821CGCT-ND•	.76	5.11	17.30	26.37	PCC821CGTR-ND	5,000	22.00/M	ECU-V1H821JCX	ECJ-2VC1H821J
		1000pF	±5%	0.60	PCC102CGCT-ND•	.76	5.11	17.30	26.37	PCC102CGTR-ND	5,000	22.00/M	ECU-V1H102JCX	ECJ-2VC1H102J
		1200pF	±5%	0.60	PCC2155CT-ND	1.60	10.80	36.59	55.76	PCC2155TR-ND	5,000	45.00/M	ECJ-2VC1H122J	ECJ-2VC1H122J
		1500pF	±5%	0.60	PCC2156CT-ND	1.60	10.80	36.59	55.76	PCC2156TR-ND	5,000	45.00/M	ECJ-2VC1H152J	ECJ-2VC1H152J
		1800pF	±5%	0.60	PCC2157CT-ND	2.14	14.40	48.78	74.34	PCC2157TR-ND	5,000	60.00/M	ECJ-2VC1H182J	ECJ-2VC1H182J
		2200pF	±5%	0.60	PCC2158CT-ND	2.14	14.40	48.78	74.34	PCC2158TR-ND	5,000	60.00/M	ECJ-2VC1H222J	ECJ-2VC1H222J
NP0	50	2700pF	±5%	0.60	PCC2159CT-ND	2.14	14.40	48.78	74.34	PCC2159TR-ND	4,000	60.00/M	ECJ-2VC1H272J	ECJ-2VC1H272J
		220pF	±10%	0.85	PCC1993CT-ND	.73	5.21	18.74	31.23	PCC1993TR-ND	4,000	27.00/M	ECJ-2VB2D221K	ECJ-2VB2D221K
		330pF	±10%	0.85	PCC1994CT-ND	.73	5.21	18.74	31.23	PCC1994TR-ND	4,000	27.00/M	ECJ-2VB2D331K	ECJ-2VB2D331K
		470pF	±10%	0.85	PCC1995CT-ND	.73	5.21	18.74	31.23	PCC1995TR-ND	4,000	27.00/M	ECJ-2VB2D471K	ECJ-2VB2D471K
		680pF	±10%	0.85	PCC1996CT-ND	.73	5.21	18.74	31.23	PCC1996TR-ND	4,000	27.00/M	ECJ-2VB2D681K	ECJ-2VB2D681K
		1000pF	±10%	0.85	PCC1997CT-ND	.73	5.21	18.74	31.23	PCC1997TR-ND	4,000	27.00/M	ECJ-2VB2D102K	ECJ-2VB2D102K
	200	1500pF	±10%	0.85	PCC1998CT-ND	.73	5.21	18.74	31.23	PCC1998TR-ND	4,000	27.00/M	ECJ-2VB2D152K	ECJ-2VB2D152K
		2200pF	±10%	0.85	PCC1999CT-ND	.73	5.21	18.74	31.23	PCC1999TR-ND	4,000	27.00/M	ECJ-2VB2D222K	ECJ-2VB2D222K
		3300pF	±10%	0.85	PCC2000CT-ND	.73	5.21	18.74	31.23	PCC2000TR-ND	4,000	27.00/M	ECJ-2VB2D332K	ECJ-2VB2D332K
		4700pF	±10%	0.85	PCC2001CT-ND	.73	5.21	18.74	31.23	PCC2001TR-ND	4,000	27.00/M	ECJ-2VB2D472K	ECJ-2VB2D472K
		6800pF	±10%	1.25	PCC2002CT-ND	3.43	24.50	88.20	147.00	PCC2002TR-ND	2,000	137.00/M	ECJ-2YB2D682K	ECJ-2YB2D682K
		10000pF	±10%	1.25	PCC2003CT-ND	6.50	47.71	172.55	294.35	PCC2003TR-ND	2,000	274.00/M	ECJ-2YB2D103K	ECJ-2YB2D103K
		220pF	±10%	0.85	PCC1981CT-ND	.66	4.68	16.15	27.20	PCC1981TR-ND	4,000	22.00/M	ECJ-2VB2A221K	ECJ-2VB2A221K
		330pF	±10%	0.85	PCC1982CT-ND	.66	4.68	16.15	27.20	PCC1982TR-ND	4,000	22.00/M	ECJ-2VB2A331K	ECJ-2VB2A331K
		470pF	±10%	0.85	PCC1983CT-ND	.66	4.68	16.15	27.20	PCC1983TR-ND	4,000	22.00/M	ECJ-2VB2A471K	ECJ-2VB2A471K
		680pF	±10%	0.85	PCC1984CT-ND	.66	4.68	16.15	27.20	PCC1984TR-ND	4,000	22.00/M	ECJ-2VB2A681K	ECJ-2VB2A681K
		1000pF	±10%	0.85	PCC1985CT-ND	.66	4.68	16.15	27.20	PCC1985TR-ND	4,000	22.00/M	ECJ-2VB2A102K	ECJ-2VB2A102K
	100	1500pF	±10%	0.85	PCC1986CT-ND	.66	4.68	16.15	27.20	PCC1986TR-ND	4,000	22.00/M	ECJ-2VB2A152K	ECJ-2VB2A152K
		2200pF	±10%	0.85	PCC1987CT-ND	.66	4.68	16.15	27.20	PCC1987TR-ND	4,000	22.00/M	ECJ-2VB2A222K	ECJ-2VB2A222K
		3300pF	±10%	0.85	PCC1988CT-ND	.66	4.68	16.15	27.20	PCC1988TR-ND	4,000	22.00/M	ECJ-2VB2A332K	ECJ-2VB2A332K
		4700pF	±10%	0.85	PCC1989CT-ND	.76	5.39	18.62	31.36	PCC1989TR-ND	4,000	25.00/M	ECJ-2VB2A472K	ECJ-2VB2A472K
		6800pF	±10%	0.85	PCC1990CT-ND	.76	5.39	18.62	31.36	PCC1990TR-ND	4,000	25.00/M	ECJ-2VB2A682K	ECJ-2VB2A682K
		10000pF	±10%	0.85	PCC1991CT-ND	.94	6.72	24.20	40.34	PCC1991TR-ND	4,000	35.00/M	ECJ-2VB2A103K	ECJ-2VB2A103K
		15000pF	±10%	1.25	PCC1992CT-ND	4.27	30.50	109.80	183.00	PCC1992TR-ND	2,000	171.00/M	ECJ-2YB2A153K	ECJ-2YB2A153K
		1000pF	±10%	0.60	PCC102BNCT-ND•	.54	3.66	12.39	18.88	PCC102BNTR-ND	5,000	16.00/M	ECU-V1H102KBN	ECJ-2VB1H102K
		1200pF	±10%	0.60	PCC122BNCT-ND•	.54	3.66	12.39	18.88	PCC122BNTR-ND	5,000	16.00/M	ECU-V1H122KBN	ECJ-2VB1H122K
		1500pF	±10%	0.60	PCC152BNCT-ND•	.54	3.66	12.39	18.88	PCC152BNTR-ND	5,000	16.00/M	ECU-V1H152KBN	ECJ-2VB1H152K
		1800pF	±10%	0.60	PCC182BNCT-ND•	.54	3.66	12.39	18.88	PCC182BNTR-ND	5,000	16.00/M	ECU-V1H182KBN	ECJ-2VB1H182K
		2200pF	±10%	0.60	PCC222BNCT-ND•	.37	2.49	8.42	12.83	PCC222BNTR-ND	5,000	11.00/M	ECU-V1H222KBN	ECJ-2VB1H222K
		2700pF	±10%	0.60	PCC272BNCT-ND•	.54	3.66	12.39	18.88	PCC272BNTR-ND	5,000	16.00/M	ECU-V1H272KBN	ECJ-2VB1H272K
		3300pF	±10%	0.60	PCC332BNCT-ND•	.54	3.66	12.39	18.88	PCC332BNTR-ND	5,000	16.00/M	ECU-V1H332KBN	ECJ-2VB1H332K
		3900pF	±10%	0.60	PCC392BNCT-ND•	.54	3.66	12.39	18.88	PCC392BNTR-ND	5,000	16.00/M	ECU-V1H392KBN	ECJ-2VB1H392K
		4700pF	±10%	0.60	PCC472BNCT-ND•	.37	2.49	8.42	12.83	PCC472BNTR-ND	5,000	11.00/M	ECU-V1H472KBG	ECJ-2VB1H472K
		5600pF	±10%	0.60	PCC562BNCT-ND•	.54	3.66	12.39	18.88	PCC562BNTR-ND	5,000	16.00/M	ECU-V1H562KBG	ECJ-2VB1H562K
		6800pF	±10%	0.60	PCC682BNCT-ND•	.54	3.66	12.39	18.88	PCC682BNTR-ND	5,000	16.00/M	ECU-V1H682KBG	ECJ-2VB1H682K
		8200pF	±10%	0.60	PCC822BNCT-ND•	.54	3.66	12.39	18.88	PCC822BNTR-ND	5,000	16.00/M	ECU-V1H822KBG	ECJ-2VB1H822K
		10000pF	±10%	0.60	PCC103BNCT-ND•	.54	3.66	12.39	18.88	PCC103BNTR-ND	5,000	16.00/M	ECU-V1H103KBG	ECJ-2VB1H103K
		12000pF	±10%	0.60	PCC123BGCT-ND•	.54	3.66	12.39	18.88	PCC123BGTR-ND	5,000	16.00/M	ECU-V1H123KBX	ECJ-2VB1H123K
	50	15000pF	±10%	0.60	PCC153BGCT-ND•	.54	3.66	12.39	18.88	PCC153BGTR-ND	5,000	16.00/M	ECU-V1H153KBX	ECJ-2VB1H153K
		18000pF	±10%	0.60	PCC183BGCT-ND•	.54	3.66	12.39	18.88	PCC183BGTR-ND	5,000	16.00/M	ECU-V1H183KBX	ECJ-2VB1H183K
		22000pF	±10%	0.60	PCC223BGCT-ND•	.37	2.49	8.42	12.83	PCC223BGTR-ND	5,000	11.00/M	ECU-V1H223KBX	ECJ-2VB1H223K
		27000pF	±10%	1.00	PCC273BGCT-ND	.37	2.49	8.42	13.63	PCC273BGTR-ND	4,000	11.00/M	ECU-V1H273KBX	(Not for new design)
X7R		27000pF	±10%	0.85	PCC1833CT-ND•	.43	2.90	9.83	15.91	PCC1833TR-ND	4,000	13.00/M	ECJ-2VB1H273K	ECJ-2VB1H273K
		33000pF	±10%	0.85	PCC1834CT-ND•	.59	3.98	13.47	21.81	PCC1834TR-ND	4,000	17.00/M	ECJ-2VB1H333K	ECJ-2VB1H333K
		39000pF	±10%	0.85	PCC1835CT-ND•	1.00	6.72	22.76	36.86	PCC1835TR-ND	4,000	29.00/M	ECJ-2VB1H393K	ECJ-2VB1H393K
		47000pF	±10%	1.25	PCC1836CT-ND•	1.61	10.85	36.75	59.50	PCC1836TR-ND	2,000	56.00/M	ECJ-2YB1H473K	ECJ-2YB1H473K
		56000pF	±10%	1.25	PCC1837CT-ND•	1.61	10.85	36.75	59.50	PCC1837TR-ND	2,000	56.00/M	ECJ-2YB1H563K	ECJ-2YB1H563K
		68000pF	±10%	1.25	PCC1838CT-ND•	1.61	10.85	36.75	59.50	PCC1838TR-ND	2,000	56.00/M	ECJ-2YB1H683K	ECJ-2YB1H683K
		82000pF	±10%	1.25	PCC1839CT-ND•	1.61	10.85	36.75	59.50	PCC1839TR-ND	2,000	56.00/M	ECJ-2YB1H823K	ECJ-2YB1H823K
		.1µF	±10%	1.25	PCC1840CT-ND•	1.61	10.85	36.75	59.50	PCC1840TR-ND	2,000	56.00/M	ECJ-2YB1H104K	ECJ-2YB1H104K
		39000pF	±10%	0.85	PCC1819CT-ND	1.10	7.44	25.20	40.80	PCC1819TR-ND	4,000	32.00/M	ECJ-2VB1E393K	ECJ-2VB1E393K
		47000pF	±10%	0.85	PCC1820CT-ND	.62	4.19	14.20	22.98	PCC1820TR-ND	4,000	18.00/M	ECJ-2VB1E473K	ECJ-2VB1E473K
		56000pF	±10%	0.85	PCC1825CT-ND	.62	4.19	14.20	22.98	PCC1825TR-ND	4,000	18.00/M	ECJ-2VB1E563K	ECJ-2VB1E563K
		68000pF	±10%	0.85	PCC1826CT-ND	.62	4.19	14.20	22.98	PCC1826TR-ND	4,000	18.00/M	ECJ-2VB1E683K	ECJ-2VB1E683K
		82000pF	±10%	0.85	PCC1827CT-ND	.62	4.19	14.20	22.98	PCC1827TR-ND	4,000	18.00/M	ECJ-2VB1E823K	ECJ-2VB1E823K
	25	.1µF	±10%	0.85	PCC1828CT-ND	.62	4.19	14.20	22.98	PCC1828TR-ND	4,000	18.00/M	ECJ-2VB1E104K	ECJ-2VB1E104K
		.12µF	±10%	1.25	PCC1829CT-ND•	1.44	10.18	35.15	59.20	PCC1829TR-ND	2,000	56.00/M	ECJ-2YB1E124K	ECJ-2YB1E124K
		.15µF	±10%	1.25	PCC1830CT-ND•	1.48	10.45	36.10	60.80	PCC1830TR-ND	2,000	57.00/M	ECJ-2YB1E154K	ECJ-2YB1E154K
		.18µF	±10%	1.25	PCC1831CT-ND•	1.52	10.73	37.05	62.40	PCC1831TR-ND	2,000	59.00/M	ECJ-2YB1E184K	ECJ-2YB1E184K
		.22µF	±10%	1.25	PCC1832CT-ND•	1.91	13.48	46.55	78.40	PCC1832TR-ND	2,000	74.00/M	ECJ-2YB1E224K	ECJ-2YB1E224K
		47000pF	±10%	0.85	PCC1808CT-ND	1.20	8.06	27.30	44.20	PCC1808TR-ND	4,000	35.00/M	ECJ-2VB1C473K	ECJ-2VB1C473K
		56000pF	±10%	0.85	PCC1809CT-ND	1.33	8.99	30.45	49.30	PCC1809TR-ND	4,000	39.00/M	ECJ-2VB1C563K	ECJ-2VB1C563K
		68000pF	±10%	0.85	PCC1810CT-ND	1.25	8.80	30.40	51.20	PCC1810TR-ND	4,000	42.00/M	ECJ-2VB1C683K	ECJ-2VB1C683K
		82000pF	±10%	0.85	PCC1811CT-ND	1.25	8.80	30.40	51.20	PCC1811TR-ND	4,000	42.00/M	ECJ-2VB1C823K	ECJ-2VB1C823K
		.1µF	±10%	0.85	PCC1812CT-ND	.74	5.20	17.97	30.27	PCC1812TR-ND	4,000	25.00/M	ECJ-2VB1C104K	ECJ-2VB1C104K
		.12µF	±10%	0.85	PCC1813CT-ND	1.44	10.18	35.15	59.20	PCC1813TR-ND	4,000	48.00/M	ECJ-2VB1C124K	ECJ-2VB1C124K
		.15µF	±10%	0.85	PCC1814CT-ND	.74	5.20	17.97	30.27	PCC1814TR-ND	4,000	25.00/M	ECJ-2VB1C154K	ECJ-2VB1C154K
		.18µF	±10%	0.85	PCC1815CT-ND	2.07	14.75	53.10	88.50	PCC1815TR-ND	4,000	77.00/M	ECJ-2VB1C184K	ECJ-2VB1C184K
		.22µF	±10%	0.85	PCC1816CT-ND	.66	4.73	17.03	28.38	PCC1816TR-ND	4,000	25.00/M	ECJ-2VB1C224K	ECJ-2VB1C224K
		.27µF	±10%	1.25	PCC1916CT-ND	2.38	17.00	61.20	102.00	PCC1916TR-ND	2,000	95.00/M	ECJ-2YB1C274K	ECJ-2YB1C274K
		.33µF	±10%	1.25	PCC1817CT-ND	2.45	17.50	63.00	105.00	PCC1817TR-ND	2,000	98.00/M	ECJ-2YB1C334K	ECJ-2YB1C334K
		.39µF	±10%	1.25	PCC1917CT-ND	2.38	17.00	61.20	102.00	PCC1917TR-ND	2,000	95.00/M	ECJ-2YB1C394K	ECJ-2YB1C394K
		.47µF	±10%	1.25	PCC1818CT-ND•	2.45	17.50	63.00	105.00	PCC1818TR-ND	2,000	98.00/M	ECJ-2YB1C474K	ECJ-2YB1C474K
		1µF	±10%	1.25	PCC2319CT-ND	1.29	9.23	33.21	51.66	PCC2319TR-ND	3,000	50.00/M	ECJ-2FB1E105K	ECJ-2FB1E105K
	25	2.2µF	±10%	1.25	PCC2320CT-ND	1.65	11.66	40.28	63.60	PCC2320TR-ND	3,000	57.00/M	ECJ-2FB1E225K	ECJ-2FB1E225K
		4.7µF	±20%	1.25	PCC2321CT-ND	2.29	16.36	58.88	91.59	PCC2321TR-ND	3,000	88.00/M	ECJ-2FB1E475M	ECJ-2FB1E475M
		.68µF	±10%	1.25	PCC2290CT-ND	1.28	8.61	29.15	44.42	PCC2290TR-ND	3,000	37.00/M	ECJ-2FB1C684K	ECJ-2FB1C684K
X5R		1µF	±10%	0.85	PCC2314CT-ND	1.43	9.63	32.61	49.70	PCC2314TR-ND	4,000	42.00/M	ECJ-GVB1C105K	ECJ-GVB1C105K
		1µF	±10%	1.25	PCC2249CT-ND	1.28	8.61	29.15	44.42	PCC2249TR-ND	3,000	37.00/M	ECJ-2FB1C105K	ECJ-2FB1C105K
	16	2.2µF	±20%	0.85	PCC2408CT-ND NEW!	2.68	17.34	53.55	76.50	PCC2408TR-ND NEW!	4,000	74.00/M	ECJ-GVB1C225M	ECJ-GVB1C225M
		2.2µF	±10%	1.25	PCC2322CT-ND	1.61	11.33	39.13	61.79	PCC2322TR-ND	3,000	56.00/M	ECJ-2FB1C225K	ECJ-2FB1C225K
		4.7µF	±10%	1.25	PCC2323CT-ND	2.25	16.06	57.80	89.91	PCC2323TR-ND	3,000	87.00/M	ECJ-2FB1C475K	ECJ-2FB1C475K

duced DC Bias Voltage Characteristics

(Continued)

Size Code	Type	WV DC	Cap.	Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing 10	100	500	1,000	Digi-Key Part No.	Tape & Reel Size	Tape & Reel Pricing	Old † Panasonic Part No.	New † Panasonic Part No.
			.56µF	±10%	1.25	PCC1918CT-ND	3.99	28.50	102.60	171.00	PCC1918TR-ND	2,000	160.00/M	ECJ-2YB1A564K	ECJ-2YB1A564K
			.68µF	±10%	1.25	PCC1806CT-ND	4.10	29.25	105.30	175.50	PCC1806TR-ND	2,000	164.00/M	ECJ-2YB1A684K	ECJ-2YB1A684K
			.68µF	±10%	1.25	PCC2289CT-ND	1.15	7.74	26.23	39.97	PCC2289TR-ND	3,000	34.00/M	ECJ-2FB1A684K	ECJ-2FB1A684K
			.82µF	±10%	1.25	PCC1919CT-ND	4.03	29.61	107.10	182.70	PCC1919TR-ND	2,000	170.00/M	ECJ-2YB1A824K	ECJ-2YB1A824K
			1µF	±10%	1.25	PCC1807CT-ND	4.13	30.32	109.65	187.05	PCC1807TR-ND	2,000	174.00/M	ECJ-2YB1A105K	ECJ-2YB1A105K
		10	2.2µF	±20%	1.25	PCC2175CT-ND	2.40	17.13	61.67	102.78	PCC2175TR-ND	3,000	89.00/M	ECJ-2FB1A225M	ECJ-2FB1A225M
			2.2µF	±10%	1.25	PCC2324CT-ND	2.40	17.13	61.67	95.93	PCC2324TR-ND	3,000	93.00/M	ECJ-2FB1A225K	ECJ-2FB1A225K
			3.3µF	±10%	1.25	PCC2288CT-ND	2.40	17.13	61.67	95.93	PCC2288TR-ND	3,000	93.00/M	ECJ-2FB1A335K	ECJ-2FB1A335K
			4.7µF	±20%	0.85	PCC2407CT-ND *NEW!*	3.76	25.25	82.62	128.52	PCC2407TR-ND *NEW!*	4,000	122.00/M	ECJ-GVB1A475M	ECJ-GVB1A475M
			4.7µF	±10%	1.25	PCC2325CT-ND	4.16	29.68	106.86	166.22	PCC2325TR-ND	3,000	160.00/M	ECJ-2FB1A475K	ECJ-2FB1A475K
			10µF	±10%	1.25	PCC2403CT-ND *NEW!*	7.93	52.46	198.17	314.74	PCC2403TR-ND *NEW!*	3,000	310.00/M	ECJ-2FB1A106K	ECJ-2FB1A106K
	X5R		1.5µF	±10%	1.25	PCC1921CT-ND	4.35	31.96	115.60	197.20	PCC1921TR-ND	2,000	184.00/M	ECJ-2YB0J155K	ECJ-2YB0J155K
			2.2µF	±10%	0.85	PCC2310CT-ND	1.79	12.60	43.54	68.75	PCC2310TR-ND	4,000	60.00/M	ECJ-GVB0J225K	ECJ-GVB0J225K
			2.2µF	±10%	1.25	PCC1923CT-ND	4.74	34.78	125.80	214.60	PCC1923TR-ND	2,000	200.00/M	ECJ-2YB0J225K	ECJ-2YB0J225K
			3.3µF	±10%	1.25	PCC1925CT-ND	5.12	37.60	136.00	232.00	PCC1925TR-ND	2,000	216.00/M	ECJ-2YB0J335K	ECJ-2YB0J335K
			4.7µF	±20%	0.85	PCC2315CT-ND	3.18	22.72	81.78	127.22	PCC2315TR-ND	4,000	118.00/M	ECJ-GVB0J475M	ECJ-GVB0J475M
		6.3	4.7µF	±20%	1.25	PCC2176CT-ND	2.77	19.78	71.20	118.67	PCC2176TR-ND	3,000	103.00/M	ECJ-2FB0J475M	ECJ-2FB0J475M
			4.7µF	±10%	1.25	PCC2402CT-ND *NEW!*	3.26	21.84	71.46	111.16	PCC2402TR-ND *NEW!*	3,000	115.00/M	ECJ-2FB0J475K	ECJ-2FB0J475K
			4.7µF	±10%	0.85	PCC2406CT-ND *NEW!*	3.52	23.64	77.37	120.36	PCC2406TR-ND *NEW!*	4,000	114.00/M	ECJ-GVB0J475K	ECJ-GVB0J475K
			10µF	±20%	0.85	PCC2405CT-ND *NEW!*	4.46	29.51	111.47	177.04	PCC2405TR-ND *NEW!*	4,000	170.00/M	ECJ-GVB0J106M	ECJ-GVB0J106M
			10µF	±20%	0.85	PCC2327CT-ND‡	3.89	27.75	99.90	155.40	PCC2327TR-ND‡	4,000	144.00/M	ECJ-CV50J106M	ECJ-CV50J106M
			10µF	±20%	1.25	PCC2225CT-ND	4.47	33.50	119.13	198.05	PCC2225TR-ND	3,000	194.00/M	ECJ-2FB0J106M	ECJ-2FB0J106M
			10µF	±10%	1.25	PCC2400CT-ND *NEW!*	4.76	31.48	118.91	188.85	PCC2400TR-ND *NEW!*	3,000	186.00/M	ECJ-2FB0J106K	ECJ-2FB0J106K
			22µF	±20%	1.25	PCC2401CT-ND *NEW!*	8.31	62.29	221.49	368.22	PCC2401TR-ND *NEW!*	3,000	360.00/M	ECJ-2FB0J226M	ECJ-2FB0J226M
0805		50	10000pF	+80%/-20%	0.60	PCC1858CT-ND	.44	2.95	9.98	15.20	PCC1858TR-ND	5,000	13.00/M	ECJ-2VF1H103Z	ECJ-2VF1H103Z
			15000pF	+80%/-20%	0.60	PCC1859CT-ND	.60	4.03	13.65	20.80	PCC1859TR-ND	5,000	18.00/M	ECJ-2VF1H153Z	ECJ-2VF1H153Z
			22000pF	+80%/-20%	0.60	PCC1860CT-ND	.51	3.42	11.58	17.65	PCC1860TR-ND	5,000	15.00/M	ECJ-2VF1H223Z	ECJ-2VF1H223Z
			33000pF	+80%/-20%	0.60	PCC1861CT-ND	.69	4.65	15.75	24.00	PCC1861TR-ND	5,000	20.00/M	ECJ-2VF1H333Z	ECJ-2VF1H333Z
			47000pF	+80%/-20%	0.60	PCC1862CT-ND	.58	3.94	13.34	20.32	PCC1862TR-ND	5,000	17.00/M	ECJ-2VF1H473Z	ECJ-2VF1H473Z
			68000pF	+80%/-20%	0.60	PCC1863CT-ND	.87	5.89	19.95	30.40	PCC1863TR-ND	5,000	26.00/M	ECJ-2VF1H683Z	ECJ-2VF1H683Z
			.1µF	+80%/-20%	0.85	PCC1864CT-ND	.72	4.84	16.40	26.55	PCC1864TR-ND	4,000	21.00/M	ECJ-2VF1H104Z	ECJ-2VF1H104Z
			.15µF	+80%/-20%	0.85	PCC1865CT-ND	1.47	9.92	33.60	54.40	PCC1865TR-ND	4,000	43.00/M	ECJ-2VF1H154Z	ECJ-2VF1H154Z
			.22µF	+80%/-20%	0.85	PCC1866CT-ND	1.00	6.72	22.76	36.86	PCC1866TR-ND	4,000	29.00/M	ECJ-2VF1H224Z	ECJ-2VF1H224Z
		25	68000pF	+80%/-20%	0.60	PCC1852CT-ND	.87	5.89	19.95	30.40	PCC1852TR-ND	5,000	26.00/M	ECJ-2VF1E683Z	ECJ-2VF1E683Z
			.1µF	+80%/-20%	0.60	PCC1853CT-ND	.52	3.50	11.84	18.05	PCC1853TR-ND	5,000	15.00/M	ECJ-2VF1E104Z	ECJ-2VF1E104Z
			.15µF	+80%/-20%	0.60	PCC1854CT-ND	1.20	8.06	27.30	41.60	PCC1854TR-ND	5,000	35.00/M	ECJ-2VF1E154Z	ECJ-2VF1E154Z
			.22µF	+80%/-20%	0.85	PCC1855CT-ND	.61	4.09	13.84	22.41	PCC1855TR-ND	4,000	18.00/M	ECJ-2VF1E224Z	ECJ-2VF1E224Z
			.33µF	+80%/-20%	1.25	PCC1856CT-ND	2.30	16.23	56.05	94.40	PCC1856TR-ND	2,000	89.00/M	ECJ-2YF1E334Z	ECJ-2YF1E334Z
	Y5V		.47µF	+80%/-20%	1.25	PCC1857CT-ND	2.38	16.78	57.95	97.60	PCC1857TR-ND	2,000	92.00/M	ECJ-2YF1E474Z	ECJ-2YF1E474Z
		16	.1µF	+80%/-20%	0.60	PCC1843CT-ND	.57	3.87	13.10	19.97	PCC1843TR-ND	5,000	17.00/M	ECJ-2VF1C104Z	ECJ-2VF1C104Z
			.15µF	+80%/-20%	0.60	PCC1844CT-ND	1.20	8.06	27.30	41.60	PCC1844TR-ND	5,000	35.00/M	ECJ-2VF1C154Z	ECJ-2VF1C154Z
			.22µF	+80%/-20%	0.60	PCC1845CT-ND	.57	3.87	13.10	19.97	PCC1845TR-ND	5,000	17.00/M	ECJ-2VF1C224Z	ECJ-2VF1C224Z
			.33µF	+80%/-20%	0.85	PCC1846CT-ND	1.61	10.85	36.75	59.50	PCC1846TR-ND	4,000	47.00/M	ECJ-2VF1C334Z	ECJ-2VF1C334Z
			.47µF	+80%/-20%	0.85	PCC1847CT-ND	.56	3.96	13.69	23.06	PCC1847TR-ND	4,000	19.00/M	ECJ-2VF1C474Z	ECJ-2VF1C474Z
			.68µF	+80%/-20%	0.85	PCC1848CT-ND	1.95	13.75	47.50	80.00	PCC1848TR-ND	4,000	65.00/M	ECJ-2VF1C684Z	ECJ-2VF1C684Z
			1µF	+80%/-20%	0.85	PCC1849CT-ND	.72	5.12	18.42	30.71	PCC1849TR-ND	4,000	27.00/M	ECJ-2VF1C105Z	ECJ-2VF1C105Z
			1.5µF	+80%/-20%	1.25	PCC1850CT-ND	3.43	24.50	88.20	147.00	PCC1850TR-ND	2,000	137.00/M	ECJ-2YF1C155Z	ECJ-2YF1C155Z
			2.2µF	+80%/-20%	1.25	PCC1851CT-ND	3.85	27.50	99.00	165.00	PCC1851TR-ND	2,000	154.00/M	ECJ-2YF1C225Z	ECJ-2YF1C225Z
			2.2µF	+80%/-20%	0.85	PCC2410CT-ND *NEW!*	1.80	11.77	38.07	48.46	PCC2410TR-ND *NEW!*	4,000	43.00/M	ECJ-GVF1C225Z	ECJ-GVF1C225Z
			4.7µF	+80%/-20%	0.85	PCC2411CT-ND *NEW!*	2.37	15.36	47.43	67.76	PCC2411TR-ND *NEW!*	4,000	65.00/M	ECJ-GVF1C475Z	ECJ-GVF1C475Z
		10	4.7µF	+80%/-20%	1.25	PCC1842CT-ND	4.42	32.43	117.30	200.10	PCC1842TR-ND	2,000	186.00/M	ECJ-2YF1A475Z	ECJ-2YF1A475Z
			4.7µF	+80%/-20%	0.85	PCC2409CT-ND *NEW!*	2.56	16.72	54.09	68.85	PCC2409TR-ND *NEW!*	4,000	61.00/M	ECJ-GVF1A475Z	ECJ-GVF1A475Z
		6.3	10µF	+80%/-20%	1.25	PCC2182CT-ND	2.00	14.31	51.53	85.88	PCC2182TR-ND	3,000	74.00/M	ECJ-2FF0J106Z	ECJ-2FF0J106Z
		50	1µF	+80%/-20%	1.25	PCC2404CT-ND *NEW!*	1.70	11.15	36.07	45.90	PCC2404TR-ND *NEW!*	3,000	46.00/M	ECJ-2FF1H105Z	ECJ-2FF1H105Z
	F	25	1.0µF	+80%/-20%	1.25	PCC2230CT-ND	.94	6.63	22.90	36.17	PCC2230TR-ND	3,000	32.00/M	ECJ-2FF1E105Z	ECJ-2FF1E105Z
			2.2µF	+80%/-20%	1.25	PCC2231CT-ND	1.02	7.29	26.24	40.81	PCC2231TR-ND	3,000	39.00/M	ECJ-2FF1E225Z	ECJ-2FF1E225Z
		16	4.7µF	+80%/-20%	1.25	PCC2232CT-ND	1.82	13.02	46.87	72.91	PCC2232TR-ND	3,000	69.00/M	ECJ-2FF1C475Z	ECJ-2FF1C475Z
		10	10µF	+80%/-20%	1.25	PCC2233CT-ND	1.94	14.27	51.62	81.99	PCC2233TR-ND	3,000	81.00/M	ECJ-2FF1A106Z	ECJ-2FF1A106Z
		200	470pF	±5%	1.15	PCC2007CT-ND*	5.66	41.60	150.45	256.65	PCC2007TR-ND	2,000	239.00/M	ECJ-3YC2D471J	ECJ-3YC2D471J
			680pF	±5%	1.15	PCC2008CT-ND*	7.07	51.94	187.85	320.45	PCC2008TR-ND	2,000	298.00/M	ECJ-3YC2D681J	ECJ-3YC2D681J
			1000pF	±5%	1.15	PCC2009CT-ND*	8.22	60.40	218.45	372.65	PCC2009TR-ND	2,000	347.00/M	ECJ-3YC2D102J	ECJ-3YC2D102J
		100	1500pF	±5%	0.85	PCC2004CT-ND*	4.44	32.62	117.98	201.26	PCC2004TR-ND	4,000	180.00/M	ECJ-3VC2A152J	ECJ-3VC2A152J
			2200pF	±5%	0.85	PCC2005CT-ND*	4.44	32.62	117.98	201.26	PCC2005TR-ND	4,000	180.00/M	ECJ-3VC2A222J	ECJ-3VC2A222J
			3300pF	±5%	0.85	PCC2006CT-ND*	4.44	32.62	117.98	201.26	PCC2006TR-ND	4,000	180.00/M	ECJ-3VC2A332J	ECJ-3VC2A332J
			.5pF	±0.25pF	0.60	PCC0R5CCT-ND	1.11	7.51	25.42	38.74	PCC0R5CTR-ND	5,000	33.00/M	ECU-V1H0R5CCM	(Not for new des
			3.9pF	±0.25pF	0.60	PCC3R9CCT-ND	.93	6.27	21.25	32.38	PCC3R9CTR-ND	5,000	27.00/M	ECU-V1H3R9CCM	(Not for new des
			5.6pF	±0.25pF	0.60	PCC5R6CCT-ND	1.13	7.59	25.71	39.18	—	—	—	ECU-V1H5R6CCM	(Not for new des
	NPO		56pF	±5%	0.60	PCC560CCT-ND	1.35	9.13	30.91	47.10	PCC560CTR-ND	5,000	40.00/M	ECU-V1H560JCM	(Not for new des
			120pF	±5%	0.60	PCC121CCT-ND	1.35	9.11	30.86	47.02	PCC121CTR-ND	5,000	40.00/M	ECU-V1H121JCH	(Not for new des
		50	2700pF	±5%	0.60	PCC2160CT-ND*	14.04	99.00	342.00	540.00	PCC2160TR-ND	5,000	468.00/M	ECJ-3VC1H272J	ECJ-3VC1H272J
			3300pF	±5%	0.60	PCC2161CT-ND*	5.23	36.88	127.40	201.17	PCC2161TR-ND	5,000	174.00/M	ECJ-3VC1H332J	ECJ-3VC1H332J
			3900pF	±5%	0.60	PCC2162CT-ND*	5.23	36.88	127.40	201.17	PCC2162TR-ND	5,000	174.00/M	ECJ-3VC1H392J	ECJ-3VC1H392J
			4700pF	±5%	0.60	PCC2163CT-ND*	5.23	36.88	127.40	201.17	PCC2163TR-ND	5,000	174.00/M	ECJ-3VC1H472J	ECJ-3VC1H472J
			5600pF	±5%	0.85	PCC2164CT-ND*	9.54	67.28	232.41	366.96	PCC2164TR-ND	4,000	318.00/M	ECJ-3VC1H562J	ECJ-3VC1H562J
			6800pF	±5%	0.85	PCC2165CT-ND*	10.16	71.67	247.57	390.90	PCC2165TR-ND	4,000	339.00/M	ECJ-3VC1H682J	ECJ-3VC1H682J
			8200pF	±5%	1.15	PCC2166CT-ND*	9.89	74.21	263.86	478.25	PCC2166TR-ND	3,000	439.00/M	ECJ-3YC1H822J	ECJ-3FC1H822J
			10000pF	±5%	1.15	PCC2167CT-ND*	15.64	110.31	381.08	601.71	PCC2167TR-ND	3,000	521.49/M	ECJ-3YC1H103J	ECJ-3FC1H103J
1206		630	1000pF	±10%	1.15	PCC2291CT-ND	2.43	17.35	62.47	97.17	PCC2291TR-ND	3,000	94.00/M	ECJ-3FB2J102K	ECJ-3FB2J102K
			2200pF	±10%	1.15	PCC2293CT-ND	2.43	17.35	62.47	97.17	PCC2293TR-ND	3,000	94.00/M	ECJ-3FB2J222K	ECJ-3FB2J222K
			4700pF	±10%	1.15	PCC2294CT-ND	2.43	17.35	62.47	97.17	PCC2294TR-ND	3,000	94.00/M	ECJ-3FB2J472K	ECJ-3FB2J472K
			.01µF	±10%	1.15	PCC2292CT-ND	2.43	17.35	62.47	97.17	PCC2292TR-ND	3,000	94.00/M	ECJ-3FB2J103K	ECJ-3FB2J103K
		200	15000pF	±10%	1.15	PCC2013CT-ND	6.98	51.23	185.30	316.10	PCC2013TR-ND	2,000	294.00/M	ECJ-3YB2D153K	ECJ-3YB2D153K
			22000pF	±10%	1.15	PCC2014CT-ND	6.98	51.23	185.30	316.10	PCC2014TR-ND	2,000	294.00/M	ECJ-3YB2D223K	ECJ-3YB2D223K
		100	22000pF	±10%	1.15	PCC2010CT-ND	4.55	32.50	117.00	195.00	PCC2010TR-ND	2,000	182.00/M	ECJ-3YB2A223K	ECJ-3YB2A223K
			33000pF	±10%	1.15	PCC2011CT-ND	5.04	36.00	129.60	216.00	PCC2011TR-ND	2,000	202.00/M	ECJ-3YB2A333K	ECJ-3YB2A333K
			47000pF	±10%	1.15	PCC2012CT-ND	5.04	36.00	129.60	216.00	PCC2012TR-ND	2,000	202.00/M	ECJ-3YB2A473K	ECJ-3YB2A473K
			0.1µF	±10%	1.60	PCC2239CT-ND	3.16	23.24	84.07	133.52	PCC2239TR-ND	2,000	132.00/M	ECJ-3YB2A104K	ECJ-3YB2A104K
	X7R	50	390pF	±10%	0.60	PCC391BCT-ND	1.08	7.25	24.55	37.41	PCC391BTR-ND	5,000	32.00/M	ECU-V1H391KBM	(Not for new des
			1200pF	±10%	0.60	PCC122BCT-ND	1.17	7.88	26.68	40.66	PCC122BTR-ND	5,000	34.00/M	ECU-V1H122KBM	(Not for new des
			3300pF	±10%	0.60	PCC332BCT-ND	1.18	7.94	26.88	40.96	PCC332BTR-ND	5,000	35.00/M	ECU-V1H332KBM	(Not for new des
			8200pF	±10%	0.60	PCC822BCT-ND	1.44	9.72	32.93	50.18	PCC822BTR-ND	5,000	42.00/M	ECU-V1H822KBM	(Not for new des
			18000pF	±10%	0.60	PCC183BCT-ND	1.73	11.63	39.41	60.05	—	—	—	ECU-V1H183KBM	(Not for new des
			33000pF	±10%	0.60	PCC333BCT-ND	2.13	14.34	48.58	74.03	—	—	—	ECU-V1H333KBW	(Not for new des
			39000pF	±10%	0.60	PCC393BCT-ND	2.17	14.64	49.57	75.54	PCC393BTR-ND	5,000	64.00/M	ECU-V1H393KBW	(Not for new des
			47000pF	±10%	0.60	PCC473BCT-ND	1.91	13.47	46.53	73.47	PCC473BTR-ND	5,000	64.00/M	ECU-V1H473KBW	(Not for new des
			.1µF	±10%	1.00	PCC104BCT-ND	3.96	28.25	101.70	169.50	PCC104BTR-ND	4,000	147.00/M	ECU-V1H104KBW	ECJ-3VB1H104K
			.22µF	±10%	1.60	PCC2299CT-ND	2.27	16.01	55.29	87.30	PCC2299TR-ND	2,000	79.00/M	ECJ-3YB1H224K	ECJ-3YB1H224K
		25	.1µF	±10%	0.85	PCC1883CT-ND	1.69	11.93	41.21	69.41	PCC1883TR-ND	4,000	56.00/M	ECJ-3VB1E104K	ECJ-3VB1E104K
			.12µF	±10%	0.85	PCC1884CT-ND	2.07	14.58	50.35	84.80	PCC1884TR-ND	4,000	69.00/M	ECJ-3VB1E124K	ECJ-3VB1E124K
			.15µF	±10%	0.85	PCC1885CT-ND	1.69	11.93	41.21	69.41	PCC1885TR-ND	4,000	56.00/M	ECJ-3VB1E154K	ECJ-3VB1E154K

‡ Reduced DC Bias Voltage Characteristics

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Type	WV DC	Cap.	Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing 10	100	500	1,000	Digi-Key Part No.	Tape & Reel Size	Pricing	Old † Panasonic Part No.	New † Panasonic Part No.
		.18µF	±10%	0.85	PCC1886CT-ND	2.42	17.05	58.90	99.20	PCC1886TR-ND	4,000	81.00/M	ECJ-3VB1E184K	ECJ-3VB1E184K
		.22µF	±10%	0.85	PCC1887CT-ND	1.69	11.93	41.21	69.41	PCC1887TR-ND	4,000	56.00/M	ECJ-3VB1E224K	ECJ-3VB1E224K
		.27µF	±10%	0.85	PCC1888CT-ND	2.42	17.05	58.90	99.20	PCC1888TR-ND	4,000	81.00/M	ECJ-3VB1E274K	ECJ-3VB1E274K
		.33µF	±10%	0.85	PCC1889CT-ND	1.76	12.40	42.85	72.16	PCC1889TR-ND	4,000	59.00/M	ECJ-3VB1E334K	ECJ-3VB1E334K
		.39µF	±10%	1.15	PCC1890CT-ND	3.36	24.00	86.40	144.00	PCC1890TR-ND	2,000	134.00/M	ECJ-3YB1E394K	ECJ-3YB1E394K
	25	.47µF	±10%	1.15	PCC2412CT-ND **NEW!**	2.19	14.16	43.73	62.48	PCC2412TR-ND **NEW!**	3,000	62.00/M	ECJ-3FB1E474K	ECJ-3FB1E474K
		.47µF	±10%	1.15	PCC1891CT-ND	4.17	29.75	107.10	178.50	PCC1891TR-ND	2,000	167.00/M	ECJ-3YB1E474K	ECJ-3YB1E474K
		.56µF	±10%	1.60	PCC1926CT-ND	4.06	29.00	104.40	174.00	PCC1926TR-ND	2,000	162.00/M	ECJ-3YB1E564K	ECJ-3YB1E564K
		.68µF	±10%	1.60	PCC1892CT-ND	1.58	11.28	40.59	67.65	PCC1892TR-ND	2,000	63.00/M	ECJ-3YB1E684K	ECJ-3YB1E684K
		.82µF	±10%	1.60	PCC1927CT-ND	4.26	31.26	113.05	192.85	PCC1927TR-ND	2,000	180.00/M	ECJ-3YB1E824K	ECJ-3YB1E824K
		1µF	±10%	1.60	PCC1893CT-ND	2.50	18.35	66.38	113.23	PCC1893TR-ND	2,000	105.00/M	ECJ-3YB1E105K	ECJ-3YB1E105K
		.1µF	±10%	0.85	PCC1870CT-ND	1.68	12.02	43.26	72.11	PCC1870TR-ND	4,000	62.00/M	ECJ-3VB1C104K	ECJ-3VB1C104K
		.12µF	±10%	0.85	PCC1871CT-ND	2.42	17.25	62.10	103.50	PCC1871TR-ND	4,000	90.00/M	ECJ-3VB1C124K	ECJ-3VB1C124K
	X7R	.15µF	±10%	0.85	PCC1872CT-ND	1.85	13.24	47.66	79.44	PCC1872TR-ND	4,000	69.00/M	ECJ-3VB1C154K	ECJ-3VB1C154K
		.18µF	±10%	0.85	PCC1873CT-ND	2.66	19.00	68.40	114.00	PCC1873TR-ND	4,000	99.00/M	ECJ-3VB1C184K	ECJ-3VB1C184K
		.22µF	±10%	0.85	PCC1874CT-ND	2.03	14.50	52.18	86.97	PCC1874TR-ND	4,000	75.00/M	ECJ-3VB1C224K	ECJ-3VB1C224K
		.27µF	±10%	0.85	PCC1875CT-ND	2.91	20.75	74.70	124.50	PCC1875TR-ND	4,000	108.00/M	ECJ-3VB1C274K	ECJ-3VB1C274K
		.33µF	±10%	0.85	PCC1876CT-ND	1.24	8.89	32.01	53.36	PCC1876TR-ND	4,000	46.00/M	ECJ-3VB1C334K	ECJ-3VB1C334K
	16	.39µF	±10%	0.85	PCC1877CT-ND	3.50	25.00	90.00	150.00	PCC1877TR-ND	4,000	130.00/M	ECJ-3VB1C394K	ECJ-3VB1C394K
		.47µF	±10%	0.85	PCC1878CT-ND	1.34	9.59	34.52	57.53	PCC1878TR-ND	4,000	50.00/M	ECJ-3VB1C474K	ECJ-3VB1C474K
		.56µF	±10%	0.85	PCC1879CT-ND	3.94	28.91	104.55	178.35	PCC1879TR-ND	4,000	160.00/M	ECJ-3VB1C564K	ECJ-3VB1C564K
		.68µF	±10%	0.85	PCC1880CT-ND	1.37	10.03	36.29	61.90	PCC1880TR-ND	4,000	58.00/M	ECJ-3VB1C684K	ECJ-3VB1C684K
		.82µF	±10%	1.15	PCC1881CT-ND	5.41	39.72	143.65	245.05	PCC1881TR-ND	2,000	228.00/M	ECJ-3YB1C824K	ECJ-3YB1C824K
		.1µF	±10%	1.15	PCC1882CT-ND	6.30	46.30	167.45	285.65	PCC1882TR-ND	2,000	266.00/M	ECJ-3YB1C105K	ECJ-3YB1C105K
		1.5µF	±10%	1.60	PCC1929CT-ND	7.30	53.58	193.80	330.60	PCC1929TR-ND	2,000	308.00/M	ECJ-3YB1C155K	ECJ-3YB1C155K
		2.2µF	±10%	1.60	PCC1931CT-ND	3.64	27.33	97.16	176.10	PCC1931TR-ND	2,000	162.00/M	ECJ-3YB1C225K	ECJ-3YB1C225K
		2.2µF	±10%	1.60	PCC2296CT-ND	3.89	28.54	103.22	163.94	PCC2296TR-ND	2,000	158.00/M	ECJ-3YB1E225K	ECJ-3YB1E225K
		4.7µF	±10%	1.60	PCC2297CT-ND	5.44	39.96	144.53	229.54	PCC2297TR-ND	2,000	221.00/M	ECJ-3YB1E475K	ECJ-3YB1E475K
		4.7µF	±20%	1.60	PCC2241CT-ND	5.10	38.26	136.02	226.14	PCC2241TR-ND	2,000	221.00/M	ECJ-3YB1E475M	ECJ-3YB1E475M
	25	4.7µF	±20%	1.60	PCC2226CT-ND	5.10	38.26	136.02	226.14	PCC2226TR-ND	2,000	221.00/M	ECJ-3YB1C475M	ECJ-3YB1C475M
		10µF	±20%	1.60	PCC2326CT-ND	5.43	39.86	144.16	254.40	PCC2326TR-ND	2,000	229.00/M	ECJ-3YB1E106M	ECJ-3YB1E106M
		10µF	±10%	1.60	PCC2414CT-ND **NEW!**	5.45	36.07	136.25	216.39	PCC2414TR-ND **NEW!**	2,000	216.00/M	ECJ-3YB1E106K	ECJ-3YB1E106K
		1.2µF	±10%	1.60	PCC1932CT-ND	6.53	47.94	173.40	295.80	—	—	—	ECJ-3YB1A125K	(Not for new design)
		1.5µF	±10%	1.60	PCC1867CT-ND	2.86	21.47	76.34	138.37	PCC1867TR-ND	2,000	127.00/M	ECJ-3YB1A155K	ECJ-3YB1A155K
		4.7µF	±10%	1.60	PCC2250CT-ND	5.44	39.96	144.53	229.54	PCC2250TR-ND	2,000	230.00/M	ECJ-3YB1C475K	ECJ-3YB1C475K
	16	10µF	±10%	1.60	PCC2413CT-ND **NEW!**	9.62	72.13	256.46	426.36	PCC2413TR-ND **NEW!**	2,000	426.00/M	ECJ-3YB1C106K	ECJ-3YB1C106K
		10µF	±20%	0.85	PCC2417CT-ND **NEW!**	4.48	30.05	98.36	153.01	PCC2417TR-ND **NEW!**	4,000	145.00/M	ECJ-HVB1C106M	ECJ-HVB1C106M
		10µF	±20%	1.60	PCC2227CT-ND	10.33	77.46	275.40	457.85	PCC2227TR-ND	2,000	448.00/M	ECJ-3YB1C106M	ECJ-3YB1C106M
		22µF	±20%	1.60	PCC2332CT-ND	13.94	105.20	394.50	—	PCC2332TR-ND	2,000	673.00/M	ECJ-3YB1C226M	ECJ-3YB1C226M
		2.2µF	±10%	0.85	PCC2312CT-ND	4.09	30.03	108.60	172.49	PCC2312TR-ND	4,000	166.00/M	ECJ-HVB1A225K	ECJ-HVB1A225K
		2.2µF	±10%	1.60	PCC1868CT-ND	3.59	26.94	95.78	173.59	PCC1868TR-ND	2,000	159.00/M	ECJ-3YB1A225K	ECJ-3YB1A225K
		2.7µF	±10%	1.60	PCC1934CT-ND	8.52	63.90	227.20	411.80	PCC1934TR-ND	2,000	378.00/M	ECJ-3YB1A275K	(Not for new design)
	X5R	3.3µF	±10%	1.60	PCC1869CT-ND	3.59	26.94	95.78	173.59	PCC1869TR-ND	2,000	159.00/M	ECJ-3YB1A335K	ECJ-3YB1A335K
	10	4.7µF	±10%	1.60	PCC2295CT-ND	4.72	34.66	125.36	199.10	PCC2295TR-ND	2,000	199.00/M	ECJ-3YB1A475K	ECJ-3YB1A475K
		4.7µF	±20%	1.60	PCC2177CT-ND	4.42	33.18	117.98	213.85	PCC2177TR-ND	2,000	196.00/M	ECJ-3YB1A475M	ECJ-3YB1A475M
		10µF	±20%	1.60	PCC2178CT-ND	5.38	40.37	143.52	260.13	PCC2178TR-ND	2,000	239.00/M	ECJ-3YB1A106M	ECJ-3YB1A106M
		22µF	±20%	1.60	PCC2331CT-ND	11.85	88.88	316.00	—	PCC2331TR-ND	2,000	514.00/M	ECJ-3YB1A226M	ECJ-3YB1A226M
		4.7µF	±10%	1.60	PCC1936CT-ND	4.16	31.23	111.04	201.26	PCC1936TR-ND	2,000	185.00/M	ECJ-3YB0J475K	ECJ-3YB0J475K
		4.7µF	±10%	0.85	PCC2311CT-ND	4.73	34.74	125.66	199.58	PCC2311TR-ND	4,000	192.00/M	ECJ-HVB0J475K	ECJ-HVB0J475K
		4.7µF	±20%	0.85	PCC2316CT-ND	4.73	34.74	125.66	199.58	PCC2316TR-ND	4,000	192.00/M	ECJ-HVB0J475M	ECJ-HVB0J475M
		5.6µF	±10%	1.60	PCC1937CT-ND	10.20	76.50	272.00	493.00	—	—	—	ECJ-3YB0J565K	(Not for new design)
		6.8µF	±10%	1.60	PCC1938CT-ND	10.20	76.50	272.00	493.00	PCC1938TR-ND	2,000	452.00/M	ECJ-3YB0J685K	ECJ-3YB0J685K
		8.2µF	±10%	1.60	PCC1939CT-ND	11.58	86.85	308.80	559.70	PCC1939TR-ND	2,000	513.00/M	ECJ-3YB0J825K	(Not for new design)
	6.3	10µF	±10%	1.60	PCC1940CT-ND	11.58	86.85	308.80	559.70	PCC1940TR-ND	2,000	513.00/M	ECJ-3YB0J106K	ECJ-3YB0J106K
		10µF	±20%	0.85	PCC2317CT-ND	8.00	59.96	213.21	354.46	PCC2317TR-ND	4,000	341.00/M	ECJ-HVB0J106M	ECJ-HVB0J106M
		10µF	±20%	0.85	PCC2328CT-ND‡	5.82	42.77	154.70	245.70	PCC2328TR-ND‡	4,000	237.00/M	ECJ-DV50J106M	ECJ-DV50J106M
		22µF	±20%	0.85	PCC2329CT-ND‡	10.17	76.28	271.20	450.87	PCC2329TR-ND‡	4,000	434.00/M	ECJ-DV50J226M	ECJ-DV50J226M
		22µF	±20%	1.60	PCC2242CT-ND	12.87	97.16	364.36	631.55	PCC2242TR-ND	2,000	622.00/M	ECJ-3YB0J226M	ECJ-3YB0J226M
		22µF	±20%	0.85	PCC2416CT-ND **NEW!**	12.68	95.08	338.06	562.02	PCC2416TR-ND **NEW!**	4,000	541.00/M	ECJ-HVB0J226M	ECJ-HVB0J226M
		.47µF	+80%/-20%	0.85	PCC1901CT-ND	1.27	8.92	30.83	51.92	PCC1901TR-ND	4,000	42.00/M	ECJ-3VF1E474Z	ECJ-3VF1E474Z
		.68µF	+80%/-20%	1.15	PCC1902CT-ND	2.87	20.50	73.80	123.00	PCC1902TR-ND	2,000	115.00/M	ECJ-3YF1E684Z	ECJ-3YF1E684Z
	25	1µF	+80%/-20%	1.15	PCC1903CT-ND	3.29	23.50	84.60	141.00	PCC1903TR-ND	2,000	132.00/M	ECJ-3YF1E105Z	ECJ-3YF1E105Z
		1.5µF	+80%/-20%	1.15	PCC1904CT-ND	4.19	30.79	111.35	189.95	PCC1904TR-ND	2,000	177.00/M	ECJ-3YF1E155Z	ECJ-3YF1E155Z
		2.2µF	+80%/-20%	1.15	PCC1905CT-ND	4.19	30.79	111.35	189.95	PCC1905TR-ND	2,000	177.00/M	ECJ-3YF1E225Z	ECJ-3YF1E225Z
		.68µF	+80%/-20%	0.85	PCC1895CT-ND	3.71	26.50	95.40	159.00	PCC1895TR-ND	4,000	138.00/M	ECJ-3VF1C684Z	ECJ-3VF1C684Z
		1µF	+80%/-20%	0.85	PCC1896CT-ND	1.22	8.72	31.39	52.32	PCC1896TR-ND	4,000	45.00/M	ECJ-3VF1C105Z	ECJ-3VF1C105Z
Y5V	16	1.5µF	+80%/-20%	0.85	PCC1897CT-ND	4.17	29.75	107.10	178.50	PCC1897TR-ND	4,000	155.00/M	ECJ-3VF1C155Z	(Not for new design)
		2.2µF	+80%/-20%	0.85	PCC1898CT-ND	1.66	11.84	42.62	71.04	PCC1898TR-ND	4,000	62.00/M	ECJ-3VF1C225Z	ECJ-3VF1C225Z
		4.7µF	+80%/-20%	1.15	PCC1900CT-ND	6.75	49.59	179.35	305.95	PCC1900TR-ND	2,000	285.00/M	ECJ-3YF1C475Z	ECJ-3YF1C475Z
		10µF	+80%/-20%	1.25	PCC2420CT-ND **NEW!**	3.35	22.44	73.44	114.24	PCC2420TR-ND **NEW!**	3,000	114.00/M	ECJ-MFF1C106Z	ECJ-MFF1C106Z
		10µF	+80%/-20%	1.60	PCC1894CT-ND	2.89	21.66	77.02	139.61	PCC1894TR-ND	2,000	128.00/M	ECJ-3YF1A106Z	ECJ-3YF1A106Z
	10	10µF	+80%/-20%	1.25	PCC2418CT-ND **NEW!**	3.29	22.04	72.13	112.20	PCC2418TR-ND **NEW!**	3,000	112.00/M	ECJ-MFF1A106Z	ECJ-MFF1A106Z
		22µF	+80%/-20%	1.25	PCC2419CT-ND **NEW!**	4.71	31.15	117.67	186.88	PCC2419TR-ND **NEW!**	3,000	184.00/M	ECJ-MFF1A226Z	ECJ-MFF1A226Z
	50	1.0µF	+80%/-20%	1.15	PCC2234CT-ND	2.13	15.18	54.66	85.02	PCC2234TR-ND	3,000	81.00/M	ECJ-3FF1H105Z	ECJ-3FF1H105Z
	25	4.7µF	+80%/-20%	1.15	PCC2235CT-ND	1.93	14.15	51.18	81.28	PCC2235TR-ND	3,000	80.00/M	ECJ-3FF1E475Z	ECJ-3FF1E475Z
F		10µF	+80%/-20%	1.60	PCC2415CT-ND **NEW!**	3.88	26.05	85.24	132.59	PCC2415TR-ND **NEW!**	2,000	133.00/M	ECJ-3YF1E106Z	ECJ-3YF1E106Z
	16	10µF	+80%/-20%	1.60	PCC2300CT-ND	3.46	24.73	89.01	138.46	PCC2300TR-ND	2,000	134.00/M	ECJ-3YF1C106Z	ECJ-3YF1C106Z
	10	22µF	+80%/-20%	1.60	PCC2236CT-ND	5.21	39.04	138.80	230.76	PCC2236TR-ND	2,000	226.00/M	ECJ-3YF1A226Z	ECJ-3YF1A226Z
		0.22µF	±10%	2.00	PCC2304CT-ND	8.20	61.50	218.66	363.53	PCC2304TR-ND	2,000	364.00/M	ECJ-4YB2A224K	(Not for new design)
		0.47µF	±10%	2.00	PCC2240CT-ND	6.91	50.76	183.58	291.57	PCC2240TR-ND	2,000	287.00/M	ECJ-4YB2A474K	(Not for new design)
	X7R 100	0.68µF	±10%	2.50	PCC2305CT-ND	7.20	54.00	191.99	—	PCC2305TR-ND	1,000	319.00	ECJ-4YB2A684K	(Not for new design)
		0.68µF	±20%	2.50	PCC2247CT-ND	7.20	54.00	191.99	—	PCC2247TR-ND	1,000	319.00	ECJ-4YB2A684M	(Not for new design)
	50	1µF	±10%	2.00	PCC2303CT-ND	5.84	42.90	155.18	246.46	PCC2303TR-ND	2,000	237.00/M	ECJ-4YB1H105K	(Not for new design)
		2.2µF	±10%	2.00	PCC2302CT-ND	6.01	44.16	159.72	253.68	PCC2302TR-ND	2,000	244.00/M	ECJ-4YB1E225K	(Not for new design)
	25	4.7µF	±10%	2.00	PCC2251CT-ND	6.66	48.92	176.96	281.06	PCC2251TR-ND	2,000	281.00/M	ECJ-4YB1E475K	(Not for new design)
		10µF	±20%	2.50	PCC2243CT-ND	12.60	94.49	335.98	—	PCC2243TR-ND	1,000	559.00	ECJ-4YB1E106M	(Not for new design)
		22µF	±20%	2.50	PCC2333CT-ND	26.16	197.40	740.25	—	PCC2333TR-ND	1,000	1283.00	ECJ-4YB1E226M	(Not for new design)
		4.7µF	±10%	2.00	PCC2168CT-ND	5.76	43.18	153.52	278.26	PCC2168TR-ND	2,000	255.00/M	ECJ-4YB1C475K	(Not for new design)
	X5R 16	10µF	±10%	2.00	PCC2169CT-ND	10.77	80.78	287.20	520.55	PCC2169TR-ND	2,000	477.00/M	ECJ-4YB1C106K	(Not for new design)
		22µF	±20%	2.00	PCC2330CT-ND	17.45	131.68	493.81	—	PCC2330TR-ND	1,000	856.00	ECJ-4YB1C226M	(Not for new design)
		47µF	±20%	2.50	PCC2335CT-ND	34.19	258.00	967.50	—	PCC2335TR-ND	1,000	1677.00	ECJ-4YB1C476M	(Not for new design)
		10µF	±10%	2.00	PCC2170CT-ND	8.97	67.28	239.20	433.55	PCC2170TR-ND	2,000	398.00/M	ECJ-4YB1A106K	(Not for new design)
	10	10µF	±20%	1.40	PCC2238CT-ND	7.29	54.65	194.33	323.07	PCC2238TR-ND	2,000	316.00/M	ECJ-8YB1A106M	(Not for new design)
		22µF	±20%	2.50	PCC2228CT-ND	16.09	121.45	455.45	—	PCC2228TR-ND	1,000	789.00	ECJ-4YB1A226M	(Not for new design)
		47µF	±20%	2.50	PCC2334CT-ND	33.13	250.00	937.50	—	PCC2334TR-ND	1,000	1625.00	ECJ-4YB1A476M	(Not for new design)
	X5R 6.3	22µF	±20%	2.50	PCC2179CT-ND	17.18	128.83	458.05	—	PCC2179TR-ND	1,000	762.00	ECJ-4YB0J226M	(Not for new design)
		47µF	±10%	2.50	PCC2301CT-ND	32.18	242.90	910.88	—	PCC2301TR-ND	1,000	1579.00	ECJ-4YB0J476M	(Not for new design)
		100µF	±20%	2.50	PCC2267CT-ND	57.79	436.13	1635.49	—	PCC2267TR-ND	1,000	2835.00	ECJ-4YB0J107M	(Not for new design)
	Y5V 25	10µF	+80%/-20%	1.60	PCC2171CT-ND	6.00	45.01	160.05	290.09	PCC2171TR-ND	2,000	266.00/M	ECJ-4YF1E106Z	(Not for new design)
	10	22µF	+80%/-20%	2.00	PCC2172CT-ND	7.13	53.48	190.16	344.67	PCC2172TR-ND	2,000	316.00/M	ECJ-4YF1A226Z	(Not for new design)

duced DC Bias Voltage Characteristics

(Continued)

Size Code	Type	WV DC	Cap.	Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing 10	100	500	1,000	Digi-Key Part No.	Tape & Reel Size	Tape & Reel Pricing	Old † Panasonic Part No.	New † Panasonic Part No.
1210	F	6.3	47µF	+80%/-20%	2.00	PCC2237CT-ND	16.09	121.45	455.45	789.44	PCC2237TR-ND	2,000	777.00/M	ECJ-4YF0J476Z	(Not for new des
		16	10µF	+80%/-20%	2.00	PCC2306CT-ND	6.18	45.38	164.15	—	PCC2306TR-ND	2,000	261.00/M	ECJ-4YF1C106Z	(Not for new des
			22µF	+80%/-20%	2.00	PCC2307CT-ND	9.86	73.94	262.90	—	PCC2307TR-ND	2,000	437.00/M	ECJ-4YF1C226Z	(Not for new des
		50	4.7µF	+80%/-20%	2.00	PCC2309CT-ND	6.97	52.27	185.86	—	PCC2309TR-ND	2,000	309.00/M	ECJ-4YF1H475Z	(Not for new des
			10µF	+80%/-20%	2.00	PCC2308CT-ND	6.97	52.27	185.86	—	PCC2308TR-ND	2,000	309.00/M	ECJ-4YF1H106Z	(Not for new des
1812	X7R	100	1.0µF	±20%	2.50	PCC2248CT-ND	13.62	102.79	—	—	PCC2248TR-ND	500	385.50	ECJ-5YB2A105M	ECJ-5YB2A105
		25	10µF	±20%	2.50	PCC2180CT-ND	20.82	156.15	—	—	PCC2180TR-ND	500	461.50	ECJ-5YB1E106M	ECJ-5YB1E106
	X5R	16	22µF	±20%	3.20	PCC2244CT-ND	31.80	239.98	—	—	PCC2244TR-ND	500	900.00	ECJ-5YB1C226M	ECJ-5YB1C226
		6.3	47µF	±20%	3.20	PCC2245CT-ND	27.24	205.57	—	—	PCC2245TR-ND	500	771.00	ECJ-5YB0J476M	ECJ-5YB0J476
	Y5V	35	10µF	+80%/-20%	2.50	PCC2183CT-ND	22.26	166.93	—	—	PCC2183TR-ND	500	493.50	ECJ-5YF1V106Z	ECJ-5YF1V106
		16	22µF	+80%/-20%	2.50	PCC2184CT-ND	17.18	128.83	—	—	PCC2184TR-ND	500	381.00	ECJ-5YF1C226Z	ECJ-5YF1C226
	F	6.3	100µF	+80%/-20%	3.20	PCC2246CT-ND	36.78	277.60	—	—	PCC2246TR-ND	500	1041.00	ECJ-5YF0J107Z	ECJ-5YF0J107

‡ Reduced DC Bias Voltage Characteristics

Digi-Key® Notebook Style Kit Boxes

Notebook style kit box with velcro closure can be stored as a normal kit box, or vertically as a book. Each compartment is identified with an easy-to-read kit index.

- **PCC7-KIT-ND** ***0805/NP0 Series Kit*** 10 each of values denoted (300 total pieces) **$29.95**
- **PCC9-KIT-ND** ***0603/NP0 Series Kit*** 10 each of values denoted (300 total pieces) **$29.95**
- **PCC13-KIT-ND** ***0402/NP0 Series Kit*** 10 each of values denoted (280 total pieces) ..... $
- **PCC14-KIT-ND** ***0402/X7R Series Kit*** 10 each of values denoted (300 total pieces) ..... $
- **PCC15-KIT-ND** ***0603/X7R-X5R Series Kit*** 10 each of values denoted (300 total pieces) ..... $
- **PCC16-KIT-ND** ***0805/X7R Series Kit*** 10 each of values denoted (300 total pieces) ..... $
- **PCC17-KIT-ND** ***1206/NP0 Series Kit*** 10 each of values denoted (140 total pieces) ..... $

Panasonic

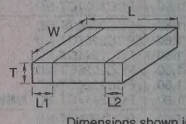
High-Q (Microwave) Multilayer Chip Capacitors 0201 and 0402 High-Accuracy/High-Frequency

E

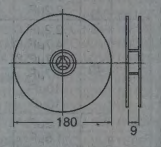
Features:
• Lead Free • Operating Temperature Range: -55°C ~ 125°C • Low Cap. with Tight Tolerance • High Q value / Low ESR at High Frequency. • Ultra-Stable C0G Performance (0±30 ppm/°C) • 0201 and 0402 Miniature Sizes

Applications (At Microwave Freq.): • Impedance Matching Circuit • Resonant Circuit • Coupling Circuit

Application Examples: • RF modules, VCO, BPF, DUP, PA, etc. • Cellular Phone, Bluetooth, Wireless LAN, etc.



Dimensions shown in mm.



Size Code (EIA)	L	W	T	L1 / L
0201	0.60±0.03	0.30±0.03	0.30	0.15±0.
0402	1.00±0.05	0.50±0.05	0.50	0.20±0.

Size Code	Type	WV DC	Cap.	Tolerance	Digi-Key Part No.	Cut Tape Price Each 10	100	500	1,000	Digi-Key Part No.	Tape & Reel Size	Tape & Reel Pricing	Panasonic Part No.
0201	C0G	25	.10pF	±0.05pF	PCC2337CT-ND*	.68	.45	.34	.27	PCC2337TR-ND	15,000	247.00/M	ECD-GZER10
			.20pF	±0.05pF	PCC2338CT-ND*	.68	.45	.34	.27	PCC2338TR-ND	15,000	247.00/M	ECD-GZER20
			.30pF	±0.05pF	PCC2339CT-ND*	.68	.45	.34	.27	PCC2339TR-ND	15,000	247.00/M	ECD-GZER30
			.40pF	±0.05pF	PCC2340CT-ND*	.68	.45	.34	.27	PCC2340TR-ND	15,000	247.00/M	ECD-GZER40
			.50pF	±0.05pF	PCC2341CT-ND*	.68	.45	.34	.27	PCC2341TR-ND	15,000	247.00/M	ECD-GZER50
			.60pF	±0.075pF	PCC2342CT-ND*	.68	.45	.34	.27	PCC2342TR-ND	15,000	247.00/M	ECD-GZER60
			.70pF	±0.075pF	PCC2343CT-ND*	.68	.45	.34	.27	PCC2343TR-ND	15,000	247.00/M	ECD-GZER70
			.80pF	±0.075pF	PCC2344CT-ND*	.68	.45	.34	.27	PCC2344TR-ND	15,000	247.00/M	ECD-GZER80
			.90pF	±0.075pF	PCC2345CT-ND*	.68	.45	.34	.27	PCC2345TR-ND	15,000	247.00/M	ECD-GZER90
			1.0pF	±0.10pF	PCC2346CT-ND*	.68	.45	.34	.27	PCC2346TR-ND	15,000	247.00/M	ECD-GZE1R0
			1.1pF	±0.10pF	PCC2347CT-ND*	.68	.45	.34	.27	PCC2347TR-ND	15,000	247.00/M	ECD-GZE1R1
			1.2pF	±0.10pF	PCC2348CT-ND*	.68	.45	.34	.27	PCC2348TR-ND	15,000	247.00/M	ECD-GZE1R2
			1.3pF	±0.10pF	PCC2349CT-ND*	.68	.45	.34	.27	PCC2349TR-ND	15,000	247.00/M	ECD-GZE1R3
			1.5pF	±0.10pF	PCC2350CT-ND*	.68	.45	.34	.27	PCC2350TR-ND	15,000	247.00/M	ECD-GZE1R5
			1.6pF	±0.10pF	PCC2351CT-ND*	.68	.45	.34	.27	PCC2351TR-ND	15,000	247.00/M	ECD-GZE1R6
			1.8pF	±0.10pF	PCC2352CT-ND*	.68	.45	.34	.27	PCC2352TR-ND	15,000	247.00/M	ECD-GZE1R8
			2.0pF	±0.10pF	PCC2353CT-ND*	.68	.45	.34	.27	PCC2353TR-ND	15,000	247.00/M	ECD-GZE2R0
			2.2pF	±0.10pF	PCC2356CT-ND*	.68	.45	.34	.27	PCC2356TR-ND	15,000	247.00/M	ECD-GZE2R2
			2.4pF	±0.10pF	PCC2357CT-ND*	.68	.45	.34	.27	PCC2357TR-ND	15,000	247.00/M	ECD-GZE2R4
			2.7pF	±0.10pF	PCC2358CT-ND*	.68	.45	.34	.27	PCC2358TR-ND	15,000	247.00/M	ECD-GZE2R7
			3.0pF	±0.10pF	PCC2359CT-ND*	.68	.45	.34	.27	PCC2359TR-ND	15,000	247.00/M	ECD-GZE3R0
			3.3pF	±0.25pF	PCC2360CT-ND*	.34	.22	.14	.10	PCC2360TR-ND	15,000	84.00/M	ECD-GZE3R3
			3.9pF	±0.25pF	PCC2361CT-ND	.34	.22	.14	.10	PCC2361TR-ND	15,000	84.00/M	ECD-GZE3R9
			4.7pF	±0.25pF	PCC2362CT-ND	.34	.22	.14	.10	PCC2362TR-ND	15,000	84.00/M	ECD-GZE4R7
0402	C0G	25	.10pF	±0.05pF	PCC2190CT-ND†	.50	.33	.25	.20	PCC2190TR-ND	10,000	181.00/M	ECD-G0ER10
			.20pF	±0.05pF	PCC2192CT-ND†	.50	.33	.25	.20	PCC2192TR-ND	10,000	181.00/M	ECD-G0ER20
			.30pF	±0.05pF	PCC2194CT-ND†	.50	.33	.25	.20	PCC2194TR-ND	10,000	181.00/M	ECD-G0ER30
			.35pF	±0.05pF	PCC2195CT-ND	.65	.46	.32	.25	—	—	—	ECD-G0ER35
			.40pF	±0.05pF	PCC2196CT-ND†	.50	.33	.25	.20	PCC2196TR-ND	10,000	181.00/M	ECD-G0ER40
			.50pF	±0.05pF	PCC2198CT-ND†	.50	.33	.25	.20	PCC2198TR-ND	10,000	181.00/M	ECD-G0ER50
			.55pF	±0.075pF	PCC2199CT-ND	.65	.46	.32	.25	PCC2199TR-ND	10,000	206.00/M	ECD-G0ER55
			.60pF	±0.075pF	PCC2200CT-ND†	.50	.33	.25	.20	PCC2200TR-ND	10,000	181.00/M	ECD-G0ER60
			.70pF	±0.075pF	PCC2202CT-ND†	.50	.33	.25	.20	PCC2202TR-ND	10,000	181.00/M	ECD-G0ER70
			.80pF	±0.075pF	PCC2204CT-ND†	.50	.33	.25	.20	PCC2204TR-ND	10,000	181.00/M	ECD-G0ER80
			.90pF	±0.075pF	PCC2206CT-ND†	.50	.33	.25	.20	PCC2206TR-ND	10,000	181.00/M	ECD-G0ER90
			1.0pF	±0.10pF	PCC2252CT-ND†	.50	.33	.25	.20	PCC2252TR-ND	10,000	181.00/M	ECD-G0E1R0
			1.1pF	±0.10pF	PCC2209CT-ND†	.50	.33	.25	.20	PCC2209TR-ND	10,000	181.00/M	ECD-G0E1R1
			1.2pF	±0.10pF	PCC2210CT-ND†	.50	.33	.25	.20	PCC2210TR-ND	10,000	181.00/M	ECD-G0E1R2
			1.3pF	±0.10pF	PCC2211CT-ND†	.50	.33	.25	.20	PCC2211TR-ND	10,000	181.00/M	ECD-G0E1R3
			1.5pF	±0.10pF	PCC2213CT-ND†	.50	.33	.25	.20	PCC2213TR-ND	10,000	181.00/M	ECD-G0E1R5
			1.6pF	±0.10pF	PCC2214CT-ND†	.50	.33	.25	.20	PCC2214TR-ND	10,000	181.00/M	ECD-G0E1R6
			1.8pF	±0.10pF	PCC2216CT-ND†	.50	.33	.25	.20	PCC2216TR-ND	10,000	181.00/M	ECD-G0E1R8
			2.0pF	±0.10pF	PCC2218CT-ND†	.50	.33	.25	.20	PCC2218TR-ND	10,000	181.00/M	ECD-G0E2R0
			2.2pF	±0.10pF	PCC2253CT-ND†	.50	.33	.25	.20	PCC2253TR-ND	10,000	181.00/M	ECD-G0E2R2
			2.4pF	±0.10pF	PCC2254CT-ND†	.50	.33	.25	.20	PCC2254TR-ND	10,000	181.00/M	ECD-G0E2R4
			2.7pF	±0.10pF	PCC2255CT-ND†	.50	.33	.25	.20	PCC2255TR-ND	10,000	181.00/M	ECD-G0E2R7
			3.0pF	±0.10pF	PCC2256CT-ND†	.50	.33	.25	.20	PCC2256TR-ND	10,000	181.00/M	ECD-G0E3R0
			3.3pF	±0.25pF	PCC2258CT-ND†	.50	.33	.25	.20	PCC2258TR-ND	10,000	181.00/M	ECD-G0E3R3
			3.9pF	±0.25pF	PCC2259CT-ND†	.50	.33	.25	.20	PCC2259TR-ND	10,000	181.00/M	ECD-G0E3R9
			4.7pF	±0.25pF	PCC2260CT-ND†	.50	.33	.25	.20	PCC2260TR-ND	10,000	181.00/M	ECD-G0E4R7
			5.6pF	±0.25pF	PCC2261CT-ND†	.50	.33	.25	.20	PCC2261TR-ND	10,000	181.00/M	ECD-G0E5R6
			6.8pF	±0.25pF	PCC2262CT-ND†	.50	.33	.25	.20	PCC2262TR-ND	10,000	181.00/M	ECD-G0E6R8
			8.2pF	±0.25pF	PCC2263CT-ND†	.50	.33	.25	.20	PCC2263TR-ND	10,000	181.00/M	ECD-G0E8R2
			10.0pF	±0.25pF	PCC2264CT-ND†	.50	.33	.25	.20	PCC2264TR-ND	10,000	181.00/M	ECD-G0E100
			12pF	±5%	PCC2265CT-ND†	.50	.33	.25	.20	PCC2265TR-ND	10,000	181.00/M	ECD-G0E120
			15pF	±5%	PCC2266CT-ND†	.50	.33	.25	.20	PCC2266TR-ND	10,000	181.00/M	ECD-G0E150

*PCC19-KIT-ND ***NEW! Digi-Key® 0201/High-Q Series Kit*** 20 each of 21 values denoted (420 total pieces) ..... $

†PCC20-KIT-ND ***NEW! Digi-Key® 0402/High-Q Series Kit*** 20 each of 30 values denoted (600 total pieces) ..... $

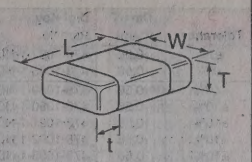
AVX Multilayer Ceramic Chip Capacitors

(NP0) Dielectric: • EIA Class I ceramic materials • C0G (NP0) ceramics offer one of the most stable capacitor ectrics available • Capacitance change with temperature is 0 ±30ppm/°C which is less than ±0.3% Δ C from -55°C ~ °C • Operating temperature range: -55°C ~ 125°C

Dielectric: • X7R formulations are called "temperature stable" ceramics and fall into EIA Class II materials • Its perature variation of capacitance is within ±15% from -55°C ~ 125°C • Operating temperature range: -55°C ~ 125°C

Dielectric: • General purpose dielectric for ceramic capacitors • EIA Class II dielectric • Temperature variation of acitance is within ±15% from -55°C ~ 85°C • Operating temperature range: -55°C ~ 85°C

Dielectric: • Y5V formulations are for general purpose use in a limited temperature range • They have a wide perature characteristic of +22%-82% capacitance change over the operating temperature range of -30°C ~ 85°C



Size Code	L	W	t
0201	0.60±0.03	0.30±0.03	0.15±0.05
0402	1.00±0.10	0.50±0.10	0.25±0.15
0603	1.60±0.15	0.81±0.15	0.35±0.15
0805	2.01±0.20	1.25±0.20	0.50±0.25
1206	3.20±0.20	1.60±0.20	0.50±0.25
1210	3.20±0.20	2.50±0.20	0.50±0.25
1812	4.50±0.30	3.20±0.20	0.61±0.36

Size Code	Type	WV DC	Capacitance	Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Digi-Key Part No.	Tape & Reel Size	Pricing	AVX Part No.
			.5pF	±.25pF	0.33	478-1000-1-ND	2.75	16.25	46.88	478-1000-2-ND	15,000	45.00/M	02013A0R5CAT2A
			1.0pF	±.25pF	0.33	478-1001-1-ND	2.75	16.25	46.88	478-1001-2-ND	15,000	45.00/M	02013A1R0CAT2A
			1.2pF	±.25pF	0.33	478-1002-1-ND	4.95	29.25	84.38	478-1002-2-ND	15,000	81.00/M	02013A1R2CAT2A
			1.5pF	±.25pF	0.33	478-1003-1-ND	2.75	16.25	46.88	478-1003-2-ND	15,000	45.00/M	02013A1R5CAT2A
			1.8pF	±.25pF	0.33	478-1004-1-ND	4.95	29.25	84.38	478-1004-2-ND	15,000	81.00/M	02013A1R8CAT2A
			2.2pF	±.25pF	0.33	478-1005-1-ND	4.95	29.25	84.38	478-1005-2-ND	15,000	81.00/M	02013A2R2CAT2A
			2.7pF	±.25pF	0.33	478-1006-1-ND	4.95	29.25	84.38	478-1006-2-ND	15,000	81.00/M	02013A2R7CAT2A
			3.3pF	±.25pF	0.33	478-1007-1-ND	4.95	29.25	84.38	478-1007-2-ND	15,000	81.00/M	02013A3R3CAT2A
			3.9pF	±.25pF	0.33	478-1008-1-ND	4.95	29.25	84.38	478-1008-2-ND	15,000	81.00/M	02013A3R9CAT2A
			4.7pF	±.25pF	0.33	478-1009-1-ND	4.95	29.25	84.38	478-1009-2-ND	15,000	81.00/M	02013A4R7CAT2A
		25V	5.6pF	±.25pF	0.33	478-1010-1-ND	4.95	29.25	84.38	478-1010-2-ND	15,000	81.00/M	02013A5R6CAT2A
			6.8pF	±.25pF	0.33	478-1011-1-ND	4.95	29.25	84.38	478-1011-2-ND	15,000	81.00/M	02013A6R8CAT2A
	C0G		8.2pF	±.25pF	0.33	478-1012-1-ND	4.95	29.25	84.38	478-1012-2-ND	15,000	81.00/M	02013A8R2CAT2A
	(NP0)		9.0pF	±.25pF	0.33	478-1013-1-ND	2.75	16.25	46.88	478-1013-2-ND	15,000	45.00/M	02013A9R0CAT2A
			10pF	±5%	0.33	478-1014-1-ND	2.75	16.25	46.88	478-1014-2-ND	15,000	45.00/M	02013A100JAT2A
			12pF	±5%	0.33	478-1015-1-ND	2.75	16.25	46.88	478-1015-2-ND	15,000	45.00/M	02013A120JAT2A
			15pF	±5%	0.33	478-1016-1-ND	2.75	16.25	46.88	478-1016-2-ND	15,000	45.00/M	02013A150JAT2A
			18pF	±5%	0.33	478-1017-1-ND	2.75	16.25	46.88	478-1017-2-ND	15,000	45.00/M	02013A180JAT2A
			22pF	±5%	0.33	478-1018-1-ND	2.75	16.25	46.88	478-1018-2-ND	15,000	45.00/M	02013A220JAT2A
			27pF	±5%	0.33	478-1019-1-ND	2.75	16.25	46.88	478-1019-2-ND	15,000	45.00/M	02013A270JAT2A
			33pF	±5%	0.33	478-1020-1-ND	2.75	16.25	46.88	478-1020-2-ND	15,000	45.00/M	02013A330JAT2A
			39pF	±5%	0.33	478-1021-1-ND	2.75	16.25	46.88	478-1021-2-ND	15,000	45.00/M	0201YA390JAT2A
		16V	47pF	±5%	0.33	478-1022-1-ND	2.75	16.25	46.88	478-1022-2-ND	15,000	45.00/M	0201YA470JAT2A
			56pF	±5%	0.33	478-1023-1-ND	2.75	16.25	46.88	478-1023-2-ND	15,000	45.00/M	0201YA560JAT2A
			68pF	±5%	0.33	478-1024-1-ND	2.75	16.25	46.88	478-1024-2-ND	15,000	45.00/M	0201YA680JAT2A
		10V	82pF	±5%	0.33	478-1025-1-ND	2.75	16.25	46.88	478-1025-2-ND	15,000	45.00/M	0201ZA820JAT2A
			100pF	±5%	0.33	478-1026-1-ND	5.50	32.50	93.75	478-1026-2-ND	15,000	90.00/M	0201ZA101JAT2A
201			100pF	±10%	0.33	478-1027-1-ND	4.95	29.25	84.38	478-1027-2-ND	15,000	81.00/M	0201YC101KAT2A
			120pF	±10%	0.33	478-1028-1-ND	4.95	29.25	84.38	478-1028-2-ND	15,000	81.00/M	0201YC121KAT2A
			150pF	±10%	0.33	478-1029-1-ND	2.75	16.25	46.88	478-1029-2-ND	15,000	45.00/M	0201YC151KAT2A
			180pF	±10%	0.33	478-1030-1-ND	4.95	29.25	84.38	478-1030-2-ND	15,000	81.00/M	0201YC181KAT2A
			220pF	±10%	0.33	478-1031-1-ND	2.75	16.25	46.88	478-1031-2-ND	15,000	45.00/M	0201YC221KAT2A
			270pF	±10%	0.33	478-1032-1-ND	4.95	29.25	84.38	478-1032-2-ND	15,000	81.00/M	0201YC271KAT2A
	X7R	16V	330pF	±10%	0.33	478-1033-1-ND	2.75	16.25	46.88	478-1033-2-ND	15,000	45.00/M	0201YC331KAT2A
			390pF	±10%	0.33	478-1034-1-ND	4.95	29.25	84.38	478-1034-2-ND	15,000	81.00/M	0201YC391KAT2A
			470pF	±10%	0.33	478-1035-1-ND	2.75	16.25	46.88	478-1035-2-ND	15,000	45.00/M	0201YC471KAT2A
			560pF	±10%	0.33	478-1036-1-ND	5.28	31.20	90.00	478-1036-2-ND	15,000	86.00/M	0201YC561KAT2A
			680pF	±10%	0.33	478-1037-1-ND	2.75	16.25	46.88	478-1037-2-ND	15,000	45.00/M	0201YC681KAT2A
			820pF	±10%	0.33	478-1038-1-ND	5.28	31.20	90.00	478-1038-2-ND	15,000	86.00/M	0201YC821KAT2A
			1000pF	±10%	0.33	478-1039-1-ND	2.75	16.25	46.88	478-1039-2-ND	15,000	45.00/M	0201YC102KAT2A
			1200pF	±10%	0.33	478-1040-1-ND	6.05	35.75	103.13	478-1040-2-ND	15,000	99.00/M	0201ZD122KAT2A
			1500pF	±10%	0.33	478-1041-1-ND	6.05	35.75	103.13	478-1041-2-ND	15,000	99.00/M	0201ZD152KAT2A
			1800pF	±10%	0.33	478-1042-1-ND	6.05	35.75	103.13	478-1042-2-ND	15,000	99.00/M	0201ZD182KAT2A
			2200pF	±10%	0.33	478-1043-1-ND	6.60	39.00	112.50	478-1043-2-ND	15,000	108.00/M	0201ZD222KAT2A
			2700pF	±10%	0.33	478-1044-1-ND	6.60	39.00	112.50	478-1044-2-ND	15,000	108.00/M	0201ZD272KAT2A
			3300pF	±10%	0.33	478-1045-1-ND	2.75	16.25	46.88	478-1045-2-ND	15,000	45.00/M	0201ZD332KAT2A
	X5R	10V	3900pF	±10%	0.33	478-1046-1-ND	6.60	39.00	112.50	478-1046-2-ND	15,000	108.00/M	0201ZD392KAT2A
			4700pF	±10%	0.33	478-1047-1-ND	2.75	16.25	46.88	478-1047-2-ND	15,000	45.00/M	0201ZD472KAT2A
			5600pF	±10%	0.33	478-1048-1-ND	7.15	42.25	121.88	478-1048-2-ND	15,000	117.00/M	0201ZD562KAT2A
			6800pF	±10%	0.33	478-1049-1-ND	2.75	16.25	46.88	478-1049-2-ND	15,000	45.00/M	0201ZD682KAT2A
			8200pF	±10%	0.33	478-1050-1-ND	7.70	45.50	131.25	478-1050-2-ND	15,000	126.00/M	0201ZD822KAT2A
			.01µF	±10%	0.33	478-1051-1-ND	2.75	16.25	46.88	478-1051-2-ND	15,000	45.00/M	0201ZD103KAT2A
		10V	.01µF	+80 -20%	0.33	478-1052-1-ND	8.25	48.75	140.63	478-1052-2-ND	15,000	135.00/M	0201ZG103ZAT2A
			.015µF	+80 -20%	0.33	478-1053-1-ND	8.25	48.75	140.63	478-1053-2-ND	15,000	135.00/M	02016G153ZAT2A
	Y5V	6.3V	.022µF	+80 -20%	0.33	478-1054-1-ND	8.25	48.75	140.63	478-1054-2-ND	15,000	135.00/M	02016G223ZAT2A
			.033µF	+80 -20%	0.33	478-1055-1-ND	8.25	48.75	140.63	478-1055-2-ND	15,000	135.00/M	02016G333ZAT2A
			.047µF	+80 -20%	0.33	478-1056-1-ND	8.25	48.75	140.63	478-1056-2-ND	15,000	135.00/M	02016G473ZAT2A
			.5pF	±.25pF	0.56	478-1057-1-ND	3.30	19.50	56.25	478-1057-2-ND	10,000	54.00/M	04025A0R5CAT2A
			1.0pF	±.25pF	0.56	478-1058-1-ND	1.10	6.50	18.75	478-1058-2-ND	10,000	18.00/M	04025A1R0CAT2A
			1.2pF	±.25pF	0.56	478-1059-1-ND	4.40	26.00	75.00	478-1059-2-ND	10,000	72.00/M	04025A1R2CAT2A
			1.5pF	±.25pF	0.56	478-1060-1-ND	1.10	6.50	18.75	478-1060-2-ND	10,000	18.00/M	04025A1R5CAT2A
			1.8pF	±.25pF	0.56	478-1061-1-ND	4.40	26.00	75.00	478-1061-2-ND	10,000	72.00/M	04025A1R8CAT2A
			2.2pF	±.25pF	0.56	478-1062-1-ND	4.40	26.00	75.00	478-1062-2-ND	10,000	72.00/M	04025A2R2CAT2A
			2.7pF	±.25pF	0.56	478-1063-1-ND	4.40	26.00	75.00	478-1063-2-ND	10,000	72.00/M	04025A2R7CAT2A
			3.3pF	±.25pF	0.56	478-1064-1-ND	3.30	19.50	56.25	478-1064-2-ND	10,000	54.00/M	04025A3R3CAT2A
			3.9pF	±.25pF	0.56	478-1065-1-ND	4.40	26.00	75.00	478-1065-2-ND	10,000	72.00/M	04025A3R9CAT2A
			4.7pF	±.25pF	0.56	478-1066-1-ND	4.40	26.00	75.00	478-1066-2-ND	10,000	72.00/M	04025A4R7CAT2A
			5.6pF	±.25pF	0.56	478-1067-1-ND	4.40	26.00	75.00	478-1067-2-ND	10,000	72.00/M	04025A5R6CAT2A
			6.8pF	±.25pF	0.56	478-1068-1-ND	4.40	26.00	75.00	478-1068-2-ND	10,000	72.00/M	04025A6R8CAT2A
			8.2pF	±.25pF	0.56	478-1069-1-ND	3.30	19.50	56.25	478-1069-2-ND	10,000	54.00/M	04025A8R2CAT2A
			10pF	±5%	0.56	478-1070-1-ND	1.10	6.50	18.75	478-1070-2-ND	10,000	18.00/M	04025A100JAT2A
402	C0G	50V	12pF	±5%	0.56	478-1071-1-ND	1.10	6.50	18.75	478-1071-2-ND	10,000	18.00/M	04025A120JAT2A
	(NP0)		15pF	±5%	0.56	478-1072-1-ND	1.10	6.50	18.75	478-1072-2-ND	10,000	18.00/M	04025A150JAT2A
			18pF	±5%	0.56	478-1073-1-ND	1.10	6.50	18.75	478-1073-2-ND	10,000	18.00/M	04025A180JAT2A
			22pF	±5%	0.56	478-1074-1-ND	1.10	6.50	18.75	478-1074-2-ND	10,000	18.00/M	04025A220JAT2A
			27pF	±5%	0.56	478-1075-1-ND	1.10	6.50	18.75	478-1075-2-ND	10,000	18.00/M	04025A270JAT2A
			33pF	±5%	0.56	478-1076-1-ND	1.10	6.50	18.75	478-1076-2-ND	10,000	18.00/M	04025A330JAT2A
			39pF	±5%	0.56	478-1077-1-ND	1.10	6.50	18.75	478-1077-2-ND	10,000	18.00/M	04025A390JAT2A
			47pF	±5%	0.56	478-1078-1-ND	1.10	6.50	18.75	478-1078-2-ND	10,000	18.00/M	04025A470JAT2A
			56pF	±5%	0.56	478-1079-1-ND	1.10	6.50	18.75	478-1079-2-ND	10,000	18.00/M	04025A560JAT2A
			68pF	±5%	0.56	478-1080-1-ND	1.10	6.50	18.75	478-1080-2-ND	10,000	18.00/M	04025A680JAT2A
			82pF	±5%	0.56	478-1081-1-ND	3.30	19.50	56.25	478-1081-2-ND	10,000	54.00/M	04025A820JAT2A
			100pF	±5%	0.56	478-1082-1-ND	2.75	16.25	46.88	478-1082-2-ND	10,000	45.00/M	04025A101JAT2A
			120pF	±5%	0.56	478-1083-1-ND	1.10	6.50	18.75	478-1083-2-ND	10,000	18.00/M	04025A121JAT2A
			150pF	±5%	0.56	478-1084-1-ND	1.10	6.50	18.75	478-1084-2-ND	10,000	18.00/M	04025A151JAT2A
			180pF	±5%	0.56	478-1085-1-ND	1.10	6.50	18.75	478-1085-2-ND	10,000	18.00/M	04025A181JAT2A
			220pF	±5%	0.56	478-1086-1-ND	3.30	19.50	56.25	478-1086-2-ND	10,000	54.00/M	04025A221JAT2A

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Size Code	Type	WV DC	Capacitance	Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Digi-Key Part No.	Tape & Reel Size	Pricing	AVX Part No.
	C0G (NP0)	25V	270pF	±5%	0.56	478-1087-1-ND	6.60	39.00	112.50	478-1087-2-ND	10,000	108.00/M	04023A271JAT2A
			330pF	±5%	0.56	478-1088-1-ND	6.60	39.00	112.50	478-1088-2-ND	10,000	108.00/M	04023A331JAT2A
			100pF	±10%	0.56	478-1089-1-ND	2.20	13.00	37.50	478-1089-2-ND	10,000	36.00/M	04025C101KAT2A
			120pF	±10%	0.56	478-1090-1-ND	1.10	6.50	18.75	478-1090-2-ND	10,000	18.00/M	04025C121KAT2A
			150pF	±10%	0.56	478-1091-1-ND	1.10	6.50	18.75	478-1091-2-ND	10,000	18.00/M	04025C151KAT2A
			180pF	±10%	0.56	478-1092-1-ND	1.10	6.50	18.75	478-1092-2-ND	10,000	18.00/M	04025C181KAT2A
			220pF	±10%	0.56	478-1093-1-ND	3.30	19.50	56.25	478-1093-2-ND	10,000	54.00/M	04025C221KAT2A
			270pF	±10%	0.56	478-1094-1-ND	3.30	19.50	56.25	478-1094-2-ND	10,000	54.00/M	04025C271KAT2A
			330pF	±10%	0.56	478-1095-1-ND	3.30	19.50	56.25	478-1095-2-ND	10,000	54.00/M	04025C331KAT2A
			390pF	±10%	0.56	478-1096-1-ND	1.10	6.50	18.75	478-1096-2-ND	10,000	18.00/M	04025C391KAT2A
			470pF	±10%	0.56	478-1097-1-ND	3.30	19.50	56.25	478-1097-2-ND	10,000	54.00/M	04025C471KAT2A
			560pF	±10%	0.56	478-1098-1-ND	1.10	6.50	18.75	478-1098-2-ND	10,000	18.00/M	04025C561KAT2A
			680pF	±10%	0.56	478-1099-1-ND	1.10	6.50	18.75	478-1099-2-ND	10,000	18.00/M	04025C681KAT2A
			820pF	±10%	0.56	478-1100-1-ND	1.10	6.50	18.75	478-1100-2-ND	10,000	18.00/M	04025C821KAT2A
			1000pF	±10%	0.56	478-1101-1-ND	1.10	6.50	18.75	478-1101-2-ND	10,000	18.00/M	04025C102KAT2A
			1200pF	±10%	0.56	478-1102-1-ND	1.10	6.50	18.75	478-1102-2-ND	10,000	18.00/M	04025C122KAT2A
			1500pF	±10%	0.56	478-1103-1-ND	3.30	19.50	56.25	478-1103-2-ND	10,000	54.00/M	04025C152KAT2A
			1800pF	±10%	0.56	478-1104-1-ND	3.30	19.50	56.25	478-1104-2-ND	10,000	54.00/M	04025C182KAT2A
			2200pF	±10%	0.56	478-1105-1-ND	2.75	16.25	46.88	478-1105-2-ND	10,000	45.00/M	04025C222KAT2A
			2700pF	±10%	0.56	478-1106-1-ND	3.30	19.50	56.25	478-1106-2-ND	10,000	54.00/M	04025C272KAT2A
			3300pF	±10%	0.56	478-1107-1-ND	1.10	6.50	18.75	478-1107-2-ND	10,000	18.00/M	04025C332KAT2A
			3900pF	±10%	0.56	478-1108-1-ND	3.30	19.50	56.25	478-1108-2-ND	10,000	54.00/M	04025C392KAT2A
			4700pF	±10%	0.56	478-1109-1-ND	1.10	6.50	18.75	478-1109-2-ND	10,000	18.00/M	04025C472KAT2A
			5600pF	±10%	0.56	478-1110-1-ND	2.20	13.00	37.50	478-1110-2-ND	10,000	36.00/M	04025C562KAT2A
			6800pF	±10%	0.56	478-1111-1-ND	2.20	13.00	37.50	478-1111-2-ND	10,000	36.00/M	04025C682KAT2A
			8200pF	±10%	0.56	478-1112-1-ND	2.20	13.00	37.50	478-1112-2-ND	10,000	36.00/M	04025C822KAT2A
0402		25V	.01µF	±10%	0.56	478-1113-1-ND	3.30	19.50	56.25	478-1113-2-ND	10,000	54.00/M	04023C103KAT2A
		16V	.01µF	±10%	0.56	478-1114-1-ND	1.10	6.50	18.75	478-1114-2-ND	10,000	18.00/M	0402YC103KAT2A
			.012µF	±10%	0.56	478-1115-1-ND	1.10	6.50	18.75	478-1115-2-ND	10,000	18.00/M	0402YC123KAT2A
			.015µF	±10%	0.56	478-1116-1-ND	1.10	6.50	18.75	478-1116-2-ND	10,000	18.00/M	0402YC153KAT2A
			.018µF	±10%	0.56	478-1117-1-ND	1.10	6.50	18.75	478-1117-2-ND	10,000	18.00/M	0402YC183KAT2A
			.022µF	±10%	0.56	478-1118-1-ND	1.10	6.50	18.75	478-1118-2-ND	10,000	18.00/M	0402YC223KAT2A
		10V	.027µF	±10%	0.56	478-1119-1-ND	4.18	24.70	71.25	478-1119-2-ND	10,000	68.00/M	0402ZC273KAT2A
			.033µF	±10%	0.56	478-1120-1-ND	4.40	26.00	75.00	478-1120-2-ND	10,000	72.00/M	0402ZC333KAT2A
			.039µF	±10%	0.56	478-1121-1-ND	4.40	26.00	75.00	478-1121-2-ND	10,000	72.00/M	0402ZC393KAT2A
	X5R	16V	.027µF	±10%	0.56	478-1122-1-ND	1.10	6.50	18.75	478-1122-2-ND	10,000	18.00/M	0402YD273KAT2A
			.033µF	±10%	0.56	478-1123-1-ND	1.10	6.50	18.75	478-1123-2-ND	10,000	18.00/M	0402YD333KAT2A
			.039µF	±10%	0.56	478-1124-1-ND	1.10	6.50	18.75	478-1124-2-ND	10,000	18.00/M	0402YD393KAT2A
			.047µF	±10%	0.56	478-1125-1-ND	1.10	6.50	18.75	478-1125-2-ND	10,000	18.00/M	0402YD473KAT2A
			.10µF	±10%	0.56	478-1126-1-ND	6.05	35.75	103.13	478-1126-2-ND	10,000	99.00/M	0402YD104KAT2A
		10V	.068µF	±10%	0.56	478-1128-1-ND	1.10	6.50	18.75	478-1128-2-ND	10,000	18.00/M	0402ZD683KAT2A
			.10µF	±10%	0.56	478-1129-1-ND	1.10	6.50	18.75	478-1129-2-ND	10,000	18.00/M	0402ZD104KAT2A
		6.3V	.15µF	±10%	0.56	478-1130-1-ND	6.60	39.00	112.50	478-1130-2-ND	10,000	108.00/M	04026D154KAT2A
			.18µF	±10%	0.56	478-1131-1-ND	7.70	45.50	131.25	478-1131-2-ND	10,000	126.00/M	04026D184KAT2A
			.22µF	±10%	0.56	478-1132-1-ND	6.60	39.00	112.50	478-1132-2-ND	10,000	108.00/M	04026D224KAT2A
			1.0µF	±10%	0.56	478-2583-1-ND **NEW!**	5.50	32.50	93.75	478-2583-2-ND **NEW!**	10,000	90.00/M	04026D105KAT2A
	Y5V	50V	.01µF	+80 -20%	0.56	478-1133-1-ND	2.20	13.00	37.50	478-1133-2-ND	10,000	36.00/M	04025G103ZAT2A
			.022µF	+80 -20%	0.56	478-1134-1-ND	2.20	13.00	37.50	478-1134-2-ND	10,000	36.00/M	04025G223ZAT2A
			.033µF	+80 -20%	0.56	478-1135-1-ND	4.95	29.25	84.38	—	—	—	04025G333ZAT2A
		16V	.047µF	+80 -20%	0.56	478-1136-1-ND	2.20	13.00	37.50	478-1136-2-ND	10,000	36.00/M	0402YG473ZAT2A
			.068µF	+80 -20%	0.56	478-1137-1-ND	2.20	13.00	37.50	478-1137-2-ND	10,000	36.00/M	0402YG683ZAT2A
			.10µF	+80 -20%	0.56	478-1138-1-ND	2.20	13.00	37.50	478-1138-2-ND	10,000	36.00/M	0402YG104ZAT2A
		10V	.22µF	+80 -20%	0.56	478-1139-1-ND	2.20	13.00	37.50	478-1139-2-ND	10,000	36.00/M	0402ZG224ZAT2A
	C0G (NP0)	100V	10pF	±5%	0.86	478-1140-1-ND	3.85	22.75	65.63	478-1140-2-ND	4,000	63.00/M	06031A100JAT2A
			15pF	±5%	0.86	478-1141-1-ND	1.10	6.50	18.75	478-1141-2-ND	4,000	18.00/M	06031A150JAT2A
			22pF	±5%	0.86	478-1142-1-ND	1.10	6.50	18.75	478-1142-2-ND	4,000	18.00/M	06031A220JAT2A
			33pF	±5%	0.86	478-1143-1-ND	1.10	6.50	18.75	478-1143-2-ND	4,000	18.00/M	06031A330JAT2A
			47pF	±5%	0.86	478-1144-1-ND	1.10	6.50	18.75	478-1144-2-ND	4,000	18.00/M	06031A470JAT2A
			68pF	±5%	0.86	478-1145-1-ND	1.10	6.50	18.75	478-1145-2-ND	4,000	18.00/M	06031A680JAT2A
			100pF	±5%	0.86	478-1146-1-ND	1.10	6.50	18.75	478-1146-2-ND	4,000	18.00/M	06031A101JAT2A
			150pF	±5%	0.86	478-1147-1-ND	4.95	29.25	84.38	478-1147-2-ND	4,000	81.00/M	06031A151JAT2A
			220pF	±5%	0.86	478-1148-1-ND	4.95	29.25	84.38	478-1148-2-ND	4,000	81.00/M	06031A221JAT2A
			330pF	±5%	0.86	478-1149-1-ND	5.50	32.50	93.75	478-1149-2-ND	4,000	90.00/M	06031A331JAT2A
			.5pF	±.25pF	0.86	478-1150-1-ND	2.09	12.35	35.63	478-1150-2-ND	4,000	34.00/M	06035A0R5CAT2A
			1.0pF	±.25pF	0.86	478-1151-1-ND	2.09	12.35	35.63	478-1151-2-ND	4,000	34.00/M	06035A1R0CAT2A
			1.2pF	±.25pF	0.86	478-1152-1-ND	2.09	12.35	35.63	478-1152-2-ND	4,000	34.00/M	06035A1R2CAT2A
			1.5pF	±.25pF	0.86	478-1153-1-ND	2.09	12.35	35.63	478-1153-2-ND	4,000	34.00/M	06035A1R5CAT2A
			1.8pF	±.25pF	0.86	478-1154-1-ND	2.09	12.35	35.63	478-1154-2-ND	4,000	34.00/M	06035A1R8CAT2A
			2.2pF	±.25pF	0.86	478-1155-1-ND	2.09	12.35	35.63	478-1155-2-ND	4,000	34.00/M	06035A2R2CAT2A
			2.7pF	±.25pF	0.86	478-1156-1-ND	2.09	12.35	35.63	478-1156-2-ND	4,000	34.00/M	06035A2R7CAT2A
			3.3pF	±.25pF	0.86	478-1157-1-ND	2.09	12.35	35.63	478-1157-2-ND	4,000	34.00/M	06035A3R3CAT2A
			3.9pF	±.25pF	0.86	478-1158-1-ND	2.09	12.35	35.63	478-1158-2-ND	4,000	34.00/M	06035A3R9CAT2A
			4.7pF	±.25pF	0.86	478-1159-1-ND	2.09	12.35	35.63	478-1159-2-ND	4,000	34.00/M	06035A4R7CAT2A
0603			5.6pF	±.25pF	0.86	478-1160-1-ND	2.09	12.35	35.63	478-1160-2-ND	4,000	34.00/M	06035A5R6CAT2A
			6.8pF	±.25pF	0.86	478-1161-1-ND	2.09	12.35	35.63	478-1161-2-ND	4,000	34.00/M	06035A6R8CAT2A
			8.2pF	±.25pF	0.86	478-1162-1-ND	2.09	12.35	35.63	478-1162-2-ND	4,000	34.00/M	06035A8R2CAT2A
			10pF	±5%	0.86	478-1163-1-ND	1.87	11.05	31.88	478-1163-2-ND	4,000	31.00/M	06035A100JAT2A
			12pF	±5%	0.86	478-1164-1-ND	1.65	9.75	28.13	478-1164-2-ND	4,000	27.00/M	06035A120JAT2A
		50V	15pF	±5%	0.86	478-1165-1-ND	1.10	6.50	18.75	478-1165-2-ND	4,000	18.00/M	06035A150JAT2A
			18pF	±5%	0.86	478-1166-1-ND	2.09	12.35	35.63	478-1166-2-ND	4,000	34.00/M	06035A180JAT2A
			22pF	±5%	0.86	478-1167-1-ND	1.10	6.50	18.75	478-1167-2-ND	4,000	18.00/M	06035A220JAT2A
			27pF	±5%	0.86	478-1168-1-ND	1.10	6.50	18.75	478-1168-2-ND	4,000	18.00/M	06035A270JAT2A
			33pF	±5%	0.86	478-1169-1-ND	1.65	9.75	28.13	478-1169-2-ND	4,000	27.00/M	06035A330JAT2A
			39pF	±5%	0.86	478-1170-1-ND	2.09	12.35	35.63	478-1170-2-ND	4,000	34.00/M	06035A390JAT2A
			47pF	±5%	0.86	478-1171-1-ND	1.10	6.50	18.75	478-1171-2-ND	4,000	18.00/M	06035A470JAT2A
			56pF	±5%	0.86	478-1172-1-ND	2.09	12.35	35.63	478-1172-2-ND	4,000	34.00/M	06035A560JAT2A
			68pF	±5%	0.86	478-1173-1-ND	2.20	13.00	37.50	478-1173-2-ND	4,000	36.00/M	06035A680JAT2A
			82pF	±5%	0.86	478-1174-1-ND	2.09	12.35	35.63	478-1174-2-ND	4,000	34.00/M	06035A820JAT2A
			100pF	±5%	0.86	478-1175-1-ND	1.10	6.50	18.75	478-1175-2-ND	4,000	18.00/M	06035A101JAT2A
			120pF	±5%	0.86	478-1176-1-ND	2.20	13.00	37.50	478-1176-2-ND	4,000	36.00/M	06035A121JAT2A
			150pF	±5%	0.86	478-1177-1-ND	1.10	6.50	18.75	478-1177-2-ND	4,000	18.00/M	06035A151JAT2A
			180pF	±5%	0.86	478-1178-1-ND	1.10	6.50	18.75	478-1178-2-ND	4,000	18.00/M	06035A181JAT2A
			220pF	±5%	0.86	478-1179-1-ND	2.20	13.00	37.50	478-1179-2-ND	4,000	36.00/M	06035A221JAT2A
			270pF	±5%	0.86	478-1180-1-ND	1.10	6.50	18.75	478-1180-2-ND	4,000	18.00/M	06035A271JAT2A
			330pF	±5%	0.86	478-1181-1-ND	2.20	13.00	37.50	478-1181-2-ND	4,000	36.00/M	06035A331JAT2A

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ze de	Type	WV DC	Capacitance	Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Digi-Key Part No.	Tape & Reel Size	Pricing	AVX Part No.
			390pF	±5%	0.86	478-1182-1-ND	2.20	13.00	37.50	478-1182-2-ND	4,000	36.00/M	06035A391JAT2A
			470pF	±5%	0.86	478-1183-1-ND	1.10	6.50	18.75	478-1183-2-ND	4,000	18.00/M	06035A471JAT2A
		50V	560pF	±5%	0.86	478-1184-1-ND	2.20	13.00	37.50	478-1184-2-ND	4,000	36.00/M	06035A561JAT2A
	C0G (NP0)		680pF	±5%	0.86	478-1185-1-ND	2.20	13.00	37.50	478-1185-2-ND	4,000	36.00/M	06035A681JAT2A
			820pF	±5%	0.86	478-1186-1-ND	2.75	16.25	46.88	478-1186-2-ND	4,000	45.00/M	06035A821JAT2A
			1000pF	±5%	0.86	478-1187-1-ND	1.10	6.50	18.75	478-1187-2-ND	4,000	18.00/M	06035A102JAT2A
		25V	1200pF	±5%	0.86	478-1188-1-ND	7.15	42.25	121.88	478-1188-2-ND	4,000	117.00/M	06033A122JAT2A
			1500pF	±5%	0.86	478-1189-1-ND	7.15	42.25	121.88	478-1189-2-ND	4,000	117.00/M	06033A152JAT2A
			220pF	±10%	0.86	478-1190-1-ND	1.10	6.50	18.75	478-1190-2-ND	4,000	18.00/M	06032C221KAT2A
			330pF	±10%	0.86	478-1191-1-ND	1.10	6.50	18.75	478-1191-2-ND	4,000	18.00/M	06032C331KAT2A
		200V	470pF	±10%	0.86	478-1192-1-ND	1.10	6.50	18.75	478-1192-2-ND	4,000	18.00/M	06032C471KAT2A
			680pF	±10%	0.86	478-1193-1-ND	1.10	6.50	18.75	478-1193-2-ND	4,000	18.00/M	06032C681KAT2A
			1000pF	±10%	0.86	478-1194-1-ND	1.10	6.50	18.75	478-1194-2-ND	4,000	18.00/M	06032C102KAT2A
			220pF	±10%	0.86	478-1195-1-ND	1.10	6.50	18.75	478-1195-2-ND	4,000	18.00/M	06031C221KAT2A
			330pF	±10%	0.86	478-1196-1-ND	1.10	6.50	18.75	478-1196-2-ND	4,000	18.00/M	06031C331KAT2A
			470pF	±10%	0.86	478-1197-1-ND	1.10	6.50	18.75	478-1197-2-ND	4,000	18.00/M	06031C471KAT2A
			680pF	±10%	0.86	478-1198-1-ND	1.10	6.50	18.75	478-1198-2-ND	4,000	18.00/M	06031C681KAT2A
			1000pF	±10%	0.86	478-1199-1-ND	1.10	6.50	18.75	478-1199-2-ND	4,000	18.00/M	06031C102KAT2A
		100V	1500pF	±10%	0.86	478-1200-1-ND	4.95	29.25	84.38	478-1200-2-ND	4,000	81.00/M	06031C152KAT2A
			2200pF	±10%	0.86	478-1201-1-ND	4.95	29.25	84.38	478-1201-2-ND	4,000	81.00/M	06031C222KAT2A
			3300pF	±10%	0.86	478-1202-1-ND	4.95	29.25	84.38	478-1202-2-ND	4,000	81.00/M	06031C332KAT2A
			4700pF	±10%	0.86	478-1203-1-ND	4.95	29.25	84.38	478-1203-2-ND	4,000	81.00/M	06031C472KAT2A
			6800pF	±10%	0.86	478-1204-1-ND	4.95	29.25	84.38	478-1204-2-ND	4,000	81.00/M	06031C682KAT2A
			.01µF	±10%	0.86	478-1205-1-ND	4.95	29.25	84.38	478-1205-2-ND	4,000	81.00/M	06031C103KAT2A
			180pF	±10%	0.86	478-1206-1-ND	2.09	12.35	35.63	478-1206-2-ND	4,000	34.00/M	06035C181KAT2A
			220pF	±10%	0.86	478-1207-1-ND	2.09	12.35	35.63	478-1207-2-ND	4,000	34.00/M	06035C221KAT2A
			270pF	±10%	0.86	478-1208-1-ND	2.09	12.35	35.63	478-1208-2-ND	4,000	34.00/M	06035C271KAT2A
			330pF	±10%	0.86	478-1209-1-ND	2.09	12.35	35.63	478-1209-2-ND	4,000	34.00/M	06035C331KAT2A
			390pF	±10%	0.86	478-1210-1-ND	2.09	12.35	35.63	478-1210-2-ND	4,000	34.00/M	06035C391KAT2A
			470pF	±10%	0.86	478-1211-1-ND	2.09	12.35	35.63	478-1211-2-ND	4,000	34.00/M	06035C471KAT2A
			560pF	±10%	0.86	478-1212-1-ND	2.09	12.35	35.63	478-1212-2-ND	4,000	34.00/M	06035C561KAT2A
			680pF	±10%	0.86	478-1213-1-ND	2.09	12.35	35.63	478-1213-2-ND	4,000	34.00/M	06035C681KAT2A
			820pF	±10%	0.86	478-1214-1-ND	2.09	12.35	35.63	478-1214-2-ND	4,000	34.00/M	06035C821KAT2A
			1000pF	±10%	0.86	478-1215-1-ND	.88	5.20	15.00	478-1215-2-ND	4,000	14.00/M	06035C102KAT2A
	X7R		1200pF	±10%	0.86	478-1216-1-ND	1.10	6.50	18.75	478-1216-2-ND	4,000	18.00/M	06035C122KAT2A
			1500pF	±10%	0.86	478-1217-1-ND	1.10	6.50	18.75	478-1217-2-ND	4,000	18.00/M	06035C152KAT2A
			1800pF	±10%	0.86	478-1218-1-ND	1.10	6.50	18.75	478-1218-2-ND	4,000	18.00/M	06035C182KAT2A
			2200pF	±10%	0.86	478-1219-1-ND	1.10	6.50	18.75	478-1219-2-ND	4,000	18.00/M	06035C222KAT2A
		50V	2700pF	±10%	0.86	478-1220-1-ND	1.10	6.50	18.75	478-1220-2-ND	4,000	18.00/M	06035C272KAT2A
			3300pF	±10%	0.86	478-1221-1-ND	2.20	13.00	37.50	478-1221-2-ND	4,000	36.00/M	06035C332KAT2A
			3900pF	±10%	0.86	478-1222-1-ND	1.10	6.50	18.75	478-1222-2-ND	4,000	18.00/M	06035C392KAT2A
			4700pF	±10%	0.86	478-1223-1-ND	1.87	11.05	31.88	478-1223-2-ND	4,000	31.00/M	06035C472KAT2A
			5600pF	±10%	0.86	478-1224-1-ND	1.10	6.50	18.75	478-1224-2-ND	4,000	18.00/M	06035C562KAT2A
03			6800pF	±10%	0.86	478-1225-1-ND	2.09	12.35	35.63	478-1225-2-ND	4,000	34.00/M	06035C682KAT2A
			8200pF	±10%	0.86	478-1226-1-ND	1.10	6.50	18.75	478-1226-2-ND	4,000	18.00/M	06035C822KAT2A
			.01µF	±10%	0.86	478-1227-1-ND	.88	5.20	15.00	478-1227-2-ND	4,000	14.00/M	06035C103KAT2A
			.012µF	±10%	0.86	478-1228-1-ND	1.10	6.50	18.75	478-1228-2-ND	4,000	18.00/M	06035C123KAT2A
			.015µF	±10%	0.86	478-1229-1-ND	1.10	6.50	18.75	478-1229-2-ND	4,000	18.00/M	06035C153KAT2A
			.018µF	±10%	0.86	478-1230-1-ND	1.10	6.50	18.75	478-1230-2-ND	4,000	18.00/M	06035C183KAT2A
			.022µF	±10%	0.86	478-1231-1-ND	1.10	6.50	18.75	478-1231-2-ND	4,000	18.00/M	06035C223KAT2A
			.027µF	±10%	0.86	478-1232-1-ND	1.10	6.50	18.75	478-1232-2-ND	4,000	18.00/M	06035C273KAT2A
			.033µF	±10%	0.86	478-1233-1-ND	1.10	6.50	18.75	478-1233-2-ND	4,000	18.00/M	06035C333KAT2A
			.039µF	±10%	0.86	478-1234-1-ND	1.10	6.50	18.75	478-1234-2-ND	4,000	18.00/M	06035C393KAT2A
		25V	.047µF	±10%	0.86	478-1235-1-ND	1.10	6.50	18.75	478-1235-2-ND	4,000	18.00/M	06033C473KAT2A
			.056µF	±10%	0.86	478-1236-1-ND	1.10	6.50	18.75	478-1236-2-ND	4,000	18.00/M	0603YC563KAT2A
			.068µF	±10%	0.86	478-1237-1-ND	1.10	6.50	18.75	478-1237-2-ND	4,000	18.00/M	0603YC683KAT2A
		16V	.082µF	±10%	0.86	478-1238-1-ND	1.10	6.50	18.75	478-1238-2-ND	4,000	18.00/M	0603YC823KAT2A
			.10µF	±10%	0.86	478-1239-1-ND	.88	5.20	15.00	478-1239-2-ND	4,000	14.00/M	0603YC104KAT2A
			.12µF	±10%	0.86	478-1240-1-ND	3.85	22.75	65.63	478-1240-2-ND	4,000	63.00/M	0603ZC124KAT2A
			.15µF	±10%	0.86	478-1241-1-ND	3.85	22.75	65.63	478-1241-2-ND	4,000	63.00/M	0603ZC154KAT2A
		10V	.18µF	±10%	0.86	478-1242-1-ND	4.40	26.00	75.00	478-1242-2-ND	4,000	72.00/M	0603ZC184KAT2A
			.22µF	±10%	0.86	478-1243-1-ND	1.10	6.50	18.75	478-1243-2-ND	4,000	18.00/M	0603ZC224KAT2A
		25V	.10µF	±10%	0.86	478-1244-1-ND	3.85	22.75	65.63	478-1244-2-ND	4,000	63.00/M	06033D104KAT2A
			.22µF	±10%	0.86	478-1245-1-ND	4.95	29.25	84.38	478-1245-2-ND	4,000	81.00/M	06033D224KAT2A
			.22µF	±10%	0.86	478-1246-1-ND	4.40	26.00	75.00	478-1246-2-ND	4,000	72.00/M	0603YD224KAT2A
		16V	.33µF	±10%	0.86	478-1247-1-ND	1.87	11.05	31.88	478-1247-2-ND	4,000	31.00/M	0603YD334KAT2A
			.47µF	±10%	0.86	478-1248-1-ND	1.87	11.05	31.88	478-1248-2-ND	4,000	31.00/M	0603YD474KAT2A
	X5R		1.0µF	±10%	0.86	478-1249-1-ND	2.20	13.00	37.50	478-1249-2-ND	4,000	36.00/M	0603YD105KAT2A
		10V	.68µF	±10%	0.86	478-1250-1-ND	2.20	13.00	37.50	478-1250-2-ND	4,000	36.00/M	0603ZD684KAT2A
			1.0µF	±10%	0.86	478-1251-1-ND	1.76	10.40	30.00	478-1251-2-ND	4,000	29.00/M	0603ZD105KAT2A
			1.0µF	±10%	0.86	478-2581-1-ND **NEW!**	6.60	39.00	112.50	478-2581-2-ND **NEW!**	4,000	108.00/M	06036D105KAT2A
		6.3V	2.2µF	±10%	0.86	478-1252-1-ND	4.40	26.00	75.00	478-1252-2-ND	4,000	72.00/M	06036D225KAT2A
			4.7µF	±20%	0.86	478-2582-1-ND **NEW!**	8.80	52.00	150.00	478-2582-2-ND **NEW!**	4,000	144.00/M	06036D475MAT2A
		4V	4.7µF	±10%	0.94	478-1253-1-ND	6.60	39.00	112.50	478-1253-2-ND	4,000	108.00/M	06034D475KAT2A
			.01µF	+80 -20%	0.86	478-1254-1-ND	1.10	6.50	18.75	478-1254-2-ND	4,000	18.00/M	06035G103ZAT2A
			.022µF	+80 -20%	0.86	478-1255-1-ND	1.10	6.50	18.75	478-1255-2-ND	4,000	18.00/M	06035G223ZAT2A
		50V	.033µF	+80 -20%	0.86	478-1256-1-ND	1.10	6.50	18.75	478-1256-2-ND	4,000	18.00/M	06035G333ZAT2A
			.047µF	+80 -20%	0.86	478-1257-1-ND	1.10	6.50	18.75	478-1257-2-ND	4,000	18.00/M	06035G473ZAT2A
			.068µF	+80 -20%	0.86	478-1258-1-ND	1.10	6.50	18.75	478-1258-2-ND	4,000	18.00/M	06035G683ZAT2A
	Y5V		.10µF	+80 -20%	0.86	478-1259-1-ND	1.10	6.50	18.75	478-1259-2-ND	4,000	18.00/M	06033G104ZAT2A
		25V	.15µF	+80 -20%	0.86	478-1260-1-ND	2.20	13.00	37.50	478-1260-2-ND	4,000	36.00/M	06033G154ZAT2A
			.22µF	+80 -20%	0.86	478-1261-1-ND	1.10	6.50	18.75	478-1261-2-ND	4,000	18.00/M	06033G224ZAT2A
			.33µF	+80 -20%	0.86	478-1262-1-ND	2.20	13.00	37.50	478-1262-2-ND	4,000	36.00/M	0603YG334ZAT2A
		16V	.47µF	+80 -20%	0.86	478-1263-1-ND	1.10	6.50	18.75	478-1263-2-ND	4,000	18.00/M	0603YG474ZAT2A
			1.0µF	+80 -20%	0.86	478-1264-1-ND	1.10	6.50	18.75	478-1264-2-ND	4,000	18.00/M	0603YG105ZAT2A
		10V	1.0µF	+80 -20%	0.86	478-1265-1-ND	1.10	6.50	18.75	478-1265-2-ND	4,000	18.00/M	0603ZG105ZAT2A
			10pF	±5%	0.94	478-1266-1-ND	8.80	52.00	150.00	478-1266-2-ND	4,000	144.00/M	08052A100JAT2A
			15pF	±5%	0.94	478-1267-1-ND	2.20	13.00	37.50	478-1267-2-ND	4,000	36.00/M	08052A150JAT2A
			22pF	±5%	0.94	478-1268-1-ND	2.20	13.00	37.50	478-1268-2-ND	4,000	36.00/M	08052A220JAT2A
			33pF	±5%	0.94	478-1269-1-ND	2.20	13.00	37.50	478-1269-2-ND	4,000	36.00/M	08052A330JAT2A
05	C0G (NP0)	200V	47pF	±5%	0.94	478-1270-1-ND	2.20	13.00	37.50	478-1270-2-ND	4,000	36.00/M	08052A470JAT2A
			68pF	±5%	0.94	478-1271-1-ND	8.25	48.75	140.63	478-1271-2-ND	4,000	135.00/M	08052A680JAT2A
			100pF	±5%	0.94	478-1272-1-ND	8.25	48.75	140.63	478-1272-2-ND	4,000	135.00/M	08052A101JAT2A
			150pF	±5%	0.94	478-1273-1-ND	8.25	48.75	140.63	478-1273-2-ND	4,000	135.00/M	08052A151JAT2A
			220pF	±5%	0.94	478-1274-1-ND	8.25	48.75	140.63	478-1274-2-ND	4,000	135.00/M	08052A221JAT2A
			330pF	±5%	1.27	478-1275-1-ND	8.25	48.75	140.63	478-1275-2-ND	2,000	135.00/M	08052A331JAT2A

(Continued)

E

Size Code	Type	WV DC	Capacitance	Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Digi-Key Part No.	Tape & Reel Size	Pricing	AVX Part No.
		200V	470pF	±5%	1.27	478-1276-1-ND	9.90	58.50	168.75	478-1276-2-ND	2,000	162.00/M	08052A471JAT2
			680pF	±5%	1.27	478-1277-1-ND	9.90	58.50	168.75	—	—	—	08052A681JAT2
		100V	10pF	±5%	0.71	478-1278-1-ND	2.20	13.00	37.50	478-1278-2-ND	4,000	36.00/M	08051A100JAT2
			15pF	±5%	0.71	478-1279-1-ND	2.20	13.00	37.50	478-1279-2-ND	4,000	36.00/M	08051A150JAT2
			22pF	±5%	0.71	478-1280-1-ND	2.20	13.00	37.50	478-1280-2-ND	4,000	36.00/M	08051A220JAT2
			33pF	±5%	0.71	478-1281-1-ND	3.30	19.50	56.25	478-1281-2-ND	4,000	54.00/M	08051A330JAT2
			47pF	±5%	0.71	478-1282-1-ND	2.20	13.00	37.50	478-1282-2-ND	4,000	36.00/M	08051A470JAT2
			68pF	±5%	0.71	478-1283-1-ND	2.20	13.00	37.50	478-1283-2-ND	4,000	36.00/M	08051A680JAT2
			100pF	±5%	0.71	478-1284-1-ND	2.20	13.00	37.50	478-1284-2-ND	4,000	36.00/M	08051A101JAT2
			150pF	±5%	0.71	478-1285-1-ND	2.20	13.00	37.50	478-1285-2-ND	4,000	36.00/M	08051A151JAT2
			220pF	±5%	0.71	478-1286-1-ND	2.97	17.55	50.63	478-1286-2-ND	4,000	49.00/M	08051A221JAT2
			330pF	±5%	0.94	478-1287-1-ND	2.20	13.00	37.50	478-1287-2-ND	4,000	36.00/M	08051A331JAT2
			470pF	±5%	0.94	478-1288-1-ND	2.20	13.00	37.50	478-1288-2-ND	4,000	36.00/M	08051A471JAT2
			680pF	±5%	0.94	478-1289-1-ND	2.20	13.00	37.50	478-1289-2-ND	4,000	36.00/M	08051A681JAT2
			1000pF	±5%	0.94	478-1290-1-ND	3.30	19.50	56.25	478-1290-2-ND	4,000	54.00/M	08051A102JAT2
		50V	.5pF	±.25pF	0.71	478-1291-1-ND	2.20	13.00	37.50	478-1291-2-ND	4,000	36.00/M	08055A0R5CAT
			1.0pF	±.25pF	0.71	478-1292-1-ND	2.20	13.00	37.50	478-1292-2-ND	4,000	36.00/M	08055A1R0CAT
			1.2pF	±.25pF	0.71	478-1293-1-ND	2.31	13.65	39.38	478-1293-2-ND	4,000	38.00/M	08055A1R2CAT
			1.5pF	±.25pF	0.71	478-1294-1-ND	2.20	13.00	37.50	478-1294-2-ND	4,000	36.00/M	08055A1R5CAT
			1.8pF	±.25pF	0.71	478-1295-1-ND	2.31	13.65	39.38	478-1295-2-ND	4,000	38.00/M	08055A1R8CAT
			2.2pF	±.25pF	0.71	478-1296-1-ND	2.31	13.65	39.38	478-1296-2-ND	4,000	38.00/M	08055A2R2CAT
			2.7pF	±.25pF	0.71	478-1297-1-ND	2.31	13.65	39.38	478-1297-2-ND	4,000	38.00/M	08055A2R7CAT
			3.3pF	±.25pF	0.71	478-1298-1-ND	2.31	13.65	39.38	478-1298-2-ND	4,000	38.00/M	08055A3R3CAT
			3.9pF	±.25pF	0.71	478-1299-1-ND	2.31	13.65	39.38	478-1299-2-ND	4,000	38.00/M	08055A3R9CAT
			4.7pF	±.25pF	0.71	478-1300-1-ND	2.31	13.65	39.38	478-1300-2-ND	4,000	38.00/M	08055A4R7CAT
			5.6pF	±.25pF	0.71	478-1301-1-ND	2.31	13.65	39.38	478-1301-2-ND	4,000	38.00/M	08055A5R6CAT
			6.8pF	±.25pF	0.71	478-1302-1-ND	2.31	13.65	39.38	478-1302-2-ND	4,000	38.00/M	08055A6R8CAT
			8.2pF	±.25pF	0.71	478-1303-1-ND	2.31	13.65	39.38	478-1303-2-ND	4,000	38.00/M	08055A8R2CAT
			10pF	±5%	0.71	478-1304-1-ND	1.10	6.50	18.75	478-1304-2-ND	4,000	18.00/M	08055A100JAT2
	C0G (NP0)		12pF	±5%	0.71	478-1305-1-ND	1.10	6.50	18.75	478-1305-2-ND	4,000	18.00/M	08055A120JAT2
			15pF	±5%	0.71	478-1306-1-ND	1.10	6.50	18.75	478-1306-2-ND	4,000	18.00/M	08055A150JAT2
			18pF	±5%	0.71	478-1307-1-ND	1.10	6.50	18.75	478-1307-2-ND	4,000	18.00/M	08055A180JAT2
			22pF	±5%	0.71	478-1308-1-ND	1.10	6.50	18.75	478-1308-2-ND	4,000	18.00/M	08055A220JAT2
			27pF	±5%	0.71	478-1309-1-ND	1.10	6.50	18.75	478-1309-2-ND	4,000	18.00/M	08055A270JAT2
			33pF	±5%	0.71	478-1310-1-ND	1.10	6.50	18.75	478-1310-2-ND	4,000	18.00/M	08055A330JAT2
			39pF	±5%	0.71	478-1311-1-ND	1.10	6.50	18.75	478-1311-2-ND	4,000	18.00/M	08055A390JAT2
			47pF	±5%	0.71	478-1312-1-ND	1.10	6.50	18.75	478-1312-2-ND	4,000	18.00/M	08055A470JAT2
			56pF	±5%	0.71	478-1313-1-ND	1.10	6.50	18.75	478-1313-2-ND	4,000	18.00/M	08055A560JAT2
			68pF	±5%	0.71	478-1314-1-ND	1.10	6.50	18.75	478-1314-2-ND	4,000	18.00/M	08055A680JAT2
			82pF	±5%	0.71	478-1315-1-ND	1.10	6.50	18.75	478-1315-2-ND	4,000	18.00/M	08055A820JAT2
			100pF	±5%	0.71	478-1316-1-ND	1.10	6.50	18.75	478-1316-2-ND	4,000	18.00/M	08055A101JAT2
			120pF	±5%	0.71	478-1317-1-ND	1.10	6.50	18.75	478-1317-2-ND	4,000	18.00/M	08055A121JAT2
			150pF	±5%	0.71	478-1318-1-ND	1.10	6.50	18.75	478-1318-2-ND	4,000	18.00/M	08055A151JAT2
			180pF	±5%	0.71	478-1319-1-ND	1.65	9.75	28.13	478-1319-2-ND	4,000	27.00/M	08055A181JAT2
			220pF	±5%	0.71	478-1320-1-ND	1.10	6.50	18.75	478-1320-2-ND	4,000	18.00/M	08055A221JAT2
			270pF	±5%	0.71	478-1321-1-ND	2.20	13.00	37.50	478-1321-2-ND	4,000	36.00/M	08055A271JAT2
			330pF	±5%	0.71	478-1322-1-ND	1.10	6.50	18.75	478-1322-2-ND	4,000	18.00/M	08055A331JAT2
0805			390pF	±5%	0.94	478-1323-1-ND	1.32	7.80	22.50	478-1323-2-ND	4,000	22.00/M	08055A391JAT2
			470pF	±5%	0.94	478-1324-1-ND	1.32	7.80	22.50	478-1324-2-ND	4,000	22.00/M	08055A471JAT2
			560pF	±5%	0.94	478-1325-1-ND	1.65	9.75	28.13	478-1325-2-ND	4,000	27.00/M	08055A561JAT2
			680pF	±5%	0.94	478-1326-1-ND	2.20	13.00	37.50	478-1326-2-ND	4,000	36.00/M	08055A681JAT2
			820pF	±5%	0.94	478-1327-1-ND	1.65	9.75	28.13	478-1327-2-ND	4,000	27.00/M	08055A821JAT2
			1000pF	±5%	0.94	478-1328-1-ND	2.20	13.00	37.50	478-1328-2-ND	4,000	36.00/M	08055A102JAT2
			1500pF	±5%	0.94	478-1329-1-ND	2.97	17.55	50.63	478-1329-2-ND	4,000	49.00/M	08055A152JAT2
			2200pF	±5%	1.27	478-1330-1-ND	2.97	17.55	50.63	478-1330-2-ND	2,000	49.00/M	08055A222JAT2
			3300pF	±5%	1.27	478-1331-1-ND	6.05	35.75	103.13	478-1331-2-ND	2,000	99.00/M	08055A332JAT2
		25V	4700pF	±5%	1.40	478-1332-1-ND	6.60	39.00	112.50	478-1332-2-ND	2,000	108.00/M	08053A472JAT2
		16V	6800pF	±5%	1.40	478-1333-1-ND	7.70	45.50	131.25	478-1333-2-ND	2,000	126.00/M	0805YA682JAT2
			.01µF	±5%	1.40	478-1334-1-ND	8.80	52.00	150.00	478-1334-2-ND	3,000	144.00/M	0805YA103JAT2
		200V	220pF	±10%	0.71	478-1335-1-ND	8.25	48.75	140.63	478-1335-2-ND	4,000	135.00/M	08052C221KAT2
			330pF	±10%	0.71	478-1336-1-ND	8.25	48.75	140.63	478-1336-2-ND	4,000	135.00/M	08052C331KAT2
			470pF	±10%	0.71	478-1337-1-ND	8.25	48.75	140.63	478-1337-2-ND	4,000	135.00/M	08052C471KAT2
			680pF	±10%	0.71	478-1338-1-ND	8.25	48.75	140.63	478-1338-2-ND	4,000	135.00/M	08052C681KAT2
			1000pF	±10%	0.71	478-1339-1-ND	8.25	48.75	140.63	478-1339-2-ND	4,000	135.00/M	08052C102KAT2
			1500pF	±10%	0.94	478-1340-1-ND	8.80	52.00	150.00	478-1340-2-ND	4,000	144.00/M	08052C152KAT2
			2200pF	±10%	0.94	478-1341-1-ND	8.80	52.00	150.00	478-1341-2-ND	4,000	144.00/M	08052C222KAT2
			3300pF	±10%	0.94	478-1342-1-ND	8.80	52.00	150.00	478-1342-2-ND	4,000	144.00/M	08052C332KAT2
			4700pF	±10%	0.94	478-1343-1-ND	9.90	58.50	168.75	478-1343-2-ND	2,000	162.00/M	08052C472KAT2
			6800pF	±10%	0.94	478-1344-1-ND	6.60	39.00	112.50	478-1344-2-ND	4,000	108.00/M	08052C682KAT2
			.01µF	±10%	0.94	478-1345-1-ND	12.10	71.50	206.25	478-1345-2-ND	4,000	198.00/M	08052C103KAT2
			.015µF	±10%	0.94	478-1346-1-ND	14.30	84.50	243.75	478-1346-2-ND	4,000	234.00/M	08052C153KAT2
			.022µF	±10%	1.27	478-1347-1-ND	16.50	97.50	281.25	478-1347-2-ND	2,000	270.00/M	08052C223KAT2
	X7R	100V	220pF	±10%	0.71	478-1348-1-ND	1.10	6.50	18.75	478-1348-2-ND	4,000	18.00/M	08051C221KAT2
			330pF	±10%	0.71	478-1349-1-ND	1.10	6.50	18.75	478-1349-2-ND	4,000	18.00/M	08051C331KAT2
			470pF	±10%	0.71	478-1350-1-ND	1.10	6.50	18.75	478-1350-2-ND	4,000	18.00/M	08051C471KAT2
			680pF	±10%	0.71	478-1351-1-ND	1.10	6.50	18.75	478-1351-2-ND	4,000	18.00/M	08051C681KAT2
			1000pF	±10%	0.71	478-1352-1-ND	1.10	6.50	18.75	478-1352-2-ND	4,000	18.00/M	08051C102KAT2
			1500pF	±10%	0.71	478-1353-1-ND	1.10	6.50	18.75	478-1353-2-ND	4,000	18.00/M	08051C152KAT2
			2200pF	±10%	0.71	478-1354-1-ND	1.10	6.50	18.75	478-1354-2-ND	4,000	18.00/M	08051C222KAT2
			3300pF	±10%	0.71	478-1355-1-ND	1.10	6.50	18.75	478-1355-2-ND	4,000	18.00/M	08051C332KAT2
			4700pF	±10%	0.94	478-1356-1-ND	1.10	6.50	18.75	478-1356-2-ND	4,000	18.00/M	08051C472KAT2
			6800pF	±10%	0.94	478-1357-1-ND	1.10	6.50	18.75	478-1357-2-ND	4,000	18.00/M	08051C682KAT2
			.01µF	±10%	0.94	478-1358-1-ND	1.10	6.50	18.75	478-1358-2-ND	3,000	18.00/M	08051C103KAT2
			.015µF	±10%	0.94	478-1359-1-ND	8.25	48.75	140.63	478-1359-2-ND	4,000	135.00/M	08051C153KAT2
			.022µF	±10%	0.94	478-1360-1-ND	9.35	55.25	159.38	478-1360-2-ND	4,000	153.00/M	08051C223KAT2
			.033µF	±10%	1.27	478-1361-1-ND	11.00	65.00	187.50	478-1361-2-ND	2,000	180.00/M	08051C333KAT2
			.047µF	±10%	1.27	478-1362-1-ND	3.63	21.45	61.88	478-1362-2-ND	2,000	59.00/M	08051C473KAT2
			220pF	±10%	0.71	478-1363-1-ND	2.31	13.65	39.38	478-1363-2-ND	4,000	38.00/M	08055C221KAT2
		50V	270pF	±10%	0.71	478-1364-1-ND	2.31	13.65	39.38	478-1364-2-ND	4,000	38.00/M	08055C271KAT2
			330pF	±10%	0.71	478-1365-1-ND	2.31	13.65	39.38	478-1365-2-ND	4,000	38.00/M	08055C331KAT2
			390pF	±10%	0.71	478-1366-1-ND	2.31	13.65	39.38	478-1366-2-ND	4,000	38.00/M	08055C391KAT2
			470pF	±10%	0.71	478-1367-1-ND	2.31	13.65	39.38	478-1367-2-ND	4,000	38.00/M	08055C471KAT2
			560pF	±10%	0.71	478-1368-1-ND	2.31	13.65	39.38	478-1368-2-ND	4,000	38.00/M	08055C561KAT2
			680pF	±10%	0.71	478-1369-1-ND	2.31	13.65	39.38	478-1369-2-ND	4,000	38.00/M	08055C681KAT2
			820pF	±10%	0.71	478-1370-1-ND	2.31	13.65	39.38	478-1370-2-ND	4,000	38.00/M	08055C821KAT2
			1000pF	±10%	0.71	478-1371-1-ND	1.10	6.50	18.75	478-1371-2-ND	4,000	18.00/M	08055C102KAT2

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Size Code	Type	WV DC	Capacitance	Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Digi-Key Part No.	Tape & Reel Size	Pricing	AVX Part No.
			1200pF	±10%	0.71	478-1372-1-ND	1.10	6.50	18.75	478-1372-2-ND	4,000	18.00/M	08055C122KAT2A
			1500pF	±10%	0.71	478-1373-1-ND	1.10	6.50	18.75	478-1373-2-ND	4,000	18.00/M	08055C152KAT2A
			1800pF	±10%	0.71	478-1374-1-ND	1.10	6.50	18.75	478-1374-2-ND	4,000	18.00/M	08055C182KAT2A
			2200pF	±10%	0.71	478-1375-1-ND	1.10	6.50	18.75	478-1375-2-ND	4,000	18.00/M	08055C222KAT2A
			2700pF	±10%	0.71	478-1376-1-ND	2.20	13.00	37.50	478-1376-2-ND	4,000	36.00/M	08055C272KAT2A
			3300pF	±10%	0.71	478-1377-1-ND	1.10	6.50	18.75	478-1377-2-ND	4,000	18.00/M	08055C332KAT2A
			3900pF	±10%	0.71	478-1378-1-ND	2.20	13.00	37.50	478-1378-2-ND	4,000	36.00/M	08055C392KAT2A
			4700pF	±10%	0.71	478-1379-1-ND	1.10	6.50	18.75	478-1379-2-ND	4,000	18.00/M	08055C472KAT2A
			5600pF	±10%	0.71	478-1380-1-ND	2.20	13.00	37.50	478-1380-2-ND	4,000	36.00/M	08055C562KAT2A
			6800pF	±10%	0.71	478-1381-1-ND	2.20	13.00	37.50	478-1381-2-ND	4,000	36.00/M	08055C682KAT2A
			8200pF	±10%	0.71	478-1382-1-ND	2.31	13.65	39.38	478-1382-2-ND	3,000	38.00/M	08055C822KAT2A
			.01µF	±10%	0.71	478-1383-1-ND	1.10	6.50	18.75	478-1383-2-ND	4,000	18.00/M	08055C103KAT2A
		50V	.012µF	±10%	0.94	478-1384-1-ND	1.10	6.50	18.75	478-1384-2-ND	4,000	18.00/M	08055C123KAT2A
			.015µF	±10%	0.94	478-1385-1-ND	2.20	13.00	37.50	478-1385-2-ND	4,000	36.00/M	08055C153KAT2A
			.018µF	±10%	0.94	478-1386-1-ND	2.20	13.00	37.50	478-1386-2-ND	4,000	36.00/M	08055C183KAT2A
			.022µF	±10%	0.94	478-1387-1-ND	1.10	6.50	18.75	478-1387-2-ND	4,000	18.00/M	08055C223KAT2A
	X7R		.027µF	±10%	0.94	478-1388-1-ND	1.10	6.50	18.75	478-1388-2-ND	4,000	18.00/M	08055C273KAT2A
			.033µF	±10%	0.94	478-1389-1-ND	2.20	13.00	37.50	478-1389-2-ND	4,000	36.00/M	08055C333KAT2A
			.039µF	±10%	0.94	478-1390-1-ND	1.10	6.50	18.75	478-1390-2-ND	4,000	18.00/M	08055C393KAT2A
			.047µF	±10%	0.94	478-1391-1-ND	1.10	6.50	18.75	478-1391-2-ND	4,000	18.00/M	08055C473KAT2A
			.056µF	±10%	0.94	478-1392-1-ND	1.10	6.50	18.75	478-1392-2-ND	4,000	18.00/M	08055C563KAT2A
			.068µF	±10%	0.94	478-1393-1-ND	1.10	6.50	18.75	478-1393-2-ND	4,000	18.00/M	08055C683KAT2A
			.082µF	±10%	0.94	478-1394-1-ND	1.10	6.50	18.75	478-1394-2-ND	4,000	18.00/M	08055C823KAT2A
			.10µF	±10%	0.94	478-1395-1-ND	1.10	6.50	18.75	478-1395-2-ND	4,000	18.00/M	08055C104KAT2A
			.12µF	±10%	1.27	478-1396-1-ND	2.20	13.00	37.50	478-1396-2-ND	2,000	36.00/M	08055C124KAT2A
		25V	.15µF	±10%	0.94	478-1397-1-ND	2.20	13.00	37.50	478-1397-2-ND	4,000	36.00/M	08053C154KAT2A
			.18µF	±10%	0.94	478-1398-1-ND	2.20	13.00	37.50	478-1398-2-ND	2,000	36.00/M	08053C184KAT2A
			.22µF	±10%	0.94	478-1399-1-ND	2.20	13.00	37.50	478-1399-2-ND	2,000	36.00/M	08053C224KAT2A
0805		16V	.22µF	±10%	0.94	478-1400-1-ND	1.65	9.75	28.13	478-1400-2-ND	4,000	27.00/M	0805YC224KAT2A
			.27µF	±10%	1.27	478-1401-1-ND	4.40	26.00	75.00	478-1401-2-ND	2,000	72.00/M	0805YC274KAT2A
			.33µF	±10%	1.27	478-1402-1-ND	4.40	26.00	75.00	478-1402-2-ND	2,000	72.00/M	0805YC334KAT2A
			.47µF	±10%	1.27	478-1403-1-ND	4.40	26.00	75.00	478-1403-2-ND	2,000	72.00/M	0805YC474KAT2A
		10V	.68µF	±10%	1.40	478-1404-1-ND	6.60	39.00	112.50	478-1404-2-ND	2,000	108.00/M	0805ZC684KAT2A
			1.0µF	±10%	1.40	478-1405-1-ND	11.00	65.00	187.50	478-1405-2-ND	2,000	180.00/M	0805ZC105KAT2A
		25V	.33µF	±10%	1.40	478-1406-1-ND	8.25	48.75	140.63	478-1406-2-ND	3,000	135.00/M	08053D334KAT2A
			.47µF	±10%	1.40	478-1407-1-ND	10.45	61.75	178.13	478-1407-2-ND	3,000	171.00/M	08053D474KAT2A
			.68µF	±10%	1.40	478-1408-1-ND	10.45	61.75	178.13	478-1408-2-ND	3,000	171.00/M	08053D684KAT2A
			1.0µF	±10%	1.40	478-1409-1-ND	12.10	71.50	206.25	478-1409-2-ND	3,000	198.00/M	08053D105KAT2A
		16V	.68µF	±10%	1.40	478-1410-1-ND	3.85	22.75	65.63	478-1410-2-ND	3,000	63.00/M	0805YD684KAT2A
			1.0µF	±10%	1.40	478-1411-1-ND	2.75	16.25	46.88	478-1411-2-ND	2,000	45.00/M	0805YD105KAT2A
	X5R		2.2µF	±10%	1.40	478-2580-1-ND *NEW!*	9.90	58.50	168.75	478-2580-2-ND *NEW!*	3,000	162.00/M	0805YD225KAT2A
		10V	1.0µF	±10%	1.40	478-1412-1-ND	4.40	26.00	75.00	478-1412-2-ND	2,000	72.00/M	0805ZD105KAT2A
			2.2µF	±10%	1.40	478-1413-1-ND	4.40	26.00	75.00	478-1413-2-ND	3,000	72.00/M	0805ZD225KAT2A
			3.3µF	±10%	1.40	478-1414-1-ND	6.60	39.00	112.50	478-1414-2-ND	3,000	108.00/M	0805ZD335KAT2A
			4.7µF	±10%	1.40	478-1415-1-ND	7.15	42.25	121.88	478-1415-2-ND	3,000	117.00/M	0805ZD475KAT2A
		6.3V	4.7µF	±10%	1.40	478-1416-1-ND	6.05	35.75	103.13	478-1416-2-ND	3,000	99.00/M	08056D475KAT2A
			10µF	±10%	1.40	478-1417-1-ND	11.00	65.00	187.50	478-1417-2-ND	3,000	180.00/M	08056D106KAT2A
		50V	.01µF	+80 -20%	0.71	478-1418-1-ND	1.10	6.50	18.75	478-1418-2-ND	4,000	18.00/M	08055G103ZAT2A
			.022µF	+80 -20%	0.71	478-1419-1-ND	1.10	6.50	18.75	478-1419-2-ND	4,000	18.00/M	08055G223ZAT2A
			.047µF	+80 -20%	0.71	478-1420-1-ND	1.10	6.50	18.75	478-1420-2-ND	4,000	18.00/M	08055G473ZAT2A
			.10µF	+80 -20%	0.71	478-1421-1-ND	1.10	6.50	18.75	478-1421-2-ND	4,000	18.00/M	08055G104ZAT2A
			.22µF	+80 -20%	0.94	478-1422-1-ND	1.65	9.75	28.13	478-1422-2-ND	4,000	27.00/M	08055G224ZAT2A
	Y5V	25V	.10µF	+80 -20%	0.71	478-1423-1-ND	1.10	6.50	18.75	478-1423-2-ND	4,000	18.00/M	08053G104ZAT2A
			.22µF	+80 -20%	0.94	478-1424-1-ND	1.65	9.75	28.13	478-1424-2-ND	4,000	27.00/M	08053G224ZAT2A
			.47µF	+80 -20%	1.40	478-1425-1-ND	2.20	13.00	37.50	478-1425-2-ND	3,000	36.00/M	08053G474ZAT2A
			1.0µF	+80 -20%	1.40	478-1426-1-ND	3.30	19.50	56.25	478-1426-2-ND	3,000	54.00/M	08053G105ZAT2A
		16V	1.0µF	+80 -20%	1.40	478-1427-1-ND	5.50	32.50	93.75	478-1427-2-ND	3,000	90.00/M	0805YG105ZAT2A
			2.2µF	+80 -20%	1.40	478-1428-1-ND	7.15	42.25	121.88	478-1428-2-ND	3,000	117.00/M	0805YG225ZAT2A
		10V	4.7µF	+80 -20%	1.52	478-1429-1-ND	9.35	55.25	159.38	478-1429-2-ND	3,000	153.00/M	0805ZG475ZAT2A
		200V	100pF	±5%	0.94	478-1430-1-ND	9.90	58.50	168.75	478-1430-2-ND	4,000	162.00/M	12062A101JAT2A
			150pF	±5%	0.94	478-1431-1-ND	9.90	58.50	168.75	478-1431-2-ND	4,000	162.00/M	12062A151JAT2A
			220pF	±5%	0.94	478-1432-1-ND	9.90	58.50	168.75	478-1432-2-ND	4,000	162.00/M	12062A221JAT2A
			330pF	±5%	0.94	478-1433-1-ND	10.45	61.75	178.13	478-1433-2-ND	4,000	171.00/M	12062A331JAT2A
			470pF	±5%	0.94	478-1434-1-ND	8.25	48.75	140.63	478-1434-2-ND	4,000	135.00/M	12062A471JAT2A
			680pF	±5%	0.94	478-1435-1-ND	8.25	48.75	140.63	478-1435-2-ND	4,000	135.00/M	12062A681JAT2A
			1000pF	±5%	1.78	478-1436-1-ND	8.25	48.75	140.63	478-1436-2-ND	2,000	135.00/M	12062A102JAT2A
			1500pF	±5%	1.78	478-1437-1-ND	10.45	61.75	178.13	478-1437-2-ND	2,000	171.00/M	12062A152JAT2A
		100V	10pF	±5%	0.94	478-1438-1-ND	7.70	45.50	131.25	478-1438-2-ND	4,000	126.00/M	12061A100JAT2A
			15pF	±5%	0.94	478-1439-1-ND	7.70	45.50	131.25	478-1439-2-ND	4,000	126.00/M	12061A150JAT2A
			22pF	±5%	0.94	478-1440-1-ND	7.70	45.50	131.25	478-1440-2-ND	4,000	126.00/M	12061A220JAT2A
			33pF	±5%	0.94	478-1441-1-ND	7.70	45.50	131.25	478-1441-2-ND	4,000	126.00/M	12061A330JAT2A
			47pF	±5%	0.94	478-1442-1-ND	7.70	45.50	131.25	478-1442-2-ND	4,000	126.00/M	12061A470JAT2A
			68pF	±5%	0.94	478-1443-1-ND	7.70	45.50	131.25	478-1443-2-ND	4,000	126.00/M	12061A680JAT2A
			100pF	±5%	0.94	478-1444-1-ND	7.70	45.50	131.25	478-1444-2-ND	4,000	126.00/M	12061A101JAT2A
			150pF	±5%	0.94	478-1445-1-ND	8.25	48.75	140.63	478-1445-2-ND	4,000	135.00/M	12061A151JAT2A
			220pF	±5%	0.94	478-1446-1-ND	8.25	48.75	140.63	478-1446-2-ND	4,000	135.00/M	12061A221JAT2A
1206	C0G (NP0)		330pF	±5%	0.94	478-1447-1-ND	8.80	52.00	150.00	478-1447-2-ND	4,000	144.00/M	12061A331JAT2A
			470pF	±5%	0.94	478-1448-1-ND	8.80	52.00	150.00	478-1448-2-ND	4,000	144.00/M	12061A471JAT2A
			680pF	±5%	0.94	478-1449-1-ND	8.80	52.00	150.00	478-1449-2-ND	4,000	144.00/M	12061A681JAT2A
			1000pF	±5%	0.94	478-1450-1-ND	8.80	52.00	150.00	478-1450-2-ND	4,000	144.00/M	12061A102JAT2A
			1500pF	±5%	1.27	478-1451-1-ND	6.93	40.95	118.13	478-1451-2-ND	2,000	113.00/M	12061A152JAT2A
			2200pF	±5%	1.52	478-1452-1-ND	6.93	40.95	118.13	478-1452-2-ND	2,000	113.00/M	12061A222JAT2A
			3300pF	±5%	1.52	478-1453-1-ND	6.93	40.95	118.13	478-1453-2-ND	2,000	113.00/M	12061A332JAT2A
			4700pF	±5%	1.52	478-1454-1-ND	9.35	55.25	159.38	478-1454-2-ND	2,000	153.00/M	12061A472JAT2A
		50V	.5pF	±.25pF	0.94	478-1455-1-ND	4.40	26.00	75.00	478-1455-2-ND	4,000	72.00/M	12065A0R5CAT2A
			1.0pF	±.25pF	0.94	478-1456-1-ND	4.40	26.00	75.00	478-1456-2-ND	4,000	72.00/M	12065A1R0CAT2A
			1.2pF	±.25pF	0.94	478-1457-1-ND	4.40	26.00	75.00	478-1457-2-ND	4,000	72.00/M	12065A1R2CAT2A
			1.5pF	±.25pF	0.94	478-1458-1-ND	4.40	26.00	75.00	478-1458-2-ND	4,000	72.00/M	12065A1R5CAT2A
			1.8pF	±.25pF	0.94	478-1459-1-ND	4.40	26.00	75.00	478-1459-2-ND	4,000	72.00/M	12065A1R8CAT2A
			2.2pF	±.25pF	0.94	478-1460-1-ND	4.40	26.00	75.00	478-1460-2-ND	4,000	72.00/M	12065A2R2CAT2A
			2.7pF	±.25pF	0.94	478-1461-1-ND	4.40	26.00	75.00	478-1461-2-ND	4,000	72.00/M	12065A2R7CAT2A
			3.3pF	±.25pF	0.94	478-1462-1-ND	4.40	26.00	75.00	478-1462-2-ND	4,000	72.00/M	12065A3R3CAT2A
			3.9pF	±.25pF	0.94	478-1463-1-ND	4.40	26.00	75.00	478-1463-2-ND	4,000	72.00/M	12065A3R9CAT2A
			4.7pF	±.25pF	0.94	478-1464-1-ND	4.40	26.00	75.00	478-1464-2-ND	4,000	72.00/M	12065A4R7CAT2A
			5.6pF	±.25pF	0.94	478-1465-1-ND	4.40	26.00	75.00	478-1465-2-ND	4,000	72.00/M	12065A5R6CAT2A
			6.8pF	±.25pF	0.94	478-1466-1-ND	4.40	26.00	75.00	478-1466-2-ND	4,000	72.00/M	12065A6R8CAT2A

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Size Code	Type	WV DC	Capacitance	Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Digi-Key Part No.	Tape & Reel Size	Pricing	AVX Part No.
			8.2pF	±.25pF	0.94	478-1467-1-ND	4.40	26.00	75.00	478-1467-2-ND	4,000	72.00/M	12065A8R2CAT2A
			10pF	±5%	0.94	478-1468-1-ND	4.18	24.70	71.25	478-1468-2-ND	4,000	68.00/M	12065A100JAT2A
			12pF	±5%	0.94	478-1469-1-ND	4.18	24.70	71.25	478-1469-2-ND	4,000	68.00/M	12065A120JAT2A
			15pF	±5%	0.94	478-1470-1-ND	4.18	24.70	71.25	478-1470-2-ND	4,000	68.00/M	12065A150JAT2A
			18pF	±5%	0.94	478-1471-1-ND	4.18	24.70	71.25	478-1471-2-ND	4,000	68.00/M	12065A180JAT2A
			22pF	±5%	0.94	478-1472-1-ND	4.18	24.70	71.25	478-1472-2-ND	4,000	68.00/M	12065A220JAT2A
			27pF	±5%	0.94	478-1473-1-ND	4.18	24.70	71.25	478-1473-2-ND	4,000	68.00/M	12065A270JAT2A
			33pF	±5%	0.94	478-1474-1-ND	4.18	24.70	71.25	478-1474-2-ND	4,000	68.00/M	12065A330JAT2A
			39pF	±5%	0.94	478-1475-1-ND	4.18	24.70	71.25	478-1475-2-ND	4,000	68.00/M	12065A390JAT2A
			47pF	±5%	0.94	478-1476-1-ND	4.18	24.70	71.25	478-1476-2-ND	4,000	68.00/M	12065A470JAT2A
			56pF	±5%	0.94	478-1477-1-ND	4.18	24.70	71.25	478-1477-2-ND	4,000	68.00/M	12065A560JAT2A
			68pF	±5%	0.94	478-1478-1-ND	4.18	24.70	71.25	478-1478-2-ND	4,000	68.00/M	12065A680JAT2A
			82pF	±5%	0.94	478-1479-1-ND	4.18	24.70	71.25	478-1479-2-ND	4,000	68.00/M	12065A820JAT2A
			100pF	±5%	0.94	478-1480-1-ND	4.18	24.70	71.25	478-1480-2-ND	4,000	68.00/M	12065A101JAT2A
			120pF	±5%	0.94	478-1481-1-ND	4.18	24.70	71.25	478-1481-2-ND	4,000	68.00/M	12065A121JAT2A
			150pF	±5%	0.94	478-1482-1-ND	5.17	30.55	88.13	478-1482-2-ND	4,000	85.00/M	12065A151JAT2A
			180pF	±5%	0.94	478-1483-1-ND	5.17	30.55	88.13	478-1483-2-ND	2,500	85.00/M	12065A181JAT2A
		50V	220pF	±5%	0.94	478-1484-1-ND	5.17	30.55	88.13	478-1484-2-ND	4,000	85.00/M	12065A221JAT2A
	C0G (NP0)		270pF	±5%	0.94	478-1485-1-ND	5.17	30.55	88.13	478-1485-2-ND	4,000	85.00/M	12065A271JAT2A
			330pF	±5%	0.94	478-1486-1-ND	5.17	30.55	88.13	478-1486-2-ND	4,000	85.00/M	12065A331JAT2A
			390pF	±5%	0.94	478-1487-1-ND	5.72	33.80	97.50	478-1487-2-ND	4,000	94.00/M	12065A391JAT2A
			470pF	±5%	0.94	478-1488-1-ND	5.72	33.80	97.50	478-1488-2-ND	4,000	94.00/M	12065A471JAT2A
			560pF	±5%	0.94	478-1489-1-ND	5.72	33.80	97.50	478-1489-2-ND	4,000	94.00/M	12065A561JAT2A
			680pF	±5%	0.94	478-1490-1-ND	5.72	33.80	97.50	478-1490-2-ND	4,000	94.00/M	12065A681JAT2A
			820pF	±5%	0.94	478-1491-1-ND	5.72	33.80	97.50	478-1491-2-ND	4,000	94.00/M	12065A821JAT2A
			1000pF	±5%	0.94	478-1492-1-ND	5.72	33.80	97.50	478-1492-2-ND	4,000	94.00/M	12065A102JAT2A
			1200pF	±5%	0.94	478-1493-1-ND	6.05	35.75	103.13	478-1493-2-ND	4,000	99.00/M	12065A122JAT2A
			1500pF	±5%	0.94	478-1494-1-ND	6.05	35.75	103.13	478-1494-2-ND	4,000	99.00/M	12065A152JAT2A
			1800pF	±5%	1.27	478-1495-1-ND	6.60	39.00	112.50	478-1495-2-ND	2,000	108.00/M	12065A182JAT2A
			2200pF	±5%	1.27	478-1496-1-ND	6.60	39.00	112.50	478-1496-2-ND	2,000	108.00/M	12065A222JAT2A
			2700pF	±5%	1.27	478-1497-1-ND	5.86	34.65	99.94	478-1497-2-ND	2,000	96.00/M	12065A272JAT2A
			3300pF	±5%	1.27	478-1498-1-ND	6.93	40.95	118.13	478-1498-2-ND	2,000	113.00/M	12065A332JAT2A
			3900pF	±5%	1.27	478-1499-1-ND	5.86	34.65	99.94	478-1499-2-ND	2,000	96.00/M	12065A392JAT2A
			4700pF	±5%	1.27	478-1500-1-ND	6.93	40.95	118.13	478-1500-2-ND	2,000	113.00/M	12065A472JAT2A
			5600pF	±5%	1.27	478-1501-1-ND	6.93	40.95	118.13	478-1501-2-ND	2,000	113.00/M	12065A562JAT2A
			6800pF	±5%	1.27	478-1502-1-ND	9.35	55.25	159.38	478-1502-2-ND	2,000	153.00/M	12063A682JAT2A
		25V	8200pF	±5%	1.27	478-1503-1-ND	9.35	55.25	159.38	478-1503-2-ND	2,000	153.00/M	12063A822JAT2A
			.01µF	±5%	1.27	478-1504-1-ND	9.35	55.25	159.38	478-1504-2-ND	2,000	153.00/M	12063A103JAT2A
			1000pF	±10%	0.94	478-1505-1-ND	9.35	55.25	159.38	478-1505-2-ND	4,000	153.00/M	12062C102KAT2A
			1500pF	±10%	0.94	478-1506-1-ND	9.35	55.25	159.38	478-1506-2-ND	4,000	153.00/M	12062C152KAT2A
			2200pF	±10%	0.94	478-1507-1-ND	9.35	55.25	159.38	478-1507-2-ND	4,000	153.00/M	12062C222KAT2A
			3300pF	±10%	0.94	478-1508-1-ND	9.90	58.50	168.75	478-1508-2-ND	4,000	162.00/M	12062C332KAT2A
			4700pF	±10%	0.94	478-1509-1-ND	9.90	58.50	168.75	478-1509-2-ND	4,000	162.00/M	12062C472KAT2A
		200V	6800pF	±10%	0.94	478-1510-1-ND	11.00	65.00	187.50	478-1510-2-ND	4,000	180.00/M	12062C682KAT2A
			.01µF	±10%	0.94	478-1511-1-ND	11.00	65.00	187.50	478-1511-2-ND	4,000	180.00/M	12062C103KAT2A
			.015µF	±10%	1.27	478-1512-1-ND	8.25	48.75	140.63	478-1512-2-ND	2,000	135.00/M	12062C153KAT2A
			.022µF	±10%	1.27	478-1513-1-ND	8.25	48.75	140.63	478-1513-2-ND	2,000	135.00/M	12062C223KAT2A
			.033µF	±10%	1.27	478-1514-1-ND	11.00	65.00	187.50	478-1514-2-ND	2,000	180.00/M	12062C333KAT2A
1206			.047µF	±10%	1.27	478-1515-1-ND	11.00	65.00	187.50	478-1515-2-ND	2,000	180.00/M	12062C473KAT2A
			.068µF	±10%	1.52	478-1516-1-ND	13.20	78.00	225.00	478-1516-2-ND	2,000	216.00/M	12062C683KAT2A
			1000pF	±10%	0.94	478-1517-1-ND	8.25	48.75	140.63	478-1517-2-ND	4,000	135.00/M	12061C102KAT2A
			1500pF	±10%	0.94	478-1518-1-ND	8.25	48.75	140.63	478-1518-2-ND	4,000	135.00/M	12061C152KAT2A
			2200pF	±10%	0.94	478-1519-1-ND	8.25	48.75	140.63	478-1519-2-ND	4,000	135.00/M	12061C222KAT2A
			3300pF	±10%	0.94	478-1520-1-ND	8.25	48.75	140.63	478-1520-2-ND	4,000	135.00/M	12061C332KAT2A
			4700pF	±10%	0.94	478-1521-1-ND	8.25	48.75	140.63	478-1521-2-ND	4,000	135.00/M	12061C472KAT2A
			6800pF	±10%	0.94	478-1522-1-ND	8.25	48.75	140.63	478-1522-2-ND	4,000	135.00/M	12061C682KAT2A
		100V	.01µF	±10%	0.94	478-1523-1-ND	8.25	48.75	140.63	478-1523-2-ND	4,000	135.00/M	12061C103KAT2A
			.015µF	±10%	0.94	478-1524-1-ND	8.25	48.75	140.63	478-1524-2-ND	4,000	135.00/M	12061C153KAT2A
			.022µF	±10%	0.94	478-1525-1-ND	3.30	19.50	56.25	478-1525-2-ND	4,000	54.00/M	12061C223KAT2A
			.033µF	±10%	0.94	478-1526-1-ND	8.25	48.75	140.63	478-1526-2-ND	4,000	135.00/M	12061C333KAT2A
			.047µF	±10%	0.94	478-1527-1-ND	8.25	48.75	140.63	478-1527-2-ND	4,000	135.00/M	12061C473KAT2A
			.068µF	±10%	0.94	478-1528-1-ND	8.25	48.75	140.63	478-1528-2-ND	4,000	135.00/M	12061C683KAT2A
			.10µF	±10%	1.27	478-1529-1-ND	5.50	32.50	93.75	478-1529-2-ND	2,000	90.00/M	12061C104KAT2A
			1000pF	±10%	0.94	478-1530-1-ND	3.74	22.10	63.75	478-1530-2-ND	4,000	61.00/M	12065C102KAT2A
			1200pF	±10%	0.94	478-1531-1-ND	3.74	22.10	63.75	478-1531-2-ND	4,000	61.00/M	12065C122KAT2A
			1500pF	±10%	0.94	478-1532-1-ND	3.74	22.10	63.75	478-1532-2-ND	4,000	61.00/M	12065C152KAT2A
			1800pF	±10%	0.94	478-1533-1-ND	3.74	22.10	63.75	478-1533-2-ND	4,000	61.00/M	12065C182KAT2A
	X7R		2200pF	±10%	0.94	478-1534-1-ND	3.74	22.10	63.75	478-1534-2-ND	4,000	61.00/M	12065C222KAT2A
			2700pF	±10%	0.94	478-1535-1-ND	3.74	22.10	63.75	478-1535-2-ND	4,000	61.00/M	12065C272KAT2A
			3300pF	±10%	0.94	478-1536-1-ND	3.74	22.10	63.75	478-1536-2-ND	4,000	61.00/M	12065C332KAT2A
			3900pF	±10%	0.94	478-1537-1-ND	3.74	22.10	63.75	478-1537-2-ND	4,000	61.00/M	12065C392KAT2A
			4700pF	±10%	0.94	478-1538-1-ND	3.74	22.10	63.75	478-1538-2-ND	4,000	61.00/M	12065C472KAT2A
			5600pF	±10%	0.94	478-1539-1-ND	3.74	22.10	63.75	478-1539-2-ND	4,000	61.00/M	12065C562KAT2A
			6800pF	±10%	0.94	478-1540-1-ND	3.74	22.10	63.75	478-1540-2-ND	4,000	61.00/M	12065C682KAT2A
			8200pF	±10%	0.94	478-1541-1-ND	3.74	22.10	63.75	478-1541-2-ND	4,000	61.00/M	12065C822KAT2A
			.01µF	±10%	0.94	478-1542-1-ND	3.74	22.10	63.75	478-1542-2-ND	4,000	61.00/M	12065C103KAT2A
			.012µF	±10%	0.94	478-1543-1-ND	3.74	22.10	63.75	478-1543-2-ND	4,000	61.00/M	12065C123KAT2A
			.015µF	±10%	0.94	478-1544-1-ND	3.74	22.10	63.75	478-1544-2-ND	4,000	61.00/M	12065C153KAT2A
		50V	.018µF	±10%	0.94	478-1545-1-ND	3.74	22.10	63.75	478-1545-2-ND	4,000	61.00/M	12065C183KAT2A
			.022µF	±10%	0.94	478-1546-1-ND	3.74	22.10	63.75	478-1546-2-ND	4,000	61.00/M	12065C223KAT2A
			.027µF	±10%	0.94	478-1547-1-ND	4.07	24.05	69.38	478-1547-2-ND	4,000	67.00/M	12065C273KAT2A
			.033µF	±10%	0.94	478-1548-1-ND	4.07	24.05	69.38	478-1548-2-ND	4,000	67.00/M	12065C333KAT2A
			.039µF	±10%	0.94	478-1549-1-ND	4.07	24.05	69.38	478-1549-2-ND	4,000	67.00/M	12065C393KAT2A
			.047µF	±10%	0.94	478-1550-1-ND	4.07	24.05	69.38	478-1550-2-ND	4,000	67.00/M	12065C473KAT2A
			.056µF	±10%	0.94	478-1551-1-ND	4.07	24.05	69.38	478-1551-2-ND	4,000	67.00/M	12065C563KAT2A
			.068µF	±10%	0.94	478-1553-1-ND	4.07	24.05	69.38	478-1553-2-ND	4,000	67.00/M	12065C683KAT2A
			.082µF	±10%	0.94	478-1555-1-ND	4.07	24.05	69.38	478-1555-2-ND	4,000	67.00/M	12065C823KAT2A
			.10µF	±10%	0.94	478-1556-1-ND	2.20	13.00	37.50	478-1556-2-ND	4,000	36.00/M	12065C104KAT2A
			.12µF	±10%	0.94	478-1557-1-ND	3.30	19.50	56.25	478-1557-2-ND	4,000	54.00/M	12065C124KAT2A
			.15µF	±10%	0.94	478-1558-1-ND	3.30	19.50	56.25	478-1558-2-ND	4,000	54.00/M	12065C154KAT2A
			.18µF	±10%	0.94	478-1559-1-ND	3.30	19.50	56.25	478-1559-2-ND	4,000	54.00/M	12065C184KAT2A
			.22µF	±10%	0.94	478-1560-1-ND	3.30	19.50	56.25	478-1560-2-ND	3,000	54.00/M	12065C224KAT2A
			.27µF	±10%	1.27	478-1561-1-ND	4.40	26.00	75.00	478-1561-2-ND	2,000	72.00/M	12065C274KAT2A
			.33µF	±10%	1.27	478-1562-1-ND	6.60	39.00	112.50	478-1562-2-ND	2,000	108.00/M	12065C334KAT2A
			.47µF	±10%	1.27	478-1563-1-ND	5.50	32.50	93.75	478-1563-2-ND	2,000	90.00/M	12063C474KAT2A
		25V	.56µF	±10%	1.78	478-1564-1-ND	6.60	39.00	112.50	478-1564-2-ND	2,000	108.00/M	12063C564KAT2A
			.68µF	±10%	1.78	478-1565-1-ND	6.60	39.00	112.50	478-1565-2-ND	2,500	108.00/M	12063C684KAT2A

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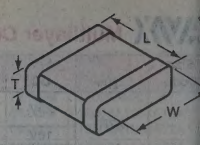
Size Code	Type	WV DC	Capacitance	Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Digi-Key Part No.	Tape & Reel Size	Pricing	AVX Part No.
1206	X7R	25V	.82µF	±10%	1.78	478-1566-1-ND	6.60	39.00	112.50	478-1566-2-ND	2,500	108.00/M	12063C824KAT2A
			1.0µF	±10%	1.78	478-1567-1-ND	4.40	26.00	75.00	478-1567-2-ND	2,500	72.00/M	12063C105KAT2A
		16V	1.0µF	±10%	1.40	478-2576-1-ND NEW!	77.00	455.00	1312.50	478-2576-2-ND NEW!	2,000	1260.00/M	1206YC105KAT2A
		10V	2.2µF	±10%	1.78	478-1568-1-ND	13.20	78.00	225.00	478-1568-2-ND	2,000	216.00/M	1206ZC225KAT2A
	X5R	25V	2.2µF	±10%	1.78	478-1569-1-ND	8.80	52.00	150.00	478-1569-2-ND	2,500	144.00/M	12063D225KAT2A
			4.7µF	±10%	1.78	478-1570-1-ND	11.00	65.00	187.50	478-1570-2-ND	2,500	180.00/M	12063D475KAT2A
			4.7µF	±20%	2.79	478-2577-1-ND NEW!	11.00	65.00	187.50	478-2577-2-ND NEW!	2,500	180.00/M	12063D475MAT2A
		16V	2.2µF	±10%	1.78	478-1571-1-ND	9.90	58.50	168.75	478-1571-2-ND	2,500	162.00/M	1206YD225KAT2A
			4.7µF	±10%	1.78	478-1572-1-ND	20.35	120.25	346.88	478-1572-2-ND	4,000	333.00/M	1206YD475KAT2A
			10µF	±10%	1.78	478-1573-1-ND	20.90	123.50	356.25	478-1573-2-ND	2,500	342.00/M	1206YD106KAT2A
		10V	4.7µF	±10%	1.78	478-1574-1-ND	9.90	58.50	168.75	478-1574-2-ND	2,000	162.00/M	1206ZD475KAT2A
			10µF	±10%	1.78	478-1575-1-ND	12.10	71.50	206.25	478-1575-2-ND	2,500	198.00/M	1206ZD106KAT2A
		6.3V	22µF	±10%	1.78	478-1576-1-ND	24.75	146.25	421.88	478-1576-2-ND	2,500	405.00/M	12066D226KAT2A
			10µF	±10%	1.78	478-2578-1-ND NEW!	14.30	84.50	243.75	478-2578-2-ND NEW!	2,000	234.00/M	12066D106KAT2A
			10µF	±20%	1.78	478-2579-1-ND NEW!	14.30	84.50	243.75	478-2579-2-ND NEW!	2,500	234.00/M	12066D106MAT2A
	Y5V	50V	.10µF	+80 -20%	0.94	478-1577-1-ND	3.30	19.50	56.25	478-1577-2-ND	4,000	54.00/M	12065G104ZAT2A
			.22µF	+80 -20%	0.94	478-1578-1-ND	6.05	35.75	103.13	478-1578-2-ND	4,000	99.00/M	12065G224ZAT2A
			.47µF	+80 -20%	0.94	478-1579-1-ND	4.95	29.25	84.38	478-1579-2-ND	3,000	81.00/M	12065G474ZAT2A
			1.0µF	+80 -20%	0.94	478-1580-1-ND	3.85	22.75	65.63	478-1580-2-ND	4,000	63.00/M	12065G105ZAT2A
		25V	2.2µF	+80 -20%	1.27	478-1581-1-ND	5.50	32.50	93.75	478-1581-2-ND	3,000	90.00/M	12063G225ZAT2A
		16V	4.7µF	+80 -20%	1.52	478-1582-1-ND	8.80	52.00	150.00	478-1582-2-ND	3,000	144.00/M	1206YG475ZAT2A
		10V	10µF	+80 -20%	1.78	478-1583-1-ND	11.00	65.00	187.50	478-1583-2-ND	2,500	180.00/M	1206ZG106ZAT2A
	C0G (NP0)	200V	680pF	±5%	0.94	478-1584-1-ND	11.55	68.25	196.88	478-1584-2-ND	4,000	189.00/M	12102A681JAT2A
			1000pF	±5%	0.94	478-1585-1-ND	12.10	71.50	206.25	478-1585-2-ND	4,000	198.00/M	12102A102JAT2A
			1500pF	±5%	1.27	478-1586-1-ND	13.75	81.25	234.38	478-1586-2-ND	2,000	225.00/M	12102A152JAT2A
			2200pF	±5%	1.78	478-1587-1-ND	13.75	81.25	234.38	478-1587-2-ND	2,000	225.00/M	12102A222JAT2A
		100V	680pF	±5%	0.94	478-1588-1-ND	10.45	61.75	178.13	478-1588-2-ND	4,000	171.00/M	12101A681JAT2A
			1000pF	±5%	0.94	478-1589-1-ND	10.45	61.75	178.13	478-1589-2-ND	4,000	171.00/M	12101A102JAT2A
			1500pF	±5%	0.94	478-1590-1-ND	11.55	68.25	196.88	478-1590-2-ND	4,000	189.00/M	12101A152JAT2A
			2200pF	±5%	1.27	478-1591-1-ND	11.55	68.25	196.88	478-1591-2-ND	4,000	189.00/M	12101A222JAT2A
			3300pF	±5%	1.27	478-1592-1-ND	11.55	68.25	196.88	478-1592-2-ND	4,000	189.00/M	12101A332JAT2A
			4700pF	±5%	1.27	478-1593-1-ND	12.10	71.50	206.25	478-1593-2-ND	2,000	198.00/M	12101A472JAT2A
		50V	680pF	±5%	0.94	478-1594-1-ND	12.10	71.50	206.25	478-1594-2-ND	4,000	198.00/M	12105A681JAT2A
			1000pF	±5%	0.94	478-1595-1-ND	8.80	52.00	150.00	478-1595-2-ND	4,000	144.00/M	12105A102JAT2A
			1500pF	±5%	0.94	478-1596-1-ND	8.80	52.00	150.00	478-1596-2-ND	4,000	144.00/M	12105A152JAT2A
			2200pF	±5%	0.94	478-1597-1-ND	8.80	52.00	150.00	478-1597-2-ND	4,000	144.00/M	12105A222JAT2A
			3300pF	±5%	0.94	478-1598-1-ND	9.35	55.25	159.38	478-1598-2-ND	4,000	153.00/M	12105A332JAT2A
			4700pF	±5%	0.94	478-1599-1-ND	9.35	55.25	159.38	478-1599-2-ND	2,000	153.00/M	12105A472JAT2A
			6800pF	±5%	0.94	478-1600-1-ND	28.05	165.75	478.13	478-1600-2-ND	4,000	459.00/M	12105A682JAT2A
			.01µF	±5%	1.40	478-1601-1-ND	28.05	165.75	478.13	478-1601-2-ND	2,000	459.00/M	12105A103JAT2A
1210	X7R	100V	1000pF	±10%	0.94	478-1602-1-ND	10.45	61.75	178.13	478-1602-2-ND	4,000	171.00/M	12101C102KAT2A
			1500pF	±10%	0.94	478-1603-1-ND	10.45	61.75	178.13	478-1603-2-ND	4,000	171.00/M	12101C152KAT2A
			2200pF	±10%	0.94	478-1604-1-ND	10.45	61.75	178.13	478-1604-2-ND	4,000	171.00/M	12101C222KAT2A
			3300pF	±10%	0.94	478-1605-1-ND	10.45	61.75	178.13	478-1605-2-ND	4,000	171.00/M	12101C332KAT2A
			4700pF	±10%	0.94	478-1606-1-ND	10.45	61.75	178.13	478-1606-2-ND	4,000	171.00/M	12101C472KAT2A
			6800pF	±10%	0.94	478-1607-1-ND	10.45	61.75	178.13	478-1607-2-ND	4,000	171.00/M	12101C682KAT2A
			.01µF	±10%	0.94	478-1608-1-ND	10.45	61.75	178.13	478-1608-2-ND	4,000	171.00/M	12101C103KAT2A
			.015µF	±10%	0.94	478-1609-1-ND	10.45	61.75	178.13	478-1609-2-ND	4,000	171.00/M	12101C153KAT2A
			.022µF	±10%	0.94	478-1610-1-ND	10.45	61.75	178.13	478-1610-2-ND	4,000	171.00/M	12101C223KAT2A
			.033µF	±10%	0.94	478-1611-1-ND	10.45	61.75	178.13	478-1611-2-ND	4,000	171.00/M	12101C333KAT2A
			.047µF	±10%	0.94	478-1612-1-ND	10.45	61.75	178.13	478-1612-2-ND	4,000	171.00/M	12101C473KAT2A
			.068µF	±10%	0.94	478-1613-1-ND	10.45	61.75	178.13	478-1613-2-ND	4,000	171.00/M	12101C683KAT2A
			.10µF	±10%	0.94	478-1614-1-ND	11.00	65.00	187.50	478-1614-2-ND	4,000	180.00/M	12101C104KAT2A
			.15µF	±10%	1.27	478-1615-1-ND	13.75	81.25	234.38	478-1615-2-ND	2,000	225.00/M	12101C154KAT2A
			.22µF	±10%	1.52	478-1616-1-ND	7.70	45.50	131.25	478-1616-2-ND	2,000	126.00/M	12101C224KAT2A
			.47µF	±10%	2.79	478-2568-1-ND NEW!	7.70	45.50	131.25	478-2568-2-ND NEW!	1,000	126.00	12101C474KAT2A
			.68µF	±10%	2.79	478-2569-1-ND NEW!	10.45	61.75	178.13	478-2569-2-ND NEW!	1,000	171.00	12101C684KAT2A
			1.0µF	±10%	2.79	478-2570-1-ND NEW!	14.30	84.50	243.75	478-2570-2-ND NEW!	1,000	234.00	12101C105KAT2A
			1.0µF	±20%	2.79	478-2571-1-ND NEW!	14.30	84.50	243.75	478-2571-2-ND NEW!	2,000	234.00/M	12101C105MAT2A
		50V	.10µF	±10%	0.94	478-1617-1-ND	8.80	52.00	150.00	478-1617-2-ND	4,000	144.00/M	12105C104KAT2A
			.15µF	±10%	0.94	478-1618-1-ND	10.45	61.75	178.13	478-1618-2-ND	4,000	171.00/M	12105C154KAT2A
			.22µF	±10%	0.94	478-1619-1-ND	12.10	71.50	206.25	478-1619-2-ND	4,000	198.00/M	12105C224KAT2A
			.33µF	±10%	0.94	478-1620-1-ND	14.30	84.50	243.75	478-1620-2-ND	4,000	234.00/M	12105C334KAT2A
			.47µF	±10%	1.27	478-1621-1-ND	18.70	110.50	318.75	478-1621-2-ND	2,000	306.00/M	12105C474KAT2A
			1.0µF	±10%	2.29	478-1622-1-ND	19.25	113.75	328.13	478-1622-2-ND	2,000	315.00/M	12105C105KAT2A
		25V	2.2µF	±10%	2.29	478-1623-1-ND	21.45	126.75	365.63	478-1623-2-ND	2,000	351.00/M	12103C225KAT2A
		16V	4.7µF	±10%	2.79	478-1624-1-ND	23.65	139.75	403.13	478-1624-2-ND	1,000	387.00	1210YC475KAT2A
		10V	10µF	±10%	2.79	478-1625-1-ND	29.15	172.25	496.88	478-1625-2-ND	1,000	477.00	1210ZC106KAT2A
	X5R	25V	4.7µF	±10%	2.79	478-1626-1-ND	18.15	107.25	309.38	478-1626-2-ND	1,000	297.00	12103D475KAT2A
			10µF	±10%	2.29	478-1627-1-ND	25.30	149.50	431.25	478-1627-2-ND	2,000	414.00/M	12103D106KAT2A
		16V	4.7µF	±10%	1.78	478-1628-1-ND	17.60	104.00	300.00	478-1628-2-ND	2,500	288.00/M	1210YD475KAT2A
			10µF	±10%	2.29	478-1629-1-ND	26.40	156.00	450.00	478-1629-2-ND	2,000	432.00/M	1210YD106KAT2A
			10µF	±20%	2.79	478-2572-1-ND NEW!	29.70	175.50	506.25	478-2572-2-ND NEW!	2,000	486.00/M	1210YD106MAT2A
			22µF	±10%	2.79	478-1630-1-ND	46.75	276.25	796.88	478-1630-2-ND	1,000	765.00	1210YD226KAT2A
		6.3V	22µF	±20%	2.79	478-2573-1-ND NEW!	41.80	247.00	712.50	478-2573-2-ND NEW!	1,000	684.00	12106D226MAT2A
			47µF	±20%	2.79	478-2574-1-ND NEW!	78.10	461.50	1331.25	478-2574-2-ND NEW!	1,000	1278.00	12106D476MAT2A
			100µF	±20%	2.79	478-2575-1-ND NEW!	78.10	461.50	1331.25	478-2575-2-ND NEW!	1,000	1278.00	12106D107MAT2A
		10V	10µF	±10%	2.29	478-1631-1-ND	22.55	133.25	384.38	478-1631-2-ND	2,000	369.00/M	1210ZD106KAT2A
			22µF	±10%	2.79	478-1632-1-ND	35.20	208.00	600.00	478-1632-2-ND	1,000	576.00	1210ZD226KAT2A
		6.3V	47µF	±10%	2.79	478-1633-1-ND	105.60	624.00	1800.00	478-1633-2-ND	1,000	1728.00	12106D476KAT2A
	Y5V	16V	10µF	+80 -20%	1.78	478-1634-1-ND	29.70	175.50	506.25	478-1634-2-ND	2,500	486.00/M	1210YG106ZAT2A
		10V	22µF	+80 -20%	2.29	478-1635-1-ND	43.45	256.75	740.63	478-1635-2-ND	2,000	711.00/M	1210ZG226ZAT2A
1812	C0G (NP0)	50V	.01µF	±5%	1.52	478-1636-1-ND	41.25	243.75	703.13	478-1636-2-ND	1,000	675.00	18125A103JAT2A
			.015µF	±5%	1.52	478-1637-1-ND	41.25	243.75	703.13	478-1637-2-ND	1,000	675.00	18125A153JAT2A
		25V	.022µF	±5%	1.27	478-1638-1-ND	46.75	276.25	796.88	478-1638-2-ND	1,000	765.00	18123A223JAT2A
			.033µF	±5%	1.27	478-1639-1-ND	46.75	276.25	796.88	478-1639-2-ND	1,000	765.00	18123A333JAT2A
	X7R	100V	.22µF	±10%	1.02	478-1640-1-ND	18.70	110.50	318.75	478-1640-2-ND	1,000	306.00	18121C224KAT2A
			.47µF	±10%	1.52	478-1641-1-ND	26.95	159.25	459.38	478-1641-2-ND	1,000	441.00	18121C474KAT2A
			1.0µF	±10%	2.29	478-1642-1-ND	33.55	198.25	—	478-1642-2-ND	700	384.30	18121C105KAT2A
		50V	2.2µF	±10%	2.79	478-2567-1-ND NEW!	29.70	175.50	—	478-2567-2-ND NEW!	500	243.00	18125C225KAT2A
	X5R	50V	1.0µF	±10%	1.27	478-1643-1-ND	28.05	165.75	478.13	478-1643-2-ND	1,000	459.00	18125C105KAT2A
		25V	10µF	±10%	2.79	478-1644-1-ND	45.65	269.75	—	478-1644-2-ND	500	373.50	18123D106KAT2A
		10V	22µF	±10%	2.79	478-1645-1-ND	45.65	269.75	—	478-1645-2-ND	500	373.50	1812ZD226KAT2A
		6.3V	47µF	±10%	2.79	478-1646-1-ND	82.50	487.50	—	478-1646-2-ND	500	675.00	18126D476KAT2A
			100µF	±10%	3.05	478-1647-1-ND	132.00	780.00	—	478-1647-2-ND	500	1080.00	18126D107KAT2A

AVX NEW! SQ Series RF/Microwave Multilayer Chip Capacitors

Features: • High Current Carrying Capabilities, High Q-Factor, Very Low ESR, Very High Series Resonance, Excellent Stability Under Stresses of Changing Voltage, Frequency, Time and Temperature

Specifications: • Operating Temperature: -55°C ~ 125°C • Temperature Coefficient: 90 ±20ppm/°C 5TR • Dielectric Withstanding Voltage: 2.5 x Rated Voltage (1.5 x Rated Voltage for 500V Rated Parts)

Size Code	L	W	T (Min. / Max.)
0605	.055+.015-.010	.055±.015	.020 / .057
1210	.110+.020-.010	.110±.010	.030 / .102



Size Code	WV DC	Capacitance	Tolerance	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Digi-Key Part No.	Tape & Reel Size	Pricing	AVX Part No.
0605	150V	.10pF	±.10pF	478-2667-1-ND†	13.48	122.50	551.25	478-2667-2-ND	2,000	735.00/M	SQCAEM0R1BAJME
		.20pF	±.10pF	478-2668-1-ND†	13.48	122.50	551.25	478-2668-2-ND	2,000	735.00/M	SQCAEM0R2BAJME
		.30pF	±.10pF	478-2669-1-ND†	13.48	122.50	551.25	478-2669-2-ND	2,000	735.00/M	SQCAEM0R3BAJME
		.40pF	±.10pF	478-2670-1-ND†	13.48	122.50	551.25	478-2670-2-ND	2,000	735.00/M	SQCAEM0R4BAJME
		.50pF	±.10pF	478-2671-1-ND†	13.48	122.50	551.25	478-2671-2-ND	2,000	735.00/M	SQCAEM0R5BAJME
		.60pF	±.10pF	478-2672-1-ND†	13.48	122.50	551.25	478-2672-2-ND	2,000	735.00/M	SQCAEM0R6BAJME
		.70pF	±.10pF	478-2673-1-ND†	13.48	122.50	551.25	478-2673-2-ND	2,000	735.00/M	SQCAEM0R7BAJME
		.80pF	±.10pF	478-2674-1-ND†	13.48	122.50	551.25	478-2674-2-ND	2,000	735.00/M	SQCAEM0R8BAJME
		.90pF	±.10pF	478-2675-1-ND†	13.48	122.50	551.25	478-2675-2-ND	2,000	735.00/M	SQCAEM0R9BAJME
		1.0pF	±.10pF	478-2676-1-ND†	13.48	122.50	551.25	478-2676-2-ND	2,000	735.00/M	SQCAEM1R0BAJME
		1.1pF	±.10pF	478-2677-1-ND†	13.48	122.50	551.25	478-2677-2-ND	2,000	735.00/M	SQCAEM1R1BAJME
		1.2pF	±.10pF	478-2678-1-ND†	13.48	122.50	551.25	478-2678-2-ND	2,000	735.00/M	SQCAEM1R2BAJME
		1.5pF	±.10pF	478-2679-1-ND†	13.48	122.50	551.25	478-2679-2-ND	2,000	735.00/M	SQCAEM1R5BAJME
		1.6pF	±.25pF	478-2680-1-ND†	11.00	100.00	450.00	478-2680-2-ND	2,000	600.00/M	SQCAEM1R6CAJME
		1.8pF	±.25pF	478-2681-1-ND†	11.00	100.00	450.00	478-2681-2-ND	2,000	600.00/M	SQCAEM1R8CAJME
		2.0pF	±.25pF	478-2682-1-ND†	11.00	100.00	450.00	478-2682-2-ND	2,000	600.00/M	SQCAEM2R0CAJME
		2.2pF	±.10pF	478-2683-1-ND††	13.48	122.50	551.25	478-2683-2-ND	2,000	735.00/M	SQCAEM2R2BAJME
		2.4pF	±.10pF	478-2684-1-ND††	13.48	122.50	551.25	478-2684-2-ND	2,000	735.00/M	SQCAEM2R4BAJME
		2.7pF	±.10pF	478-2685-1-ND††	13.48	122.50	551.25	478-2685-2-ND	2,000	735.00/M	SQCAEM2R7BAJME
		3.0pF	±.10pF	478-2686-1-ND††	13.48	122.50	551.25	478-2686-2-ND	2,000	735.00/M	SQCAEM3R0BAJME
		3.3pF	±.10pF	478-2687-1-ND††	13.48	122.50	551.25	478-2687-2-ND	2,000	735.00/M	SQCAEM3R3BAJME
		3.9pF	±.25pF	478-2688-1-ND††	11.00	100.00	450.00	478-2688-2-ND	2,000	600.00/M	SQCAEM3R9CAJME
		4.7pF	±.25pF	478-2689-1-ND††	11.00	100.00	450.00	478-2689-2-ND	2,000	600.00/M	SQCAEM4R7CAJME
		5.6pF	±.25pF	478-2690-1-ND††	11.00	100.00	450.00	478-2690-2-ND	2,000	600.00/M	SQCAEM5R6CAJME
		6.8pF	±.25pF	478-2691-1-ND††	16.78	152.50	686.25	478-2691-2-ND	2,000	915.00/M	SQCAEM6R8CAJME
		8.2pF	±.25pF	478-2692-1-ND††	16.78	152.50	686.25	478-2692-2-ND	2,000	915.00/M	SQCAEM8R2CAJME
		10pF	±5%	478-2693-1-ND††	13.75	125.00	562.50	478-2693-2-ND	2,000	750.00/M	SQCAEM100JAJME
		12pF	±5%	478-2694-1-ND††	13.75	125.00	562.50	478-2694-2-ND	2,000	750.00/M	SQCAEM120JAJME
		15pF	±5%	478-2695-1-ND††	13.75	125.00	562.50	478-2695-2-ND	2,000	750.00/M	SQCAEM150JAJME
		18pF	±5%	478-2696-1-ND††	13.75	125.00	562.50	478-2696-2-ND	2,000	750.00/M	SQCAEM180JAJME
		20pF	±5%	478-2697-1-ND††	13.75	125.00	562.50	478-2697-2-ND	2,000	750.00/M	SQCAEM200JAJME
		22pF	±5%	478-2698-1-ND††	13.75	125.00	562.50	478-2698-2-ND	2,000	750.00/M	SQCAEM220JAJME
		24pF	±5%	478-2699-1-ND††	13.75	125.00	562.50	478-2699-2-ND	2,000	750.00/M	SQCAEM240JAJME
		27pF	±5%	478-2700-1-ND††	13.75	125.00	562.50	478-2700-2-ND	2,000	750.00/M	SQCAEM270JAJME
		30pF	±5%	478-2701-1-ND††	13.75	125.00	562.50	478-2701-2-ND	2,000	750.00/M	SQCAEM300JAJME
		33pF	±5%	478-2702-1-ND††	13.75	125.00	562.50	478-2702-2-ND	2,000	750.00/M	SQCAEM330JAJME
		39pF	±5%	478-2703-1-ND††	13.75	125.00	562.50	478-2703-2-ND	2,000	750.00/M	SQCAEM390JAJME
		47pF	±5%	478-2704-1-ND††	13.75	125.00	562.50	478-2704-2-ND	2,000	750.00/M	SQCAEM470JAJME
		56pF	±5%	478-2705-1-ND††	13.75	125.00	562.50	478-2705-2-ND	2,000	750.00/M	SQCAEM560JAJME
		68pF	±5%	478-2706-1-ND††	13.75	125.00	562.50	478-2706-2-ND	2,000	750.00/M	SQCAEM680JAJME
		82pF	±5%	478-2707-1-ND††	13.75	125.00	562.50	478-2707-2-ND	2,000	750.00/M	SQCAEM820JAJME
		100pF	±5%	478-2708-1-ND††	13.75	125.00	562.50	478-2708-2-ND	2,000	750.00/M	SQCAEM101JAJME
1210	500V	1.0pF	±.10pF	478-2621-1-ND•	11.22	102.00	459.00	478-2621-2-ND	2,000	612.00/M	SQCB7M1R0BAJME
		1.2pF	±.10pF	478-2622-1-ND•	11.22	102.00	459.00	478-2622-2-ND	2,000	612.00/M	SQCB7M1R2BAJME
		1.5pF	±.10pF	478-2623-1-ND•	11.22	102.00	459.00	478-2623-2-ND	2,000	612.00/M	SQCB7M1R5BAJME
		1.8pF	±.10pF	478-2624-1-ND•	11.22	102.00	459.00	478-2624-2-ND	2,000	612.00/M	SQCB7M1R8BAJME
		2.0pF	±.10pF	478-2625-1-ND•	11.22	102.00	459.00	478-2625-2-ND	2,000	612.00/M	SQCB7M2R0BAJME
		2.2pF	±.10pF	478-2626-1-ND•	11.22	102.00	459.00	478-2626-2-ND	2,000	612.00/M	SQCB7M2R2BAJME
		2.4pF	±.10pF	478-2627-1-ND•	11.22	102.00	459.00	478-2627-2-ND	2,000	612.00/M	SQCB7M2R4BAJME
		2.7pF	±.10pF	478-2628-1-ND•	11.22	102.00	459.00	478-2628-2-ND	2,000	612.00/M	SQCB7M2R7BAJME
		3.0pF	±.10pF	478-2629-1-ND•	11.22	102.00	459.00	478-2629-2-ND	2,000	612.00/M	SQCB7M3R0BAJME
		3.3pF	±.10pF	478-2630-1-ND•	11.22	102.00	459.00	478-2630-2-ND	2,000	612.00/M	SQCB7M3R3BAJME
		3.9pF	±.25pF	478-2631-1-ND•	9.46	86.00	387.00	478-2631-2-ND	2,000	516.00/M	SQCB7M3R9CAJME
		4.7pF	±.25pF	478-2632-1-ND•	9.46	86.00	387.00	478-2632-2-ND	2,000	516.00/M	SQCB7M4R7CAJME
		5.6pF	±.25pF	478-2633-1-ND•	9.46	86.00	387.00	478-2633-2-ND	2,000	516.00/M	SQCB7M5R6CAJME
		6.8pF	±.25pF	478-2634-1-ND•	14.08	128.00	576.00	478-2634-2-ND	2,000	768.00/M	SQCB7M6R8CAJME
		8.2pF	±.25pF	478-2635-1-ND•	14.08	128.00	576.00	478-2635-2-ND	2,000	768.00/M	SQCB7M8R2CAJME
		10pF	±5%	478-2636-1-ND•	11.44	104.00	468.00	478-2636-2-ND	2,000	624.00/M	SQCB7M100JAJME
		12pF	±5%	478-2637-1-ND•	11.44	104.00	468.00	478-2637-2-ND	2,000	624.00/M	SQCB7M120JAJME
		15pF	±5%	478-2638-1-ND•	11.44	104.00	468.00	478-2638-2-ND	2,000	624.00/M	SQCB7M150JAJME
		18pF	±5%	478-2639-1-ND•	11.44	104.00	468.00	478-2639-2-ND	2,000	624.00/M	SQCB7M180JAJME
		20pF	±5%	478-2640-1-ND•	11.44	104.00	468.00	478-2640-2-ND	2,000	624.00/M	SQCB7M200JAJME
		22pF	±5%	478-2641-1-ND•	11.44	104.00	468.00	478-2641-2-ND	2,000	624.00/M	SQCB7M220JAJME
		24pF	±5%	478-2642-1-ND•	11.44	104.00	468.00	478-2642-2-ND	2,000	624.00/M	SQCB7M240JAJME
		27pF	±5%	478-2643-1-ND•	11.44	104.00	468.00	478-2643-2-ND	2,000	624.00/M	SQCB7M270JAJME
		30pF	±5%	478-2644-1-ND•	11.44	104.00	468.00	478-2644-2-ND	2,000	624.00/M	SQCB7M300JAJME
		33pF	±5%	478-2645-1-ND•	11.44	104.00	468.00	478-2645-2-ND	2,000	624.00/M	SQCB7M330JAJME
		39pF	±5%	478-2646-1-ND•	11.44	104.00	468.00	478-2646-2-ND	2,000	624.00/M	SQCB7M390JAJME
		47pF	±5%	478-2647-1-ND•	11.44	104.00	468.00	478-2647-2-ND	2,000	624.00/M	SQCB7M470JAJME
		56pF	±5%	478-2648-1-ND•	11.44	104.00	468.00	478-2648-2-ND	2,000	624.00/M	SQCB7M560JAJME
		68pF	±5%	478-2649-1-ND•	11.44	104.00	468.00	478-2649-2-ND	2,000	624.00/M	SQCB7M680JAJME
		82pF	±5%	478-2650-1-ND•	11.44	104.00	468.00	478-2650-2-ND	2,000	624.00/M	SQCB7M820JAJME
		100pF	±5%	478-2651-1-ND•	11.44	104.00	468.00	478-2651-2-ND	2,000	624.00/M	SQCB7M101JAJME
	300V	120pF	±5%	478-2652-1-ND•	11.44	104.00	468.00	478-2652-2-ND	2,000	624.00/M	SQCB9M121JAJME
		150pF	±5%	478-2653-1-ND•	11.44	104.00	468.00	478-2653-2-ND	2,000	624.00/M	SQCB9M151JAJME
		180pF	±5%	478-2654-1-ND•	11.44	104.00	468.00	478-2654-2-ND	2,000	624.00/M	SQCB9M181JAJME
		200pF	±5%	478-2655-1-ND•	11.44	104.00	468.00	478-2655-2-ND	2,000	624.00/M	SQCB9M201JAJME
	200V	220pF	±5%	478-2656-1-ND•	11.44	104.00	468.00	478-2656-2-ND	2,000	624.00/M	SQCB2M221JAJME
		240pF	±5%	478-2657-1-ND•	11.44	104.00	468.00	478-2657-2-ND	2,000	624.00/M	SQCB2M241JAJME
		270pF	±5%	478-2658-1-ND•	11.44	104.00	468.00	478-2658-2-ND	2,000	624.00/M	SQCB2M271JAJME
		300pF	±5%	478-2659-1-ND•	11.44	104.00	468.00	478-2659-2-ND	2,000	624.00/M	SQCB2M301JAJME
		330pF	±5%	478-2660-1-ND•	11.44	104.00	468.00	478-2660-2-ND	2,000	624.00/M	SQCB2M331JAJME
		390pF	±5%	478-2661-1-ND•	11.44	104.00	468.00	478-2661-2-ND	2,000	624.00/M	SQCB2M391JAJME
		470pF	±5%	478-2662-1-ND•	11.44	104.00	468.00	478-2662-2-ND	2,000	624.00/M	SQCB2M471JAJME
	150V	560pF	±10%	478-2663-1-ND•	14.30	130.00	585.00	478-2663-2-ND	2,000	780.00/M	SQCBEM561KAJME
		680pF	±10%	478-2664-1-ND•	14.30	130.00	585.00	478-2664-2-ND	1,000	780.00	SQCBEM681KAJME
		820pF	±10%	478-2665-1-ND•	14.30	130.00	585.00	478-2665-2-ND	2,000	780.00/M	SQCBEM821KAJME
		1000pF	±10%	478-2666-1-ND•	14.30	130.00	585.00	478-2666-2-ND	1,000	780.00	SQCBEM102KAJME

SQ P90 Kits

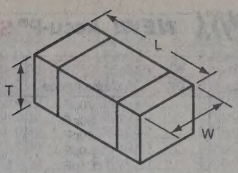
• 478-2836-ND	*SQCB/KITSQ001*	10 each of values denoted (460 total pieces)	$119.7
† 478-2837-ND	*SQCA/KITSQ002*	10 each of values denoted (160 total pieces)	$119.7
†† 478-2838-ND	*SQCA/KITSQ003*	10 each of values denoted (260 total pieces)	$119.7

NEW! Accu-P® Series Thin Film RF/Microwave Multilayer Chip Capacitors

res: • Low ESR, High Q, Very Low Capacitance Values, Very Tight Capacitance Tolerances, RF Power Handling Capability, Hand Solderable

fications: • Operating Temperature: -55°C ~ 125°C • Insulation Resistance: ≥ 10^{11} Ω (≥ 10^{10} 0201 and 0402 size) • Dielectric Absorption: .01%

Size Code	L	W	T
0201	0.60 (0.023)	0.325 (0.0128)	0.225 (0.009)
0402	1.00 (0.039)	0.55 (0.022)	0.40 (0.016)
0603	1.60 (0.063)	0.81 (0.032)	0.63 (0.025)



ze de	WV DC	Capacitance	Tolerance	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Digi-Key Part No.	Tape & Reel Size	Pricing	AVX Part No.
		.10pF	±.02pF	478-2709-1-ND∞	12.92	85.50	323.00	478-2709-2-ND	5,000	494.00/M	02013J0R1PBWTR
		.20pF	±.02pF	478-2710-1-ND∞	12.92	85.50	323.00	478-2710-2-ND	5,000	494.00/M	02013J0R2PBWTR
		.30pF	±.02pF	478-2711-1-ND∞	12.92	85.50	323.00	478-2711-2-ND	5,000	494.00/M	02013J0R3PBWTR
		.40pF	±.02pF	478-2712-1-ND∞	12.92	85.50	323.00	478-2712-2-ND	5,000	494.00/M	02013J0R4PBWTR
		.50pF	±.02pF	478-2713-1-ND∞	12.92	85.50	323.00	478-2713-2-ND	5,000	494.00/M	02013J0R5PBWTR
		.60pF	±.02pF	478-2714-1-ND∞	12.92	85.50	323.00	478-2714-2-ND	5,000	494.00/M	02013J0R6PBWTR
		.70pF	±.02pF	478-2715-1-ND∞	12.92	85.50	323.00	478-2715-2-ND	5,000	494.00/M	02013J0R7PBWTR
		.80pF	±.02pF	478-2716-1-ND	12.92	85.50	323.00	478-2716-2-ND	5,000	494.00/M	02013J0R8PBWTR
		.90pF	±.02pF	478-2717-1-ND	12.92	85.50	323.00	478-2717-2-ND	5,000	494.00/M	02013J0R9PBWTR
		1.0pF	±.05pF	478-2718-1-ND†	6.12	40.50	153.00	478-2718-2-ND	5,000	234.00/M	02013J1R0ABWTR
		1.1pF	±.05pF	478-2719-1-ND†	6.12	40.50	153.00	478-2719-2-ND	5,000	234.00/M	02013J1R1ABWTR
		1.2pF	±.05pF	478-2720-1-ND†	6.12	40.50	153.00	478-2720-2-ND	5,000	234.00/M	02013J1R2ABWTR
		1.3pF	±.05pF	478-2721-1-ND†	6.12	40.50	153.00	478-2721-2-ND	5,000	234.00/M	02013J1R3ABWTR
	25V	1.4pF	±.05pF	478-2722-1-ND	6.12	40.50	153.00	478-2722-2-ND	5,000	234.00/M	02013J1R4ABWTR
		1.5pF	±.05pF	478-2723-1-ND†	6.12	40.50	153.00	478-2723-2-ND	5,000	234.00/M	02013J1R5ABWTR
		1.6pF	±.05pF	478-2724-1-ND	6.12	40.50	153.00	478-2724-2-ND	5,000	234.00/M	02013J1R6ABWTR
		1.7pF	±.05pF	478-2725-1-ND	6.12	40.50	153.00	478-2725-2-ND	5,000	234.00/M	02013J1R7ABWTR
		1.8pF	±.05pF	478-2726-1-ND†	6.12	40.50	153.00	478-2726-2-ND	5,000	234.00/M	02013J1R8ABWTR
		1.9pF	±.05pF	478-2727-1-ND	6.12	40.50	153.00	478-2727-2-ND	5,000	234.00/M	02013J1R9ABWTR
		2.0pF	±.05pF	478-2728-1-ND†	6.12	40.50	153.00	478-2728-2-ND	5,000	234.00/M	02013J2R0ABWTR
01		2.1pF	±.10pF	478-2729-1-ND	4.08	27.00	102.00	478-2729-2-ND	5,000	156.00/M	02013J2R1BBWTR
		2.2pF	±.10pF	478-2730-1-ND*†	4.08	27.00	102.00	478-2730-2-ND	5,000	156.00/M	02013J2R2BBWTR
		2.3pF	±.10pF	478-2731-1-ND	4.08	27.00	102.00	478-2731-2-ND	5,000	156.00/M	02013J2R3BBWTR
		2.4pF	±.10pF	478-2732-1-ND*†	4.08	27.00	102.00	478-2732-2-ND	5,000	156.00/M	02013J2R4BBWTR
		2.5pF	±.10pF	478-2733-1-ND	4.08	27.00	102.00	478-2733-2-ND	5,000	156.00/M	02013J2R5BBWTR
		2.6pF	±.10pF	478-2734-1-ND	4.08	27.00	102.00	478-2734-2-ND	5,000	156.00/M	02013J2R6BBWTR
		2.7pF	±.10pF	478-2735-1-ND*†	4.08	27.00	102.00	478-2735-2-ND	5,000	156.00/M	02013J2R7BBWTR
		2.8pF	±.10pF	478-2736-1-ND	4.08	27.00	102.00	478-2736-2-ND	5,000	156.00/M	0201YJ2R8BBWTR
		2.9pF	±.10pF	478-2737-1-ND	4.08	27.00	102.00	478-2737-2-ND	5,000	156.00/M	0201YJ2R9BBWTR
		3.0pF	±.10pF	478-2738-1-ND*†	4.08	27.00	102.00	478-2738-2-ND	5,000	156.00/M	0201YJ3R0BBWTR
	16V	3.1pF	±.10pF	478-2739-1-ND	4.08	27.00	102.00	478-2739-2-ND	5,000	156.00/M	0201YJ3R1BBWTR
		3.3pF	±.10pF	478-2740-1-ND*†	4.08	27.00	102.00	478-2740-2-ND	5,000	156.00/M	0201YJ3R3BBWTR
		3.6pF	±.10pF	478-2741-1-ND*†	4.08	27.00	102.00	478-2741-2-ND	5,000	156.00/M	0201YJ3R6BBWTR
		3.9pF	±.10pF	478-2742-1-ND*†	4.08	27.00	102.00	478-2742-2-ND	5,000	156.00/M	0201YJ3R9BBWTR
		4.1pF	±.10pF	478-2743-1-ND	4.08	27.00	102.00	478-2743-2-ND	5,000	156.00/M	0201ZK4R1BBWTR
		4.3pF	±.10pF	478-2744-1-ND	4.08	27.00	102.00	478-2744-2-ND	5,000	156.00/M	0201ZK4R3BBWTR
		4.5pF	±.10pF	478-2745-1-ND	4.08	27.00	102.00	478-2745-2-ND	5,000	156.00/M	0201ZK4R5BBWTR
		4.7pF	±.10pF	478-2746-1-ND*†	4.08	27.00	102.00	478-2746-2-ND	5,000	156.00/M	0201ZK4R7BBWTR
	10V	5.6pF	±.10pF	478-2747-1-ND*	4.08	27.00	102.00	478-2747-2-ND	5,000	156.00/M	0201ZK5R6BBWTR
		6.8pF	±.10pF	478-2748-1-ND*	4.08	27.00	102.00	478-2748-2-ND	5,000	156.00/M	0201ZK6R8BBWTR
		7.5pF	±.10pF	478-2749-1-ND*	4.08	27.00	102.00	478-2749-2-ND	5,000	156.00/M	0201ZK7R5BBWTR
		8.2pF	±.10pF	478-2750-1-ND*	4.08	27.00	102.00	478-2750-2-ND	5,000	156.00/M	0201ZK8R2BBWTR
		10pF	±2%	478-2751-1-ND*	6.12	40.50	153.00	478-2751-2-ND	5,000	234.00/M	0201ZK100GBWTR
		12pF	±2%	478-2752-1-ND*	6.12	40.50	153.00	478-2752-2-ND	5,000	234.00/M	0201ZK120GBWTR
		.10pF	±.02pF	478-2753-1-ND††	15.30	101.25	382.50	478-2753-2-ND	5,000	585.00/M	04023J0R1PBWTR
		.20pF	±.02pF	478-2754-1-ND††	15.30	101.25	382.50	478-2754-2-ND	5,000	585.00/M	04023J0R2PBWTR
		.30pF	±.02pF	478-2755-1-ND††	15.30	101.25	382.50	478-2755-2-ND	5,000	585.00/M	04023J0R3PBWTR
		.40pF	±.02pF	478-2756-1-ND††	15.30	101.25	382.50	478-2756-2-ND	5,000	585.00/M	04023J0R4PBWTR
		.50pF	±.02pF	478-2757-1-ND††	15.30	101.25	382.50	478-2757-2-ND	5,000	585.00/M	04023J0R5PBWTR
		.60pF	±.02pF	478-2758-1-ND††	15.30	101.25	382.50	478-2758-2-ND	5,000	585.00/M	04023J0R6PBWTR
		.70pF	±.02pF	478-2759-1-ND††	15.30	101.25	382.50	478-2759-2-ND	5,000	585.00/M	04023J0R7PBWTR
		.80pF	±.02pF	478-2760-1-ND	15.30	101.25	382.50	478-2760-2-ND	5,000	585.00/M	04023J0R8PBWTR
		.90pF	±.02pF	478-2761-1-ND	15.30	101.25	382.50	478-2761-2-ND	5,000	585.00/M	04023J0R9PBWTR
		1.0pF	±.05pF	478-2762-1-ND§	6.12	40.50	153.00	478-2762-2-ND	5,000	234.00/M	04023J1R0ABWTR
		1.1pF	±.05pF	478-2763-1-ND§	6.12	40.50	153.00	478-2763-2-ND	5,000	234.00/M	04023J1R1ABWTR
		1.2pF	±.05pF	478-2764-1-ND§	6.12	40.50	153.00	478-2764-2-ND	5,000	234.00/M	04023J1R2ABWTR
		1.3pF	±.05pF	478-2765-1-ND§	6.12	40.50	153.00	478-2765-2-ND	5,000	234.00/M	04023J1R3ABWTR
		1.4pF	±.05pF	478-2766-1-ND§	6.12	40.50	153.00	478-2766-2-ND	5,000	234.00/M	04023J1R4ABWTR
		1.5pF	±.05pF	478-2767-1-ND§	6.12	40.50	153.00	478-2767-2-ND	5,000	234.00/M	04023J1R5ABWTR
		1.6pF	±.05pF	478-2768-1-ND§	10.54	69.75	263.50	478-2768-2-ND	5,000	403.00/M	04023J1R6ABWTR
		1.7pF	±.05pF	478-2769-1-ND§	6.12	40.50	153.00	478-2769-2-ND	5,000	234.00/M	04023J1R7ABWTR
		1.8pF	±.05pF	478-2770-1-ND§	6.12	40.50	153.00	478-2770-2-ND	5,000	234.00/M	04023J1R8ABWTR
		1.9pF	±.05pF	478-2771-1-ND§	6.12	40.50	153.00	478-2771-2-ND	5,000	234.00/M	04023J1R9ABWTR
	25V	2.0pF	±.05pF	478-2772-1-ND§	6.12	40.50	153.00	478-2772-2-ND	5,000	234.00/M	04023J2R0ABWTR
		2.1pF	±.10pF	478-2773-1-ND§	4.08	27.00	102.00	478-2773-2-ND	5,000	156.00/M	04023J2R1BBWTR
		2.2pF	±.10pF	478-2774-1-ND§	4.08	27.00	102.00	478-2774-2-ND	5,000	156.00/M	04023J2R2BBWTR
02		2.3pF	±.10pF	478-2775-1-ND§	4.08	27.00	102.00	478-2775-2-ND	5,000	156.00/M	04023J2R3BBWTR
		2.4pF	±.10pF	478-2776-1-ND§	4.08	27.00	102.00	478-2776-2-ND	5,000	156.00/M	04023J2R4BBWTR
		2.5pF	±.10pF	478-2777-1-ND§	4.08	27.00	102.00	478-2777-2-ND	5,000	156.00/M	04023J2R5BBWTR
		2.6pF	±.10pF	478-2778-1-ND§	4.08	27.00	102.00	478-2778-2-ND	5,000	156.00/M	04023J2R6BBWTR
		2.7pF	±.10pF	478-2779-1-ND§	4.08	27.00	102.00	478-2779-2-ND	5,000	156.00/M	04023J2R7BBWTR
		2.8pF	±.10pF	478-2780-1-ND§	4.08	27.00	102.00	478-2780-2-ND	5,000	156.00/M	04023J2R8BBWTR
		2.9pF	±.10pF	478-2781-1-ND§	4.08	27.00	102.00	478-2781-2-ND	5,000	156.00/M	04023J2R9BBWTR
		3.0pF	±.10pF	478-2782-1-ND§	4.08	27.00	102.00	478-2782-2-ND	5,000	156.00/M	04023J3R0BBWTR
		3.1pF	±.10pF	478-2783-1-ND§	4.08	27.00	102.00	478-2783-2-ND	5,000	156.00/M	04023J3R1BBWTR
		3.3pF	±.10pF	478-2784-1-ND§	4.08	27.00	102.00	478-2784-2-ND	5,000	156.00/M	04023J3R3BBWTR
		3.6pF	±.10pF	478-2785-1-ND§	4.08	27.00	102.00	478-2785-2-ND	5,000	156.00/M	04023J3R6BBWTR
		3.9pF	±.10pF	478-2786-1-ND§	4.08	27.00	102.00	478-2786-2-ND	5,000	156.00/M	04023J3R9BBWTR
		4.1pF	±.10pF	478-2787-1-ND§	4.08	27.00	102.00	478-2787-2-ND	5,000	156.00/M	04023J4R1BBWTR
		4.3pF	±.10pF	478-2788-1-ND§	4.08	27.00	102.00	478-2788-2-ND	5,000	156.00/M	04023J4R3BBWTR
		4.5pF	±.10pF	478-2789-1-ND§	4.08	27.00	102.00	478-2789-2-ND	5,000	156.00/M	04023J4R5BBWTR
		4.7pF	±.10pF	478-2790-1-ND§	4.08	27.00	102.00	478-2790-2-ND	5,000	156.00/M	04023J4R7BBWTR
		5.6pF	±.10pF	478-2791-1-ND	4.08	27.00	102.00	478-2791-2-ND	5,000	156.00/M	04023J5R6BBWTR
		6.8pF	±.10pF	478-2792-1-ND	4.08	27.00	102.00	478-2792-2-ND	5,000	156.00/M	04023J6R8BBWTR
		8.2pF	±.10pF	478-2793-1-ND	4.08	27.00	102.00	478-2793-2-ND	5,000	156.00/M	0402YJ8R2BBWTR
	16V	10pF	±2%	478-2794-1-ND	6.12	40.50	153.00	478-2794-2-ND	5,000	234.00/M	0402YJ100GBWTR
		12pF	±2%	478-2795-1-ND	6.12	40.50	153.00	478-2795-2-ND	5,000	234.00/M	0402YJ120GBWTR
		15pF	±2%	478-2796-1-ND	6.12	40.50	153.00	478-2796-2-ND	5,000	234.00/M	0402ZJ150GBWTR
	10V	18pF	±2%	478-2797-1-ND	6.12	40.50	153.00	478-2797-2-ND	5,000	234.00/M	0402ZK180GBWTR
		22pF	±2%	478-2798-1-ND	6.12	40.50	153.00	478-2798-2-ND	5,000	234.00/M	0402ZK220GBWTR
		.10pF	±.02pF	478-2799-1-ND◊	15.30	101.25	382.50	478-2799-2-ND	3,000	585.00/M	06035J0R1PBTTR
		.20pF	±.02pF	478-2800-1-ND◊	15.30	101.25	382.50	478-2800-2-ND	3,000	585.00/M	06035J0R2PBTTR
03		.30pF	±.02pF	478-2801-1-ND◊	15.30	101.25	382.50	478-2801-2-ND	3,000	585.00/M	06035J0R3PBTTR
		.40pF	±.02pF	478-2802-1-ND◊	15.30	101.25	382.50	478-2802-2-ND	3,000	585.00/M	06035J0R4PBTTR
		.50pF	±.02pF	478-2803-1-ND◊	15.30	101.25	382.50	478-2803-2-ND	3,000	585.00/M	06035J0R5PBTTR
		.60pF	±.02pF	478-2804-1-ND◊	15.30	101.25	382.50	478-2804-2-ND	3,000	585.00/M	06035J0R6PBTTR

(Continued)

E

NEW! Accu-P® Series Thin Film RF/Microwave Multilayer Chip Capacitors (Cont.)

Size Code	WV DC	Capacitance	Tolerance	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Digi-Key Part No.	Tape & Reel Size	Pricing	AVX Part No.
0603	50V	.70pF	±.02pF	478-2805-1-ND◊	15.30	101.25	382.50	478-2805-2-ND	3,000	585.00/M	06035J0R7PBT
		.80pF	±.02pF	478-2806-1-ND◊	15.30	101.25	382.50	478-2806-2-ND	3,000	585.00/M	06035J0R8PBT
		.90pF	±.02pF	478-2807-1-ND◊	15.30	101.25	382.50	478-2807-2-ND	3,000	585.00/M	06035J0R9PBT
		1.0pF	±.10pF	478-2808-1-ND◊	7.82	51.75	195.50	478-2808-2-ND	3,000	299.00/M	06035J1R0BBT
		1.1pF	±.10pF	478-2809-1-ND◊	7.82	51.75	195.50	478-2809-2-ND	3,000	299.00/M	06035J1R1BBT
		1.2pF	±.10pF	478-2810-1-ND◊	7.82	51.75	195.50	478-2810-2-ND	3,000	299.00/M	06035J1R2BBT
		1.5pF	±.10pF	478-2811-1-ND◊	7.82	51.75	195.50	478-2811-2-ND	3,000	299.00/M	06035J1R5BBT
		1.8pF	±.10pF	478-2812-1-ND◊	7.82	51.75	195.50	478-2812-2-ND	3,000	299.00/M	06035J1R8BBT
		2.0pF	±.10pF	478-2813-1-ND◊	7.82	51.75	195.50	478-2813-2-ND	3,000	299.00/M	06035J2R0BBT
		2.2pF	±.10pF	478-2814-1-ND◊	7.82	51.75	195.50	478-2814-2-ND	3,000	299.00/M	06035J2R2BBT
		2.4pF	±.10pF	478-2815-1-ND◊	7.82	51.75	195.50	478-2815-2-ND	3,000	299.00/M	06035J2R4BBT
		2.7pF	±.10pF	478-2816-1-ND◊	7.82	51.75	195.50	478-2816-2-ND	3,000	299.00/M	06035J2R7BBT
		3.0pF	±.10pF	478-2817-1-ND◊	7.82	51.75	195.50	478-2817-2-ND	3,000	299.00/M	06035J3R0BBT
		3.3pF	±.10pF	478-2818-1-ND◊	7.82	51.75	195.50	478-2818-2-ND	3,000	299.00/M	06035J3R3BBT
		3.9pF	±.10pF	478-2819-1-ND◊	7.82	51.75	195.50	478-2819-2-ND	3,000	299.00/M	06035J3R9BBT
		4.7pF	±.10pF	478-2820-1-ND◊	7.82	51.75	195.50	478-2820-2-ND	3,000	299.00/M	06035J4R7BBT
		5.6pF	±.10pF	478-2821-1-ND◊	7.82	51.75	195.50	478-2821-2-ND	3,000	299.00/M	06035J5R6BBT
		6.8pF	±.10pF	478-2822-1-ND◊	7.82	51.75	195.50	478-2822-2-ND	3,000	299.00/M	06035J6R8BBT
		8.2pF	±.10pF	478-2823-1-ND◊	7.82	51.75	195.50	478-2823-2-ND	3,000	299.00/M	06035J8R2BBT
		10pF	±2%	478-2824-1-ND◊	7.82	51.75	195.50	478-2824-2-ND	3,000	299.00/M	06035J100GBT
		12pF	±2%	478-2825-1-ND◊	7.82	51.75	195.50	478-2825-2-ND	3,000	299.00/M	06035J120GBT
	25V	15pF	±2%	478-2826-1-ND◊	7.82	51.75	195.50	478-2826-2-ND	3,000	299.00/M	06033J150GBT
		18pF	±2%	478-2827-1-ND◊	7.82	51.75	195.50	478-2827-2-ND	3,000	299.00/M	06033K180GBT
		22pF	±2%	478-2828-1-ND◊	7.82	51.75	195.50	478-2828-2-ND	3,000	299.00/M	06033J220GBT

Designer Kits

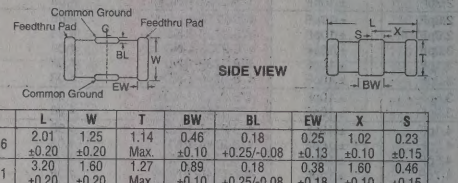
▫	478-2834-ND	*Accu-P/Type 2000*	20 each of values denoted plus values: (pF) 0.05, 0.15, 0.25, 0.35, 0.45, 0.55, 0.65, 0.75 not stocked by Digi-Key®. (600 total pieces)
†	478-2831-ND	*Accu-P/Type 1800*	20 each of values denoted plus values: (pF) 1.4, 1.6, 1.7, 1.9, 2.1, 2.3, 2.5, 2.6, 2.8, 2.9, 3.1, 3.4, 4.1, 4.3, 4.5 not stocked by Digi-Key®. (600 total pieces)
•	478-2835-ND	*Accu-P/Type 1700*	20 each of values denoted plus values: (pF) 0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8, 0.9, 1.0, 1.1, 1.2, 1.3, 1.5, 1.8, 2.0 not stocked by Digi-Key®. (300 total pieces)
††	478-2832-ND	*Accu-P/Type 2100*	20 each of values denoted plus values: (pF) 0.05, 0.15, 0.25, 0.35, 0.45, 0.55, 0.65, 0.75 not stocked by Digi-Key®. (600 total pieces)
§	478-2833-ND	*Accu-P/Type 1400*	20 each of values denoted plus value: (pF) 3.4 not stocked by Digi-Key®. (300 total pieces)
◊	478-2829-ND	*Accu-P/Type 900*	20 each of values denoted (600 total pieces)

E

Feedthru 0805/1206 Capacitors

Available in both a standard 0805 and 1206 size, AVX's line of feedthru capacitors are ideal choices for EMI suppression, broadband I/O filtering, or Vcc power line conditioning. The unique construction of a feedthru capacitor provides low parallel inductance and offers excellent decoupling capability for all high di/dt environments and provides significant noise reduction in digital circuits to <5 GHz.

Characteristics: • Current Rating: 300mA • Insulation Resistance: 1,000MΩ • DC Resistance: <0.6Ω • Operating Temperature: -55°C ~ 125°C



Dimensions (mm.)

Series	A	B	C	D	E	F	L	W	T	BW	BL	EW	X	S
0805	3.45	0.51	0.76	1.27	1.02	0.46	2.01 ±0.20	1.25 ±0.20	1.14 Max.	0.46 ±0.10	0.18 +0.25/-0.08	0.25 ±0.13	1.02 ±0.10	0.23 ±0.15
1206	4.54	0.94	1.02	1.65	1.09	0.71	3.20 ±0.20	1.60 ±0.20	1.27 Max.	0.89 ±0.10	0.18 +0.25/-0.08	0.38 ±0.18	1.60 ±0.10	0.46 ±0.15

Size Code	Type	WV DC	Capacitance	Capacitance Tolerance %	Digi-Key Part No.	Cut Tape Price Each 10	100	500	Digi-Key Part No.	Tape & Reel Pricing 1,000	AVX Part No.
0805	NPO	100V	220pF	+50%, -20%	478-2232-1-ND	1.07	.64	.37	478-2232-2-ND	174.60	W2F11A2218AT
	NPO	100V	470pF	+50%, -20%	478-2233-1-ND	1.07	.64	.37	478-2233-2-ND	174.60	W2F11A4718AT
	X7R	50V	1000pF	+50%, -20%	478-2234-1-ND	1.13	.67	.39	478-2234-2-ND	183.60	W2F15C1028AT
	X7R	50V	10,000pF	+50%, -20%	478-2235-1-ND	1.13	.67	.39	478-2235-2-ND	183.60	W2F15C1038AT
	X7R	50V	22,000pF	+50%, -20%	478-2236-1-ND	1.13	.67	.39	478-2236-2-ND	183.60	W2F15C2238AT
	X7R	50V	47,000pF	+50%, -20%	478-2237-1-ND	1.13	.67	.39	478-2237-2-ND	183.60	W2F15C4738AT
1206	NPO	100V	47pF	+50%, -20%	478-2238-1-ND	1.10	.65	.38	478-2238-2-ND	180.00	W3F11A4708AT
	X7R	50V	2200pF	+50%, -20%	478-2239-1-ND	1.16	.69	.40	478-2239-2-ND	189.00	W3F15C2228AT

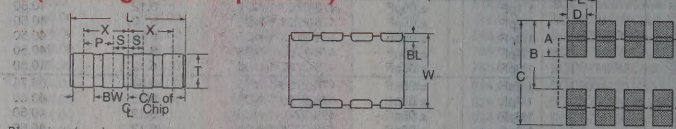
Low Inductance Capacitors 0612/0508 IDC (InterDigitated Capacitors)

Very low equivalent series inductance, surface mountable, high speed decoupling capacitor. Measured inductances of 120pH (for 0612) and 95 pH (for 0508) are the lowest in the FR4 mountable device family. Opposing current flow creates opposing magnetic fields. This causes the fields to cancel, effectively reducing the equivalent series inductance. Perfect solution for decoupling high speed microprocessors by allowing the engineers to lower the power delivery inductance of the entire system through the use of eight vias. Overall reduction in decoupling components due to very low series inductance and high capacitance.

Characteristics:

• Temperature Coefficient: ±15% (OVDC) • Dissipation Factor: 4V and 6.3V=6.5% Max., 10V=5.0% Max., 16V=3.5% Max. • Insulation Resistance (@+25°C, RVDC): 100,000MΩ Min., or 1,000MΩ per µF Min., whichever is less • CTE (ppm/C): 12.0 • Thermal Conductivity: 4-5W/M K • Terminations Available: Plated Nickel and Solder • Max. Thickness: 0.037" (0.95mm)

• Operating Temperature: **X7R:** -55°C ~ 125°C, **X5R:** -55°C ~ 85°C



Dimensions (mm.)

Series	A	B	C	D	E	L	T	W	BW	BL	P	X
0508	0.64	1.27	1.91	0.28	0.51	2.03 ±0.20	0.965 Max.	1.27 ±0.20	0.254 ±0.10	0.18 +0.25/-0.08	0.508 REF	0.76 ±0.10
0612	0.89	1.65	2.54	0.46	0.76	3.20 ±0.20	1.22 Max.	1.60 ±0.20	0.41 ±0.10	0.18 +0.25/-0.08	0.76 REF	1.14 ±0.10

Size Code	Type	WV DC	Capacitance	Capacitance Tolerance %	Digi-Key Part No.	Cut Tape Price Each 10	100	500	Digi-Key Part No.	Tape & Reel Size	Pricing	AVX Part No.
0508	X7R	16V	47000pF	±20%	478-2326-1-ND	3.52	2.08	1.20	478-2326-2-ND	4,000	576.00/M	W2L1YC473MAT1
		16V	68000pF	±20%	478-2327-1-ND	3.52	2.08	1.20	478-2327-2-ND	4,000	576.00/M	W2L1YC683MAT1
		16V	.1µF	±20%	478-2121-1-ND	3.63	2.15	1.24	478-2121-2-ND	4,000	594.00/M	W2L1YC104MAT1
		16V	.22µF	±20%	478-2329-1-ND	3.96	2.34	1.35	478-2329-2-ND	4,000	648.00/M	W2L1YC224MAT1
		10V	.1µF	±20%	478-2122-1-ND	3.63	2.15	1.24	478-2122-2-ND	4,000	594.00/M	W2L1ZC104MAT1
		10V	.22µF	±20%	478-2328-1-ND	3.85	2.28	1.32	478-2328-2-ND	4,000	630.00/M	W3L1ZC224MAT1
		10V	.47µF	±20%	478-2123-1-ND	3.85	2.28	1.32	478-2123-2-ND	4,000	630.00/M	W2L1ZC474MAT1
		4.0V	.33µF	±20%	478-2330-1-ND	4.29	2.54	1.47	478-2330-2-ND	4,000	702.00/M	W2L14C334MAT1
		4.0V	1.0µF	±20%	478-2126-1-ND	4.29	2.54	1.47	478-2126-2-ND	4,000	702.00/M	W2L14C105MAT1
	X5R	10V	.33µF	±20%	478-2331-1-ND	4.18	2.47	1.43	478-2331-2-ND	4,000	684.00/M	W2L1ZD334MAT1
		10V	.47µF	±20%	478-2124-1-ND	3.85	2.28	1.32	478-2124-2-ND	4,000	630.00/M	W2L1ZD474MAT1
		6.3V	1.0µF	±20%	478-2125-1-ND	4.40	2.60	1.50	478-2125-2-ND	4,000	720.00/M	W2L16D105MAT1
		4.0V	1.5µF	±20%	478-2127-1-ND	3.85	2.28	1.32	478-2127-2-ND	4,000	630.00/M	W2L14D155MAT1
0612	X7R	16V	.22µF	±20%	478-2335-1-ND	3.85	2.28	1.32	478-2335-2-ND	4,000	630.00/M	W3L1YC224MAT1
		16V	.33µF	±20%	478-2334-1-ND	3.96	2.34	1.35	478-2334-2-ND	4,000	648.00/M	W3L1YC334MAT1
		16V	.47µF	±20%	478-2128-1-ND	4.09	2.42	1.40	478-2128-2-ND	4,000	667.80/M	W3L1YC474MAT1
		10V	.68µF	±20%	478-2333-1-ND	4.24	2.51	1.45	478-2333-2-ND	2,000	693.00/M	W3L1ZC684MAT1
		10V	1.0µF	±20%	478-2129-1-ND	4.62	2.73	1.58	478-2129-2-ND	2,000	756.00/M	W3L1ZC105MAT1
		4.0V	2.2µF	±20%	478-2131-1-ND	4.95	2.93	1.69	478-2131-2-ND	2,000	810.00/M	W3L14C225MAT1
	X5R	10V	2.2µF	±20%	478-2332-1-ND	4.62	2.73	1.58	478-2332-2-ND	4,000	756.00/M	W3L1ZD225MAT1
		6.3V	2.2µF	±20%	478-2130-1-ND	4.95	2.93	1.69	478-2130-2-ND	4,000	810.00/M	W3L16D225MAT1
		4.0V	3.3µF	±20%	478-2132-1-ND	4.95	2.93	1.69	478-2132-2-ND	4,000	810.00/M	W3L14D335MAT1

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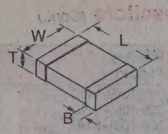
EMET Multilayer Ceramic Chip Capacitors

ET multilayer ceramic chip capacitors are produced in plants designed specifically for chip capacitor facture. The process features a high degree of mechanization as well as precise controls over raw materials and ss conditions. Manufacturing is supplemented by extensive technology, Engineering and Quality Assurance ams. Standard end terminations use a nickel barrier layer and a tin overplate to provide excellent solderability.



Size Code (EIA)	L	W	B
0402	1.00±0.05	0.50±0.05	0.20 – 0.40
0603	1.60±0.15	0.80±0.15	0.35±0.15
0805	2.00±0.20	1.25±0.20	0.50±0.25
1206	3.20±0.20	1.60±0.20	0.50±0.25
1210	3.20±0.20	2.50±0.20	0.50±0.25
1808	4.50±0.30	2.00±0.20	0.60±0.35
1812	4.50±0.30	3.20±0.30	0.60±0.35
1825	4.50±0.30	6.40±0.40	0.60±0.35
2225	5.60±0.40	6.40±0.40	0.60±0.35

se re	Type	WV DC	Capacitance	Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Digi-Key Part No.	Tape and Reel Size	Pricing	Kemet Part No.
		50	.5pF	±0.25pF	0.5	399-1000-1-ND	3.88	22.95	66.19	399-1000-2-ND	10,000	64.00/M	C0402C508C5GACTU
		50	1.2pF	±0.25pF	0.5	399-1001-1-ND	.61	3.58	10.31	399-1001-2-ND	10,000	10.00/M	C0402C129C5GACTU
		50	1.5pF	±0.25pF	0.5	399-1002-1-ND	.61	3.58	10.31	399-1002-2-ND	10,000	10.00/M	C0402C159C5GACTU
		50	1.8pF	±0.25pF	0.5	399-1003-1-ND	.61	3.58	10.31	399-1003-2-ND	10,000	10.00/M	C0402C189C5GACTU
		50	2.0pF	±0.25pF	0.5	399-1004-1-ND	4.09	24.18	69.75	399-1004-2-ND	10,000	67.00/M	C0402C209C5GACTU
		50	2.7pF	±0.25pF	0.5	399-1005-1-ND	.61	3.58	10.31	399-1005-2-ND	10,000	10.00/M	C0402C279C5GACTU
		50	3.0pF	±0.25pF	0.5	399-1006-1-ND	4.09	24.18	69.75	399-1006-2-ND	10,000	67.00/M	C0402C309C5GACTU
		50	3.3pF	±0.25pF	0.5	399-1007-1-ND	.61	3.58	10.31	399-1007-2-ND	10,000	10.00/M	C0402C339C5GACTU
		50	5.6pF	±0.5pF	0.5	399-1008-1-ND	3.41	20.15	58.13	399-1008-2-ND	10,000	56.00/M	C0402C569D5GACTU
		50	8.2pF	±0.5pF	0.5	399-1009-1-ND	3.41	20.15	58.13	399-1009-2-ND	10,000	56.00/M	C0402C829D5GACTU
		50	9.1pF	±0.5pF	0.5	399-1010-1-ND	4.09	24.18	69.75	399-1010-2-ND	10,000	67.00/M	C0402C919D5GACTU
		50	10pF	±5%	0.5	399-1011-1-ND	.50	2.93	8.44	399-1011-2-ND	10,000	8.00/M	C0402C100J5GACTU
		50	11pF	±5%	0.5	399-1012-1-ND	4.62	27.30	78.75	399-1012-2-ND	10,000	76.00/M	C0402C110J5GACTU
	C0G	50	12pF	±5%	0.5	399-1013-1-ND	.53	3.12	9.00	399-1013-2-ND	10,000	9.00/M	C0402C120J5GACTU
	(NP0)	50	15pF	±5%	0.5	399-1014-1-ND	.53	3.12	9.00	399-1014-2-ND	10,000	9.00/M	C0402C150J5GACTU
		50	22pF	±5%	0.5	399-1015-1-ND	.53	3.12	9.00	399-1015-2-ND	10,000	9.00/M	C0402C220J5GACTU
		50	27pF	±5%	0.5	399-1016-1-ND	.53	3.12	9.00	399-1016-2-ND	10,000	9.00/M	C0402C270J5GACTU
		50	33pF	±5%	0.5	399-1017-1-ND	.53	3.12	9.00	399-1017-2-ND	10,000	9.00/M	C0402C330J5GACTU
		50	39pF	±5%	0.5	399-1018-1-ND	.53	3.12	9.00	399-1018-2-ND	10,000	9.00/M	C0402C390J5GACTU
		50	47pF	±5%	0.5	399-1019-1-ND	.53	3.12	9.00	399-1019-2-ND	10,000	9.00/M	C0402C470J5GACTU
		50	56pF	±5%	0.5	399-1020-1-ND	.53	3.12	9.00	399-1020-2-ND	10,000	9.00/M	C0402C560J5GACTU
		50	75pF	±5%	0.5	399-3191-1-ND	4.62	27.30	78.75	399-3191-2-ND	10,000	76.00/M	C0402C750J5GACTU
		50	82pF	±5%	0.5	399-3192-1-ND	3.85	22.75	65.63	399-3192-2-ND	10,000	63.00/M	C0402C820J5GACTU
		50	91pF	±5%	0.5	399-3193-1-ND	4.62	27.30	78.75	399-3193-2-ND	10,000	76.00/M	C0402C910J5GACTU
		50	100pF	±5%	0.5	399-3194-1-ND	3.85	22.75	65.63	399-3194-2-ND	10,000	63.00/M	C0402C101J5GACTU
		25	82pF	±5%	0.5	399-1021-1-ND	3.85	22.75	65.63	399-1021-2-ND	10,000	63.00/M	C0402C820J3GACTU
		25	100pF	±5%	0.5	399-1022-1-ND	.53	3.12	9.00	399-1022-2-ND	10,000	9.00/M	C0402C101J3GACTU
		50	220pF	±10%	0.5	399-1030-1-ND	4.07	24.05	69.38	399-1030-2-ND	10,000	67.00/M	C0402C221K5RACTU
		50	330pF	±10%	0.5	399-1023-1-ND	4.07	24.05	69.38	399-1023-2-ND	10,000	67.00/M	C0402C331K5RACTU
		50	470pF	±10%	0.5	399-1025-1-ND	4.07	24.05	69.38	399-1025-2-ND	10,000	67.00/M	C0402C471K5RACTU
		50	560pF	±10%	0.5	399-1026-1-ND	.73	4.29	12.38	399-1026-2-ND	10,000	12.00/M	C0402C561K5RACTU
		50	680pF	±10%	0.5	399-1027-1-ND	.73	4.29	12.38	399-1027-2-ND	10,000	12.00/M	C0402C681K5RACTU
		50	1000pF	±10%	0.5	399-1032-1-ND	.55	3.25	9.38	399-1032-2-ND	10,000	9.00/M	C0402C102K5RACTU
		50	1200pF	±10%	0.5	399-1028-1-ND	.73	4.29	12.38	399-1028-2-ND	10,000	12.00/M	C0402C122K5RACTU
		50	1500pF	±10%	0.5	399-1029-1-ND	4.07	24.05	69.38	399-1029-2-ND	10,000	67.00/M	C0402C152K5RACTU
		50	1800pF	±10%	0.5	399-3067-1-ND	4.07	24.05	69.38	399-3067-2-ND	10,000	67.00/M	C0402C182K5RACTU
		50	2200pF	±10%	0.5	399-3068-1-ND	4.07	24.05	69.38	399-3068-2-ND	10,000	67.00/M	C0402C222K5RACTU
02		50	2700pF	±10%	0.5	399-3069-1-ND	4.07	24.05	69.38	399-3069-2-ND	10,000	67.00/M	C0402C272K5RACTU
		50	3300pF	±10%	0.5	399-3070-1-ND	4.07	24.05	69.38	399-3070-2-ND	10,000	67.00/M	C0402C332K5RACTU
		50	3900pF	±10%	0.5	399-3071-1-ND	4.07	24.05	69.38	399-3071-2-ND	10,000	67.00/M	C0402C392K5RACTU
		50	4700pF	±10%	0.5	399-3072-1-ND	4.07	24.05	69.38	399-3072-2-ND	10,000	67.00/M	C0402C472K5RACTU
		50	5600pF	±10%	0.5	399-3073-1-ND	2.44	14.43	41.63	399-3073-2-ND	10,000	40.00/M	C0402C562K5RACTU
	X7R	50	6800pF	±10%	0.5	399-3074-1-ND	2.44	14.43	41.63	399-3074-2-ND	10,000	40.00/M	C0402C682K5RACTU
		50	8200pF	±10%	0.5	399-3075-1-ND	2.44	14.43	41.63	399-3075-2-ND	10,000	40.00/M	C0402C822K5RACTU
		50	10000pF	±10%	0.5	399-3066-1-ND	2.31	13.65	39.38	399-3066-2-ND	10,000	38.00/M	C0402C103K5RACTU
		25	470pF	±10%	0.5	399-1024-1-ND	4.07	24.05	69.38	399-1024-2-ND	10,000	67.00/M	C0402C471K3RACTU
		25	1000pF	±10%	0.5	399-1031-1-ND	3.85	22.75	65.63	399-1031-2-ND	10,000	63.00/M	C0402C102K3RACTU
		25	2200pF	±10%	0.5	399-1033-1-ND	.63	3.71	10.69	399-1033-2-ND	10,000	10.00/M	C0402C222K3RACTU
		25	3900pF	±10%	0.5	399-1034-1-ND	.55	3.25	9.38	399-1034-2-ND	10,000	9.00/M	C0402C392K3RACTU
		25	4700pF	±10%	0.5	399-1035-1-ND	.55	3.25	9.38	399-1035-2-ND	10,000	9.00/M	C0402C472K3RACTU
		25	5600pF	±10%	0.5	399-1276-1-ND	2.44	14.43	41.63	399-1276-2-ND	10,000	40.00/M	C0402C562K3RACTU
		25	8200pF	±10%	0.5	399-1277-1-ND	2.44	14.43	41.63	399-1277-2-ND	10,000	40.00/M	C0402C822K3RACTU
		25	10000pF	±5%	0.5	399-1279-1-ND	5.39	31.85	91.88	399-1279-2-ND	10,000	88.00/M	C0402C103J3RACTU
		25	10000pF	±10%	0.5	399-1278-1-ND	.55	3.25	9.38	399-1278-2-ND	10,000	9.00/M	C0402C103K3RACTU
		16	5600pF	±10%	0.5	399-1036-1-ND	4.07	24.05	69.38	399-1036-2-ND	10,000	67.00/M	C0402C562K4RACTU
		16	8200pF	±10%	0.5	399-1037-1-ND	4.07	24.05	69.38	399-1037-2-ND	10,000	67.00/M	C0402C822K4RACTU
		16	10000pF	±5%	0.5	399-1039-1-ND	5.39	31.85	91.88	399-1039-2-ND	10,000	88.00/M	C0402C103J4RACTU
		16	10000pF	±10%	0.5	399-1038-1-ND	.55	3.25	9.38	399-1038-2-ND	10,000	9.00/M	C0402C103K4RACTU
		10	12000pF	±10%	0.5	399-3009-1-ND	2.31	13.65	39.38	399-3009-2-ND	10,000	38.00/M	C0402C123K8PACTU
		10	15000pF	±10%	0.5	399-3011-1-ND	2.31	13.65	39.38	399-3011-2-ND	10,000	38.00/M	C0402C153K8PACTU
		10	18000pF	±10%	0.5	399-3013-1-ND	2.31	13.65	39.38	399-3013-2-ND	10,000	38.00/M	C0402C183K8PACTU
		10	22000pF	±10%	0.5	399-3015-1-ND	2.42	14.30	41.25	399-3015-2-ND	10,000	40.00/M	C0402C223K8PACTU
		10	27000pF	±10%	0.5	399-3017-1-ND	2.42	14.30	41.25	399-3017-2-ND	10,000	40.00/M	C0402C273K8PACTU
		10	33000pF	±10%	0.5	399-3019-1-ND	2.53	14.95	43.13	399-3019-2-ND	10,000	41.00/M	C0402C333K8PACTU
		10	47000pF	±10%	0.5	399-3021-1-ND	2.64	15.60	45.00	399-3021-2-ND	10,000	43.00/M	C0402C473K8PACTU
		10	68000pF	±10%	0.5	399-3023-1-ND	2.75	16.25	46.88	399-3023-2-ND	10,000	45.00/M	C0402C683K8PACTU
	X5R	10	.1µF	±10%	0.5	399-3027-1-ND	.83	4.88	14.06	399-3027-2-ND	10,000	14.00/M	C0402C104K8PACTU
		6.3	12000pF	±10%	0.5	399-3008-1-ND	2.31	13.65	39.38	399-3008-2-ND	10,000	38.00/M	C0402C123K9PACTU
		6.3	15000pF	±10%	0.5	399-3010-1-ND	2.31	13.65	39.38	399-3010-2-ND	10,000	38.00/M	C0402C153K9PACTU
		6.3	18000pF	±10%	0.5	399-3012-1-ND	2.31	13.65	39.38	399-3012-2-ND	10,000	38.00/M	C0402C183K9PACTU
		6.3	22000pF	±10%	0.5	399-3014-1-ND	2.42	14.30	41.25	399-3014-2-ND	10,000	40.00/M	C0402C223K9PACTU
		6.3	27000pF	±10%	0.5	399-3016-1-ND	2.42	14.30	41.25	399-3016-2-ND	10,000	40.00/M	C0402C273K9PACTU
		6.3	33000pF	±10%	0.5	399-3018-1-ND	2.53	14.95	43.13	399-3018-2-ND	10,000	41.00/M	C0402C333K9PACTU
		6.3	47000pF	±10%	0.5	399-3020-1-ND	2.64	15.60	45.00	399-3020-2-ND	10,000	43.00/M	C0402C473K9PACTU
		6.3	68000pF	±10%	0.5	399-3022-1-ND	2.75	16.25	46.88	399-3022-2-ND	10,000	45.00/M	C0402C683K9PACTU
		6.3	.1µF	±10%	0.5	399-3026-1-ND	.44	2.60	7.50	399-3026-2-ND	10,000	7.00/M	C0402C104K9PACTU
		50	.5pF	±0.25pF	0.8	399-1044-1-ND	4.88	28.86	83.25	399-1044-2-ND	4,000	80.00/M	C0603C508C5GACTU
		50	1.0pF	±0.25pF	0.8	399-1045-1-ND	4.07	24.05	69.38	399-1045-2-ND	4,000	67.00/M	C0603C109C5GACTU
		50	1.5pF	±0.25pF	0.8	399-1046-1-ND	4.07	24.05	69.38	399-1046-2-ND	4,000	67.00/M	C0603C159C5GACTU
		50	2.0pF	±0.25pF	0.8	399-1047-1-ND	4.88	28.86	83.25	399-1047-2-ND	4,000	80.00/M	C0603C209C5GACTU
		50	3.0pF	±0.25pF	0.8	399-1048-1-ND	4.88	28.86	83.25	399-1048-2-ND	4,000	80.00/M	C0603C309C5GACTU
		50	10pF	±5%	0.8	399-1049-1-ND	.72	4.23	12.19	399-1049-2-ND	4,000	12.00/M	C0603C100J5GACTU
		50	12pF	±5%	0.8	399-1050-1-ND	2.31	13.65	39.38	399-1050-2-ND	4,000	38.00/M	C0603C120J5GACTU
03	C0G	50	15pF	±5%	0.8	399-1051-1-ND	.72	4.23	12.19	399-1051-2-ND	4,000	12.00/M	C0603C150J5GACTU
	(NP0)	50	18pF	±5%	0.8	399-1052-1-ND	2.31	13.65	39.38	399-1052-2-ND	4,000	38.00/M	C0603C180J5GACTU
		50	22pF	±5%	0.8	399-1053-1-ND	.72	4.23	12.19	399-1053-2-ND	4,000	12.00/M	C0603C220J5GACTU
		50	27pF	±5%	0.8	399-1054-1-ND	.72	4.23	12.19	399-1054-2-ND	4,000	12.00/M	C0603C270J5GACTU
		50	33pF	±5%	0.8	399-1055-1-ND	2.31	13.65	39.38	399-1055-2-ND	4,000	38.00/M	C0603C330J5GACTU
		50	47pF	±5%	0.8	399-1056-1-ND	.72	4.23	12.19	399-1056-2-ND	4,000	12.00/M	C0603C470J5GACTU
		50	56pF	±5%	0.8	399-1057-1-ND	2.31	13.65	39.38	399-1057-2-ND	4,000	38.00/M	C0603C560J5GACTU
		50	.68pF	±5%	0.8	399-1058-1-ND	2.31	13.65	39.38	399-1058-2-ND	4,000	38.00/M	C0603C680J5GACTU

E: Parts with improved tolerances or voltages may be substituted within the same case size. These parts will provide performance equal to or better than those which you ordered. (Continued)

Case Size	Type	WV DC	Capacitance	Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Digi-Key Part No.	Tape and Reel Size	Pricing	Kemet Part No.
		50	82pF	±5%	0.8	399-1060-1-ND	2.31	13.65	39.38	399-1060-2-ND	4,000	38.00/M	C0603C820J5GACTU
		50	82pF	±10%	0.8	399-1059-1-ND	2.20	13.00	37.50	399-1059-2-ND	4,000	36.00/M	C0603C820K5GACTU
		50	100pF	±5%	0.8	399-1061-1-ND	.72	4.23	12.19	399-1061-2-ND	4,000	12.00/M	C0603C101J5GACTU
		50	120pF	±5%	0.8	399-1062-1-ND	2.53	14.95	43.13	399-1062-2-ND	4,000	41.00/M	C0603C121J5GACTU
		50	150pF	±5%	0.8	399-1063-1-ND	1.10	6.50	18.75	399-1063-2-ND	4,000	18.00/M	C0603C151J5GACTU
		50	180pF	±5%	0.8	399-1064-1-ND	.97	5.72	16.50	399-1064-2-ND	4,000	16.00/M	C0603C181J5GACTU
		50	220pF	±5%	0.8	399-1066-1-ND	.97	5.72	16.50	399-1066-2-ND	4,000	16.00/M	C0603C221J5GACTU
		50	220pF	±10%	0.8	399-1065-1-ND	2.64	15.60	45.00	399-1065-2-ND	4,000	43.00/M	C0603C221K5GACTU
	C0G	50	270pF	±5%	0.8	399-1067-1-ND	.88	5.20	15.00	399-1067-2-ND	4,000	14.00/M	C0603C271J5GACTU
	(NP0)	50	330pF	±5%	0.8	399-1068-1-ND	2.97	17.55	50.63	399-1068-2-ND	4,000	49.00/M	C0603C331J5GACTU
		50	390pF	±5%	0.8	399-1069-1-ND	2.97	17.55	50.63	399-1069-2-ND	4,000	49.00/M	C0603C391J5GACTU
		50	560pF	±5%	0.8	399-3287-1-ND	3.19	18.85	54.38	399-3287-2-ND	4,000	52.00/M	C0603C561J5GACTU
		50	620pF	±5%	0.8	399-3288-1-ND	3.85	22.75	65.63	399-3288-2-ND	4,000	63.00/M	C0603C621J5GACTU
		50	680pF	±5%	0.8	399-3289-1-ND	3.19	18.85	54.38	399-3289-2-ND	4,000	52.00/M	C0603C681J5GACTU
		50	750pF	±5%	0.8	399-3290-1-ND	3.96	23.40	67.50	399-3290-2-ND	4,000	65.00/M	C0603C751J5GACTU
		50	820pF	±5%	0.8	399-3291-1-ND	3.30	19.50	56.25	399-3291-2-ND	4,000	54.00/M	C0603C821J5GACTU
		50	910pF	±5%	0.8	399-3292-1-ND	4.09	24.18	69.75	399-3292-2-ND	4,000	67.00/M	C0603C911J5GACTU
		50	1000pF	±5%	0.8	399-3293-1-ND	3.41	20.15	58.13	399-3293-2-ND	4,000	56.00/M	C0603C102J5GACTU
		100	5600pF	±10%	0.8	399-3186-1-ND	3.30	19.50	56.25	399-3186-2-ND	4,000	54.00/M	C0603C562K1RACTU
		100	6800pF	±10%	0.8	399-3187-1-ND	3.30	19.50	56.25	399-3187-2-ND	4,000	54.00/M	C0603C682K1RACTU
		100	8200pF	±10%	0.8	399-3188-1-ND	3.30	19.50	56.25	399-3188-2-ND	4,000	54.00/M	C0603C822K1RACTU
		100	10000pF	±5%	0.8	399-3190-1-ND	4.95	29.25	84.38	399-3190-2-ND	4,000	81.00/M	C0603C103J1RACTU
		100	10000pF	±10%	0.8	399-3189-1-ND	3.30	19.50	56.25	399-3189-2-ND	4,000	54.00/M	C0603C103K1RACTU
		100	.012µF	±10%	0.8	399-3473-1-ND **NEW!**	3.30	19.50	56.25	399-3473-2-ND **NEW!**	4,000	54.00/M	C0603C123K1RACTU
		100	.015µF	±10%	0.8	399-3474-1-ND **NEW!**	3.30	19.50	56.25	399-3474-2-ND **NEW!**	4,000	54.00/M	C0603C153K1RACTU
		100	.018µF	±10%	0.8	399-3475-1-ND **NEW!**	3.30	19.50	56.25	399-3475-2-ND **NEW!**	4,000	54.00/M	C0603C183K1RACTU
		100	.022µF	±10%	0.8	399-3476-1-ND **NEW!**	3.30	19.50	56.25	399-3476-2-ND **NEW!**	4,000	54.00/M	C0603C223K1RACTU
		100	.027µF	±10%	0.8	399-3477-1-ND **NEW!**	3.30	19.50	56.25	399-3477-2-ND **NEW!**	4,000	54.00/M	C0603C273K1RACTU
		100	.033µF	±10%	0.8	399-3478-1-ND **NEW!**	3.30	19.50	56.25	399-3478-2-ND **NEW!**	4,000	54.00/M	C0603C333K1RACTU
		100	.039µF	±10%	0.8	399-3479-1-ND **NEW!**	3.30	19.50	56.25	399-3479-2-ND **NEW!**	4,000	54.00/M	C0603C393K1RACTU
		50	220pF	±10%	0.8	399-1071-1-ND	.77	4.55	13.13	399-1071-2-ND	4,000	13.00/M	C0603C221K5RACTU
		50	220pF	±20%	0.8	399-1070-1-ND	2.75	16.25	46.88	399-1070-2-ND	4,000	45.00/M	C0603C221M5RACTU
		50	270pF	±10%	0.8	399-1072-1-ND	2.86	16.90	48.75	399-1072-2-ND	4,000	47.00/M	C0603C271K5RACTU
		50	330pF	±10%	0.8	399-1073-1-ND	2.86	16.90	48.75	399-1073-2-ND	4,000	47.00/M	C0603C331K5RACTU
		50	390pF	±10%	0.8	399-1074-1-ND	2.86	16.90	48.75	399-1074-2-ND	4,000	47.00/M	C0603C391K5RACTU
		50	470pF	±10%	0.8	399-1075-1-ND	.66	3.90	11.25	399-1075-2-ND	4,000	11.00/M	C0603C471K5RACTU
		50	560pF	±10%	0.8	399-1076-1-ND	2.86	16.90	48.75	399-1076-2-ND	4,000	47.00/M	C0603C561K5RACTU
		50	680pF	±10%	0.8	399-1077-1-ND	2.86	16.90	48.75	399-1077-2-ND	4,000	47.00/M	C0603C681K5RACTU
	X7R	50	820pF	±10%	0.8	399-1078-1-ND	2.86	16.90	48.75	399-1078-2-ND	4,000	47.00/M	C0603C821K5RACTU
		50	1000pF	±5%	0.8	399-1083-1-ND	.80	4.75	13.69	399-1083-2-ND	4,000	13.00/M	C0603C102J5RACTU
		50	1000pF	±10%	0.8	399-1082-1-ND	.53	3.12	9.00	399-1082-2-ND	4,000	9.00/M	C0603C102K5RACTU
		50	1500pF	±10%	0.8	399-1084-1-ND	2.86	16.90	48.75	399-1084-2-ND	4,000	47.00/M	C0603C152K5RACTU
		50	2200pF	±10%	0.8	399-1085-1-ND	.64	3.77	10.88	399-1085-2-ND	4,000	10.00/M	C0603C222K5RACTU
		50	3300pF	±10%	0.8	399-1086-1-ND	2.86	16.90	48.75	399-1086-2-ND	4,000	47.00/M	C0603C332K5RACTU
		50	4700pF	±5%	0.8	399-1088-1-ND	4.29	25.35	73.13	399-1088-2-ND	4,000	70.00/M	C0603C472J5RACTU
0603		50	4700pF	±10%	0.8	399-1087-1-ND	2.86	16.90	48.75	399-1087-2-ND	4,000	47.00/M	C0603C472K5RACTU
		50	6800pF	±5%	0.8	399-1090-1-ND	4.29	25.35	73.13	399-1090-2-ND	4,000	70.00/M	C0603C682J5RACTU
		50	6800pF	±10%	0.8	399-1089-1-ND	2.86	16.90	48.75	399-1089-2-ND	4,000	47.00/M	C0603C682K5RACTU
		50	10000pF	±5%	0.8	399-1092-1-ND	.80	4.75	13.69	399-1092-2-ND	4,000	13.00/M	C0603C103J5RACTU
		50	10000pF	±10%	0.8	399-1091-1-ND	.42	2.47	7.13	399-1091-2-ND	4,000	7.00/M	C0603C103K5RACTU
		50	22000pF	±10%	0.8	399-1280-1-ND	3.19	18.85	54.38	399-1280-2-ND	4,000	52.00/M	C0603C223K5RACTU
		25	22000pF	±10%	0.8	399-1094-1-ND	2.31	13.65	39.38	399-1094-2-ND	4,000	38.00/M	C0603C223K3RACTU
		25	.10µF	±5%	0.8	399-1282-1-ND	4.62	27.30	78.75	399-1282-2-ND	4,000	76.00/M	C0603C104J3RACTU
		25	.10µF	±10%	0.8	399-1281-1-ND	1.18	6.96	20.06	399-1281-2-ND	4,000	19.00/M	C0603C104K3RACTU
		25	.10µF	±20%	0.8	399-1283-1-ND	3.23	19.11	55.13	399-1283-2-ND	4,000	53.00/M	C0603C104M3RACTU
		16	22000pF	±10%	0.8	399-1093-1-ND	2.31	13.65	39.38	399-1093-2-ND	4,000	38.00/M	C0603C223K4RACTU
		16	.10µF	±5%	0.8	399-1097-1-ND	.83	4.88	14.06	399-1097-2-ND	4,000	14.00/M	C0603C104J4RACTU
		16	.10µF	±10%	0.8	399-1096-1-ND	.55	3.25	9.38	399-1096-2-ND	4,000	9.00/M	C0603C104K4RACTU
		16	.10µF	±20%	0.8	399-1099-1-ND	.55	3.25	9.38	399-1099-2-ND	4,000	9.00/M	C0603C104M4RACTU
		10	.10µF	±10%	0.8	399-1095-1-ND	.88	5.20	15.00	399-1095-2-ND	4,000	14.00/M	C0603C104K8RACTU
		10	.27µF	±10%	0.8	399-3111-1-ND	2.60	15.34	44.25	399-3111-2-ND	4,000	42.00/M	C0603C274K8PACTU
		10	.33µF	±10%	0.8	399-3112-1-ND	2.60	15.34	44.25	399-3112-2-ND	4,000	42.00/M	C0603C334K8PACTU
		10	.39µF	±10%	0.8	399-3113-1-ND	2.60	15.34	44.25	399-3113-2-ND	4,000	42.00/M	C0603C394K8PACTU
		10	.47µF	±10%	0.8	399-3114-1-ND	2.60	15.34	44.25	399-3114-2-ND	4,000	42.00/M	C0603C474K8PACTU
		10	.56µF	±10%	0.8	399-3115-1-ND	2.60	15.34	44.25	399-3115-2-ND	4,000	42.00/M	C0603C564K8PACTU
		10	.68µF	±10%	0.8	399-3116-1-ND	2.60	15.34	44.25	399-3116-2-ND	4,000	42.00/M	C0603C684K8PACTU
		10	.82µF	±10%	0.8	399-3117-1-ND	2.60	15.34	44.25	399-3117-2-ND	4,000	42.00/M	C0603C824K8PACTU
	X5R	10	1.0µF	±10%	0.8	399-3118-1-ND	1.98	11.70	33.75	399-3118-2-ND	4,000	32.00/M	C0603C105K8PACTU
		6.3	1.2µF	±10%	0.8	399-3359-1-ND	3.03	17.88	51.56	399-3359-2-ND	4,000	50.00/M	C0603C125K9PACTU
		6.3	1.5µF	±10%	0.8	399-3360-1-ND	3.03	17.88	51.56	399-3360-2-ND	4,000	50.00/M	C0603C155K9PACTU
		6.3	1.8µF	±10%	0.8	399-3361-1-ND	3.25	19.18	55.31	399-3361-2-ND	4,000	53.00/M	C0603C185K9PACTU
		6.3	2.2µF	±10%	0.8	399-3362-1-ND	4.40	26.00	75.00	399-3362-2-ND	4,000	72.00/M	C0603C225K9PACTU
		6.3	2.7µF	±10%	0.8	399-3480-1-ND **NEW!**	6.05	35.75	103.13	399-3480-2-ND **NEW!**	4,000	99.00/M	C0603C275K9PACTU
		6.3	3.3µF	±10%	0.8	399-3481-1-ND **NEW!**	6.05	35.75	103.13	399-3481-2-ND **NEW!**	4,000	99.00/M	C0603C335K9PACTU
		6.3	4.7µF	±10%	0.8	399-3482-1-ND **NEW!**	6.05	35.75	103.13	399-3482-2-ND **NEW!**	4,000	99.00/M	C0603C475K9PACTU
		25	.10µF	+80%, -20%	0.8	399-1100-1-ND	.55	3.25	9.38	399-1100-2-ND	4,000	9.00/M	C0603C104Z3VACTU
		25	.10µF	±20%	0.8	399-1101-1-ND	.61	3.58	10.31	399-1101-2-ND	4,000	10.00/M	C0603C104M3VACTU
		25	.15µF	+80%, -20%	0.8	399-1290-1-ND	2.90	17.16	49.50	399-1290-2-ND	4,000	48.00/M	C0603C154Z3VACTU
		25	.22µF	+80%, -20%	0.8	399-1103-1-ND	3.10	18.33	52.88	399-1103-2-ND	4,000	51.00/M	C0603C224Z3VACTU
		25	.33µF	+80%, -20%	0.8	399-1292-1-ND	3.41	20.15	58.13	399-1292-2-ND	4,000	56.00/M	C0603C334Z3VACTU
		16	.10µF	+80%, -20%	0.8	399-1098-1-ND	.55	3.25	9.38	399-1098-2-ND	4,000	9.00/M	C0603C104Z4VACTU
		16	.15µF	+80%, -20%	0.8	399-1289-1-ND	2.83	16.71	48.19	399-1289-2-ND	4,000	46.00/M	C0603C154Z4VACTU
	Y5V	16	.22µF	+80%, -20%	0.8	399-1102-1-ND	1.07	6.31	18.19	399-1102-2-ND	4,000	17.00/M	C0603C224Z4VACTU
		16	.33µF	+80%, -20%	0.8	399-1291-1-ND	2.97	17.55	50.63	399-1291-2-ND	4,000	49.00/M	C0603C334Z4VACTU
		10	.47µF	+80%, -20%	0.8	399-3218-1-ND	2.92	17.23	49.69	399-3218-2-ND	4,000	48.00/M	C0603C474Z8VACTU
		10	.68µF	+80%, -20%	1.0	399-3220-1-ND	3.96	23.40	67.50	399-3220-2-ND	4,000	65.00/M	C0603C684Z8VACTU
		10	1µF	+80%, -20%	1.25	399-3216-1-ND	1.32	7.80	22.50	399-3216-2-ND	4,000	22.00/M	C0603C105Z8VACTU
		6.3	.47µF	+80%, -20%	0.8	399-3219-1-ND	2.92	17.23	49.69	399-3219-2-ND	4,000	48.00/M	C0603C474Z9VACTU
		6.3	.68µF	+80%, -20%	1.0	399-3221-1-ND	3.96	23.40	67.50	399-3221-2-ND	4,000	65.00/M	C0603C684Z9VACTU
		6.3	1µF	+80%, -20%	1.25	399-3217-1-ND	1.32	7.80	22.50	399-3217-2-ND	4,000	22.00/M	C0603C105Z9VACTU
		100	10pF	±5%	0.78	399-1109-1-ND	1.21	7.15	20.63	399-1109-2-ND	4,000	20.00/M	C0805C100J1GACTU
		100	100pF	±5%	0.78	399-1123-1-ND	1.21	7.15	20.63	399-1123-2-ND	4,000	20.00/M	C0805C101J1GACTU
		100	220pF	±5%	0.78	399-1128-1-ND	3.08	18.20	52.50	399-1128-2-ND	4,000	50.00/M	C0805C221J1GACTU
		100	330pF	±5%	0.78	399-1131-1-ND	1.21	7.15	20.63	399-1131-2-ND	4,000	20.00/M	C0805C331J1GACTU
0805	C0G (NP0)	100	1000pF	±5%	0.9	399-1137-1-ND	4.07	24.05	69.38	399-1137-2-ND	2,500	67.00/M	C0805C102J1GACTU
		50	1.0pF	±0.25pF	0.78	399-1104-1-ND	3.85	22.75	65.63	399-1104-2-ND	4,000	63.00/M	C0805C109C5GACTU
		50	1.5pF	±0.25pF	0.78	399-1105-1-ND	3.85	22.75	65.63	399-1105-2-ND	4,000	63.00/M	C0805C159C5GACTU
		50	2.0pF	±0.25pF	0.78	399-1106-1-ND	4.62	27.30	78.75	399-1106-2-ND	4,000	76.00/M	C0805C209C5GACTU

NOTE: Parts with improved tolerances or voltages may be substituted within the same case size. These parts will provide performance equal to or better than those which you ordered. (Conti

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se ze	Type	WV DC	Capacitance	Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Digi-Key Part No.	Tape and Reel Size	Pricing	Kemet Part No.
		50	3.0pF	±0.25pF	0.78	399-1107-1-ND	4.62	27.30	78.75	399-1107-2-ND	4,000	76.00/M	C0805C309C5GACTU
		50	10pF	±5%	0.78	399-1108-1-ND	.97	5.72	16.50	399-1108-2-ND	4,000	16.00/M	C0805C100J5GACTU
		50	12pF	±5%	0.78	399-1110-1-ND	.97	5.72	16.50	399-1110-2-ND	4,000	16.00/M	C0805C120J5GACTU
		50	15pF	±5%	0.78	399-1111-1-ND	.97	5.72	16.50	399-1111-2-ND	4,000	16.00/M	C0805C150J5GACTU
		50	18pF	±5%	0.78	399-1112-1-ND	.97	5.72	16.50	399-1112-2-ND	4,000	16.00/M	C0805C180J5GACTU
		50	22pF	±5%	0.78	399-1113-1-ND	.97	5.72	16.50	399-1113-2-ND	4,000	16.00/M	C0805C220J5GACTU
		50	27pF	±5%	0.78	399-1114-1-ND	.97	5.72	16.50	399-1114-2-ND	4,000	16.00/M	C0805C270J5GACTU
		50	33pF	±5%	0.78	399-1115-1-ND	.97	5.72	16.50	399-1115-2-ND	4,000	16.00/M	C0805C330J5GACTU
		50	39pF	±5%	0.78	399-1116-1-ND	2.20	13.00	37.50	399-1116-2-ND	4,000	36.00/M	C0805C390J5GACTU
		50	47pF	±5%	0.78	399-1117-1-ND	.97	5.72	16.50	399-1117-2-ND	4,000	16.00/M	C0805C470J5GACTU
		50	56pF	±5%	0.78	399-1118-1-ND	.97	5.72	16.50	399-1118-2-ND	4,000	16.00/M	C0805C560J5GACTU
		50	68pF	±5%	0.78	399-1119-1-ND	.97	5.72	16.50	399-1119-2-ND	4,000	16.00/M	C0805C680J5GACTU
		50	82pF	±5%	0.78	399-1120-1-ND	2.20	13.00	37.50	399-1120-2-ND	4,000	36.00/M	C0805C820J5GACTU
	C0G (NP0)	50	100pF	±5%	0.78	399-1122-1-ND	.97	5.72	16.50	399-1122-2-ND	4,000	16.00/M	C0805C101J5GACTU
		50	100pF	±10%	0.78	399-1121-1-ND	.97	5.72	16.50	399-1121-2-ND	4,000	16.00/M	C0805C101K5GACTU
		50	120pF	±5%	0.78	399-1124-1-ND	1.10	6.50	18.75	399-1124-2-ND	4,000	18.00/M	C0805C121J5GACTU
		50	150pF	±5%	0.78	399-1125-1-ND	1.10	6.50	18.75	399-1125-2-ND	4,000	18.00/M	C0805C151J5GACTU
		50	180pF	±5%	0.78	399-1126-1-ND	2.42	14.30	41.25	399-1126-2-ND	4,000	40.00/M	C0805C181J5GACTU
		50	220pF	±5%	0.78	399-1127-1-ND	1.10	6.50	18.75	399-1127-2-ND	4,000	18.00/M	C0805C221J5GACTU
		50	270pF	±5%	0.78	399-1129-1-ND	2.64	15.60	45.00	399-1129-2-ND	4,000	43.00/M	C0805C271J5GACTU
		50	330pF	±5%	0.78	399-1130-1-ND	1.43	8.45	24.38	399-1130-2-ND	4,000	23.00/M	C0805C331J5GACTU
		50	390pF	±5%	0.78	399-1132-1-ND	2.86	16.90	48.75	399-1132-2-ND	4,000	47.00/M	C0805C391J5GACTU
		50	470pF	±5%	0.78	399-1133-1-ND	1.60	9.43	27.19	399-1133-2-ND	4,000	26.00/M	C0805C471J5GACTU
		50	560pF	±5%	0.78	399-1134-1-ND	3.08	18.20	52.50	399-1134-2-ND	4,000	50.00/M	C0805C561J5GACTU
		50	680pF	±5%	0.78	399-1135-1-ND	3.30	19.50	56.25	399-1135-2-ND	4,000	54.00/M	C0805C681J5GACTU
		50	1000pF	±5%	0.78	399-1136-1-ND	1.32	7.80	22.50	399-1136-2-ND	4,000	22.00/M	C0805C102J5GACTU
		100	1000pF	±10%	0.78	399-1148-1-ND	1.05	6.18	17.81	399-1148-2-ND	4,000	17.00/M	C0805C102K1RACTU
		100	10000pF	±10%	0.78	399-1159-1-ND	1.10	6.50	18.75	399-1159-2-ND	4,000	18.00/M	C0805C103K1RACTU
		100	.056µF	±10%	1.0	399-3483-1-ND **NEW!**	3.54	20.93	60.38	399-3483-2-ND **NEW!**	2,500	58.00/M	C0805C563K1RACTU
		100	.068µF	±10%	1.0	399-3484-1-ND **NEW!**	3.54	20.93	60.38	399-3484-2-ND **NEW!**	2,500	58.00/M	C0805C683K1RACTU
		100	.082µF	±10%	1.0	399-3485-1-ND **NEW!**	3.54	20.93	60.38	399-3485-2-ND **NEW!**	2,500	58.00/M	C0805C823K1RACTU
		100	.10µF	±10%	1.0	399-3486-1-ND **NEW!**	3.54	20.93	60.38	399-3486-2-ND **NEW!**	2,500	58.00/M	C0805C104K1RACTU
		100	.12µF	±10%	1.25	399-3488-1-ND **NEW!**	3.54	20.93	60.38	399-3488-2-ND **NEW!**	2,500	58.00/M	C0805C124K1RACTU
		50	220pF	±10%	0.78	399-1138-1-ND	3.63	21.45	61.88	399-1138-2-ND	4,000	59.00/M	C0805C221K5RACTU
		50	270pF	±10%	0.78	399-1139-1-ND	3.63	21.45	61.88	399-1139-2-ND	4,000	59.00/M	C0805C271K5RACTU
		50	330pF	±10%	0.78	399-1140-1-ND	3.63	21.45	61.88	399-1140-2-ND	4,000	59.00/M	C0805C331K5RACTU
		50	390pF	±10%	0.78	399-1141-1-ND	3.63	21.45	61.88	399-1141-2-ND	4,000	59.00/M	C0805C391K5RACTU
		50	470pF	±10%	0.78	399-1142-1-ND	.75	4.42	12.75	399-1142-2-ND	4,000	12.00/M	C0805C471K5RACTU
		50	560pF	±10%	0.78	399-1143-1-ND	2.75	16.25	46.88	399-1143-2-ND	4,000	45.00/M	C0805C561K5RACTU
		50	680pF	±10%	0.78	399-1144-1-ND	2.75	16.25	46.88	399-1144-2-ND	4,000	45.00/M	C0805C681K5RACTU
		50	820pF	±10%	0.78	399-1145-1-ND	2.75	16.25	46.88	399-1145-2-ND	4,000	45.00/M	C0805C821K5RACTU
		50	1000pF	±5%	0.78	399-1149-1-ND	.83	4.88	14.06	399-1149-2-ND	4,000	14.00/M	C0805C102J5RACTU
		50	1000pF	±10%	0.78	399-1147-1-ND	.50	2.93	8.44	399-1147-2-ND	4,000	8.00/M	C0805C102K5RACTU
		50	1000pF	±20%	0.78	399-1146-1-ND	.50	2.93	8.44	399-1146-2-ND	4,000	8.00/M	C0805C102M5RACTU
		50	1500pF	±10%	0.78	399-1150-1-ND	2.75	16.25	46.88	399-1150-2-ND	4,000	45.00/M	C0805C152K5RACTU
		50	2200pF	±10%	0.78	399-1151-1-ND	.53	3.12	9.00	399-1151-2-ND	4,000	9.00/M	C0805C222K5RACTU
		50	2700pF	±10%	0.78	399-1152-1-ND	2.75	16.25	46.88	399-1152-2-ND	4,000	45.00/M	C0805C272K5RACTU
		50	3300pF	±10%	0.78	399-1153-1-ND	2.75	16.25	46.88	399-1153-2-ND	4,000	45.00/M	C0805C332K5RACTU
05	X7R	50	3900pF	±10%	0.78	399-1154-1-ND	2.75	16.25	46.88	399-1154-2-ND	4,000	45.00/M	C0805C392K5RACTU
		50	4700pF	±10%	0.78	399-1155-1-ND	.53	3.12	9.00	399-1155-2-ND	4,000	9.00/M	C0805C472K5RACTU
		50	5600pF	±10%	0.78	399-1156-1-ND	2.75	16.25	46.88	399-1156-2-ND	4,000	45.00/M	C0805C562K5RACTU
		50	6800pF	±10%	0.78	399-1157-1-ND	2.75	16.25	46.88	399-1157-2-ND	4,000	45.00/M	C0805C682K5RACTU
		50	10000pF	±10%	0.78	399-1158-1-ND	.50	2.93	8.44	399-1158-2-ND	4,000	8.00/M	C0805C103K5RACTU
		50	10000pF	±20%	0.78	399-1160-1-ND	.50	2.93	8.44	399-1160-2-ND	4,000	8.00/M	C0805C103M5RACTU
		50	15000pF	±10%	0.9	399-1161-1-ND	3.08	18.20	52.50	399-1161-2-ND	4,000	50.00/M	C0805C153K5RACTU
		50	18000pF	±10%	0.78	399-1162-1-ND	3.08	18.20	52.50	399-1162-2-ND	4,000	50.00/M	C0805C183K5RACTU
		50	22000pF	±10%	0.78	399-1163-1-ND	.77	4.55	13.13	399-1163-2-ND	4,000	13.00/M	C0805C223K5RACTU
		50	27000pF	±10%	0.78	399-1164-1-ND	.77	4.55	13.13	399-1164-2-ND	4,000	13.00/M	C0805C273K5RACTU
		50	33000pF	±10%	0.78	399-1165-1-ND	3.41	20.15	58.13	399-1165-2-ND	4,000	56.00/M	C0805C333K5RACTU
		50	47000pF	±10%	0.9	399-1166-1-ND	.94	5.53	15.94	399-1166-2-ND	4,000	15.00/M	C0805C473K5RACTU
		50	.10µF	±5%	0.9	399-1171-1-ND	1.21	7.15	20.63	399-1171-2-ND	4,000	20.00/M	C0805C104J5RACTU
		50	.10µF	±10%	0.9	399-1170-1-ND	.83	4.88	14.06	399-1170-2-ND	4,000	14.00/M	C0805C104K5RACTU
		50	.10µF	±20%	0.9	399-1169-1-ND	.83	4.88	14.06	399-1169-2-ND	4,000	14.00/M	C0805C104M5RACTU
		50	.12µF	±10%	1.0	399-3487-1-ND **NEW!**	6.39	37.77	108.94	399-3487-2-ND **NEW!**	4,000	105.00/M	C0805C124K5RACTU
		50	.15µF	±10%	0.9	399-3489-1-ND **NEW!**	6.90	40.76	117.56	399-3489-2-ND **NEW!**	4,000	113.00/M	C0805C154K5RACTU
		50	.18µF	±10%	0.9	399-3490-1-ND **NEW!**	7.57	44.72	129.00	399-3490-2-ND **NEW!**	4,000	124.00/M	C0805C184K5RACTU
		50	.22µF	±10%	0.9	399-3491-1-ND **NEW!**	9.00	53.17	153.38	399-3491-2-ND **NEW!**	4,000	147.00/M	C0805C224K5RACTU
		25	.10µF	±10%	0.9	399-1168-1-ND	.83	4.88	14.06	399-1168-2-ND	4,000	14.00/M	C0805C104K3RACTU
		25	.56µF	±10%	1.25	399-3492-1-ND **NEW!**	11.50	67.93	195.94	399-3492-2-ND **NEW!**	2,500	188.00/M	C0805C564K3RACTU
		16	.10µF	±10%	0.9	399-1167-1-ND	.83	4.88	14.06	399-1167-2-ND	4,000	14.00/M	C0805C104K4RACTU
		16	1.0µF	±10%	1.25	399-1284-1-ND	1.82	10.73	30.94	399-1284-2-ND	2,500	30.00/M	C0805C105K4RACTU
		10	1.0µF	±10%	1.25	399-1172-1-ND	1.65	9.75	28.13	399-1172-2-ND	2,500	27.00/M	C0805C105K8RACTU
		10	1.2µF	±10%	0.9	399-3119-1-ND	4.51	26.65	76.88	399-3119-2-ND	4,000	74.00/M	C0805C125K8PACTU
		10	1.5µF	±10%	1.0	399-3121-1-ND	4.73	27.95	80.63	399-3121-2-ND	2,500	77.00/M	C0805C155K8PACTU
		10	1.8µF	±10%	1.25	399-3123-1-ND	4.95	29.25	84.38	399-3123-2-ND	2,500	81.00/M	C0805C185K8PACTU
		10	2.2µF	±10%	1.25	399-3125-1-ND	4.51	26.65	76.88	399-3125-2-ND	2,500	74.00/M	C0805C225K8PACTU
		10	2.7µF	±10%	0.9	399-3127-1-ND	7.02	41.47	119.63	399-3127-2-ND	4,000	115.00/M	C0805C275K8PACTU
		10	3.3µF	±10%	1.0	399-3129-1-ND	7.02	41.47	119.63	399-3129-2-ND	2,500	115.00/M	C0805C335K8PACTU
		10	3.9µF	±10%	1.25	399-3131-1-ND	7.02	41.47	119.63	399-3131-2-ND	2,500	115.00/M	C0805C395K8PACTU
		10	4.7µF	±10%	1.25	399-3133-1-ND	4.95	29.25	84.38	399-3133-2-ND	2,500	81.00/M	C0805C475K8PACTU
		6.3	1.2µF	±10%	0.9	399-3120-1-ND	4.51	26.65	76.88	399-3120-2-ND	4,000	74.00/M	C0805C125K9PACTU
	X5R	6.3	1.5µF	±10%	1.0	399-3122-1-ND	4.73	27.95	80.63	399-3122-2-ND	2,500	77.00/M	C0805C155K9PACTU
		6.3	1.8µF	±10%	1.25	399-3124-1-ND	4.95	29.25	84.38	399-3124-2-ND	2,500	81.00/M	C0805C185K9PACTU
		6.3	2.2µF	±10%	1.25	399-3126-1-ND	4.51	26.65	76.88	399-3126-2-ND	2,500	74.00/M	C0805C225K9PACTU
		6.3	2.7µF	±10%	0.9	399-3128-1-ND	7.02	41.47	119.63	399-3128-2-ND	4,000	115.00/M	C0805C275K9PACTU
		6.3	3.3µF	±10%	1.0	399-3130-1-ND	7.02	41.47	119.63	399-3130-2-ND	2,500	115.00/M	C0805C335K9PACTU
		6.3	3.9µF	±10%	1.25	399-3132-1-ND	7.02	41.47	119.63	399-3132-2-ND	2,500	115.00/M	C0805C395K9PACTU
		6.3	4.7µF	±10%	1.25	399-3134-1-ND	5.61	33.15	95.63	399-3134-2-ND	2,500	92.00/M	C0805C475K9PACTU
		6.3	5.6µF	±10%	1.25	399-3135-1-ND	14.44	85.35	246.19	399-3135-2-ND	2,500	236.00/M	C0805C565K9PACTU
		6.3	6.8µF	±10%	1.25	399-3136-1-ND	14.44	85.35	246.19	399-3136-2-ND	2,500	236.00/M	C0805C685K9PACTU
		6.3	8.2µF	±10%	1.25	399-3137-1-ND	14.44	85.35	246.19	399-3137-2-ND	2,500	236.00/M	C0805C825K9PACTU
		6.3	10µF	±10%	1.25	399-3138-1-ND	8.80	52.00	150.00	399-3138-2-ND	2,500	144.00/M	C0805C106K9PACTU
		50	.10µF	+80%, -20%	0.9	399-1177-1-ND	.79	4.68	13.50	399-1177-2-ND	4,000	13.00/M	C0805C104Z5VACTU
		25	1.0µF	+80%, -20%	1.25	399-1293-1-ND	5.94	35.10	101.25	399-1293-2-ND	2,500	97.00/M	C0805C105Z3VACTU
	Y5V	16	1.5µF	+80%, -20%	1.25	399-1294-1-ND	6.53	38.61	111.38	399-1294-2-ND	2,500	107.00/M	C0805C155Z4VACTU
		16	2.2µF	+80%, -20%	1.25	399-1295-1-ND	7.18	42.45	122.44	399-1295-2-ND	2,500	118.00/M	C0805C225Z4VACTU
		10	3.3µF	+80%, -20%	1.0	399-3222-1-ND	9.24	54.60	157.50	399-3222-2-ND	2,500	151.00/M	C0805C335Z8VACTU

E: Parts with improved tolerances or voltages may be substituted within the same case size. These parts will provide performance equal to or better than those which you ordered. *(Continued)*

Case Size	Type	WV DC	Capacitance	Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Digi-Key Part No.	Tape and Reel Size	Pricing	Kemet Part No.
		10	4.7µF	+80%, -20%	1.25	399-3224-1-ND	10.34	61.10	176.25	399-3224-2-ND	2,500	169.00/M	C0805C475Z8VACTU
	Y5V	6.3	3.3µF	+80%, -20%	1.0	399-3223-1-ND	9.24	54.60	157.50	399-3223-2-ND	2,500	151.00/M	C0805C335Z9VACTU
		6.3	4.7µF	+80%, -20%	1.25	399-3225-1-ND	10.34	61.10	176.25	399-3225-2-ND	2,500	169.00/M	C0805C475Z9VACTU
		6.3	6.8µF	+80%, -20%	1.25	399-3294-1-ND	11.99	70.85	204.38	399-3294-2-ND	2,500	196.00/M	C0805C685Z9VACTU
0805		6.3	10µF	+80%, -20%	1.25	399-3295-1-ND	10.89	64.35	185.63	399-3295-2-ND	2,500	178.00/M	C0805C106Z9VACTU
		50	10000pF	+80%, -20%	0.78	399-1173-1-ND	.64	3.77	10.88	399-1173-2-ND	4,000	10.00/M	C0805C103Z5UACTU
	Z5U	50	10000pF	±20%	0.78	399-1174-1-ND	.64	3.77	10.88	399-1174-2-ND	4,000	10.00/M	C0805C103M5UACTU
		50	.10µF	+80%, -20%	0.9	399-1175-1-ND	.75	4.42	12.75	399-1175-2-ND	4,000	12.00/M	C0805C104Z5UACTU
		50	.10µF	±20%	0.9	399-1176-1-ND	.75	4.42	12.75	399-1176-2-ND	4,000	12.00/M	C0805C104M5UACTU
		100	100pF	±5%	0.78	399-1206-1-ND	1.98	11.70	33.75	399-1206-2-ND	4,000	32.00/M	C1206C101J1GACTU
		100	470pF	±5%	0.78	399-1214-1-ND	5.46	32.24	93.00	399-1214-2-ND	4,000	89.00/M	C1206C471J1GACTU
		100	1000pF	±5%	0.78	399-1219-1-ND	3.85	22.75	65.63	399-1219-2-ND	4,000	63.00/M	C1206C102J1GACTU
		50	1.0pF	±0.25pF	0.78	399-1178-1-ND	7.28	43.03	124.13	399-1178-2-ND	4,000	119.00/M	C1206C109C5GACTU
		50	1.5pF	±0.25pF	0.78	399-1179-1-ND	7.28	43.03	124.13	399-1179-2-ND	4,000	119.00/M	C1206C159C5GACTU
		50	1.8pF	±0.25pF	0.78	399-1180-1-ND	7.28	43.03	124.13	399-1180-2-ND	4,000	119.00/M	C1206C189C5GACTU
		50	2.2pF	±0.25pF	0.78	399-1181-1-ND	7.28	43.03	124.13	399-1181-2-ND	4,000	119.00/M	C1206C229C5GACTU
		50	2.7pF	±0.25pF	0.78	399-1182-1-ND	7.28	43.03	124.13	399-1182-2-ND	4,000	119.00/M	C1206C279C5GACTU
		50	3.3pF	±0.25pF	0.78	399-1183-1-ND	7.28	43.03	124.13	399-1183-2-ND	4,000	119.00/M	C1206C339C5GACTU
		50	3.9pF	±0.25pF	0.78	399-1184-1-ND	7.28	43.03	124.13	399-1184-2-ND	4,000	119.00/M	C1206C399C5GACTU
		50	4.7pF	±0.25pF	0.78	399-1185-1-ND	7.28	43.03	124.13	399-1185-2-ND	4,000	119.00/M	C1206C479C5GACTU
		50	5.1pF	±0.25pF	0.78	399-1186-1-ND	10.54	62.27	179.63	399-1186-2-ND	4,000	172.00/M	C1206C519C5GACTU
		50	5.6pF	±0.25pF	0.78	399-1187-1-ND	8.78	51.87	149.63	399-1187-2-ND	4,000	144.00/M	C1206C569C5GACTU
		50	6.8pF	±0.5pF	0.78	399-1188-1-ND	4.16	24.57	70.88	399-1188-2-ND	4,000	68.00/M	C1206C689D5GACTU
		50	7.5pF	±0.5pF	0.78	399-1189-1-ND	4.99	29.51	85.13	399-1189-2-ND	4,000	82.00/M	C1206C759D5GACTU
		50	8.2pF	±0.5pF	0.78	399-1190-1-ND	4.16	24.57	70.88	399-1190-2-ND	4,000	68.00/M	C1206C829D5GACTU
		50	9.1pF	±0.5pF	0.78	399-1191-1-ND	4.99	29.51	85.13	399-1191-2-ND	4,000	82.00/M	C1206C919D5GACTU
		50	10pF	±5%	0.78	399-1192-1-ND	1.71	10.08	29.06	399-1192-2-ND	4,000	28.00/M	C1206C100J5GACTU
		50	12pF	±5%	0.78	399-1193-1-ND	1.71	10.08	29.06	399-1193-2-ND	4,000	28.00/M	C1206C120J5GACTU
		50	15pF	±5%	0.78	399-1194-1-ND	1.71	10.08	29.06	399-1194-2-ND	4,000	28.00/M	C1206C150J5GACTU
	C0G (NP0)	50	18pF	±5%	0.78	399-1195-1-ND	1.71	10.08	29.06	399-1195-2-ND	4,000	28.00/M	C1206C180J5GACTU
		50	20pF	±5%	0.78	399-1196-1-ND	4.99	29.51	85.13	399-1196-2-ND	4,000	82.00/M	C1206C200J5GACTU
		50	22pF	±5%	0.78	399-1197-1-ND	1.71	10.08	29.06	399-1197-2-ND	4,000	28.00/M	C1206C220J5GACTU
		50	27pF	±5%	0.78	399-1198-1-ND	1.71	10.08	29.06	399-1198-2-ND	4,000	28.00/M	C1206C270J5GACTU
		50	33pF	±5%	0.78	399-1199-1-ND	1.71	10.08	29.06	399-1199-2-ND	4,000	28.00/M	C1206C330J5GACTU
		50	39pF	±5%	0.78	399-1200-1-ND	4.16	24.57	70.88	399-1200-2-ND	4,000	68.00/M	C1206C390J5GACTU
		50	47pF	±5%	0.78	399-1201-1-ND	1.71	10.08	29.06	399-1201-2-ND	4,000	28.00/M	C1206C470J5GACTU
		50	51pF	±5%	0.78	399-1202-1-ND	4.99	29.51	85.13	399-1202-2-ND	4,000	82.00/M	C1206C510J5GACTU
		50	56pF	±5%	0.78	399-1203-1-ND	4.16	24.57	70.88	399-1203-2-ND	4,000	68.00/M	C1206C560J5GACTU
		50	68pF	±5%	0.78	399-1204-1-ND	4.16	24.57	70.88	399-1204-2-ND	4,000	68.00/M	C1206C680J5GACTU
		50	100pF	±5%	0.78	399-1205-1-ND	1.71	10.08	29.06	399-1205-2-ND	4,000	28.00/M	C1206C101J5GACTU
		50	120pF	±5%	0.78	399-1207-1-ND	4.16	24.57	70.88	399-1207-2-ND	4,000	68.00/M	C1206C121J5GACTU
		50	220pF	±10%	0.78	399-1208-1-ND	4.28	25.29	72.94	399-1208-2-ND	4,000	70.00/M	C1206C221K5GACTU
		50	270pF	±10%	0.78	399-1209-1-ND	4.39	25.94	74.81	399-1209-2-ND	4,000	72.00/M	C1206C271K5GACTU
		50	330pF	±10%	0.78	399-1210-1-ND	4.39	25.94	74.81	399-1210-2-ND	4,000	72.00/M	C1206C331K5GACTU
		50	390pF	±10%	0.78	399-1211-1-ND	4.51	26.65	76.88	399-1211-2-ND	4,000	74.00/M	C1206C391K5GACTU
		50	470pF	±5%	0.78	399-1213-1-ND	2.20	13.00	37.50	399-1213-2-ND	4,000	36.00/M	C1206C471J5GACTU
		50	470pF	±10%	0.78	399-1212-1-ND	4.51	26.65	76.88	399-1212-2-ND	4,000	74.00/M	C1206C471K5GACTU
		50	560pF	±10%	0.78	399-1215-1-ND	4.74	28.02	80.81	399-1215-2-ND	4,000	78.00/M	C1206C561K5GACTU
		50	680pF	±10%	0.78	399-1216-1-ND	4.97	29.38	84.75	399-1216-2-ND	4,000	81.00/M	C1206C681K5GACTU
		50	820pF	±10%	0.78	399-1217-1-ND	5.20	30.75	88.69	399-1217-2-ND	4,000	85.00/M	C1206C821K5GACTU
1206		50	1000pF	±5%	0.78	399-1218-1-ND	3.30	19.50	56.25	399-1218-2-ND	4,000	54.00/M	C1206C102J5GACTU
		50	4700pF	±2%	0.9	399-1220-1-ND	34.39	203.19	586.13	—	—	—	C1206C472G5GACTU
		50	4700pF	±5%	0.9	399-3503-1-ND ***NEW!***	9.82	58.05	167.44	399-3503-2-ND ***NEW!***	4,000	161.00/M	C1206C472J5GACTU
		1000	1000pF	±10%	0.75	399-3437-1-ND ***NEW!***	4.95	29.25	84.38	399-3437-2-ND ***NEW!***	2,000	81.00/M	C1206C102KDRACTU
		500	1000pF	±10%	1.15	399-3436-1-ND ***NEW!***	4.40	26.00	75.00	399-3436-2-ND ***NEW!***	2,000	72.00/M	C1206C102KCRACTU
		500	.01µF	±10%	1.4	399-3438-1-ND ***NEW!***	8.25	48.75	140.63	399-3438-2-ND ***NEW!***	2,000	135.00/M	C1206C103KCRACTU
		100	1000pF	±10%	0.78	399-1222-1-ND	1.87	11.05	31.88	399-1222-2-ND	4,000	31.00/M	C1206C102K1RACTU
		100	10000pF	±5%	0.78	399-1238-1-ND	1.98	11.70	33.75	399-1238-2-ND	4,000	32.00/M	C1206C103J1RACTU
		100	10000pF	±10%	0.78	399-1236-1-ND	1.32	7.80	22.50	399-1236-2-ND	4,000	22.00/M	C1206C103K1RACTU
		100	10000pF	±20%	0.78	399-1235-1-ND	1.32	7.80	22.50	399-1235-2-ND	4,000	22.00/M	C1206C103M1RACTU
		100	56000pF	±10%	0.78	399-1802-1-ND	5.54	32.76	94.50	399-1802-2-ND	4,000	91.00/M	C1206C563K1RACTU
		100	68000pF	±10%	0.78	399-1803-1-ND	6.01	35.49	102.38	399-1803-2-ND	4,000	98.00/M	C1206C683K1RACTU
		100	82000pF	±10%	0.78	399-1804-1-ND	6.31	37.31	107.63	399-1804-2-ND	4,000	103.00/M	C1206C823K1RACTU
		100	.10µF	±10%	0.78	399-1805-1-ND	2.37	13.98	40.31	399-1805-2-ND	4,000	39.00/M	C1206C104K1RACTU
		100	.27µF	±10%	1.25	399-3494-1-ND ***NEW!***	13.21	78.07	225.19	399-3494-2-ND ***NEW!***	2,500	216.00/M	C1206C274K1RACTU
		100	.39µF	±10%	1.6	399-3497-1-ND ***NEW!***	15.98	94.45	272.44	399-3497-2-ND ***NEW!***	2,000	262.00/M	C1206C394K1RACTU
		50	1000pF	±10%	0.78	399-1221-1-ND	1.32	7.80	22.50	399-1221-2-ND	4,000	22.00/M	C1206C102K5RACTU
		50	1200pF	±10%	0.78	399-1223-1-ND	3.30	19.50	56.25	399-1223-2-ND	4,000	54.00/M	C1206C122K5RACTU
		50	1500pF	±10%	0.78	399-1224-1-ND	3.30	19.50	56.25	399-1224-2-ND	4,000	54.00/M	C1206C152K5RACTU
		50	1800pF	±10%	0.78	399-1225-1-ND	3.30	19.50	56.25	399-1225-2-ND	4,000	54.00/M	C1206C182K5RACTU
		50	2200pF	±10%	0.78	399-1226-1-ND	1.71	10.08	29.06	399-1226-2-ND	4,000	28.00/M	C1206C222K5RACTU
		50	2700pF	±10%	0.78	399-1227-1-ND	3.30	19.50	56.25	399-1227-2-ND	4,000	54.00/M	C1206C272K5RACTU
		50	3300pF	±10%	0.78	399-1228-1-ND	3.30	19.50	56.25	399-1228-2-ND	4,000	54.00/M	C1206C332K5RACTU
		50	3900pF	±10%	0.78	399-1229-1-ND	3.30	19.50	56.25	399-1229-2-ND	4,000	54.00/M	C1206C392K5RACTU
		50	4700pF	±10%	0.78	399-1230-1-ND	1.71	10.08	29.06	399-1230-2-ND	4,000	28.00/M	C1206C472K5RACTU
	X7R	50	5600pF	±10%	0.78	399-1231-1-ND	3.30	19.50	56.25	399-1231-2-ND	4,000	54.00/M	C1206C562K5RACTU
		50	6800pF	±10%	0.78	399-1232-1-ND	3.30	19.50	56.25	399-1232-2-ND	4,000	54.00/M	C1206C682K5RACTU
		50	8200pF	±10%	0.78	399-1233-1-ND	3.30	19.50	56.25	399-1233-2-ND	4,000	54.00/M	C1206C822K5RACTU
		50	10000pF	±5%	0.78	399-1237-1-ND	1.65	9.75	28.13	399-1237-2-ND	4,000	27.00/M	C1206C103J5RACTU
		50	10000pF	±10%	0.78	399-1234-1-ND	1.21	7.15	20.63	399-1234-2-ND	4,000	20.00/M	C1206C103K5RACTU
		50	12000pF	±10%	0.78	399-1239-1-ND	3.74	22.10	63.75	399-1239-2-ND	4,000	61.00/M	C1206C123K5RACTU
		50	15000pF	±10%	0.78	399-1240-1-ND	3.74	22.10	63.75	399-1240-2-ND	4,000	61.00/M	C1206C153K5RACTU
		50	18000pF	±10%	0.78	399-1241-1-ND	3.74	22.10	63.75	399-1241-2-ND	4,000	61.00/M	C1206C183K5RACTU
		50	22000pF	±10%	0.78	399-1242-1-ND	1.65	9.75	28.13	399-1242-2-ND	4,000	27.00/M	C1206C223K5RACTU
		50	27000pF	±10%	0.78	399-1243-1-ND	3.74	22.10	63.75	399-1243-2-ND	4,000	61.00/M	C1206C273K5RACTU
		50	33000pF	±10%	0.78	399-1244-1-ND	3.74	22.10	63.75	399-1244-2-ND	4,000	61.00/M	C1206C333K5RACTU
		50	39000pF	±10%	0.78	399-1245-1-ND	3.85	22.75	65.63	399-1245-2-ND	4,000	63.00/M	C1206C393K5RACTU
		50	47000pF	±10%	0.78	399-1246-1-ND	1.65	9.75	28.13	399-1246-2-ND	4,000	27.00/M	C1206C473K5RACTU
		50	68000pF	±5%	0.78	399-1247-1-ND	4.03	23.79	68.63	399-1247-2-ND	4,000	66.00/M	C1206C683J5RACTU
		50	.10µF	±5%	0.78	399-1250-1-ND	2.53	14.95	43.13	399-1250-2-ND	4,000	41.00/M	C1206C104J5RACTU
		50	.10µF	±10%	0.78	399-1249-1-ND	1.21	7.15	20.63	399-1249-2-ND	4,000	20.00/M	C1206C104K5RACTU
		50	.10µF	±20%	0.78	399-1248-1-ND	1.21	7.15	20.63	399-1248-2-ND	4,000	20.00/M	C1206C104M5RACTU
		50	.22µF	±5%	0.9	399-1252-1-ND	13.75	81.25	234.38	399-1252-2-ND	2,500	225.00/M	C1206C224J5RACTU
		50	.22µF	±10%	0.9	399-1251-1-ND	2.75	16.25	46.88	399-1251-2-ND	2,500	45.00/M	C1206C224K5RACTU
		50	.27µF	±10%	0.9	399-3493-1-ND ***NEW!***	9.35	55.25	159.38	399-3493-2-ND ***NEW!***	4,000	153.00/M	C1206C274K5RACTU
		50	.33µF	±10%	0.9	399-3495-1-ND ***NEW!***	9.90	58.50	168.75	399-3495-2-ND ***NEW!***	4,000	162.00/M	C1206C334K5RACTU
		50	.39µF	±10%	0.9	399-3496-1-ND ***NEW!***	10.45	61.75	178.13	399-3496-2-ND ***NEW!***	4,000	171.00/M	C1206C394K5RACTU
		50	47µF	±10%	0.9	399-3498-1-ND ***NEW!***	11.00	65.00	187.50	399-3498-2-ND ***NEW!***	4,000	180.00/M	C1206C474K5RACTU

***NOTE*: Parts with improved tolerances or voltages may be substituted within the same case size. These parts will provide performance equal to or better than those which you ordered.** (Contin

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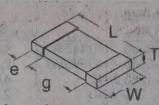
ıse ze	Type	WV DC	Capacitance	Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Digi-Key Part No.	Tape and Reel Size	Pricing	Kemet Part No.
		50	.56µF	±10%	0.9	399-3499-1-ND **NEW!**	12.71	75.08	216.56	399-3499-2-ND **NEW!**	4,000	208.00/M	C1206C564K5RACTU
		50	.68µF	±10%	1.0	399-3500-1-ND **NEW!**	16.34	96.53	278.44	399-3500-2-ND **NEW!**	2,500	267.00/M	C1206C684K5RACTU
		25	.33µF	±10%	0.78	399-1285-1-ND	9.90	58.50	168.75	399-1285-2-ND	4,000	162.00/M	C1206C334K3RACTU
		25	1.0µF	±10%	1.6	399-1255-1-ND	2.86	16.90	48.75	399-1255-2-ND	2,000	47.00/M	C1206C105K3RACTU
		25	1.2µF	±10%	1.6	399-3501-1-ND **NEW!**	14.74	87.10	251.25	399-3501-2-ND **NEW!**	2,000	241.00/M	C1206C125K3RACTU
	X7R	25	1.5µF	±10%	1.6	399-3502-1-ND **NEW!**	15.62	92.30	266.25	399-3502-2-ND **NEW!**	2,000	256.00/M	C1206C155K3RACTU
		16	.33µF	±10%	0.78	399-1253-1-ND	9.90	58.50	168.75	399-1253-2-ND	4,000	162.00/M	C1206C334K4RACTU
		16	1.0µF	±10%	1.1	399-1254-1-ND	3.08	18.20	52.50	399-1254-2-ND	2,500	50.00/M	C1206C105K4RACTU
		16	1.2µF	±10%	1.0	399-1286-1-ND	14.30	84.50	243.75	399-1286-2-ND	4,000	234.00/M	C1206C125K4RACTU
		16	2.2µF	±10%	1.6	399-1257-1-ND	4.73	27.95	80.63	399-1257-2-ND	2,000	77.00/M	C1206C225K4RACTU
		10	1.2µF	±10%	1.0	399-1256-1-ND	14.30	84.50	243.75	399-1256-2-ND	4,000	234.00/M	C1206C125K8RACTU
		25	2.7µF	±10%	1.2	399-3139-1-ND	9.90	58.50	168.75	399-3139-2-ND	6,000	126.00/M	C1206C275K3PACTU
		25	3.3µF	±10%	1.6	399-3140-1-ND	11.00	65.00	187.50	399-3140-2-ND	2,000	180.00/M	C1206C335K3PACTU
		25	3.9µF	±10%	1.6	399-3141-1-ND	11.00	65.00	187.50	399-3141-2-ND	2,000	180.00/M	C1206C395K3PACTU
		25	4.7µF	±10%	1.6	399-3142-1-ND	8.25	48.75	140.63	399-3142-2-ND	2,000	135.00/M	C1206C475K3PACTU
		16	2.2µF	±10%	1.1	399-1263-1-ND	8.80	52.00	150.00	399-1263-2-ND	2,500	144.00/M	C1206C225K4PACTU
		16	3.3µF	±10%	1.6	399-1264-1-ND	11.00	65.00	187.50	399-1264-2-ND	2,000	180.00/M	C1206C335K4PACTU
206	X5R	16	4.7µF	±10%	1.6	399-1265-1-ND	8.64	51.03	147.19	399-1265-2-ND	2,000	141.00/M	C1206C475K4PACTU
		6.3	6.8µF	±10%	1.6	399-3025-1-ND	14.96	88.40	255.00	399-3025-2-ND	2,000	245.00/M	C1206C685K9PACTU
		6.3	10µF	±10%	1.6	399-3029-1-ND	7.15	42.25	121.88	399-3029-2-ND	2,000	117.00/M	C1206C106K9PACTU
		6.3	12µF	±10%	1.6	399-3226-1-ND	20.35	120.25	346.88	399-3226-2-ND	2,000	333.00/M	C1206C126K9PACTU
		6.3	15µF	±10%	1.6	399-3227-1-ND	21.45	126.75	365.63	399-3227-2-ND	2,000	351.00/M	C1206C156K9PACTU
		6.3	18µF	±10%	1.6	399-3228-1-ND	23.65	139.75	403.13	399-3228-2-ND	2,000	387.00/M	C1206C186K9PACTU
		6.3	22µF	±10%	1.6	399-3229-1-ND	17.60	104.00	300.00	399-3229-2-ND	2,000	288.00/M	C1206C226K9PACTU
		25	1.0µF	+80%, -20%	0.78	399-1296-1-ND	6.16	36.40	105.00	399-1296-2-ND	4,000	101.00/M	C1206C105Z3VACTU
		16	1.5µF	+80%, -20%	0.9	399-1297-1-ND	8.25	48.75	140.63	399-1297-2-ND	4,000	135.00/M	C1206C155Z4VACTU
		16	2.2µF	+80%, -20%	1.0	399-1260-1-ND	8.25	48.75	140.63	399-1260-2-ND	2,500	135.00/M	C1206C225Z4VACTU
		16	3.3µF	+80%, -20%	1.2	399-1261-1-ND	9.35	55.25	159.38	399-1261-2-ND	2,500	153.00/M	C1206C335Z4VACTU
	Y5V	16	4.7µF	+80%, -20%	1.7	399-1262-1-ND	4.40	26.00	75.00	399-1262-2-ND	2,500	54.00/M	C1206C475Z4VACTU
		10	6.8µF	+80%, -20%	1.7	399-1298-1-ND	13.07	77.22	222.75	399-1298-2-ND	2,000	214.00/M	C1206C685Z8VACTU
		10	10µF	+80%, -20%	1.7	399-1299-1-ND	7.70	45.50	131.25	399-1299-2-ND	2,000	126.00/M	C1206C106Z8VACTU
		6.3	15µF	+80%, -20%	1.7	399-3024-1-ND	22.00	130.00	375.00	399-3024-2-ND	2,000	360.00/M	C1206C156Z9VACTU
		6.3	22µF	+80%, -20%	1.7	399-3028-1-ND	25.85	152.75	440.63	399-3028-2-ND	2,000	423.00/M	C1206C226Z9VACTU
	Z5U	50	.10µF	+80%, -20%	0.78	399-1258-1-ND	1.21	7.15	20.63	399-1258-2-ND	4,000	20.00/M	C1206C104Z5UACTU
		50	.10µF	±20%	0.78	399-1259-1-ND	1.21	7.15	20.63	399-1259-2-ND	4,000	20.00/M	C1206C104M5UACTU
	C0G(NP0)	50	10000pF	±5%	1.1	399-1266-1-ND	34.77	205.47	592.69	399-1266-2-ND	2,500	569.00/M	C1210C103J5GACTU
		2000	100pF	±10%	1.4	399-3439-1-ND **NEW!**	13.20	78.00	225.00	399-3439-2-ND **NEW!**	2,000	216.00/M	C1210C101KGRACTU
		2000	680pF	±10%	1.3	399-3441-1-ND **NEW!**	13.20	78.00	225.00	399-3441-2-ND **NEW!**	2,000	216.00/M	C1210C681KGRACTU
		1500	220pF	±10%	1.4	399-3440-1-ND **NEW!**	13.20	78.00	225.00	399-3440-2-ND **NEW!**	2,000	216.00/M	C1210C221KFRACTU
		100	.10µF	±10%	0.95	399-1268-1-ND	4.07	24.05	69.38	399-1268-2-ND	2,500	67.00/M	C1210C104K1RACTU
		50	.10µF	±10%	0.78	399-1267-1-ND	3.63	21.45	61.88	399-1267-2-ND	4,000	59.00/M	C1210C104K5RACTU
		50	.22µF	±10%	0.9	399-1269-1-ND	4.40	26.00	75.00	399-1269-2-ND	2,500	72.00/M	C1210C224K5RACTU
		50	.39µF	±10%	0.95	399-3087-1-ND	18.15	107.25	309.38	399-3087-2-ND	4,000	297.00/M	C1210C394K5RACTU
	X7R	50	.47µF	±10%	0.95	399-3089-1-ND	18.15	107.25	309.38	399-3089-2-ND	4,000	297.00/M	C1210C474K5RACTU
		50	.56µF	±10%	0.95	399-3091-1-ND	18.15	107.25	309.38	399-3091-2-ND	4,000	297.00/M	C1210C564K5RACTU
		50	.68µF	±10%	0.95	399-3092-1-ND	18.15	107.25	309.38	399-3092-2-ND	4,000	297.00/M	C1210C684K5RACTU
		50	.82µF	±10%	1.1	399-3093-1-ND	19.80	117.00	337.50	399-3093-2-ND	2,500	324.00/M	C1210C824K5RACTU
		50	1.0µF	±10%	1.55	399-3076-1-ND	6.88	40.63	117.19	399-3076-2-ND	2,000	113.00/M	C1210C105K5RACTU
		25	1.2µF	±10%	1.55	399-3078-1-ND	19.80	117.00	337.50	399-3078-2-ND	4,000	324.00/M	C1210C125K3RACTU
		25	1.5µF	±10%	1.55	399-3080-1-ND	19.80	117.00	337.50	399-3080-2-ND	2,000	324.00/M	C1210C155K3RACTU
		25	1.8µF	±10%	1.55	399-3082-1-ND	16.50	97.50	281.25	399-3082-2-ND	2,000	270.00/M	C1210C185K3RACTU
		25	2.2µF	±10%	1.85	399-3084-1-ND	16.50	97.50	281.25	399-3084-2-ND	2,000	270.00/M	C1210C225K3RACTU
		25	1.2µF	±10%	0.95	399-3077-1-ND	9.35	55.25	159.38	399-3077-2-ND	2,000	153.00/M	C1210C125K3PACTU
		25	1.5µF	±10%	0.95	399-3079-1-ND	9.35	55.25	159.38	399-3079-2-ND	2,000	153.00/M	C1210C155K3PACTU
		25	1.8µF	±10%	0.95	399-3081-1-ND	9.35	55.25	159.38	399-3081-2-ND	4,000	153.00/M	C1210C185K3PACTU
		25	2.2µF	±10%	1.25	399-3083-1-ND	11.00	65.00	187.50	399-3083-2-ND	2,500	180.00/M	C1210C225K3PACTU
		25	2.7µF	±10%	1.25	399-3143-1-ND	14.85	87.75	253.13	399-3143-2-ND	6,000	189.00/M	C1210C275K3PACTU
		25	3.3µF	±10%	1.55	399-3144-1-ND	14.85	87.75	253.13	399-3144-2-ND	2,000	243.00/M	C1210C335K3PACTU
		25	3.9µF	±10%	1.85	399-3145-1-ND	18.15	107.25	309.38	399-3145-2-ND	2,000	297.00/M	C1210C395K3PACTU
		25	4.7µF	±10%	2.1	399-3146-1-ND	18.15	107.25	309.38	399-3146-2-ND	2,000	297.00/M	C1210C475K3PACTU
210		16	5.6µF	±10%	1.85	399-3147-1-ND	24.20	143.00	412.50	399-3147-2-ND	2,500	396.00/M	C1210C565K4PACTU
		16	8.2µF	±10%	2.1	399-3149-1-ND	24.20	143.00	412.50	399-3149-2-ND	1,800	396.00/M	C1210C825K4PACTU
		16	10µF	±10%	2.1	399-3150-1-ND	36.30	214.50	618.75	399-3150-2-ND	2,000	594.00/M	C1210C106K4PACTU
		16	2.7µF	±10%	1.25	399-3085-1-ND	14.85	87.75	253.13	399-3085-2-ND	2,500	243.00/M	C1210C275K4PACTU
		16	3.3µF	±10%	1.55	399-3086-1-ND	14.85	87.75	253.13	399-3086-2-ND	2,000	243.00/M	C1210C335K4PACTU
	X5R	16	3.9µF	±10%	1.85	399-3088-1-ND	18.15	107.25	309.38	399-3088-2-ND	2,000	297.00/M	C1210C395K4PACTU
		16	4.7µF	±10%	2.1	399-3090-1-ND	18.15	107.25	309.38	399-3090-2-ND	2,000	297.00/M	C1210C475K4PACTU
		16	6.8µF	±10%	1.85	399-1288-1-ND	24.20	143.00	412.50	399-1288-2-ND	2,000	396.00/M	C1210C685K4PACTU
		10	4.7µF	±10%	2.1	399-1273-1-ND	18.15	107.25	309.38	399-1273-2-ND	2,000	297.00/M	C1210C475K8PACTU
		10	6.8µF	±10%	1.85	399-1274-1-ND	24.20	143.00	412.50	399-1274-2-ND	2,000	396.00/M	C1210C685K8PACTU
		10	10µF	±10%	2.1	399-1275-1-ND	36.30	214.50	618.75	399-1275-2-ND	2,000	594.00/M	C1210C106K8PACTU
		10	12µF	±10%	0.95	399-3296-1-ND	23.10	136.50	393.75	399-3296-2-ND	2,000	378.00/M	C1210C126K8PACTU
		10	15µF	±10%	0.95	399-3298-1-ND	24.20	143.00	412.50	399-3298-2-ND	2,500	396.00/M	C1210C156K8PACTU
		10	18µF	±10%	1.4	399-3300-1-ND	25.30	149.50	431.25	399-3300-2-ND	2,500	414.00/M	C1210C186K8PACTU
		10	22µF	±10%	1.55	399-3302-1-ND	26.40	156.00	450.00	399-3302-2-ND	2,000	432.00/M	C1210C226K8PACTU
		6.3	12µF	±10%	0.95	399-3297-1-ND	23.10	136.50	393.75	399-3297-2-ND	4,000	378.00/M	C1210C126K9PACTU
		6.3	15µF	±10%	0.95	399-3299-1-ND	24.20	143.00	412.50	399-3299-2-ND	2,500	396.00/M	C1210C156K9PACTU
		6.3	18µF	±10%	1.4	399-3301-1-ND	25.30	149.50	431.25	399-3301-2-ND	2,500	414.00/M	C1210C186K9PACTU
		6.3	22µF	±10%	1.55	399-3303-1-ND	20.90	123.50	356.25	399-3303-2-ND	2,000	342.00/M	C1210C226K9PACTU
		16	4.7µF	+80%, -20%	1.25	399-1270-1-ND	15.40	91.00	262.50	399-1270-2-ND	2,500	252.00/M	C1210C475Z4VACTU
		16	6.8µF	+80%, -20%	1.55	399-1271-1-ND	18.70	110.50	318.75	399-1271-2-ND	2,500	306.00/M	C1210C685Z4VACTU
	Y5V	16	10µF	+80%, -20%	1.85	399-1272-1-ND	8.69	51.35	148.13	399-1272-2-ND	2,000	142.00/M	C1210C106Z4VACTU
		10	15µF	+80%, -20%	1.85	399-1300-1-ND	26.13	154.38	445.31	399-1300-2-ND	2,500	428.00/M	C1210C156Z8VACTU
		10	22µF	+80%, -20%	2.1	399-1301-1-ND	19.80	117.00	337.50	399-1301-2-ND	1,500	324.00/M	C1210C226Z8VACTU
		3000	100pF	±10%	1.4	399-3442-1-ND **NEW!**	18.70	110.50	318.75	399-3442-2-ND **NEW!**	1,000	306.00	C1808C101KHRACTU
808	X7R	2000	1000pF	±10%	1.65	399-3443-1-ND **NEW!**	20.35	120.25	346.88	399-3443-2-ND **NEW!**	1,000	333.00	C1808C102KGRACTU
		1000	.01µF	±10%	1.9	399-3444-1-ND **NEW!**	18.70	110.50	318.75	399-3444-2-ND **NEW!**	1,000	306.00	C1808C103KDRACTU
	C0G(NP0)	1000	1000pF	±10%	1.4	399-3445-1-ND **NEW!**	18.15	107.25	309.38	399-3445-2-ND **NEW!**	1,000	297.00	C1812C102KDGACTU
		3000	1000pF	±10%	1.65	399-3448-1-ND **NEW!**	21.45	126.75	365.63	399-3448-2-ND **NEW!**	1,000	351.00	C1812C102KHRACTU
		2000	1000pF	±10%	1.65	399-3447-1-ND **NEW!**	18.15	107.25	309.38	399-3447-2-ND **NEW!**	1,000	297.00	C1812C102KGRACTU
		1000	1000pF	±10%	1.0	399-3446-1-ND **NEW!**	15.40	91.00	262.50	399-3446-2-ND **NEW!**	1,000	252.00	C1812C102KDRACTU
		1000	4700pF	±10%	1.0	399-3452-1-ND **NEW!**	15.95	94.25	271.88	399-3452-2-ND **NEW!**	1,000	261.00	C1812C472KDRACTU
812	X7R	1000	.01µF	±10%	1.5	399-3450-1-ND **NEW!**	16.50	97.50	281.25	399-3450-2-ND **NEW!**	1,000	270.00	C1812C103KDRACTU
		500	.01µF	±10%	1.15	399-3449-1-ND **NEW!**	14.85	87.75	253.13	399-3449-2-ND **NEW!**	1,000	243.00	C1812C103KCRACTU
		500	.047µF	±10%	1.65	399-3453-1-ND **NEW!**	16.50	97.50	281.25	399-3453-2-ND **NEW!**	1,000	270.00	C1812C473KCRACTU
		50	.47µF	±10%	1.0	399-3454-1-ND **NEW!**	20.68	122.20	352.50	399-3454-2-ND **NEW!**	1,000	338.00	C1812C474K5RACTU
		50	.68µF	±10%	1.1	399-3455-1-ND **NEW!**	26.62	157.30	453.75	399-3455-2-ND **NEW!**	1,000	436.00	C1812C684K5RACTU
		50	1.0µF	±10%	1.3	399-3451-1-ND **NEW!**	22.00	130.00	375.00	399-3451-2-ND **NEW!**	1,000	360.00	C1812C105K5RACTU
825	X7R	50	.47µF	±10%	1.1	399-3457-1-ND **NEW!**	54.45	321.75	928.13	399-3457-2-ND **NEW!**	1,000	891.00	C1825C474K5RACTU
		50	1.0µF	±10%	1.1	399-3456-1-ND **NEW!**	60.50	357.50	1031.25	399-3456-2-ND **NEW!**	1,000	990.00	C1825C105K5RACTU
		500	.10µF	±10%	1.15	399-3458-1-ND **NEW!**	82.50	487.50	1406.25	399-3458-2-ND **NEW!**	1,000	1350.00	C2225C104KCRACTU
2225	X7R	500	.22µF	±10%	1.7	399-3460-1-ND **NEW!**	82.50	487.50	1406.25	399-3460-2-ND **NEW!**	1,000	1350.00	C2225C224KCRACTU
		50	1.0µF	±10%	1.0	399-3459-1-ND **NEW!**	66.55	393.25	1134.38	399-3459-2-ND **NEW!**	1,000	1089.00	C2225C105K5RACTU
		50	2.2µF	±10%	1.3	399-3461-1-ND **NEW!**	105.05	620.75	1790.63	399-3461-2-ND **NEW!**	1,000	1719.00	C2225C225K5RACTU

E: Parts with improved tolerances or voltages may be substituted within the same case size. These parts will provide performance equal to or better than those which you ordered.

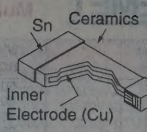
NEW! Monolithic Ceramic Chip Capacitors GJM Series

Murata Electronics — Innovator in Electronics

Size Code	Dimensions (mm) L	W	e	g (min.)
0201	0.6±-0.03	0.3±-0.03	0.1 ~ 0.2	0.2
0402	1.0±-0.05	0.5±-0.05	0.15 ~ 0.3	0.4



GJM Series: The Murata GJM Series is a high Q, ultra small capacitor series for high frequency applications in the 500MHz ~ 10GHz range, suitable for VCO and PA Module applications. The GJM Series of capacitors are made with copper electrodes for low ESR and low power consumption due to the high Q (low loss) performance. This series is offered in EIA sizes 0201 and 0402. They are lead free/RoHS compliant. **Features:** • Better Q and low ESR at VHF, UHF, and microwave frequencies • Copper inner electrode • Low power consumption, yield ratio improvement due to the better Q or lower ESR • VCO or PA module applications **Operating Temperature Range:** • C0G (NP0): -55°C ~ 125°C

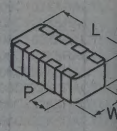


Size Code	Type	WV DC	Capacitance	Tolerance	Dimension T (mm)	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Digi-Key Part No.	Tape and Reel Size	Pricing	Murata Part No.
0201	C0G (NP0)	25	.75pF	±.25pF	0.3	490-3052-1-ND	1.16	6.83	19.69	490-3052-2-ND	15,000	18.90/M	GJM0335C1ER75CB01
			1.0pF			490-3053-1-ND	1.16	6.83	19.69	490-3053-2-ND	15,000	18.90/M	GJM0335C1E1R0CB01
			1.1pF			490-3054-1-ND	1.16	6.83	19.69	490-3054-2-ND	15,000	18.90/M	GJM0335C1E1R1CB01
			1.2pF			490-3055-1-ND	1.16	6.83	19.69	490-3055-2-ND	15,000	18.90/M	GJM0335C1E1R2CB01
			1.3pF			490-3056-1-ND	1.16	6.83	19.69	490-3056-2-ND	15,000	18.90/M	GJM0335C1E1R3CB01
			1.5pF			490-3057-1-ND	1.16	6.83	19.69	490-3057-2-ND	15,000	18.90/M	GJM0335C1E1R5CB01
			1.6pF			490-3058-1-ND	1.16	6.83	19.69	490-3058-2-ND	15,000	18.90/M	GJM0335C1E1R6CB01
			1.8pF	±.25pF	0.3	490-3059-1-ND	1.16	6.83	19.69	490-3059-2-ND	15,000	18.90/M	GJM0335C1E1R8CB01
			2.0pF			490-3060-1-ND	1.16	6.83	19.69	490-3060-2-ND	15,000	18.90/M	GJM0335C1E2R0CB01
			2.2pF			490-3061-1-ND	1.16	6.83	19.69	490-3061-2-ND	15,000	18.90/M	GJM0335C1E2R2CB01
			2.4pF			490-3062-1-ND	1.16	6.83	19.69	490-3062-2-ND	15,000	18.90/M	GJM0335C1E2R4CB01
			2.7pF			490-3063-1-ND	1.16	6.83	19.69	490-3063-2-ND	15,000	18.90/M	GJM0335C1E2R7CB01
			3.0pF	±.25pF	0.3	490-3064-1-ND	1.16	6.83	19.69	490-3064-2-ND	15,000	18.90/M	GJM0335C1E3R0CB01
			3.3pF			490-3065-1-ND	1.16	6.83	19.69	490-3065-2-ND	15,000	18.90/M	GJM0335C1E3R3CB01
			3.6pF			490-3066-1-ND	1.16	6.83	19.69	490-3066-2-ND	15,000	18.90/M	GJM0335C1E3R6CB01
			3.9pF			490-3067-1-ND	1.16	6.83	19.69	490-3067-2-ND	15,000	18.90/M	GJM0335C1E3R9CB01
			4.0pF			490-3068-1-ND	1.16	6.83	19.69	490-3068-2-ND	15,000	18.90/M	GJM0335C1E4R0CB01
			4.3pF	±.25pF	0.3	490-3069-1-ND	1.16	6.83	19.69	490-3069-2-ND	15,000	18.90/M	GJM0335C1E4R3CB01
			4.7pF			490-3070-1-ND	1.16	6.83	19.69	490-3070-2-ND	15,000	18.90/M	GJM0335C1E4R7CB01
			5.0pF			490-3071-1-ND	1.16	6.83	19.69	490-3071-2-ND	15,000	18.90/M	GJM0335C1E5R0CB01
			5.1pF			490-3072-1-ND	1.16	6.83	19.69	490-3072-2-ND	15,000	18.90/M	GJM0335C1E5R1CB01
			5.6pF	±.25pF	0.3	490-3073-1-ND	1.16	6.83	19.69	490-3073-2-ND	15,000	18.90/M	GJM0335C1E5R6CB01
			6.0pF			490-3074-1-ND	1.16	6.83	19.69	490-3074-2-ND	15,000	18.90/M	GJM0335C1E6R0CB01
			6.8pF			490-3076-1-ND	1.16	6.83	19.69	490-3076-2-ND	15,000	18.90/M	GJM0335C1E6R8CB01
0402	C0G (NP0)	50	1.0pF			490-3083-1-ND	.70	4.16	12.00	490-3083-2-ND	10,000	11.52/M	GJM1555C1H1R0CB01
			1.1pF			490-3084-1-ND	.70	4.16	12.00	490-3084-2-ND	10,000	11.52/M	GJM1555C1H1R1CB01
			1.2pF	±.25pF	0.5	490-3085-1-ND	.70	4.16	12.00	490-3085-2-ND	10,000	11.52/M	GJM1555C1H1R2CB01
			1.3pF			490-3086-1-ND	.70	4.16	12.00	490-3086-2-ND	10,000	11.52/M	GJM1555C1H1R3CB01
			1.5pF			490-3087-1-ND	.70	4.16	12.00	490-3087-2-ND	10,000	11.52/M	GJM1555C1H1R5CB01
			1.6pF			490-3088-1-ND	.77	4.55	13.13	490-3088-2-ND	10,000	12.60/M	GJM1555C1H1R6CB01
			1.8pF			490-3089-1-ND	.70	4.16	12.00	490-3089-2-ND	10,000	11.52/M	GJM1555C1H1R8CB01
			2.0pF	±.25pF	0.5	490-3090-1-ND	.70	4.16	12.00	490-3090-2-ND	10,000	11.52/M	GJM1555C1H2R0CB01
			2.2pF			490-3091-1-ND	.70	4.16	12.00	490-3091-2-ND	10,000	11.52/M	GJM1555C1H2R2CB01
			2.4pF			490-3092-1-ND	.70	4.16	12.00	490-3092-2-ND	10,000	11.52/M	GJM1555C1H2R4CB01
			2.7pF			490-3093-1-ND	.70	4.16	12.00	490-3093-2-ND	10,000	11.52/M	GJM1555C1H2R7CB01
			3.0pF			490-3094-1-ND	.70	4.16	12.00	490-3094-2-ND	10,000	11.52/M	GJM1555C1H3R0CB01
			3.3pF	±.25pF	0.5	490-3095-1-ND	.70	4.16	12.00	490-3095-2-ND	10,000	11.52/M	GJM1555C1H3R3CB01
			3.6pF			490-3096-1-ND	.70	4.16	12.00	490-3096-2-ND	10,000	11.52/M	GJM1555C1H3R6CB01
			3.9pF			490-3097-1-ND	.70	4.16	12.00	490-3097-2-ND	10,000	11.52/M	GJM1555C1H3R9CB01
			4.0pF			490-3098-1-ND	.70	4.16	12.00	490-3098-2-ND	10,000	11.52/M	GJM1555C1H4R0CB01
			4.3pF			490-3099-1-ND	.70	4.16	12.00	490-3099-2-ND	10,000	11.52/M	GJM1555C1H4R3CB01
			4.7pF	±.25pF	0.5	490-3100-1-ND	.70	4.16	12.00	490-3100-2-ND	10,000	11.52/M	GJM1555C1H4R7CB01
			5.0pF			490-3101-1-ND	.70	4.16	12.00	490-3101-2-ND	10,000	11.52/M	GJM1555C1H5R0CB01
			5.1pF			490-3102-1-ND	.70	4.16	12.00	490-3102-2-ND	10,000	11.52/M	GJM1555C1H5R1CB01
			5.6pF			490-3103-1-ND	.70	4.16	12.00	490-3103-2-ND	10,000	11.52/M	GJM1555C1H5R6CB01
			6.0pF			490-3104-1-ND	.70	4.16	12.00	490-3104-2-ND	10,000	11.52/M	GJM1555C1H6R0CB01
			6.2pF	±.25pF	0.5	490-3105-1-ND	.70	4.16	12.00	490-3105-2-ND	10,000	11.52/M	GJM1555C1H6R2CB01
			6.8pF			490-3106-1-ND	.70	4.16	12.00	490-3106-2-ND	10,000	11.52/M	GJM1555C1H6R8CB01
			7.0pF			490-3107-1-ND	.70	4.16	12.00	490-3107-2-ND	10,000	11.52/M	GJM1555C1H7R0CB01
			7.5pF	±.25pF		490-3108-1-ND	.70	4.16	12.00	490-3108-2-ND	10,000	11.52/M	GJM1555C1H7R5CB01
			9.0pF	±.25pF		490-3111-1-ND	.70	4.16	12.00	490-3111-2-ND	10,000	11.52/M	GJM1555C1H9R0CB01
			9.1pF	±.25pF		490-3112-1-ND	.70	4.16	12.00	490-3112-2-ND	10,000	11.52/M	GJM1555C1H9R1CB01
			12pF	±5%	0.5	490-3115-1-ND	.70	4.16	12.00	490-3115-2-ND	10,000	11.52/M	GJM1555C1H120JB01D
			15pF	±5%		490-3117-1-ND	.70	4.16	12.00	490-3117-2-ND	10,000	11.52/M	GJM1555C1H150JB01D
			18pF	±5%		490-3119-1-ND	.70	4.16	12.00	490-3119-2-ND	10,000	11.52/M	GJM1555C1H180JB01D

NEW! Multilayer Ceramic Chip Capacitor Arrays GNM Series

GNM Series: Murata's capacitor array offering (GNM Series) includes the following benefits: • Placement cost savings (one placement cycle instead of four or two) • High density mounting due to real estate savings • Capacitor arrays offered in two or four capacitor components • Lead Free/RoHS Compliant **Features:** • High density mounting due to mounting space saving • Mounting cost saving **Applications:** • General electronic equipment • Cellular phones, pagers, camcorders, personal computers, LCD **Operating Temperature Range:** • X7R: -55°C ~ 125°C • X5R: -55°C ~ 85°C

Size Code	Dimensions (mm) L	W	P
0504	1.37±0.15	1.0±0.15	0.64±0.05
0805	2.0±0.15	1.250±0.15	1.0±0.1 (2-element) 0.5±0.05 (4-element)
1206	3.2±0.15	1.6±0.15	0.8±0.1



Size Code	Type	WV DC	Capacitance	Tolerance	Dimension T (mm)	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Digi-Key Part No.	Tape and Reel Size	Pricing	Murata Part No.
2-Elements													
0504	X7R	25	2200pF	±20%	0.6	490-3399-1-ND	.60	5.13	21.38	490-3399-2-ND	4,000	23.94/M	GNM1M2R71E222MA01
		25	4700pF			490-3400-1-ND	.60	5.13	21.38	490-3400-2-ND	4,000	23.94/M	GNM1M2R71E472MA01
		25	10000pF			490-3401-1-ND	.60	5.13	21.38	490-3401-2-ND	4,000	23.94/M	GNM1M2R71E103MA01
		16	22000pF			490-3402-1-ND	.61	5.19	21.63	490-3402-2-ND	4,000	24.22/M	GNM1M2R71C223MA01
		16	47000pF			490-3403-1-ND	.64	5.46	22.75	490-3403-2-ND	4,000	25.48/M	GNM1M2R71C473MA01
	X5R	10	.1µF	±20%	0.6	490-3404-1-ND	.64	5.46	22.75	490-3404-2-ND	4,000	25.48/M	GNM1M2R61A104MA01
		10	1.0µF		0.8	490-3405-1-ND	1.25	10.68	44.50	490-3405-2-ND	4,000	49.84/M	GNM1M2R61A105ME14
		6.3	1.0µF		0.8	490-3406-1-ND	1.25	10.68	44.50	490-3406-2-ND	4,000	49.84/M	GNM1M2R60J105ME12
0805	X5R	16	1.0µF	±20%	0.85	490-3414-1-ND	1.18	10.08	42.00	490-3414-2-ND	4,000	47.04/M	GNM212R61C105MA16
		10	1.0µF			490-3413-1-ND	1.36	11.64	48.50	490-3413-2-ND	4,000	54.32/M	GNM212R61A105MA13
4-Elements													
0805	X7R	50	1000pF	±20%	0.6	490-3407-1-ND	.94	8.07	33.63	490-3407-2-ND	4,000	37.66/M	GNM214R71H102MA01
		25	2200pF		0.6	490-3408-1-ND	.99	8.49	35.38	490-3408-2-ND	4,000	39.62/M	GNM214R71E222MA01
		25	4700pF		0.6	490-3409-1-ND	.99	8.49	35.38	490-3409-2-ND	4,000	39.62/M	GNM214R71E472MA01
		25	10000pF		0.6	490-3410-1-ND	.94	8.07	33.63	490-3410-2-ND	4,000	37.66/M	GNM214R71E103MA01
		16	22000pF		0.85	490-3411-1-ND	1.03	8.85	36.88	490-3411-2-ND	4,000	41.30/M	GNM214R71C223MA01
		16	47000pF		0.85	490-3412-1-ND	1.05	9.03	37.63	490-3412-2-ND	4,000	42.14/M	GNM214R71C473MA01
1206	X7R	16	47000pF	±20%	1.0	490-3443-1-ND	2.07	17.73	73.88	490-3443-2-ND	3,000	82.74/M	GNM314R71C473MA01
		16	68000pF		1.0	490-3444-1-ND	2.75	23.55	98.13	490-3444-2-ND	3,000	109.90/M	GNM314R71C683MA01
		6.3	1.0µF		1.15	490-3446-1-ND	2.98	25.53	106.38	490-3446-2-ND	3,000	119.14/M	GNM314R70J105MA01

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Multilayer Ceramic Chip Capacitors

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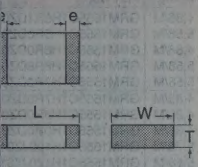

Size Code	Dimensions (mm) L	W	e
0201	0.6	0.3	0.1 ~ 0.2
0402	1.0	0.5	0.15 ~ 0.3
0603	1.6	0.8	0.20 ~ 0.5
0805	2.0	1.25	0.20 ~ 0.70
1206	3.2	1.6	0.30 ~ 0.80
1210	3.2	2.5	0.3
1812	4.5	3.2	0.3
2220	5.7	5.0	0.3

GRM Series:
The Murata GRM series is a complete line of ceramic chip capacitors with a wide range of voltages and sizes. These capacitors have temperature characteristics ranging from C0G to Z5U. GRM series is offered with a Nickel (Ni) barrier termination plated with Tin (Sn), highly resistant to migration and is lead free/RoHS compliant. Stringent dimensional tolerances allow highly reliable, high-speed automatic chip placement on PCBs.

GRM Hi-Cap Series:
The Murata Hi-Cap, Ta replacement product lineup is available with capacitance of 1µF and larger, in voltages of 6.3V ~ 50V. Why use ceramic chips over Ta and Al capacitors? Ceramic chips offer better reliability, electrical performance, no polarity, and allow design engineers to downsize designs with various package options. This line of high volumetric multilayer capacitance ceramic chip capacitors (MLCC) has excellent high frequency noise absorption performance compared to Ta and Al caps. For bypass/decoupling applications, MLCC is equivalent to 1/2 to 1/5 the capacitance value of a Ta capacitor because impedance (ESR) of MLCC is lower at higher frequencies (above 100kHz.) Consider Murata Hi-Cap as your Ta capacitor replacement.

Operating Temperature Range:
• C0G (NP0): -55°C ~ 125°C • X7R: -55°C ~ 125°C • X5R: -55°C ~ 85°C • Y5V: -30°C ~ 85°C • Z5U: 10°C ~ 85°C

Size Code	Type	WV DC	Capacitance	Tolerance	Dimension T (mm)	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Digi-Key Part No.	Tape & Reel Size	Pricing	Murata Part No.
			.5pF	±.25pF	0.3	490-1241-1-ND	.51	2.99	8.63	490-1241-2-ND	15,000	8.28/M	GRM0335C1ER50CD01D
			1.0pF	±.25pF	0.3	490-3122-1-ND ***NEW!***	.53	3.12	9.00	490-3122-2-ND ***NEW!***	15,000	8.64/M	GRM0335C1E1R0CD01D
			1.1pF	±.25pF	0.3	490-3123-1-ND ***NEW!***	.43	2.54	7.31	490-3123-2-ND ***NEW!***	15,000	7.02/M	GRM0335C1E1R1CD01D
			1.2pF	±.25pF	0.3	490-1242-1-ND	.53	3.12	9.00	490-1242-2-ND	15,000	8.64/M	GRM0335C1E1R2CD01D
			1.3pF	±.25pF	0.3	490-3124-1-ND ***NEW!***	.43	2.54	7.31	490-3124-2-ND ***NEW!***	15,000	7.02/M	GRM0335C1E1R3CD01D
			1.5pF	±.25pF	0.3	490-1243-1-ND	.53	3.12	9.00	490-1243-2-ND	15,000	8.64/M	GRM0335C1E1R5CD01D
			1.8pF	±.25pF	0.3	490-1244-1-ND	.53	3.12	9.00	490-1244-2-ND	15,000	8.64/M	GRM0335C1E1R8CD01D
			2.0pF	±.25pF	0.3	490-1245-1-ND	.53	3.12	9.00	490-1245-2-ND	15,000	8.64/M	GRM0335C1E2R0CD01D
			2.2pF	±.25pF	0.3	490-1246-1-ND	.53	3.12	9.00	490-1246-2-ND	15,000	8.64/M	GRM0335C1E2R2CD01D
			2.4pF	±.25pF	0.3	490-1247-1-ND	.53	3.12	9.00	490-1247-2-ND	15,000	8.64/M	GRM0335C1E2R4CD01D
			3.0pF	±.25pF	0.3	490-3127-1-ND ***NEW!***	.43	2.54	7.31	490-3127-2-ND ***NEW!***	15,000	7.02/M	GRM0335C1E3R0CD01D
			3.3pF	±.25pF	0.3	490-1248-1-ND	.53	3.12	9.00	490-1248-2-ND	15,000	8.64/M	GRM0335C1E3R3CD01D
			3.6pF	±.25pF	0.3	490-1249-1-ND	.53	3.12	9.00	490-1249-2-ND	15,000	8.64/M	GRM0335C1E3R6CD01D
			4.0pF	±.25pF	0.3	490-3129-1-ND ***NEW!***	.43	2.54	7.31	490-3129-2-ND ***NEW!***	15,000	7.02/M	GRM0335C1E4R0CD01D
			4.3pF	±.25pF	0.3	490-3130-1-ND ***NEW!***	.43	2.54	7.31	490-3130-2-ND ***NEW!***	15,000	7.02/M	GRM0335C1E4R3CD01D
			4.7pF	±.25pF	0.3	490-3131-1-ND ***NEW!***	.43	2.54	7.31	490-3131-2-ND ***NEW!***	15,000	7.02/M	GRM0335C1E4R7CD01D
			5.0pF	±.25pF	0.3	490-3132-1-ND ***NEW!***	.43	2.54	7.31	490-3132-2-ND ***NEW!***	15,000	7.02/M	GRM0335C1E5R0CD01D
			5.1pF	±.5pF	0.3	490-3133-1-ND ***NEW!***	.43	2.54	7.31	490-3133-2-ND ***NEW!***	15,000	7.02/M	GRM0335C1E5R1DD01D
	C0G (NP0)	25	6.0pF	±.5pF	0.3	490-3135-1-ND ***NEW!***	.43	2.54	7.31	490-3135-2-ND ***NEW!***	15,000	7.02/M	GRM0335C1E6R0DD01D
			7.0pF	±.5pF	0.3	490-1250-1-ND	.53	3.12	9.00	490-1250-2-ND	15,000	8.64/M	GRM0335C1E7R0DD01D
			8.0pF	±.5pF	0.3	490-3139-1-ND ***NEW!***	.43	2.54	7.31	490-3139-2-ND ***NEW!***	15,000	7.02/M	GRM0335C1E8R0DD01D
			9.0pF	±.5pF	0.3	490-1251-1-ND	.53	3.12	9.00	490-1251-2-ND	15,000	8.64/M	GRM0335C1E9R0DD01D
			10pF	±5%	0.3	490-3142-1-ND ***NEW!***	.53	3.12	9.00	490-3142-2-ND ***NEW!***	15,000	8.64/M	GRM0335C1E100JD01D
			12pF	±5%	0.3	490-3144-1-ND ***NEW!***	.43	2.54	7.31	490-3144-2-ND ***NEW!***	15,000	7.02/M	GRM0335C1E120JD01D
			13pF	±5%	0.3	490-3145-1-ND ***NEW!***	.43	2.54	7.31	490-3145-2-ND ***NEW!***	15,000	7.02/M	GRM0335C1E130JD01D
			15pF	±5%	0.3	490-3146-1-ND ***NEW!***	.43	2.54	7.31	490-3146-2-ND ***NEW!***	15,000	7.02/M	GRM0335C1E150JD01D
			18pF	±5%	0.3	490-3148-1-ND ***NEW!***	.53	3.12	9.00	490-3148-2-ND ***NEW!***	15,000	8.64/M	GRM0335C1E180JD01D
			20pF	±5%	0.3	490-1252-1-ND	.53	3.12	9.00	490-1252-2-ND	15,000	8.64/M	GRM0335C1E200JD01D
			22pF	±5%	0.3	490-1253-1-ND	.53	3.12	9.00	490-1253-2-ND	15,000	8.64/M	GRM0335C1E220JD01D
			24pF	±5%	0.3	490-3149-1-ND ***NEW!***	.43	2.54	7.31	490-3149-2-ND ***NEW!***	15,000	7.02/M	GRM0335C1E240JD01D
			27pF	±5%	0.3	490-3150-1-ND ***NEW!***	.43	2.54	7.31	490-3150-2-ND ***NEW!***	15,000	7.02/M	GRM0335C1E270JD01D
			30pF	±5%	0.3	490-1254-1-ND	.53	3.12	9.00	490-1254-2-ND	15,000	8.64/M	GRM0335C1E300JD01D
			33pF	±5%	0.3	490-1255-1-ND	.53	3.12	9.00	490-1255-2-ND	15,000	8.64/M	GRM0335C1E330JD01D
			39pF	±5%	0.3	490-3152-1-ND ***NEW!***	.43	2.54	7.31	490-3152-2-ND ***NEW!***	15,000	7.02/M	GRM0335C1E390JD01D
			47pF	±5%	0.3	490-1256-1-ND	.53	3.12	9.00	490-1256-2-ND	15,000	8.64/M	GRM0335C1E470JD01D
0201			68pF	±5%	0.3	490-3157-1-ND ***NEW!***	.43	2.54	7.31	490-3157-2-ND ***NEW!***	15,000	7.02/M	GRM0335C1E680JD01D
			82pF	±5%	0.3	490-1257-1-ND	.53	3.12	9.00	490-1257-2-ND	15,000	8.64/M	GRM0335C1E820JD01D
			100pF	±5%	0.3	490-3160-1-ND ***NEW!***	.53	3.12	9.00	490-3160-2-ND ***NEW!***	15,000	8.64/M	GRM0335C1E101JD01D
			100pF	±10%	0.3	490-3172-1-ND ***NEW!***	.43	2.54	7.31	490-3172-2-ND ***NEW!***	15,000	7.02/M	GRM033R71E101KA01D
			150pF	±10%	0.3	490-3174-1-ND ***NEW!***	.43	2.54	7.31	490-3174-2-ND ***NEW!***	15,000	7.02/M	GRM033R71E151KA01D
			220pF	±10%	0.3	490-3176-1-ND ***NEW!***	.43	2.54	7.31	490-3176-2-ND ***NEW!***	15,000	7.02/M	GRM033R71E221KA01D
			330pF	±10%	0.3	490-3178-1-ND ***NEW!***	.43	2.54	7.31	490-3178-2-ND ***NEW!***	15,000	7.02/M	GRM033R71E331KA01D
		25	470pF	±10%	0.3	490-3180-1-ND ***NEW!***	.43	2.54	7.31	490-3180-2-ND ***NEW!***	15,000	7.02/M	GRM033R71E471KA01D
			680pF	±10%	0.3	490-3182-1-ND ***NEW!***	.43	2.54	7.31	490-3182-2-ND ***NEW!***	15,000	7.02/M	GRM033R71E681KA01D
			820pF	±10%	0.3	490-3183-1-ND ***NEW!***	.43	2.54	7.31	490-3183-2-ND ***NEW!***	15,000	7.02/M	GRM033R71E821KA01D
			1000pF	±10%	0.3	490-3184-1-ND ***NEW!***	.43	2.54	7.31	490-3184-2-ND ***NEW!***	15,000	7.02/M	GRM033R71E102KA01D
			1500pF	±10%	0.3	490-3185-1-ND ***NEW!***	.45	2.67	7.69	490-3185-2-ND ***NEW!***	15,000	7.38/M	GRM033R71E152KA01D
			100pF	±10%	0.3	490-1258-1-ND	.53	3.12	9.00	490-1258-2-ND	15,000	8.64/M	GRM033R71C101KD01D
			150pF	±10%	0.3	490-3186-1-ND ***NEW!***	.43	2.54	7.31	490-3186-2-ND ***NEW!***	15,000	7.02/M	GRM033R71C151KD01D
			220pF	±10%	0.3	490-3187-1-ND ***NEW!***	.43	2.54	7.31	490-3187-2-ND ***NEW!***	15,000	7.02/M	GRM033R71C221KD01D
			330pF	±10%	0.3	490-3189-1-ND ***NEW!***	.43	2.54	7.31	490-3189-2-ND ***NEW!***	15,000	7.02/M	GRM033R71C331KD01D
	X7R	16	470pF	±10%	0.3	490-1259-1-ND	.53	3.12	9.00	490-1259-2-ND	15,000	8.64/M	GRM033R71C471KD01D
			680pF	±10%	0.3	490-1260-1-ND	.53	3.12	9.00	490-1260-2-ND	15,000	8.64/M	GRM033R71C681KD01D
			1000pF	±10%	0.3	490-1261-1-ND	.53	3.12	9.00	490-1261-2-ND	15,000	8.64/M	GRM033R71C102KD01D
			3300pF	±10%	0.3	490-3191-1-ND ***NEW!***	.45	2.67	7.69	490-3191-2-ND ***NEW!***	15,000	7.38/M	GRM033R71C332KA88D
			4700pF	±10%	0.3	490-3192-1-ND ***NEW!***	.45	2.67	7.69	490-3192-2-ND ***NEW!***	15,000	7.38/M	GRM033R71A472KA01D
		10	6800pF	±10%	0.3	490-3193-1-ND ***NEW!***	.45	2.67	7.69	490-3193-2-ND ***NEW!***	15,000	7.38/M	GRM033R71A682KA01D
			10000pF	±10%	0.3	490-3194-1-ND ***NEW!***	.45	2.67	7.69	490-3194-2-ND ***NEW!***	15,000	7.38/M	GRM033R71A103KA01D
		6.3	10000pF	±10%	0.3	490-1262-1-ND	.86	5.07	14.63	490-1262-2-ND	15,000	14.04/M	GRM033R70J103KA01D
			1500pF	±10%	0.3	490-3161-1-ND ***NEW!***	.45	2.67	7.69	490-3161-2-ND ***NEW!***	15,000	7.38/M	GRM033R61A152KA01D
			2200pF	±10%	0.3	490-3162-1-ND ***NEW!***	.45	2.67	7.69	490-3162-2-ND ***NEW!***	15,000	7.38/M	GRM033R61A222KA01D
			3300pF	±10%	0.3	490-3163-1-ND ***NEW!***	.45	2.67	7.69	490-3163-2-ND ***NEW!***	15,000	7.38/M	GRM033R61A332KA01D
		10	4700pF	±10%	0.3	490-3164-1-ND ***NEW!***	.45	2.67	7.69	490-3164-2-ND ***NEW!***	15,000	7.38/M	GRM033R61A472KA01D
			6800pF	±10%	0.3	490-3165-1-ND ***NEW!***	.45	2.67	7.69	490-3165-2-ND ***NEW!***	15,000	7.38/M	GRM033R61A682KA01D
	X5R		10000pF	±10%	0.3	490-3166-1-ND ***NEW!***	.45	2.67	7.69	490-3166-2-ND ***NEW!***	15,000	7.38/M	GRM033R61A103KA01D
			15000pF	±10%	0.3	490-3168-1-ND ***NEW!***	.52	3.06	8.81	490-3168-2-ND ***NEW!***	15,000	8.46/M	GRM033R60J153KE01D
			22000pF	±10%	0.3	490-3169-1-ND ***NEW!***	.55	3.25	9.38	490-3169-2-ND ***NEW!***	15,000	9.00/M	GRM033R60J223KE01D
		6.3	33000pF	±10%	0.3	490-3170-1-ND ***NEW!***	.59	3.51	10.13	490-3170-2-ND ***NEW!***	15,000	9.72/M	GRM033R60J333KE01D
			68000pF	±10%	0.3	490-3171-1-ND ***NEW!***	.65	3.84	11.06	490-3171-2-ND ***NEW!***	15,000	10.62/M	GRM033R60J683KE19D
			.1µF	±10%	0.3	490-3167-1-ND ***NEW!***	.70	4.16	12.00	490-3167-2-ND ***NEW!***	15,000	11.52/M	GRM033R60J104KE19D
	Y5V	10	4700pF	+80%, -20%	0.3	490-3197-1-ND ***NEW!***	.47	2.80	8.06	490-3197-2-ND ***NEW!***	15,000	7.74/M	GRM033F51A472ZD01D
			10000pF	+80%, -20%	0.3	490-3195-1-ND ***NEW!***	.47	2.80	8.06	490-3195-2-ND ***NEW!***	15,000	7.74/M	GRM033F51A103ZD01D
			.5pF	±.25pF	0.5	490-1263-1-ND	.34	2.02	5.81	490-1263-2-ND	10,000	5.58/M	GRM1555C1HR50CZ01D
			.75pF	±.25pF	0.5	490-1264-1-ND	.34	2.02	5.81	490-1264-2-ND	10,000	5.58/M	GRM1555C1HR75CZ01D
			1.2pF	±.25pF	0.5	490-1265-1-ND	.34	2.02	5.81	490-1265-2-ND	10,000	5.58/M	GRM1555C1H1R2CZ01D
			1.5pF	±.25pF	0.5	490-1266-1-ND	.34	2.02	5.81	490-1266-2-ND	10,000	5.58/M	GRM1555C1H1R5CZ01D
			1.8pF	±.25pF	0.5	490-3203-1-ND ***NEW!***	.30	1.76	5.06	490-3203-2-ND ***NEW!***	10,000	4.86/M	GRM1555C1H1R8CZ01D
			2.2pF	±.25pF	0.5	490-1267-1-ND	.34	2.02	5.81	490-1267-2-ND	10,000	5.58/M	GRM1555C1H2R2CZ01D
			2.4pF	±.25pF	0.5	490-1268-1-ND	.34	2.02	5.81	490-1268-2-ND	10,000	5.58/M	GRM1555C1H2R4CZ01D
			2.7pF	±.25pF	0.5	490-1269-1-ND	.34	2.02	5.81	490-1269-2-ND	10,000	5.58/M	GRM1555C1H2R7CZ01D
			3.0pF	±.25pF	0.5	490-3205-1-ND ***NEW!***	.30	1.76	5.06	490-3205-2-ND ***NEW!***	10,000	4.86/M	GRM1555C1H3R0CZ01D
			3.3pF	±.25pF	0.5	490-1270-1-ND	.34	2.02	5.81	490-1270-2-ND	10,000	5.58/M	GRM1555C1H3R3CZ01D
			3.6pF	±.25pF	0.5	490-1271-1-ND	.34	2.02	5.81	490-1271-2-ND	10,000	5.58/M	GRM1555C1H3R6CZ01D
			3.9pF	±.25pF	0.5	490-1272-1-ND	.34	2.02	5.81	490-1272-2-ND	10,000	5.58/M	GRM1555C1H3R9CZ01D
			4.0pF	±.25pF	0.5	490-3206-1-ND ***NEW!***	.30	1.76	5.06	490-3206-2-ND ***NEW!***	10,000	4.86/M	GRM1555C1H4R0CZ01D
			4.7pF	±.25pF	0.5	490-1273-1-ND	.34	2.02	5.81	490-1273-2-ND	10,000	5.58/M	GRM1555C1H4R7CZ01D
			5.0pF	±.25pF	0.5	490-1274-1-ND	.34	2.02	5.81	490-1274-2-ND	10,000	5.58/M	GRM1555C1H5R0CZ01D

0402

Newer ceramic formulation

(Continued)

E

Size Code	Type	WV DC	Capacitance	Tolerance	Dimension T (mm)	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Digi-Key Part No.	Tape & Reel Size	Pricing	Murata Part No.
			5.1pF	±.5pF	0.5	490-3208-1-ND ***NEW!***	.30	1.76	5.06	490-3208-2-ND ***NEW!***	10,000	4.86/M	GRM1555C1H5R1DZ
			5.6pF	±.5pF	0.5	490-1275-1-ND	.34	2.02	5.81	490-1275-2-ND	10,000	5.58/M	GRM1555C1H5R6DZ
			6.0pF	±.5pF	0.5	490-3209-1-ND ***NEW!***	.30	1.76	5.06	490-3209-2-ND ***NEW!***	10,000	4.86/M	GRM1555C1H6R0DZ
			6.8pF	±.5pF	0.5	490-1276-1-ND	.34	2.02	5.81	490-1276-2-ND	10,000	5.58/M	GRM1555C1H6R8DZ
			7.0pF	±.5pF	0.5	490-1277-1-ND	.34	2.02	5.81	490-1277-2-ND	10,000	5.58/M	GRM1555C1H7R0DZ
			7.5pF	±.5pF	0.5	490-3211-1-ND ***NEW!***	.30	1.76	5.06	490-3211-2-ND ***NEW!***	10,000	4.86/M	GRM1555C1H7R5DZ
			8.0pF	±.5pF	0.5	490-3212-1-ND ***NEW!***	.30	1.76	5.06	490-3212-2-ND ***NEW!***	10,000	4.86/M	GRM1555C1H8R0DZ
			9.0pF	±.5pF	0.5	490-3214-1-ND ***NEW!***	.30	1.76	5.06	490-3214-2-ND ***NEW!***	10,000	4.86/M	GRM1555C1H9R0DZ
			10pF	±5%	0.5	490-1278-1-ND	.35	2.08	6.00	490-1278-2-ND	10,000	5.76/M	GRM1555C1H100JZ0
			12pF	±5%	0.5	490-1279-1-ND	.34	2.02	5.81	490-1279-2-ND	10,000	5.58/M	GRM1555C1H120JZ0
			15pF	±5%	0.5	490-1280-1-ND	.34	2.02	5.81	490-1280-2-ND	10,000	5.58/M	GRM1555C1H150JZ0
			18pF	±5%	0.5	490-1281-1-ND	.34	2.02	5.81	490-1281-2-ND	10,000	5.58/M	GRM1555C1H180JZ0
			20pF	±5%	0.5	490-1282-1-ND	.45	2.67	7.69	490-1282-2-ND	10,000	7.38/M	GRM1555C1H200JZ0
			22pF	±5%	0.5	490-1283-1-ND	.34	2.02	5.81	490-1283-2-ND	10,000	5.58/M	GRM1555C1H220JZ0
			24pF	±5%	0.5	490-3219-1-ND ***NEW!***	.39	2.28	6.56	490-3219-2-ND ***NEW!***	10,000	6.30/M	GRM1555C1H240JZ0
			27pF	±5%	0.5	490-1284-1-ND	.34	2.02	5.81	490-1284-2-ND	10,000	5.58/M	GRM1555C1H270JZ0
			30pF	±5%	0.5	490-1285-1-ND	.45	2.67	7.69	490-1285-2-ND	10,000	7.38/M	GRM1555C1H300JZ0
			33pF	±5%	0.5	490-3220-1-ND ***NEW!***	.30	1.76	5.06	490-3220-2-ND ***NEW!***	10,000	4.86/M	GRM1555C1H330JZ0
			39pF	±5%	0.5	490-1286-1-ND	.34	2.02	5.81	490-1286-2-ND	10,000	5.58/M	GRM1555C1H390JZ0
			43pF	±5%	0.5	490-3222-1-ND ***NEW!***	.39	2.28	6.56	490-3222-2-ND ***NEW!***	10,000	6.30/M	GRM1555C1H430JZ0
			47pF	±5%	0.5	490-1287-1-ND	.34	2.02	5.81	490-1287-2-ND	10,000	5.58/M	GRM1555C1H470JZ0
	C0G (NP0)		51pF	±5%	0.5	490-3223-1-ND ***NEW!***	.39	2.28	6.56	490-3223-2-ND ***NEW!***	10,000	6.30/M	GRM1555C1H510JZ0
		50	56pF	±5%	0.5	490-1288-1-ND	.34	2.02	5.81	490-1288-2-ND	10,000	5.58/M	GRM1555C1H560JD0
			68pF	±5%	0.5	490-1289-1-ND	.34	2.02	5.81	490-1289-2-ND	10,000	5.58/M	GRM1555C1H680JD0
			75pF	±5%	0.5	490-3225-1-ND ***NEW!***	.39	2.28	6.56	490-3225-2-ND ***NEW!***	10,000	6.30/M	GRM1555C1H750JZ0
			82pF	±5%	0.5	490-1290-1-ND	.30	1.76	5.06	490-1290-2-ND	10,000	4.86/M	GRM1555C1H820JZ0
			100pF	±5%	0.5	490-1291-1-ND	.34	2.02	5.81	490-1291-2-ND	10,000	5.58/M	GRM1555C1H101JD0
			100pF	±5%	0.5	490-3458-1-ND† ***NEW!***	.30	1.76	5.06	490-3458-2-ND† ***NEW!***	10,000	4.86/M	GRM1555C1H101JZ0
			110pF	±5%	0.5	490-3227-1-ND ***NEW!***	.51	2.99	8.63	490-3227-2-ND ***NEW!***	10,000	8.28/M	GRM1555C1H111JA0
			120pF	±5%	0.5	490-1292-1-ND	.44	2.60	7.50	490-1292-2-ND	10,000	7.20/M	GRM1555C1H121JA0
			150pF	±5%	0.5	490-3229-1-ND ***NEW!***	.39	2.28	6.56	490-3229-2-ND ***NEW!***	10,000	6.30/M	GRM1555C1H151JA0
			160pF	±5%	0.5	490-3230-1-ND ***NEW!***	.51	2.99	8.63	490-3230-2-ND ***NEW!***	10,000	8.28/M	GRM1555C1H161JA0
			180pF	±5%	0.5	490-3231-1-ND ***NEW!***	.39	2.28	6.56	490-3231-2-ND ***NEW!***	10,000	6.30/M	GRM1555C1H181JA0
			200pF	±5%	0.5	490-3232-1-ND ***NEW!***	.51	2.99	8.63	490-3232-2-ND ***NEW!***	10,000	8.28/M	GRM1555C1H201JA0
			220pF	±5%	0.5	490-1293-1-ND	.45	2.67	7.69	490-1293-2-ND	10,000	7.38/M	GRM1555C1H221JA0
			270pF	±5%	0.5	490-1294-1-ND	.59	3.51	10.13	490-1294-2-ND	10,000	9.72/M	GRM1555C1H271JA0
			330pF	±5%	0.5	490-1295-1-ND	.59	3.51	10.13	490-1295-2-ND	10,000	9.72/M	GRM1555C1H331JA0
			390pF	±5%	0.5	490-1296-1-ND	.64	3.77	10.88	490-1296-2-ND	10,000	10.44/M	GRM1555C1H391JA0
			470pF	±5%	0.5	490-1297-1-ND	.64	3.77	10.88	490-1297-2-ND	10,000	10.44/M	GRM1555C1H471JA0
			510pF	±5%	0.5	490-3237-1-ND ***NEW!***	.59	3.51	10.13	490-3237-2-ND ***NEW!***	10,000	9.72/M	GRM1555C1H511JA0
			560pF	±5%	0.5	490-3238-1-ND ***NEW!***	.55	3.25	9.38	490-3238-2-ND ***NEW!***	10,000	9.00/M	GRM1555C1H561JA0
			620pF	±5%	0.5	490-3239-1-ND ***NEW!***	.59	3.51	10.13	490-3239-2-ND ***NEW!***	10,000	9.72/M	GRM1555C1H621JA0
			680pF	±5%	0.5	490-3240-1-ND ***NEW!***	.55	3.25	9.38	490-3240-2-ND ***NEW!***	10,000	9.00/M	GRM1555C1H681JA0
			820pF	±5%	0.5	490-3242-1-ND ***NEW!***	.70	4.16	12.00	490-3242-2-ND ***NEW!***	10,000	11.52/M	GRM1555C1H821JA0
			1000pF	±5%	0.5	490-3244-1-ND ***NEW!***	.78	4.62	13.31	490-3244-2-ND ***NEW!***	10,000	12.78/M	GRM1555C1H102JA0
			220pF	±10%	0.5	490-1298-1-ND	.39	2.28	6.56	490-1298-2-ND	10,000	6.30/M	GRM155R71H221KA0
			270pF	±10%	0.5	490-1299-1-ND	.41	2.41	6.94	490-1299-2-ND	10,000	6.66/M	GRM155R71H271KA0
0402			470pF	±10%	0.5	490-1300-1-ND	.39	2.28	6.56	490-1300-2-ND	10,000	6.30/M	GRM155R71H471KA0
			560pF	±10%	0.5	490-1301-1-ND	.41	2.41	6.94	490-1301-2-ND	10,000	6.66/M	GRM155R71H561KA0
			680pF	±10%	0.5	490-1302-1-ND	.41	2.41	6.94	490-1302-2-ND	10,000	6.66/M	GRM155R71H681KA0
			820pF	±10%	0.5	490-3250-1-ND ***NEW!***	.37	2.21	6.38	490-3250-2-ND ***NEW!***	10,000	6.12/M	GRM155R71H821KA0
		50	1000pF	±10%	0.5	490-1303-1-ND	.32	1.89	5.44	490-1303-2-ND	10,000	5.22/M	GRM155R71H102KA0
			1200pF	±10%	0.5	490-1304-1-ND	.45	2.67	7.69	490-1304-2-ND	10,000	7.38/M	GRM155R71H122KA0
			1500pF	±10%	0.5	490-3245-1-ND ***NEW!***	.40	2.34	6.75	490-3245-2-ND ***NEW!***	10,000	6.48/M	GRM155R71H152KA0
			2200pF	±10%	0.5	490-1305-1-ND	.32	1.89	5.44	490-1305-2-ND	10,000	5.22/M	GRM155R71H222KA0
			2700pF	±10%	0.5	490-1306-1-ND	.45	2.67	7.69	490-1306-2-ND	10,000	7.38/M	GRM155R71H272KA0
			3900pF	±10%	0.5	490-1307-1-ND	.45	2.67	7.69	490-1307-2-ND	10,000	7.38/M	GRM155R71H392KA0
			4700pF	±10%	0.5	490-1308-1-ND	.32	1.89	5.44	490-1308-2-ND	10,000	5.22/M	GRM155R71H472KA0
	X7R		4700pF	±10%	0.5	490-1309-1-ND	.32	1.89	5.44	490-1309-2-ND	10,000	5.22/M	GRM155R71E472KA0
			6800pF	±10%	0.5	490-1310-1-ND	.45	2.67	7.69	490-1310-2-ND	10,000	7.38/M	GRM155R71E682KA0
			8200pF	±10%	0.5	490-1311-1-ND	.53	3.12	9.00	490-1311-2-ND	10,000	8.64/M	GRM155R71E822KA0
		25	10000pF	±10%	0.5	490-1312-1-ND	.32	1.89	5.44	490-1312-2-ND	10,000	5.22/M	GRM155R71E103KA0
			15000pF	±10%	0.5	490-3251-1-ND ***NEW!***	.51	2.99	8.63	490-3251-2-ND ***NEW!***	10,000	8.28/M	GRM155R71E153KA6
			22000pF	±10%	0.5	490-3252-1-ND ***NEW!***	.42	2.47	7.13	490-3252-2-ND ***NEW!***	10,000	6.84/M	GRM155R71E223KA6
			33000pF	±10%	0.5	490-3253-1-ND ***NEW!***	.81	4.81	13.88	490-3253-2-ND ***NEW!***	10,000	13.32/M	GRM155R71E333KA8
			47000pF	±10%	0.5	490-3254-1-ND ***NEW!***	.52	3.06	8.81	490-3254-2-ND ***NEW!***	10,000	8.46/M	GRM155R71E473KA8
			10000pF	±10%	0.5	490-1313-1-ND	.32	1.89	5.44	490-1313-2-ND	10,000	5.22/M	GRM155R71C103KA0
		16	15000pF	±10%	0.5	490-1314-1-ND	.53	3.12	9.00	490-1314-2-ND	10,000	8.64/M	GRM155R71C153KA0
			22000pF	±10%	0.5	490-3256-1-ND ***NEW!***	.35	2.08	6.00	490-3256-2-ND ***NEW!***	10,000	5.76/M	GRM155R71C223KA0
			.1µF	±10%	0.5	490-3261-1-ND ***NEW!***	.37	2.21	6.38	490-3261-2-ND ***NEW!***	10,000	6.12/M	GRM155R71C104KA8
		10	33000pF	±10%	0.5	490-1315-1-ND	.92	5.46	15.75	490-1315-2-ND	10,000	15.12/M	GRM155R71A333KA0
			47000pF	±10%	0.5	490-1316-1-ND	.58	3.45	9.94	490-1316-2-ND	10,000	9.54/M	GRM155R71A473KA0
			68000pF	±10%	0.5	490-1317-1-ND	.92	5.46	15.75	490-1317-2-ND	10,000	15.12/M	GRM155R61A683KA0
		10	.1µF	±10%	0.5	490-1318-1-ND	.51	2.99	8.63	490-1318-2-ND	10,000	8.28/M	GRM155R61A104KA0
			.33µF	±10%	0.5	490-3263-1-ND ***NEW!***	1.67	9.88	28.50	490-3263-2-ND ***NEW!***	10,000	27.36/M	GRM155R61A334KE1
	X5R		.47µF	±10%	0.5	490-3264-1-ND ***NEW!***	1.64	9.69	27.94	490-3264-2-ND ***NEW!***	10,000	26.82/M	GRM155R61A474KE1
			.33µF	±10%	0.5	490-3265-1-ND ***NEW!***	1.67	9.88	28.50	490-3265-2-ND ***NEW!***	10,000	27.36/M	GRM155R60J334KE0
		6.3	.47µF	±10%	0.5	490-3266-1-ND ***NEW!***	1.64	9.69	27.94	490-3266-2-ND ***NEW!***	10,000	26.82/M	GRM155R60J474KE1
			1.0µF	±10%	0.5	490-1320-1-ND	1.97	11.64	33.56	490-1320-2-ND	10,000	32.22/M	GRM155R60J105KE1
			1.0µF	±20%	0.5	490-1319-1-ND	1.97	11.64	33.56	490-1319-2-ND	10,000	32.22/M	GRM155R60J105ME1
			2200pF	+80, -20%	0.5	490-1321-1-ND	.44	2.60	7.50	490-1321-2-ND	10,000	7.20/M	GRM155F51H222ZA0
		50	4700pF	+80, -20%	0.5	490-1322-1-ND	.44	2.60	7.50	490-1322-2-ND	10,000	7.20/M	GRM155F51H472ZA0
			10000pF	+80, -20%	0.5	490-1323-1-ND	.34	2.02	5.81	490-1323-2-ND	10,000	5.58/M	GRM155F51H103ZA0
			10000pF	+80, -20%	0.5	490-1324-1-ND	.34	2.02	5.81	490-1324-2-ND	10,000	5.58/M	GRM155F51E103ZA0
		25	22000pF	+80, -20%	0.5	490-1325-1-ND	.36	2.15	6.19	490-1325-2-ND	10,000	5.94/M	GRM155F51E223ZA0
			47000pF	+80, -20%	0.5	490-3270-1-ND ***NEW!***	.32	1.89	5.44	490-3270-2-ND ***NEW!***	10,000	5.22/M	GRM155F51E473ZA0
			.1µF	+80, -20%	0.5	490-3271-1-ND ***NEW!***	.31	1.82	5.25	490-3271-2-ND ***NEW!***	10,000	5.04/M	GRM155F51E104ZA0
	Y5V		22000pF	+80, -20%	0.5	490-3272-1-ND ***NEW!***	.32	1.89	5.44	490-3272-2-ND ***NEW!***	10,000	5.22/M	GRM155F51C223ZA0
			47000pF	+80, -20%	0.5	490-1326-1-ND	.36	2.15	6.19	490-1326-2-ND	10,000	5.94/M	GRM155F51C473ZA0
		16	.1µF	+80, -20%	0.5	490-1327-1-ND	.35	2.08	6.00	490-1327-2-ND	10,000	5.76/M	GRM155F51C104ZA0
			.22µF	+80, -20%	0.5	490-3273-1-ND ***NEW!***	.70	4.16	12.00	490-3273-2-ND ***NEW!***	10,000	11.52/M	GRM155F51C224ZA0
			.47µF	+80, -20%	0.5	490-3274-1-ND ***NEW!***	.69	4.10	11.81	490-3274-2-ND ***NEW!***	10,000	11.34/M	GRM155F51C474ZA0
			.33µF	+80, -20%	0.5	490-3275-1-ND ***NEW!***	.70	4.16	12.00	490-3275-2-ND ***NEW!***	10,000	11.52/M	GRM155F51A334ZE0
		10	.47µF	+80, -20%	0.5	490-3276-1-ND ***NEW!***	.74	4.36	12.56	490-3276-2-ND ***NEW!***	10,000	12.06/M	GRM155F51A474ZE0
			.1µF	+80, -20%	0.5	490-3277-1-ND ***NEW!***	.31	1.82	5.25	490-3277-2-ND ***NEW!***	10,000	5.04/M	GRM155F50J104ZA0
		6.3	.68µF	+80, -20%	0.5	490-3278-1-ND ***NEW!***	.78	4.62	13.31	490-3278-2-ND ***NEW!***	10,000	12.78/M	GRM155F50J684ZE0
			10pF	±.25pF	0.8	490-3279-1-ND ***NEW!***	.55	3.25	9.38	490-3279-2-ND ***NEW!***	4,000	9.00/M	GRM1885C2A100RA0
0603	C0G (NP0)	100	11pF	±5%	0.8	490-1328-1-ND	.59	3.51	10.13	490-1328-2-ND	4,000	9.72/M	GRM1885C2A110JA0
			12pF	±5%	0.8	490-1329-1-ND	.55	3.25	9.38	490-1329-2-ND	4,000	9.00/M	GRM1885C2A120JA0
			13pF	±5%	0.8	490-1330-1-ND	.62	3.64	10.50	490-1330-2-ND	4,000	10.08/M	GRM1885C2A130JA0

† Newer ceramic formulation

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Size Code	Type	WV DC	Capacitance	Tolerance	Dimension T (mm)	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Digi-Key Part No.	Tape & Reel Size	Pricing	Murata Part No.
			15pF	±5%	0.8	490-1331-1-ND	.55	3.25	9.38	490-1331-2-ND	4,000	9.00/M	GRM1885C2A150JA01D
			16pF	±5%	0.8	490-1332-1-ND	.62	3.64	10.50	490-1332-2-ND	4,000	10.08/M	GRM1885C2A160JA01D
			18pF	±5%	0.8	490-1333-1-ND	.55	3.25	9.38	490-1333-2-ND	4,000	9.00/M	GRM1885C2A180JA01D
			20pF	±5%	0.8	490-1334-1-ND	.59	3.51	10.13	490-1334-2-ND	4,000	9.72/M	GRM1885C2A200JA01D
			22pF	±5%	0.8	490-1335-1-ND	.55	3.25	9.38	490-1335-2-ND	4,000	9.00/M	GRM1885C2A220JA01D
			24pF	±5%	0.8	490-1336-1-ND	.62	3.64	10.50	490-1336-2-ND	4,000	10.08/M	GRM1885C2A240JA01D
			27pF	±5%	0.8	490-1337-1-ND	.55	3.25	9.38	490-1337-2-ND	4,000	9.00/M	GRM1885C2A270JA01D
			30pF	±5%	0.8	490-1338-1-ND	.62	3.64	10.50	490-1338-2-ND	4,000	10.08/M	GRM1885C2A300JA01D
			33pF	±5%	0.8	490-1339-1-ND	.55	3.25	9.38	490-1339-2-ND	4,000	9.00/M	GRM1885C2A330JA01D
			36pF	±5%	0.8	490-1340-1-ND	.62	3.64	10.50	490-1340-2-ND	4,000	10.08/M	GRM1885C2A360JA01D
			39pF	±5%	0.8	490-1341-1-ND	.55	3.25	9.38	490-1341-2-ND	4,000	9.00/M	GRM1885C2A390JA01D
			43pF	±5%	0.8	490-1342-1-ND	.59	3.51	10.13	490-1342-2-ND	4,000	9.72/M	GRM1885C2A430JA01D
			47pF	±5%	0.8	490-1343-1-ND	.55	3.25	9.38	490-1343-2-ND	4,000	9.00/M	GRM1885C2A470JA01D
			51pF	±5%	0.8	490-1344-1-ND	.59	3.51	10.13	490-1344-2-ND	4,000	9.72/M	GRM1885C2A510JA01D
			56pF	±5%	0.8	490-1345-1-ND	.55	3.25	9.38	490-1345-2-ND	4,000	9.00/M	GRM1885C2A560JA01D
			62pF	±5%	0.8	490-1346-1-ND	.59	3.51	10.13	490-1346-2-ND	4,000	9.72/M	GRM1885C2A620JA01D
			68pF	±5%	0.8	490-1347-1-ND	.55	3.25	9.38	490-1347-2-ND	4,000	9.00/M	GRM1885C2A680JA01D
			75pF	±5%	0.8	490-1348-1-ND	.59	3.51	10.13	490-1348-2-ND	4,000	9.72/M	GRM1885C2A750JA01D
			82pF	±5%	0.8	490-1349-1-ND	.55	3.25	9.38	490-1349-2-ND	4,000	9.00/M	GRM1885C2A820JA01D
			91pF	±5%	0.8	490-1350-1-ND	.59	3.51	10.13	490-1350-2-ND	4,000	9.72/M	GRM1885C2A910JA01D
		100	100pF	±5%	0.8	490-1351-1-ND	.55	3.25	9.38	490-1351-2-ND	4,000	9.00/M	GRM1885C2A101JA01D
			110pF	±5%	0.8	490-1352-1-ND	.81	4.81	13.88	490-1352-2-ND	4,000	13.32/M	GRM1885C2A111JA01D
			120pF	±5%	0.8	490-1353-1-ND	.79	4.68	13.50	490-1353-2-ND	4,000	12.96/M	GRM1885C2A121JA01D
			130pF	±5%	0.8	490-1354-1-ND	.81	4.81	13.88	490-1354-2-ND	4,000	13.32/M	GRM1885C2A131JA01D
			150pF	±5%	0.8	490-1355-1-ND	.63	3.71	10.69	490-1355-2-ND	4,000	10.26/M	GRM1885C2A151JA01D
			160pF	±5%	0.8	490-1356-1-ND	.81	4.81	13.88	490-1356-2-ND	4,000	13.32/M	GRM1885C2A161JA01D
			180pF	±5%	0.8	490-1357-1-ND	.79	4.68	13.50	490-1357-2-ND	4,000	12.96/M	GRM1885C2A181JA01D
			200pF	±5%	0.8	490-1358-1-ND	.85	5.01	14.44	490-1358-2-ND	4,000	13.86/M	GRM1885C2A201JA01D
			220pF	±5%	0.8	490-1359-1-ND	.70	4.16	12.00	490-1359-2-ND	4,000	11.52/M	GRM1885C2A221JA01D
			240pF	±5%	0.8	490-1360-1-ND	.92	5.46	15.75	490-1360-2-ND	4,000	15.12/M	GRM1885C2A241JA01D
			270pF	±5%	0.8	490-1361-1-ND	.88	5.20	15.00	490-1361-2-ND	4,000	14.40/M	GRM1885C2A271JA01D
			300pF	±5%	0.8	490-1362-1-ND	.95	5.59	16.13	490-1362-2-ND	4,000	15.48/M	GRM1885C2A301JA01D
			330pF	±5%	0.8	490-1363-1-ND	.75	4.42	12.75	490-1363-2-ND	4,000	12.24/M	GRM1885C2A331JA01D
			360pF	±5%	0.8	490-1364-1-ND	.95	5.59	16.13	490-1364-2-ND	4,000	15.48/M	GRM1885C2A361JA01D
			390pF	±5%	0.8	490-1365-1-ND	.92	5.46	15.75	490-1365-2-ND	4,000	15.12/M	GRM1885C2A391JA01D
			430pF	±5%	0.8	490-1366-1-ND	.95	5.59	16.13	490-1366-2-ND	4,000	15.48/M	GRM1885C2A431JA01D
			470pF	±5%	0.8	490-1367-1-ND	.80	4.75	13.69	490-1367-2-ND	4,000	13.14/M	GRM1885C2A471JA01D
			510pF	±5%	0.8	490-1368-1-ND	1.07	6.31	18.19	490-1368-2-ND	4,000	17.46/M	GRM1885C2A511JA01D
			560pF	±5%	0.8	490-1369-1-ND	1.02	6.05	17.44	490-1369-2-ND	4,000	16.74/M	GRM1885C2A561JA01D
			680pF	±5%	0.8	490-3280-1-ND ***NEW!***	1.21	7.15	20.63	490-3280-2-ND ***NEW!***	4,000	19.80/M	GRM1885C2A681JA01D
			1000pF	±5%	0.8	490-3281-1-ND ***NEW!***	1.27	7.48	21.56	490-3281-2-ND ***NEW!***	4,000	20.70/M	GRM1885C2A102JA01D
			.5pF	±.25pF	0.8	490-1370-1-ND	.69	4.10	11.81	490-1370-2-ND	4,000	11.34/M	GRM1885C1HR50CZ01D
			.75pF	±.25pF	0.8	490-1371-1-ND	.69	4.10	11.81	490-1371-2-ND	4,000	11.34/M	GRM1885C1HR75CZ01D
			1.0pF	±.25pF	0.8	490-1372-1-ND	.69	4.10	11.81	490-1372-2-ND	4,000	11.34/M	GRM1885C1H1R0CZ01D
			1.1pF	±.25pF	0.8	490-1373-1-ND	.69	4.10	11.81	490-1373-2-ND	4,000	11.34/M	GRM1885C1H1R1CZ01D
			1.2pF	±.25pF	0.8	490-1374-1-ND	.69	4.10	11.81	490-1374-2-ND	4,000	11.34/M	GRM1885C1H1R2CZ01D
			1.3pF	±.25pF	0.8	490-1375-1-ND	.69	4.10	11.81	490-1375-2-ND	4,000	11.34/M	GRM1885C1H1R3CZ01D
			1.5pF	±.25pF	0.8	490-1376-1-ND	.69	4.10	11.81	490-1376-2-ND	4,000	11.34/M	GRM1885C1H1R5CZ01D
			1.6pF	±.25pF	0.8	490-1377-1-ND	.69	4.10	11.81	490-1377-2-ND	4,000	11.34/M	GRM1885C1H1R6CZ01D
			1.8pF	±.25pF	0.8	490-1378-1-ND	.69	4.10	11.81	490-1378-2-ND	4,000	11.34/M	GRM1885C1H1R8CZ01D
603	C0G (NP0)		2.0pF	±.25pF	0.8	490-1379-1-ND	.69	4.10	11.81	490-1379-2-ND	4,000	11.34/M	GRM1885C1H2R0CZ01D
			2.2pF	±.25pF	0.8	490-1380-1-ND	.69	4.10	11.81	490-1380-2-ND	4,000	11.34/M	GRM1885C1H2R2CZ01D
			2.4pF	±.25pF	0.8	490-1381-1-ND	.69	4.10	11.81	490-1381-2-ND	4,000	11.34/M	GRM1885C1H2R4CZ01D
			2.7pF	±.25pF	0.8	490-1382-1-ND	.69	4.10	11.81	490-1382-2-ND	4,000	11.34/M	GRM1885C1H2R7CZ01D
			3.0pF	±.25pF	0.8	490-1383-1-ND	.69	4.10	11.81	490-1383-2-ND	4,000	11.34/M	GRM1885C1H3R0CZ01D
			3.3pF	±.25pF	0.8	490-1384-1-ND	.69	4.10	11.81	490-1384-2-ND	4,000	11.34/M	GRM1885C1H3R3CZ01D
			3.6pF	±.25pF	0.8	490-1385-1-ND	.69	4.10	11.81	490-1385-2-ND	4,000	11.34/M	GRM1885C1H3R6CZ01D
			3.9pF	±.25pF	0.8	490-1386-1-ND	.69	4.10	11.81	490-1386-2-ND	4,000	11.34/M	GRM1885C1H3R9CZ01D
			4.0pF	±.25pF	0.8	490-1387-1-ND	.69	4.10	11.81	490-1387-2-ND	4,000	11.34/M	GRM1885C1H4R0CZ01D
			4.3pF	±.25pF	0.8	490-1388-1-ND	.69	4.10	11.81	490-1388-2-ND	4,000	11.34/M	GRM1885C1H4R3CZ01D
			4.7pF	±.25pF	0.8	490-1389-1-ND	.69	4.10	11.81	490-1389-2-ND	4,000	11.34/M	GRM1885C1H4R7CZ01D
			5.0pF	±.25pF	0.8	490-1390-1-ND	.69	4.10	11.81	490-1390-2-ND	4,000	11.34/M	GRM1885C1H5R0CZ01D
			5.1pF	±.5pF	0.8	490-1391-1-ND	.69	4.10	11.81	490-1391-2-ND	4,000	11.34/M	GRM1885C1H5R1DZ01D
			5.6pF	±.5pF	0.8	490-1392-1-ND	.69	4.10	11.81	490-1392-2-ND	4,000	11.34/M	GRM1885C1H5R6DZ01D
			6.0pF	±.5pF	0.8	490-1393-1-ND	.69	4.10	11.81	490-1393-2-ND	4,000	11.34/M	GRM1885C1H6R0DZ01D
			6.2pF	±.5pF	0.8	490-1394-1-ND	.69	4.10	11.81	490-1394-2-ND	4,000	11.34/M	GRM1885C1H6R2DZ01D
			6.8pF	±.25pF	0.8	490-1395-1-ND	.80	4.75	13.69	490-1395-2-ND	4,000	13.14/M	GRM1885C1H6R8CZ01D
			6.8pF	±.5pF	0.8	490-1396-1-ND	.69	4.10	11.81	490-1396-2-ND	4,000	11.34/M	GRM1885C1H6R8DZ01D
			7.0pF	±.5pF	0.8	490-1397-1-ND	.69	4.10	11.81	490-1397-2-ND	4,000	11.34/M	GRM1885C1H7R0DZ01D
			7.5pF	±.5pF	0.8	490-1398-1-ND	.69	4.10	11.81	490-1398-2-ND	4,000	11.34/M	GRM1885C1H7R5DZ01D
			8.0pF	±.5pF	0.8	490-1399-1-ND	.69	4.10	11.81	490-1399-2-ND	4,000	11.34/M	GRM1885C1H8R0DZ01D
		50	8.2pF	±.5pF	0.8	490-1400-1-ND	.69	4.10	11.81	490-1400-2-ND	4,000	11.34/M	GRM1885C1H8R2DZ01D
			9.0pF	±.5pF	0.8	490-1401-1-ND	.69	4.10	11.81	490-1401-2-ND	4,000	11.34/M	GRM1885C1H9R0DZ01D
			9.1pF	±.5pF	0.8	490-1402-1-ND	.69	4.10	11.81	490-1402-2-ND	4,000	11.34/M	GRM1885C1H9R1DZ01D
			10pF	±5%	0.8	490-1403-1-ND	.69	4.10	11.81	490-1403-2-ND	4,000	11.34/M	GRM1885C1H100JA01D
			11pF	±5%	0.8	490-1404-1-ND	.72	4.23	12.19	490-1404-2-ND	4,000	11.70/M	GRM1885C1H110JA01D
			12pF	±5%	0.8	490-1405-1-ND	.69	4.10	11.81	490-1405-2-ND	4,000	11.34/M	GRM1885C1H120JA01D
			13pF	±5%	0.8	490-1406-1-ND	.72	4.23	12.19	490-1406-2-ND	4,000	11.70/M	GRM1885C1H130JA01D
			15pF	±5%	0.8	490-1407-1-ND	.69	4.10	11.81	490-1407-2-ND	4,000	11.34/M	GRM1885C1H150JA01D
			16pF	±5%	0.8	490-1408-1-ND	.72	4.23	12.19	490-1408-2-ND	4,000	11.70/M	GRM1885C1H160JA01D
			18pF	±5%	0.8	490-1409-1-ND	.69	4.10	11.81	490-1409-2-ND	4,000	11.34/M	GRM1885C1H180JA01D
			20pF	±5%	0.8	490-1410-1-ND	.72	4.23	12.19	490-1410-2-ND	4,000	11.70/M	GRM1885C1H200JA01D
			22pF	±5%	0.8	490-1411-1-ND	.69	4.10	11.81	490-1411-2-ND	4,000	11.34/M	GRM1885C1H220JA01D
			24pF	±5%	0.8	490-1412-1-ND	.72	4.23	12.19	490-1412-2-ND	4,000	11.70/M	GRM1885C1H240JA01D
			27pF	±5%	0.8	490-1413-1-ND	.69	4.10	11.81	490-1413-2-ND	4,000	11.34/M	GRM1885C1H270JA01D
			30pF	±5%	0.8	490-1414-1-ND	.72	4.23	12.19	490-1414-2-ND	4,000	11.70/M	GRM1885C1H300JA01D
			33pF	±5%	0.8	490-1415-1-ND	.69	4.10	11.81	490-1415-2-ND	4,000	11.34/M	GRM1885C1H330JA01D
			36pF	±5%	0.8	490-1416-1-ND	.72	4.23	12.19	490-1416-2-ND	4,000	11.70/M	GRM1885C1H360JA01D
			39pF	±5%	0.8	490-1417-1-ND	.69	4.10	11.81	490-1417-2-ND	4,000	11.34/M	GRM1885C1H390JA01D
			43pF	±5%	0.8	490-1418-1-ND	.72	4.23	12.19	490-1418-2-ND	4,000	11.70/M	GRM1885C1H430JA01D
			47pF	±5%	0.8	490-1419-1-ND	.69	4.10	11.81	490-1419-2-ND	4,000	11.34/M	GRM1885C1H470JA01D
			51pF	±5%	0.8	490-1420-1-ND	.72	4.23	12.19	490-1420-2-ND	4,000	11.70/M	GRM1885C1H510JA01D
			56pF	±5%	0.8	490-1421-1-ND	.69	4.10	11.81	490-1421-2-ND	4,000	11.34/M	GRM1885C1H560JA01D
			62pF	±5%	0.8	490-1422-1-ND	.72	4.23	12.19	490-1422-2-ND	4,000	11.70/M	GRM1885C1H620JA01D
			68pF	±5%	0.8	490-1423-1-ND	.69	4.10	11.81	490-1423-2-ND	4,000	11.34/M	GRM1885C1H680JA01D
			75pF	±5%	0.8	490-1424-1-ND	.72	4.23	12.19	490-1424-2-ND	4,000	11.70/M	GRM1885C1H750JA01D
			82pF	±5%	0.8	490-1425-1-ND	.69	4.10	11.81	490-1425-2-ND	4,000	11.34/M	GRM1885C1H820JA01D
			91pF	±5%	0.8	490-1426-1-ND	.72	4.23	12.19	490-1426-2-ND	4,000	11.70/M	GRM1885C1H910JA01D
			100pF	±5%	0.8	490-1427-1-ND	.69	4.10	11.81	490-1427-2-ND	4,000	11.34/M	GRM1885C1H101JA01D
			110pF	±5%	0.8	490-1428-1-ND	1.03	6.11	17.63	490-1428-2-ND	4,000	16.92/M	GRM1885C1H111JA01D
			120pF	±5%	0.8	490-1429-1-ND	.99	5.85	16.88	490-1429-2-ND	4,000	16.20/M	GRM1885C1H121JA01D

ewer ceramic formulation

(Continued)

Multilayer Ceramic Chip Capacitors (Cont.)

Size Code	Type	WV DC	Capacitance	Tolerance	Dimension T (mm)	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Digi-Key Part No.	Tape & Reel Size	Pricing	Murata Part No.
			130pF	±5%	0.8	490-1430-1-ND	1.05	6.18	17.81	490-1430-2-ND	4,000	17.10/M	GRM1885C1H131JA0
			150pF	±5%	0.8	490-1431-1-ND	1.23	7.28	21.00	490-1431-2-ND	4,000	20.16/M	GRM1885C1H151JA0
			160pF	±5%	0.8	490-1432-1-ND	1.03	6.11	17.63	490-1432-2-ND	4,000	16.92/M	GRM1885C1H161JA0
			180pF	±5%	0.8	490-1433-1-ND	.99	5.85	16.88	490-1433-2-ND	4,000	16.20/M	GRM1885C1H181JA0
			200pF	±5%	0.8	490-1434-1-ND	1.05	6.18	17.81	490-1434-2-ND	4,000	17.10/M	GRM1885C1H201JA0
			220pF	±5%	0.8	490-1435-1-ND	1.01	5.98	17.25	490-1435-2-ND	4,000	16.56/M	GRM1885C1H221JA0
			240pF	±5%	0.8	490-1436-1-ND	1.09	6.44	18.56	490-1436-2-ND	4,000	17.82/M	GRM1885C1H241JA0
			270pF	±5%	0.8	490-1437-1-ND	1.22	7.22	20.81	490-1437-2-ND	4,000	19.98/M	GRM1885C1H271JA0
			300pF	±5%	0.8	490-1438-1-ND	1.13	6.70	19.31	490-1438-2-ND	4,000	18.54/M	GRM1885C1H301JA0
			330pF	±5%	0.8	490-1439-1-ND	1.11	6.57	18.94	490-1439-2-ND	4,000	18.18/M	GRM1885C1H331JA0
			360pF	±5%	0.8	490-1440-1-ND	1.13	6.70	19.31	490-1440-2-ND	4,000	18.54/M	GRM1885C1H361JA0
			390pF	±5%	0.8	490-1441-1-ND	1.10	6.50	18.75	490-1441-2-ND	4,000	18.00/M	GRM1885C1H391JA0
			430pF	±5%	0.8	490-1442-1-ND	1.18	6.96	20.06	490-1442-2-ND	4,000	19.26/M	GRM1885C1H431JA0
			470pF	±5%	0.8	490-1443-1-ND	1.03	6.11	17.63	490-1443-2-ND	4,000	16.92/M	GRM1885C1H471JA0
			510pF	±5%	0.8	490-1444-1-ND	1.34	7.93	22.88	490-1444-2-ND	4,000	21.96/M	GRM1885C1H511JA0
	C0G (NP0)	50	560pF	±5%	0.8	490-1445-1-ND	1.25	7.41	21.38	490-1445-2-ND	4,000	20.52/M	GRM1885C1H561JA0
			620pF	±5%	0.8	490-1446-1-ND	.94	5.53	15.94	490-1446-2-ND	4,000	15.30/M	GRM1885C1H621JA0
			680pF	±5%	0.8	490-1447-1-ND	1.22	7.22	20.81	490-1447-2-ND	4,000	19.98/M	GRM1885C1H681JA0
			750pF	±5%	0.8	490-1448-1-ND	1.17	6.89	19.88	490-1448-2-ND	4,000	19.08/M	GRM1885C1H751JA0
			820pF	±5%	0.8	490-1449-1-ND	1.12	6.63	19.13	490-1449-2-ND	4,000	18.36/M	GRM1885C1H821JA0
			910pF	±5%	0.8	490-1450-1-ND	1.17	6.89	19.88	490-1450-2-ND	4,000	19.08/M	GRM1885C1H911JA0
			1000pF	±5%	0.8	490-1451-1-ND	1.29	7.61	21.94	490-1451-2-ND	4,000	21.06/M	GRM1885C1H102JA0
			1100pF	±5%	0.8	490-1452-1-ND	1.18	6.96	20.06	490-1452-2-ND	4,000	19.26/M	GRM1885C1H112JA0
			1200pF	±5%	0.8	490-1453-1-ND	1.18	6.96	20.06	490-1453-2-ND	4,000	19.26/M	GRM1885C1H122JA0
			1300pF	±5%	0.8	490-1454-1-ND	1.21	7.15	20.63	490-1454-2-ND	4,000	19.80/M	GRM1885C1H132JA0
			1500pF	±5%	0.8	490-1455-1-ND	1.17	6.89	19.88	490-1455-2-ND	4,000	19.08/M	GRM1885C1H152JA0
			1600pF	±5%	0.8	490-1456-1-ND	1.30	7.67	22.13	490-1456-2-ND	4,000	21.24/M	GRM1885C1H162JA0
			1800pF	±5%	0.8	490-1457-1-ND	1.27	7.48	21.56	490-1457-2-ND	4,000	20.70/M	GRM1885C1H182JA0
			2000pF	±5%	0.8	490-1458-1-ND	1.34	7.93	22.88	490-1458-2-ND	4,000	21.96/M	GRM1885C1H202JA0
			2200pF	±5%	0.8	490-1459-1-ND	1.25	7.41	21.38	490-1459-2-ND	4,000	20.52/M	GRM1885C1H222JA0
			2400pF	±5%	0.8	490-3282-1-ND **NEW!**	1.55	9.17	26.44	490-3282-2-ND **NEW!**	4,000	25.38/M	GRM1885C1H242JA0
			2700pF	±5%	0.8	490-3283-1-ND **NEW!**	1.56	9.23	26.63	490-3283-2-ND **NEW!**	4,000	25.56/M	GRM1885C1H272JA0
			220pF	±10%	0.8	490-1460-1-ND	.66	3.90	11.25	490-1460-2-ND	4,000	10.80/M	GRM188R72A221KA0
			220pF	±20%	0.8	490-1461-1-ND	.66	3.90	11.25	490-1461-2-ND	4,000	10.80/M	GRM188R72A221MA0
			270pF	±10%	0.8	490-1462-1-ND	.67	3.97	11.44	490-1462-2-ND	4,000	10.98/M	GRM188R72A271KA0
			330pF	±10%	0.8	490-1464-1-ND	.67	3.97	11.44	490-1464-2-ND	4,000	10.98/M	GRM188R72A331KA0
			330pF	±20%	0.8	490-1463-1-ND	.67	3.97	11.44	490-1463-2-ND	4,000	10.98/M	GRM188R72A331MA0
			390pF	±10%	0.8	490-1465-1-ND	.67	3.97	11.44	490-1465-2-ND	4,000	10.98/M	GRM188R72A391KA0
			470pF	±10%	0.8	490-1467-1-ND	.67	3.97	11.44	490-1467-2-ND	4,000	10.98/M	GRM188R72A471KA0
			470pF	±20%	0.8	490-1466-1-ND	.66	3.90	11.25	490-1466-2-ND	4,000	10.80/M	GRM188R72A471MA0
			560pF	±10%	0.8	490-1468-1-ND	.68	4.03	11.63	490-1468-2-ND	4,000	11.16/M	GRM188R72A561KA0
			680pF	±10%	0.8	490-1469-1-ND	.67	3.97	11.44	490-1469-2-ND	4,000	10.98/M	GRM188R72A681KA0
			680pF	±20%	0.8	490-1470-1-ND	.67	3.97	11.44	490-1470-2-ND	4,000	10.98/M	GRM188R72A681MA0
			820pF	±10%	0.8	490-1471-1-ND	.67	3.97	11.44	490-1471-2-ND	4,000	10.98/M	GRM188R72A821KA0
		100	1000pF	±10%	0.8	490-1472-1-ND	.55	3.25	9.38	490-1472-2-ND	4,000	9.00/M	GRM188R72A102KA0
			1000pF	±20%	0.8	490-1473-1-ND	.54	3.19	9.19	490-1473-2-ND	4,000	8.82/M	GRM188R72A102MA0
			1200pF	±10%	0.8	490-1474-1-ND	.62	3.64	10.50	490-1474-2-ND	4,000	10.08/M	GRM188R72A122KA0
			1500pF	±10%	0.8	490-1475-1-ND	.59	3.51	10.13	490-1475-2-ND	4,000	9.72/M	GRM188R72A152KA0
			1500pF	±20%	0.8	490-1476-1-ND	.58	3.45	9.94	490-1476-2-ND	4,000	9.54/M	GRM188R72A152MA0
			1800pF	±10%	0.8	490-1477-1-ND	.63	3.71	10.69	490-1477-2-ND	4,000	10.26/M	GRM188R72A182KA0
			2200pF	±10%	0.8	490-1478-1-ND	.55	3.25	9.38	490-1478-2-ND	4,000	9.00/M	GRM188R72A222KA0
0603			2200pF	±20%	0.8	490-1479-1-ND	.54	3.19	9.19	490-1479-2-ND	4,000	8.82/M	GRM188R72A222MA0
			2700pF	±10%	0.8	490-1480-1-ND	.67	3.97	11.44	490-1480-2-ND	4,000	10.98/M	GRM188R72A272KA0
			3300pF	±10%	0.8	490-1481-1-ND	.59	3.51	10.13	490-1481-2-ND	4,000	9.72/M	GRM188R72A332KA0
			3300pF	±20%	0.8	490-1482-1-ND	.58	3.45	9.94	490-1482-2-ND	4,000	9.54/M	GRM188R72A332MA0
			22000pF	±10%	0.8	490-3284-1-ND **NEW!**	.78	4.62	13.31	490-3284-2-ND **NEW!**	4,000	12.78/M	GRM188R72A223KA0
			.1µF	±10%	0.8	490-3285-1-ND **NEW!**	2.13	12.61	36.38	490-3285-2-ND **NEW!**	4,000	34.92/M	GRM188R72A104KA3
			220pF	±10%	0.8	490-1483-1-ND	1.01	5.98	17.25	490-1483-2-ND	4,000	16.56/M	GRM188R71H221KA0
			220pF	±20%	0.8	490-1484-1-ND	1.01	5.98	17.25	490-1484-2-ND	4,000	16.56/M	GRM188R71H221MA0
			270pF	±10%	0.8	490-1485-1-ND	.59	3.51	10.13	490-1485-2-ND	4,000	9.72/M	GRM188R71H271KA0
			330pF	±10%	0.8	490-1486-1-ND	.59	3.51	10.13	490-1486-2-ND	4,000	9.72/M	GRM188R71H331KA0
			330pF	±20%	0.8	490-1487-1-ND	.58	3.45	9.94	490-1487-2-ND	4,000	9.54/M	GRM188R71H331MA0
			390pF	±10%	0.8	490-1555-1-ND	.68	4.03	11.63	490-1555-2-ND	4,000	11.16/M	GRM188R71H391KA0
			470pF	±10%	0.8	490-1489-1-ND	.66	3.90	11.25	490-1489-2-ND	4,000	10.80/M	GRM188R71H471KA0
			470pF	±20%	0.8	490-1488-1-ND	.66	3.90	11.25	490-1488-2-ND	4,000	10.80/M	GRM188R71H471MA0
			560pF	±10%	0.8	490-1490-1-ND	.67	3.97	11.44	490-1490-2-ND	4,000	10.98/M	GRM188R71H561KA0
	X7R		680pF	±10%	0.8	490-1491-1-ND	.67	3.97	11.44	490-1491-2-ND	4,000	10.98/M	GRM188R71H681KA0
			680pF	±20%	0.8	490-1492-1-ND	.57	3.38	9.75	490-1492-2-ND	4,000	9.36/M	GRM188R71H681MA0
			820pF	±10%	0.8	490-1493-1-ND	.68	4.03	11.63	490-1493-2-ND	4,000	11.16/M	GRM188R71H821KA0
			1000pF	±10%	0.8	490-1494-1-ND	.57	3.38	9.75	490-1494-2-ND	4,000	9.36/M	GRM188R71H102KA0
			1000pF	±20%	0.8	490-1495-1-ND	.57	3.38	9.75	490-1495-2-ND	4,000	9.36/M	GRM188R71H102MA0
			1200pF	±10%	0.8	490-1496-1-ND	.61	3.58	10.31	490-1496-2-ND	4,000	9.90/M	GRM188R71H122KA0
			1500pF	±10%	0.8	490-1498-1-ND	.65	3.84	11.06	490-1498-2-ND	4,000	10.62/M	GRM188R71H152KA0
			1500pF	±20%	0.8	490-1497-1-ND	.65	3.84	11.06	490-1497-2-ND	4,000	10.62/M	GRM188R71H152MA0
			1800pF	±10%	0.8	490-1499-1-ND	.66	3.90	11.25	490-1499-2-ND	4,000	10.80/M	GRM188R71H182KA0
			2200pF	±10%	0.8	490-1500-1-ND	.41	2.41	6.94	490-1500-2-ND	4,000	6.66/M	GRM188R71H222KA0
			2200pF	±20%	0.8	490-1501-1-ND	.41	2.41	6.94	490-1501-2-ND	4,000	6.66/M	GRM188R71H222MA0
		50	2700pF	±10%	0.8	490-1502-1-ND	.68	4.03	11.63	490-1502-2-ND	4,000	11.16/M	GRM188R71H272KA0
			3300pF	±10%	0.8	490-1503-1-ND	.65	3.84	11.06	490-1503-2-ND	4,000	10.62/M	GRM188R71H332KA0
			3300pF	±20%	0.8	490-1560-1-ND	.65	3.84	11.06	490-1560-2-ND	4,000	10.62/M	GRM188R71H332MA0
			3900pF	±10%	0.8	490-1504-1-ND	.68	4.03	11.63	490-1504-2-ND	4,000	11.16/M	GRM188R71H392KA0
			4700pF	±10%	0.8	490-1506-1-ND	.63	3.71	10.69	490-1506-2-ND	4,000	10.26/M	GRM188R71H472KA0
			4700pF	±20%	0.8	490-1505-1-ND	.63	3.71	10.69	490-1505-2-ND	4,000	10.26/M	GRM188R71H472MA0
			8200pF	±10%	0.8	490-1510-1-ND	.75	4.42	12.75	490-1510-2-ND	4,000	12.24/M	GRM188R71H822KA0
			6800pF	±20%	0.8	490-1509-1-ND	.72	4.23	12.19	490-1509-2-ND	4,000	11.70/M	GRM188R71H682MA0
			5600pF	±10%	0.8	490-1507-1-ND	.74	4.36	12.56	490-1507-2-ND	4,000	12.06/M	GRM188R71H562KA0
			6800pF	±10%	0.8	490-1508-1-ND	.72	4.23	12.19	490-1508-2-ND	4,000	11.70/M	GRM188R71H682KA0
			10000pF	±10%	0.8	490-1512-1-ND	.54	3.19	9.19	490-1512-2-ND	4,000	8.82/M	GRM188R71H103KA0
			10000pF	±20%	0.8	490-1511-1-ND	.54	3.19	9.19	490-1511-2-ND	4,000	8.82/M	GRM188R71H103MA0
			12000pF	±10%	0.8	490-1513-1-ND	.77	4.55	13.13	490-1513-2-ND	4,000	12.60/M	GRM188R71H123KA0
			15000pF	±10%	0.8	490-1514-1-ND	.68	4.03	11.63	490-1514-2-ND	4,000	11.16/M	GRM188R71H153KA0
			15000pF	±20%	0.8	490-1515-1-ND	.57	3.38	9.75	490-1515-2-ND	4,000	9.36/M	GRM188R71H153MA0
			18000pF	±10%	0.8	490-1516-1-ND	.77	4.55	13.13	490-1516-2-ND	4,000	12.60/M	GRM188R71H183KA0
			22000pF	±10%	0.8	490-1517-1-ND	.74	4.36	12.56	490-1517-2-ND	4,000	12.06/M	GRM188R71H223KA0
			22000pF	±20%	0.8	490-1518-1-ND	.59	3.51	10.13	490-1518-2-ND	4,000	9.72/M	GRM188R71H223MA0
			33000pF	±10%	0.8	490-3286-1-ND **NEW!**	.78	4.62	13.31	490-3286-2-ND **NEW!**	4,000	12.78/M	GRM188R71H333KA6
			47000pF	±10%	0.8	490-3287-1-ND **NEW!**	.77	4.55	13.13	490-3287-2-ND **NEW!**	4,000	12.60/M	GRM188R71H473KA6
			68000pF	±10%	0.8	490-3288-1-ND **NEW!**	.86	5.07	14.63	490-3288-2-ND **NEW!**	4,000	14.04/M	GRM188R71H683KA9
			.1µF	±10%	0.8	490-1519-1-ND	.70	4.16	12.00	490-1519-2-ND	4,000	11.52/M	GRM188R71H104KA9
		25	10000pF	±10%	0.8	490-1520-1-ND	.54	3.19	9.19	490-1520-2-ND	4,000	8.82/M	GRM188R71E103KA0
			33000pF	±10%	0.8	490-1521-1-ND	1.01	5.98	17.25	490-1521-2-ND	4,000	16.56/M	GRM188R71E333KA0
			47000pF	±10%	0.8	490-1522-1-ND	1.09	6.44	18.56	490-1522-2-ND	4,000	17.82/M	GRM188R71E473KA0

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			68000pF	±10%	0.8	490-1523-1-ND	.77	4.55	13.13	490-1523-2-ND	4,000	12.60/M	GRM188R71E683KA01D
		25	.1µF	±10%	0.8	490-1524-1-ND	1.18	6.96	20.06	490-1524-2-ND	4,000	19.26/M	GRM188R71E104KA01D
			.22µF	±10%	0.8	490-3290-1-ND **NEW!**	1.35	8.00	23.06	490-3290-2-ND **NEW!**	4,000	22.14/M	GRM188R71E224KA88D
			.47µF	±10%	0.8	490-3291-1-ND **NEW!**	1.63	9.62	27.75	490-3291-2-ND **NEW!**	4,000	26.64/M	GRM188R71E474KA12D
			10000pF	±10%	0.8	490-1525-1-ND	.54	3.19	9.19	490-1525-2-ND	4,000	8.82/M	GRM188R71C103KA01D
			12000pF	±10%	0.8	490-1526-1-ND	.70	4.16	12.00	490-1526-2-ND	4,000	11.52/M	GRM188R71C123KA01D
			22000pF	±10%	0.8	490-1527-1-ND	.72	4.23	12.19	490-1527-2-ND	4,000	11.70/M	GRM188R71C223KA01D
			33000pF	±10%	0.8	490-1528-1-ND	.90	5.33	15.38	490-1528-2-ND	4,000	14.76/M	GRM188R71C333KA01D
			47000pF	±10%	0.8	490-1529-1-ND	1.05	6.18	17.81	490-1529-2-ND	4,000	17.10/M	GRM188R71C473KA01D
	X7R	16	56000pF	±10%	0.8	490-1530-1-ND	1.28	7.54	21.75	490-1530-2-ND	4,000	20.88/M	GRM188R71C563KA01D
			68000pF	±10%	0.8	490-1531-1-ND	1.20	7.09	20.44	490-1531-2-ND	4,000	19.62/M	GRM188R71C683KA01D
			.1µF	±10%	0.8	490-1532-1-ND	.90	5.33	15.38	490-1532-2-ND	4,000	14.76/M	GRM188R71C104KA01D
			.15µF	±10%	0.8	490-3292-1-ND **NEW!**	1.09	6.44	18.56	490-3292-2-ND **NEW!**	4,000	17.82/M	GRM188R71C154KA01D
			.22µF	±10%	0.8	490-3293-1-ND **NEW!**	1.35	8.00	23.06	490-3293-2-ND **NEW!**	4,000	22.14/M	GRM188R71C224KA01D
			.33µF	±10%	0.8	490-3294-1-ND **NEW!**	1.55	9.17	26.44	490-3294-2-ND **NEW!**	4,000	25.38/M	GRM188R71C334KA01D
			.47µF	±10%	0.8	490-3295-1-ND **NEW!**	1.56	9.23	26.63	490-3295-2-ND **NEW!**	4,000	25.56/M	GRM188R71C474KA88D
			.15µF	±10%	0.8	490-1533-1-ND	3.17	18.72	54.00	490-1533-2-ND	4,000	51.84/M	GRM188R71A154KA01D
		10	.15µF	±20%	0.8	490-1534-1-ND	1.24	7.35	21.19	490-1534-2-ND	4,000	20.34/M	GRM188R71A154MA01D
			.22µF	±10%	0.8	490-1535-1-ND	2.62	15.47	44.63	490-1535-2-ND	4,000	42.84/M	GRM188R71A224KA01D
		16	1.0µF	±10%	0.8	490-1536-1-ND	1.53	9.04	26.06	490-1536-2-ND	4,000	25.02/M	GRM188R61C105KA93D
			.33µF	±10%	0.8	490-1538-1-ND	1.69	10.01	28.88	490-1538-2-ND	4,000	27.72/M	GRM188R61A334KA61D
			.47µF	±10%	0.8	490-1539-1-ND	1.89	11.18	32.25	490-1539-2-ND	4,000	30.96/M	GRM188R61A474KA61D
			.47µF	±20%	0.8	490-1540-1-ND	1.47	8.71	25.13	490-1540-2-ND	4,000	24.12/M	GRM188R61A474MA61D
			.68µF	±10%	0.8	490-1541-1-ND	1.98	11.70	33.75	490-1541-2-ND	4,000	32.40/M	GRM188R61A684KA61D
		10	.68µF	±20%	0.8	490-1542-1-ND	1.97	11.64	33.56	490-1542-2-ND	4,000	32.22/M	GRM188R61A684MA61D
			1.0µF	±10%	0.8	490-1543-1-ND	1.80	10.66	30.75	490-1543-2-ND	4,000	29.52/M	GRM188R61A105KA61D
			1.0µF	±20%	0.8	490-1544-1-ND	1.31	7.74	22.31	490-1544-2-ND	4,000	21.42/M	GRM188R61A105MA61D
	X5R		2.2µF	±10%	0.8	490-1545-1-ND	3.36	19.83	57.19	490-1545-2-ND	4,000	54.90/M	GRM188R61A225KE34D
			2.2µF	±20%	0.8	490-1546-1-ND	2.81	16.58	47.81	490-1546-2-ND	4,000	45.90/M	GRM188R61A225ME34D
			.33µF	±10%	0.8	490-1547-1-ND	1.88	11.12	32.06	490-1547-2-ND	4,000	30.78/M	GRM188R60J334KA01D
			.47µF	±10%	0.8	490-1548-1-ND	1.47	8.71	25.13	490-1548-2-ND	4,000	24.12/M	GRM188R60J474KA01D
			1.0µF	±10%	0.8	490-1550-1-ND	1.31	7.74	22.31	490-1550-2-ND	4,000	21.42/M	GRM188R60J105KA01D
		6.3	1.0µF	±20%	0.8	490-1549-1-ND	1.31	7.74	22.31	490-1549-2-ND	4,000	21.42/M	GRM188R60J105MA01D
			2.2µF	±10%	0.5	490-3267-1-ND **NEW!**	3.04	17.94	51.75	490-3267-2-ND **NEW!**	4,000	49.68/M	GRM185R60J225KE26D
			2.2µF	±10%	0.8	490-1552-1-ND	4.08	24.12	69.56	490-1552-2-ND	4,000	66.78/M	GRM188R60J225KE01D
			2.2µF	±20%	0.8	490-1551-1-ND	4.08	24.12	69.56	490-1551-2-ND	4,000	66.78/M	GRM188R60J225ME01D
			4.7µF	±10%	0.8	490-3297-1-ND **NEW!**	6.16	36.40	105.00	490-3297-2-ND **NEW!**	4,000	100.80/M	GRM188R60J475KE19D
		100	2200pF	+80, -20%	0.8	490-1553-1-ND	1.42	8.39	24.19	490-1553-2-ND	4,000	23.22/M	GRM188F52A222ZD01D
			3300pF	+80, -20%	0.8	490-1554-1-ND	1.42	8.39	24.19	490-1554-2-ND	4,000	23.22/M	GRM188F52A332ZD01D
			1000pF	+80, -20%	0.8	490-1556-1-ND	.57	3.38	9.75	490-1556-2-ND	4,000	9.36/M	GRM188F51H102ZA01D
			1500pF	+80, -20%	0.8	490-1557-1-ND	.63	3.71	10.69	490-1557-2-ND	4,000	10.26/M	GRM188F51H152ZA01D
			2200pF	+80, -20%	0.8	490-1558-1-ND	.57	3.38	9.75	490-1558-2-ND	4,000	9.36/M	GRM188F51H222ZA01D
			3300pF	+80, -20%	0.8	490-1559-1-ND	.63	3.71	10.69	490-1559-2-ND	4,000	10.26/M	GRM188F51H332ZA01D
			6800pF	+80, -20%	0.8	490-1562-1-ND	.73	4.29	12.38	490-1562-2-ND	4,000	11.88/M	GRM188F51H682ZA01D
			4700pF	+80, -20%	0.8	490-1561-1-ND	.57	3.38	9.75	490-1561-2-ND	4,000	9.36/M	GRM188F51H472ZA01D
		50	10000pF	+80, -20%	0.8	490-1563-1-ND	.57	3.38	9.75	490-1563-2-ND	4,000	9.36/M	GRM188F51H103ZA01D
			15000pF	+80, -20%	0.8	490-1564-1-ND	.67	3.97	11.44	490-1564-2-ND	4,000	10.98/M	GRM188F51H153ZA01D
			22000pF	+80, -20%	0.8	490-1565-1-ND	.47	2.80	8.06	490-1565-2-ND	4,000	7.74/M	GRM188F51H223ZA01D
			33000pF	+80, -20%	0.8	490-1566-1-ND	.69	4.10	11.81	490-1566-2-ND	4,000	11.34/M	GRM188F51H333ZA01D
			47000pF	+80, -20%	0.8	490-1567-1-ND	.72	4.23	12.19	490-1567-2-ND	4,000	11.70/M	GRM188F51H473ZA01D
			.1µF	+80, -20%	0.8	490-1568-1-ND	.48	2.86	8.25	490-1568-2-ND	4,000	7.92/M	GRM188F51H104ZA01D
			.22µF	+80, -20%	0.8	490-1569-1-ND	.92	5.46	15.75	490-1569-2-ND	4,000	15.12/M	GRM188F51H224ZA01D
			1000pF	+80, -20%	0.8	490-1570-1-ND	.57	3.38	9.75	490-1570-2-ND	4,000	9.36/M	GRM188F51E102ZA01D
			4700pF	+80, -20%	0.8	490-1571-1-ND	.57	3.38	9.75	490-1571-2-ND	4,000	9.36/M	GRM188F51E472ZA01D
			10000pF	+80, -20%	0.8	490-1572-1-ND	.57	3.38	9.75	490-1572-2-ND	4,000	9.36/M	GRM188F51E103ZA01D
	Y5V		33000pF	+80, -20%	0.8	490-1573-1-ND	.57	3.38	9.75	490-1573-2-ND	4,000	9.36/M	GRM188F51E333ZA01D
		25	47000pF	+80, -20%	0.8	490-1574-1-ND	.53	3.12	9.00	490-1574-2-ND	4,000	8.64/M	GRM188F51E473ZA01D
			.1µF	+80, -20%	0.8	490-1575-1-ND	.54	3.19	9.19	490-1575-2-ND	4,000	8.82/M	GRM188F51E104ZA01D
			.22µF	+80, -20%	0.8	490-3299-1-ND **NEW!**	.83	4.88	14.06	490-3299-2-ND **NEW!**	4,000	13.50/M	GRM188F51E224ZA01D
			.47µF	+80, -20%	0.8	490-3300-1-ND **NEW!**	.83	4.88	14.06	490-3300-2-ND **NEW!**	4,000	13.50/M	GRM188F51E474ZA01D
			47000pF	+80, -20%	0.8	490-1576-1-ND	.53	3.12	9.00	490-1576-2-ND	4,000	8.64/M	GRM188F51C473ZA01D
			.1µF	+80, -20%	0.8	490-1577-1-ND	.54	3.19	9.19	490-1577-2-ND	4,000	8.82/M	GRM188F51C104ZA01D
			.15µF	+80, -20%	0.8	490-1578-1-ND	1.08	6.37	18.38	490-1578-2-ND	4,000	17.64/M	GRM188F51C154ZA01D
		16	.22µF	+80, -20%	0.8	490-3301-1-ND **NEW!**	.78	4.62	13.31	490-3301-2-ND **NEW!**	4,000	12.78/M	GRM188F51C224ZA01D
			.33µF	+80, -20%	0.8	490-1579-1-ND	1.71	10.08	29.06	490-1579-2-ND	4,000	27.90/M	GRM188F51C334ZA01D
			.47µF	+80, -20%	0.8	490-1580-1-ND	.89	5.27	15.19	490-1580-2-ND	4,000	14.58/M	GRM188F51C474ZA01D
			.68µF	+80, -20%	0.8	490-1581-1-ND	.97	5.72	16.50	490-1581-2-ND	4,000	15.84/M	GRM188F51C684ZA01D
			1.0µF	+80, -20%	0.8	490-1582-1-ND	.75	4.42	12.75	490-1582-2-ND	4,000	12.24/M	GRM188F51C105ZA01D
			.47µF	+80, -20%	0.8	490-1583-1-ND	.97	5.72	16.50	490-1583-2-ND	4,000	15.84/M	GRM188F51A474ZA01D
			.68µF	+80, -20%	0.8	490-1584-1-ND	2.18	12.87	37.13	490-1584-2-ND	4,000	35.64/M	GRM188F51A684ZA01D
		10	1.0µF	+80, -20%	0.8	490-1585-1-ND	.75	4.42	12.75	490-1585-2-ND	4,000	12.24/M	GRM188F51A105ZA01D
			2.2µF	+80, -20%	0.8	490-1586-1-ND	1.68	9.95	28.69	490-1586-2-ND	4,000	27.54/M	GRM188F51A225ZE01D
			4.7µF	+80, -20%	0.8	490-3302-1-ND **NEW!**	1.85	10.92	31.50	490-3302-2-ND **NEW!**	4,000	30.24/M	GRM188F51A475ZE20D
		6.3	2.2µF	+80, -20%	0.8	490-1587-1-ND	1.68	9.95	28.69	490-1587-2-ND	4,000	27.54/M	GRM188F50J225ZE01D
			4.7µF	+80, -20%	0.8	490-3303-1-ND **NEW!**	1.85	10.92	31.50	490-3303-2-ND **NEW!**	4,000	30.24/M	GRM188F50J475ZE20D
	Z5U	50	10000pF	±20%	0.8	490-1588-1-ND	.65	3.84	11.06	490-1588-2-ND	4,000	10.62/M	GRM188E41H103MA01D
			10pF	±5%	0.85	490-1590-1-ND	1.83	10.79	31.13	490-1590-2-ND	4,000	29.88/M	GRM2195C2A100JZ01D
			22pF	±5%	0.85	490-1591-1-ND	1.84	10.86	31.31	490-1591-2-ND	4,000	30.06/M	GRM2195C2A220JZ01D
			33pF	±5%	0.85	490-1592-1-ND	1.95	11.51	33.19	490-1592-2-ND	4,000	31.86/M	GRM2195C2A330JZ01D
			47pF	±5%	0.85	490-1593-1-ND	1.84	10.86	31.31	490-1593-2-ND	4,000	30.06/M	GRM2195C2A470JZ01D
			56pF	±5%	0.85	490-1594-1-ND	1.84	10.86	31.31	490-1594-2-ND	4,000	30.06/M	GRM2195C2A560JZ01D
			68pF	±5%	0.85	490-1595-1-ND	1.82	10.73	30.94	490-1595-2-ND	4,000	29.70/M	GRM2195C2A680JZ01D
			75pF	±5%	0.85	490-1596-1-ND	1.74	10.27	29.63	490-1596-2-ND	4,000	28.44/M	GRM2195C2A750JZ01D
			82pF	±5%	0.85	490-1597-1-ND	1.82	10.73	30.94	490-1597-2-ND	4,000	29.70/M	GRM2195C2A820JZ01D
			91pF	±5%	0.85	490-1598-1-ND	1.82	10.73	30.94	490-1598-2-ND	4,000	29.70/M	GRM2195C2A910JZ01D
			100pF	±5%	0.6	490-1599-1-ND	.99	5.85	16.88	490-1599-2-ND	4,000	16.20/M	GRM2165C2A101JA01D
			110pF	±5%	0.6	490-1600-1-ND	1.10	6.50	18.75	490-1600-2-ND	4,000	18.00/M	GRM2165C2A111JA01D
			120pF	±5%	0.6	490-1601-1-ND	1.07	6.31	18.19	490-1601-2-ND	4,000	17.46/M	GRM2165C2A121JA01D
	C0G NP0	100	130pF	±5%	0.6	490-1602-1-ND	1.10	6.50	18.75	490-1602-2-ND	4,000	18.00/M	GRM2165C2A131JA01D
			150pF	±5%	0.6	490-1603-1-ND	1.07	6.31	18.19	490-1603-2-ND	4,000	17.46/M	GRM2165C2A151JA01D
			160pF	±5%	0.6	490-1604-1-ND	1.10	6.50	18.75	490-1604-2-ND	4,000	18.00/M	GRM2165C2A161JA01D
			180pF	±5%	0.6	490-1605-1-ND	1.06	6.24	18.00	490-1605-2-ND	4,000	17.28/M	GRM2165C2A181JA01D
			200pF	±5%	0.6	490-1606-1-ND	1.10	6.50	18.75	490-1606-2-ND	4,000	18.00/M	GRM2165C2A201JA01D
			220pF	±5%	0.6	490-1607-1-ND	1.18	6.96	20.06	490-1607-2-ND	4,000	19.26/M	GRM2165C2A221JA01D
			240pF	±5%	0.6	490-1608-1-ND	1.31	7.74	22.31	490-1608-2-ND	4,000	21.42/M	GRM2165C2A241JA01D
			270pF	±5%	0.6	490-1609-1-ND	1.24	7.35	21.19	490-1609-2-ND	4,000	20.34/M	GRM2165C2A271JA01D
			330pF	±5%	0.6	490-1610-1-ND	1.42	8.39	24.19	490-1610-2-ND	4,000	23.22/M	GRM2165C2A331JA01D
			390pF	±5%	0.6	490-3306-1-ND **NEW!**	1.43	8.45	24.38	490-3306-2-ND **NEW!**	4,000	23.40/M	GRM2165C2A391JA01D
			470pF	±5%	0.6	490-1611-1-ND	1.53	9.04	26.06	490-1611-2-ND	4,000	25.02/M	GRM2165C2A471JA01D
			560pF	±5%	0.6	490-1612-1-ND	1.60	9.43	27.19	490-1612-2-ND	4,000	26.10/M	GRM2165C2A561JA01D
			680pF	±5%	0.85	490-1613-1-ND	1.68	9.95	28.69	490-1613-2-ND	4,000	27.54/M	GRM2195C2A681JA01D

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Multilayer Ceramic Chip Capacitors (Cont.)

Size Code	Type	WV DC	Capacitance	Tolerance	Dimension T (mm)	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Digi-Key Part No.	Tape & Reel Size	Pricing	Murata Part No.
		100	820pF	±5%	0.85	490-3311-1-ND **NEW!**	1.68	9.95	28.69	490-3311-2-ND **NEW!**	4,000	27.54/M	GRM2195C2A821JA(
			1000pF	±5%	0.85	490-1614-1-ND	1.46	8.65	24.94	490-1614-2-ND	4,000	23.94/M	GRM2195C2A102JA(
			1200pF	±5%	0.85	490-3313-1-ND **NEW!**	1.36	8.06	23.25	490-3313-2-ND **NEW!**	4,000	22.32/M	GRM2195C2A122JA(
			1500pF	±5%	0.85	490-3314-1-ND **NEW!**	1.36	8.06	23.25	490-3314-2-ND **NEW!**	4,000	22.32/M	GRM2195C2A152JA(
		50	100pF	±5%	0.6	490-1615-1-ND	.74	4.36	12.56	490-1615-2-ND	4,000	12.06/M	GRM2165C1H101JA(
			150pF	±5%	0.6	490-3315-1-ND **NEW!**	.92	5.46	15.75	490-3315-2-ND **NEW!**	4,000	15.12/M	GRM2165C1H151JA(
			220pF	±5%	0.6	490-1616-1-ND	1.12	6.63	19.13	490-1616-2-ND	4,000	18.36/M	GRM2165C1H221JA(
			330pF	±5%	0.6	490-3316-1-ND **NEW!**	1.27	7.48	21.56	490-3316-2-ND **NEW!**	4,000	20.70/M	GRM2165C1H331JA(
			470pF	±5%	0.6	490-1617-1-ND	1.60	9.43	27.19	490-1617-2-ND	4,000	26.10/M	GRM2165C1H471JA(
			620pF	±5%	0.6	490-1618-1-ND	1.73	10.21	29.44	490-1618-2-ND	4,000	28.26/M	GRM2165C1H621JA(
			680pF	±5%	0.6	490-1619-1-ND	1.74	10.27	29.63	490-1619-2-ND	4,000	28.44/M	GRM2165C1H681JA(
			750pF	±5%	0.6	490-1620-1-ND	1.77	10.47	30.19	490-1620-2-ND	4,000	28.98/M	GRM2165C1H751JA(
			910pF	±5%	0.6	490-1621-1-ND	1.74	10.27	29.63	490-1621-2-ND	4,000	28.44/M	GRM2165C1H911JA(
			1000pF	±5%	0.6	490-1622-1-ND	1.33	7.87	22.69	490-1622-2-ND	4,000	21.78/M	GRM2165C1H102JA(
			1100pF	±5%	0.6	490-1623-1-ND	1.45	8.58	24.75	490-1623-2-ND	4,000	23.76/M	GRM2165C1H112JA(
			1300pF	±5%	0.6	490-1624-1-ND	1.53	9.04	26.06	490-1624-2-ND	4,000	25.02/M	GRM2165C1H132JA(
			1600pF	±5%	0.6	490-1625-1-ND	1.49	8.78	25.31	490-1625-2-ND	4,000	24.30/M	GRM2165C1H162JA(
			1800pF	±5%	0.6	490-1626-1-ND	1.46	8.65	24.94	490-1626-2-ND	4,000	23.94/M	GRM2165C1H182JA(
	C0G (NP0)		2000pF	±5%	0.6	490-1627-1-ND	1.74	10.27	29.63	490-1627-2-ND	4,000	28.44/M	GRM2165C1H202JA(
		50	2200pF	±5%	0.6	490-1628-1-ND	1.62	9.56	27.56	490-1628-2-ND	4,000	26.46/M	GRM2165C1H222JA(
			2400pF	±5%	0.6	490-1629-1-ND	1.91	11.31	32.63	490-1629-2-ND	4,000	31.32/M	GRM2165C1H242JA(
			2700pF	±5%	0.6	490-1630-1-ND	1.85	10.92	31.50	490-1630-2-ND	4,000	30.24/M	GRM2165C1H272JA(
			3000pF	±5%	0.6	490-1631-1-ND	2.11	12.48	36.00	490-1631-2-ND	4,000	34.56/M	GRM2165C1H302JA(
			3300pF	±5%	0.6	490-1632-1-ND	2.05	12.09	34.88	490-1632-2-ND	4,000	33.48/M	GRM2165C1H332JA(
			3900pF	±5%	0.6	490-3045-1-ND	2.27	13.39	38.63	490-3045-2-ND	4,000	37.08/M	GRM2165C1H392JA(
			4700pF	±5%	0.6	490-3044-1-ND	2.40	14.17	40.88	490-3044-2-ND	4,000	35.46/M	GRM2165C1H472JA(
			5100pF	±5%	0.85	490-1635-1-ND	2.70	15.93	45.94	490-1635-2-ND	4,000	44.10/M	GRM2195C1H512JA(
			5600pF	±5%	0.85	490-1636-1-ND	2.67	15.80	45.56	490-1636-2-ND	4,000	43.74/M	GRM2195C1H562JA(
			6200pF	±5%	0.85	490-1637-1-ND	3.30	19.50	56.25	490-1637-2-ND	4,000	54.00/M	GRM2195C1H622JA(
			6800pF	±5%	0.85	490-1638-1-ND	3.23	19.11	55.13	490-1638-2-ND	4,000	52.92/M	GRM2195C1H682JA(
			7500pF	±5%	0.85	490-1639-1-ND	3.50	20.67	59.63	490-1639-2-ND	4,000	57.24/M	GRM2195C1H752JA(
			8200pF	±5%	0.85	490-1640-1-ND	3.44	20.35	58.69	490-1640-2-ND	4,000	56.34/M	GRM2195C1H822JA(
			9100pF	±5%	0.85	490-1641-1-ND	3.63	21.45	61.88	490-1641-2-ND	4,000	59.40/M	GRM2195C1H912JA(
			10000pF	±5%	0.85	490-1642-1-ND	4.85	28.67	82.69	490-1642-2-ND	4,000	79.38/M	GRM2195C1H103JA(
			12000pF	±5%	0.85	490-3320-1-ND **NEW!**	5.04	29.77	85.88	490-3320-2-ND **NEW!**	4,000	82.44/M	GRM2195C1H123JA(
			15000pF	±5%	0.85	490-1643-1-ND	5.27	31.14	89.81	490-1643-2-ND	4,000	86.22/M	GRM2195C1H153JA(
			18000pF	±5%	1.25	490-3321-1-ND **NEW!**	5.24	30.94	89.25	490-3321-2-ND **NEW!**	3,000	85.68/M	GRM21B5C1H183JA(
			22000pF	±5%	1.25	490-1644-1-ND	4.57	26.98	77.81	490-1644-2-ND	3,000	74.70/M	GRM21B5C1H223JA(
			3900pF	±10%	0.85	490-1645-1-ND	1.36	8.06	23.25	490-1645-2-ND	4,000	22.32/M	GRM219R72A392KA(
			4700pF	±10%	0.85	490-1646-1-ND	1.07	6.31	18.19	490-1646-2-ND	4,000	17.46/M	GRM219R72A472KA(
			4700pF	±20%	0.85	490-1647-1-ND	1.01	5.98	17.25	490-1647-2-ND	4,000	16.56/M	GRM219R72A472M(
			5600pF	±10%	0.85	490-1648-1-ND	1.39	8.19	23.63	490-1648-2-ND	4,000	22.68/M	GRM219R72A562KA(
			6800pF	±10%	0.85	490-1649-1-ND	1.13	6.70	19.31	490-1649-2-ND	4,000	18.54/M	GRM219R72A682KA(
			6800pF	±20%	0.85	490-1650-1-ND	1.08	6.37	18.38	490-1650-2-ND	4,000	17.64/M	GRM219R72A682M(
			8200pF	±10%	1.25	490-1651-1-ND	1.38	8.13	23.44	490-1651-2-ND	3,000	22.50/M	GRM21BR72A822K(
			10000pF	±10%	1.25	490-1652-1-ND	1.17	6.89	19.88	490-1652-2-ND	3,000	19.08/M	GRM21BR72A103K(
			10000pF	±20%	1.25	490-1653-1-ND	1.17	6.89	19.88	490-1653-2-ND	3,000	19.08/M	GRM21BR72A103M(
		100	12000pF	±10%	1.25	490-1654-1-ND	1.52	8.97	25.88	490-1654-2-ND	3,000	24.84/M	GRM21BR72A123K(
			15000pF	±10%	1.25	490-1655-1-ND	1.22	7.22	20.81	490-1655-2-ND	3,000	19.98/M	GRM21BR72A153K(
			15000pF	±20%	1.25	490-1656-1-ND	1.22	7.22	20.81	490-1656-2-ND	3,000	19.98/M	GRM21BR72A153M(
0805			18000pF	±10%	1.25	490-1657-1-ND	1.52	8.97	25.88	490-1657-2-ND	3,000	24.84/M	GRM21BR72A183K(
			22000pF	±10%	1.25	490-1658-1-ND	1.49	8.78	25.31	490-1658-2-ND	3,000	24.30/M	GRM21BR72A223K(
			22000pF	±20%	1.25	490-1659-1-ND	1.49	8.78	25.31	490-1659-2-ND	3,000	24.30/M	GRM21BR72A223M(
			33000pF	±10%	1.25	490-3323-1-ND **NEW!**	1.93	11.38	32.81	490-3323-2-ND **NEW!**	3,000	31.50/M	GRM21BR72A333K(
			47000pF	±10%	1.25	490-3325-1-ND **NEW!**	1.79	10.60	30.56	490-3325-2-ND **NEW!**	3,000	29.34/M	GRM21BR72A473K(
			.47µF	±10%	1.25	490-3326-1-ND **NEW!**	7.05	41.67	120.19	490-3326-2-ND **NEW!**	3,000	115.38/M	GRM21BR72A474K(
			10000pF	±10%	0.6	490-1664-1-ND	.55	3.25	9.38	490-1664-2-ND	4,000	9.00/M	GRM216R71H103K(
			22000pF	±10%	0.6	490-1665-1-ND	.81	4.81	13.88	490-1665-2-ND	4,000	13.32/M	GRM216R71H223K(
			33000pF	±10%	0.85	490-1660-1-ND	1.07	6.31	18.19	490-1660-2-ND	4,000	17.46/M	GRM219R71H333K(
			47000pF	±10%	1.25	490-1661-1-ND	1.50	8.84	25.50	490-1661-2-ND	3,000	24.48/M	GRM21BR71H473K(
			56000pF	±10%	1.25	490-1662-1-ND	1.61	9.49	27.38	490-1662-2-ND	3,000	26.28/M	GRM21BR71H563K(
			68000pF	±10%	1.25	490-1663-1-ND	2.00	11.83	34.13	490-1663-2-ND	3,000	32.76/M	GRM21BR71H683K(
			.1µF	±10%	1.25	490-1666-1-ND	1.33	7.87	22.69	490-1666-2-ND	3,000	21.78/M	GRM21BR71H104K(
		50	.15µF	±10%	1.25	490-1667-1-ND	2.61	15.41	44.44	490-1667-2-ND	3,000	42.66/M	GRM21BR71H154K(
			.15µF	±20%	1.25	490-1668-1-ND	2.61	15.41	44.44	490-1668-2-ND	3,000	42.66/M	GRM21BR71H154M(
			.18µF	±10%	1.25	490-1669-1-ND	3.37	19.89	57.38	490-1669-2-ND	3,000	55.08/M	GRM21BR71H184K(
			.22µF	±10%	1.25	490-1670-1-ND	2.67	15.80	45.56	490-1670-2-ND	3,000	43.74/M	GRM21BR71H224K(
			.22µF	±20%	1.25	490-1671-1-ND	2.64	15.60	45.00	490-1671-2-ND	3,000	43.20/M	GRM21BR71H224M(
			.33µF	±10%	0.85	490-3327-1-ND **NEW!**	3.09	18.27	52.69	490-3327-2-ND **NEW!**	4,000	50.58/M	GRM219R71H334K(
			.47µF	±10%	1.25	490-3328-1-ND **NEW!**	3.33	19.70	56.81	490-3328-2-ND **NEW!**	3,000	54.54/M	GRM21BR71H474K(
	X7R		68000pF	±10%	0.85	490-1672-1-ND	1.43	8.45	24.38	—	—	—	GRM219R71E683K(
			68000pF	±10%	0.85	490-3046-1-ND	1.39	8.19	23.63	490-3046-2-ND	4,000	22.68/M	GRM219R71E683K(
			.1µF	±10%	1.25	490-1673-1-ND	1.32	7.80	22.50	490-1673-2-ND	3,000	21.60/M	GRM21BR71E104K(
			.15µF	±10%	1.25	490-1674-1-ND	2.10	12.42	35.81	490-1674-2-ND	3,000	34.38/M	GRM21BR71E154K(
			.22µF	±10%	0.85	490-1675-1-ND	1.89	11.18	32.25	490-1675-2-ND	4,000	30.96/M	GRM219R71E224K(
		25	.27µF	±10%	0.85	490-1676-1-ND	3.87	22.88	66.00	490-1676-2-ND	4,000	63.36/M	GRM219R71E274K(
			.33µF	±10%	1.25	490-1677-1-ND	3.45	20.41	58.88	490-1677-2-ND	3,000	56.52/M	GRM21BR71E334K(
			.39µF	±10%	1.25	490-1679-1-ND	4.93	29.12	84.00	490-1679-2-ND	3,000	80.64/M	GRM21BR71E394K(
			.47µF	±10%	1.25	490-1680-1-ND	3.67	21.71	62.63	490-1680-2-ND	3,000	60.12/M	GRM21BR71E474K(
			.47µF	±20%	1.25	490-1681-1-ND	3.84	22.69	65.44	490-1681-2-ND	3,000	62.82/M	GRM21BR71E474M(
			2.2µF	±10%	1.25	490-3331-1-ND **NEW!**	3.99	23.60	68.06	490-3331-2-ND **NEW!**	3,000	65.34/M	GRM21BR71E225K(
			68000pF	±10%	0.85	490-1682-1-ND	1.39	8.19	23.63	490-1682-2-ND	4,000	22.68/M	GRM219R71C683K(
			.1µF	±10%	0.85	490-1683-1-ND	.85	5.01	14.44	490-1683-2-ND	4,000	13.86/M	GRM219R71C104K(
			.22µF	±10%	0.85	490-1684-1-ND	1.88	11.12	32.06	490-1684-2-ND	4,000	30.78/M	GRM219R71C224K(
			.47µF	±10%	0.85	490-1685-1-ND	3.32	19.63	56.63	490-1685-2-ND	4,000	54.36/M	GRM219R71C474K(
			.47µF	±20%	0.85	490-1686-1-ND	3.32	19.63	56.63	490-1686-2-ND	4,000	54.36/M	GRM219R71C474M(
		16	.47µF	±10%	1.25	490-3333-1-ND **NEW!**	3.62	21.39	61.69	490-3333-2-ND **NEW!**	3,000	59.22/M	GRM21BR71C474K(
			.56µF	±10%	0.85	490-1687-1-ND	4.83	28.54	82.31	490-1687-2-ND	4,000	79.02/M	GRM219R71C564K(
			.68µF	±10%	0.85	490-1688-1-ND	2.64	15.60	45.00	490-1688-2-ND	4,000	43.20/M	GRM219R71C684K(
			.68µF	±20%	0.85	490-1689-1-ND	2.41	14.24	41.06	490-1689-2-ND	4,000	39.42/M	GRM219R71C684M(
			.82µF	±10%	1.25	490-1690-1-ND	5.61	33.15	95.63	490-1690-2-ND	3,000	91.80/M	GRM21BR71C824K(
			1.0µF	±10%	1.25	490-1691-1-ND	2.52	14.89	42.94	490-1691-2-ND	3,000	41.22/M	GRM21BR71C105K(
			1.0µF	±20%	1.25	490-1692-1-ND	2.32	13.72	39.56	490-1692-2-ND	3,000	37.98/M	GRM21BR71C105M(
			.22µF	±10%	0.6	490-1693-1-ND	1.88	11.12	32.06	490-1693-2-ND	4,000	30.78/M	GRM216R71A224K(
			.33µF	±10%	0.6	490-1694-1-ND	2.28	13.46	38.81	490-1694-2-ND	4,000	37.26/M	GRM216R71A334K(
		10	1.0µF	±10%	1.25	490-1695-1-ND	2.52	14.89	42.94	490-1695-2-ND	3,000	41.22/M	GRM21BR71A105K(
			2.2µF	±10%	1.25	490-1696-1-ND	3.19	18.85	54.38	490-1696-2-ND	3,000	52.20/M	GRM21BR71A225K(
			2.2µF	±20%	1.25	490-1697-1-ND	3.19	18.85	54.38	490-1697-2-ND	3,000	52.20/M	GRM21BR71A225M(
		6.3	2.2µF	±10%	1.25	490-1698-1-ND	3.59	21.19	61.13	490-1698-2-ND	3,000	58.68/M	GRM21BR70J225K(
			2.2µF	±20%	1.25	490-1699-1-ND	3.19	18.85	54.38	490-1699-2-ND	3,000	52.20/M	GRM21BR70J225M(

† Newer ceramic formulation

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Size Code	Type	WV DC	Capacitance	Tolerance	Dimension T (mm)	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Digi-Key Part No.	Tape & Reel Size	Pricing	Murata Part No.
		25	1.0µF	±10%	0.6	490-1700-1-ND	3.26	19.24	55.50	490-1700-2-ND	4,000	53.28/M	GRM216R61E105KA12D
			2.2µF	±10%	0.85	490-1701-1-ND	4.99	29.51	85.13	490-1701-2-ND	4,000	81.72/M	GRM219R61E225KA12D
			2.2µF	±10%	1.25	490-3334-1-ND NEW!	3.64	21.52	62.06	490-3334-2-ND NEW!	3,000	59.58/M	GRM21BR61E225KA12L
			4.7µF	±10%	1.25	490-3335-1-ND NEW!	4.18	24.70	71.25	490-3335-2-ND NEW!	3,000	68.40/M	GRM21BR61E475KA12L
		16	2.2µF	±10%	1.25	490-3336-1-ND NEW!	3.05	18.01	51.94	490-3336-2-ND NEW!	3,000	49.86/M	GRM21BR61C225KA88L
			3.3µF	±10%	1.25	490-3337-1-ND NEW!	3.83	22.62	65.25	490-3337-2-ND NEW!	3,000	62.64/M	GRM21BR61C335KA88L
			4.7µF	±10%	1.25	490-3338-1-ND NEW!	4.21	24.90	71.81	490-3338-2-ND NEW!	3,000	68.94/M	GRM21BR61C475KA88L
		10	1.0µF	±10%	0.85	490-1702-1-ND	1.62	9.56	27.56	490-1702-2-ND	4,000	26.46/M	GRM219R61A105KC01D
			1.0µF	±20%	0.85	490-1703-1-ND	1.61	9.49	27.38	490-1703-2-ND	4,000	26.28/M	GRM219R61A105MA01D
			2.2µF	±10%	0.6	490-1704-1-ND	2.81	16.58	47.81	490-1704-2-ND	4,000	45.90/M	GRM216R61A225KE24D
			2.2µF	±20%	0.6	490-1705-1-ND	2.81	16.58	47.81	490-1705-2-ND	4,000	45.90/M	GRM216R61A225ME24D
			3.3µF	±10%	0.85	490-1706-1-ND	4.02	23.73	68.44	490-1706-2-ND	4,000	65.70/M	GRM219R61A335KE19D
	X5R		4.7µF	±10%	0.85	490-1707-1-ND	6.40	37.83	109.13	490-1707-2-ND	4,000	104.76/M	GRM219R61A475KE19D
			4.7µF	±20%	0.85	490-1708-1-ND	6.39	37.77	108.94	490-1708-2-ND	4,000	104.58/M	GRM219R61A475ME19D
			10µF	±10%	1.25	490-1709-1-ND	7.01	41.41	119.44	490-1709-2-ND	3,000	114.66/M	GRM21BR61A106KE19L
		6.3	1.5µF	±10%	0.85	490-1710-1-ND	3.74	22.10	63.75	490-1710-2-ND	4,000	61.20/M	GRM219R60J155KC01D
			1.5µF	±20%	0.85	490-1711-1-ND	3.72	21.97	63.38	490-1711-2-ND	4,000	60.84/M	GRM219R60J155MC01D
			2.2µF	±10%	1.25	490-1712-1-ND	3.72	21.97	63.38	490-1712-2-ND	3,000	60.84/M	GRM21BR60J225KA01L
			3.3µF	±10%	1.25	490-1713-1-ND	5.98	35.36	102.00	490-1713-2-ND	3,000	97.92/M	GRM21BR60J335KA11L
			3.3µF	±20%	1.25	490-1714-1-ND	5.18	30.62	88.31	490-1714-2-ND	3,000	84.78/M	GRM21BR60J335MA11L
			4.7µF	±10%	0.85	490-1715-1-ND	6.40	37.83	109.13	490-1715-2-ND	4,000	104.76/M	GRM219R60J475KE01D
			4.7µF	±20%	0.85	490-1716-1-ND	6.40	37.83	109.13	490-1716-2-ND	4,000	104.76/M	GRM219R60J475ME01D
			10µF	±10%	0.85	490-3340-1-ND NEW!	6.25	36.92	106.50	490-3340-2-ND NEW!	4,000	102.24/M	GRM219R60J106KE19D
			10µF	±10%	1.25	490-1717-1-ND	7.01	41.41	119.44	490-1717-2-ND	3,000	114.66/M	GRM21BR60J106KE19L
			10µF	±20%	1.25	490-1718-1-ND	5.28	31.20	90.00	490-1718-2-ND	3,000	86.40/M	GRM21BR60J106ME19L
			22µF	±20%	1.25	490-1719-1-ND	20.68	122.20	352.50	490-1719-2-ND	3,000	338.40/M	GRM21BR60J226ME39L
		100	10000pF	+80, -20%	1.25	490-3342-1-ND NEW!	2.06	12.16	35.06	490-3342-2-ND NEW!	3,000	33.66/M	GRM21BF52A103ZD01L
		50	10000pF	+80, -20%	0.6	490-1720-1-ND	.55	3.25	9.38	490-1720-2-ND	4,000	9.00/M	GRM216F51H103ZA01D
			33000pF	+80, -20%	0.6	490-1721-1-ND	.75	4.42	12.75	490-1721-2-ND	4,000	12.24/M	GRM216F51H333ZA01D
			68000pF	+80, -20%	0.6	490-1722-1-ND	.86	5.07	14.63	490-1722-2-ND	4,000	14.04/M	GRM216F51H683ZA01D
			.1µF	+80, -20%	0.85	490-1723-1-ND	.74	4.36	12.56	490-1723-2-ND	4,000	12.06/M	GRM219F51H104ZA01D
			.15µF	+80, -20%	0.85	490-1724-1-ND	1.60	9.43	27.19	490-1724-2-ND	4,000	26.10/M	GRM219F51H154ZA01D
305			.22µF	+80, -20%	0.6	490-3047-1-ND	1.60	9.43	27.19	490-3047-2-ND	4,000	26.10/M	GRM216F51H224ZA01D
		25	.1µF	+80, -20%	0.6	490-1726-1-ND	.57	3.38	9.75	490-1726-2-ND	4,000	9.36/M	GRM216F51E104ZA01D
			.15µF	+80, -20%	0.6	490-1727-1-ND	1.36	8.06	23.25	490-1727-2-ND	4,000	22.32/M	GRM216F51E154ZA01D
			.22µF	+80, -20%	0.85	490-1728-1-ND	1.44	8.52	24.56	490-1728-2-ND	4,000	23.58/M	GRM219F51E224ZA01D
			.33µF	+80, -20%	1.25	490-1729-1-ND	2.09	12.35	35.63	490-1729-2-ND	3,000	34.20/M	GRM21BF51E334ZA01L
			.47µF	+80, -20%	0.6	490-3346-1-ND NEW!	1.49	8.78	25.31	490-3346-2-ND NEW!	4,000	24.30/M	GRM216F51E474ZA01L
			.47µF	+80, -20%	1.25	490-1730-1-ND	1.89	11.18	32.25	490-1730-2-ND	3,000	30.96/M	GRM21BF51E474ZA01L
			1.0µF	+80, -20%	0.85	490-1731-1-ND	1.13	6.70	19.31	490-1731-2-ND	4,000	18.54/M	GRM219F51E105ZA01D
			1.5µF	+80, -20%	1.25	490-1732-1-ND	1.78	10.53	30.38	490-1732-2-ND	3,000	29.16/M	GRM21BF51E155ZA01L
	Y5V		2.2µF	+80, -20%	1.25	490-1733-1-ND	2.48	14.63	42.19	490-1733-2-ND	3,000	40.50/M	GRM21BF51E225ZA01L
			4.7µF	+80, -20%	1.25	490-3345-1-ND NEW!	3.09	18.27	52.69	490-3345-2-ND NEW!	3,000	50.58/M	GRM21BF51E475ZA01L
		16	.1µF	+80, -20%	0.6	490-1734-1-ND	.74	4.36	12.56	490-1734-2-ND	4,000	12.06/M	GRM216F51C104ZA01D
			.22µF	+80, -20%	0.85	490-1735-1-ND	1.47	8.71	25.13	490-1735-2-ND	4,000	24.12/M	GRM219F51C224ZA01D
			.33µF	+80, -20%	0.85	490-1736-1-ND	2.11	12.48	36.00	490-1736-2-ND	4,000	34.56/M	GRM219F51C334ZA01D
			.47µF	+80, -20%	1.25	490-1737-1-ND	2.10	12.42	35.81	490-1737-2-ND	3,000	34.38/M	GRM21BF51C474ZA01L
			.68µF	+80, -20%	1.25	490-1738-1-ND	3.08	18.20	52.50	490-1738-2-ND	3,000	50.40/M	GRM21BF51C684ZA01L
			1.0µF	+80, -20%	0.85	490-1739-1-ND	1.10	6.50	18.75	490-1739-2-ND	4,000	18.00/M	GRM219F51C105ZA01D
			1.5µF	+80, -20%	1.25	490-1740-1-ND	2.13	12.61	36.38	490-1740-2-ND	3,000	34.92/M	GRM21BF51C155ZA01L
			2.2µF	+80, -20%	1.25	490-1741-1-ND	2.39	14.11	40.69	490-1741-2-ND	3,000	39.06/M	GRM21BF51C225ZA01L
			10µF	+80, -20%	1.25	490-3347-1-ND	3.40	20.09	57.94	490-3347-2-ND	3,000	55.62/M	GRM21BF51C106ZE15L
		10	1.5µF	+80, -20%	1.25	490-1742-1-ND	1.78	10.53	30.38	490-1742-2-ND	3,000	29.16/M	GRM21BF51A155ZA01L
			2.2µF	+80, -20%	1.25	490-1743-1-ND	2.39	14.11	40.69	490-1743-2-ND	3,000	39.06/M	GRM21BF51A225ZA01L
			3.3µF	+80, -20%	0.85	490-1744-1-ND	3.45	20.41	58.88	490-1744-2-ND	4,000	56.52/M	GRM219F51A335ZA01D
			4.7µF	+80, -20%	1.25	490-1745-1-ND	2.95	17.42	50.25	490-1745-2-ND	3,000	48.24/M	GRM21BF51A475ZA01L
			10µF	+80, -20%	1.25	490-3332-1-ND NEW!	3.70	21.84	63.00	490-3332-2-ND NEW!	3,000	60.48/M	GRM21BF51A106ZE15L
		6.3	10µF	+80, -20%	1.25	490-1746-1-ND	3.70	21.84	63.00	490-1746-2-ND	3,000	60.48/M	GRM21BF50J106ZE01L
	Z5U	50	47000pF	±20%	0.6	490-1747-1-ND	.84	4.94	14.25	490-1747-2-ND	4,000	13.68/M	GRM216E41H473MA01D
			.1µF	±20%	0.85	490-1748-1-ND	.87	5.14	14.81	490-1748-2-ND	4,000	14.22/M	GRM219E41H104MA01D
		100	1000pF	±5%	0.85	490-3348-1-ND NEW!	3.06	18.07	52.13	490-3348-2-ND NEW!	4,000	50.04/M	GRM3195C2A102JA01D
			1500pF	±5%	0.85	490-3349-1-ND NEW!	4.10	24.25	69.94	490-3349-2-ND NEW!	4,000	67.14/M	GRM3195C2A152JA01D
			2200pF	±5%	0.85	490-3350-1-ND NEW!	4.92	29.06	83.81	490-3350-2-ND NEW!	4,000	80.46/M	GRM3195C2A222JA01D
			3300pF	±5%	0.85	490-3351-1-ND NEW!	4.65	27.50	79.31	490-3351-2-ND NEW!	4,000	76.14/M	GRM3195C2A332JA01D
			4700pF	±5%	0.85	490-3352-1-ND NEW!	6.62	39.13	112.88	490-3352-2-ND NEW!	4,000	108.36/M	GRM3195C2A472JA01D
			5600pF	±5%	0.85	490-3353-1-ND NEW!	7.08	41.86	120.75	490-3353-2-ND NEW!	4,000	115.92/M	GRM3195C2A562JA01D
		50	1000pF	±5%	0.85	490-1749-1-ND	7.06	41.73	120.38	490-1749-2-ND	4,000	115.56/M	GRM3195C1H102JA01D
			1500pF	±5%	0.85	490-3354-1-ND NEW!	8.80	52.00	150.00	490-3354-2-ND NEW!	4,000	144.00/M	GRM3195C1H152JA01D
			2200pF	±5%	0.85	490-3355-1-ND NEW!	7.65	45.18	130.31	490-3355-2-ND NEW!	4,000	125.10/M	GRM3195C1H222JA01D
			3300pF	±5%	0.85	490-3356-1-ND NEW!	8.61	50.90	146.81	490-3356-2-ND NEW!	4,000	140.94/M	GRM3195C1H332JA01D
			4700pF	±5%	0.85	490-3357-1-ND NEW!	4.58	27.04	78.00	490-3357-2-ND NEW!	4,000	74.88/M	GRM3195C1H472JA01D
			5600pF	±5%	0.85	490-1750-1-ND	4.93	29.12	84.00	490-1750-2-ND	4,000	80.64/M	GRM3195C1H562JA01D
			6200pF	±5%	0.85	490-1751-1-ND	5.18	30.62	88.31	490-1751-2-ND	4,000	84.78/M	GRM3195C1H622JA01D
			6800pF	±5%	0.85	490-1752-1-ND	5.25	31.01	89.44	490-1752-2-ND	4,000	85.86/M	GRM3195C1H682JA01D
			8200pF	±5%	0.85	490-1753-1-ND	5.60	33.09	95.44	490-1753-2-ND	4,000	91.62/M	GRM3195C1H822JA01D
	C0G (NP0)		10000pF	±5%	0.85	490-1754-1-ND	5.90	34.84	100.50	490-1754-2-ND	4,000	96.48/M	GRM3195C1H103JA01D
			11000pF	±5%	0.85	490-1755-1-ND	6.36	37.57	108.38	490-1755-2-ND	4,000	104.04/M	GRM3195C1H113JA01D
			12000pF	±5%	0.85	490-1756-1-ND	6.30	37.25	107.44	490-1756-2-ND	4,000	103.14/M	GRM3195C1H123JA01D
			13000pF	±5%	0.85	490-1757-1-ND	6.36	37.57	108.38	490-1757-2-ND	4,000	104.04/M	GRM3195C1H133JA01D
			15000pF	±5%	0.85	490-1758-1-ND	6.38	37.70	108.75	490-1758-2-ND	4,000	104.40/M	GRM3195C1H153JA01D
206			18000pF	±5%	0.85	490-1759-1-ND	6.45	38.09	109.88	490-1759-2-ND	4,000	105.48/M	GRM3195C1H183JA01D
			20000pF	±5%	0.85	490-1760-1-ND	6.49	38.35	110.63	490-1760-2-ND	4,000	106.20/M	GRM3195C1H203JA01D
			22000pF	±5%	0.85	490-1761-1-ND	6.53	38.61	111.38	490-1761-2-ND	4,000	106.92/M	GRM3195C1H223JA01D
			27000pF	±5%	0.85	490-1762-1-ND	6.62	39.13	112.88	490-1762-2-ND	4,000	108.36/M	GRM3195C1H273JA01D
			33000pF	±5%	0.85	490-1763-1-ND	6.74	39.85	114.94	490-1763-2-ND	4,000	110.34/M	GRM3195C1H333JA01D
			39000pF	±5%	1.15	490-3358-1-ND NEW!	7.17	42.38	122.25	490-3358-2-ND NEW!	3,000	117.36/M	GRM31M5C1H393JA01L
			47000pF	±5%	1.15	490-1764-1-ND	7.30	43.16	124.50	490-1764-2-ND	3,000	119.52/M	GRM31M5C1H473JA01L
			56000pF	±5%	1.6	490-3359-1-ND NEW!	7.90	46.67	134.63	490-3359-2-ND NEW!	2,000	129.24/M	GRM31C5C1H563JA01L
			68000pF	±5%	1.6	490-3360-1-ND NEW!	8.04	47.52	137.06	490-3360-2-ND NEW!	2,000	131.58/M	GRM31C5C1H683JA01L
			82000pF	±5%	1.6	490-1765-1-ND	8.42	49.73	143.44	490-1765-2-ND	2,000	137.70/M	GRM31C5C1H823JA01L
		25	39000pF	±5%	0.85	490-3361-1-ND NEW!	7.12	42.06	121.31	490-3361-2-ND NEW!	4,000	116.46/M	GRM3195C1E393JA01D
			68000pF	±5%	1.6	490-1766-1-ND	8.04	47.52	137.06	490-1766-2-ND	2,000	131.58/M	GRM31C5C1E683JA01L
			.1µF	±5%	1.6	490-1767-1-ND	8.78	51.87	149.63	490-1767-2-ND	2,000	143.64/M	GRM31C5C1E104JA01L
		100	27000pF	±10%	1.15	490-1768-1-ND	5.82	34.39	99.19	490-1768-2-ND	3,000	95.22/M	GRM31MR72A273KA01L
			33000pF	±10%	1.15	490-1770-1-ND	6.05	35.75	103.13	490-1770-2-ND	3,000	99.00/M	GRM31MR72A333KA01L
			33000pF	±20%	1.15	490-1769-1-ND	1.83	10.79	31.13	490-1769-2-ND	3,000	29.88/M	GRM31MR72A333MA01L
	X7R		39000pF	±10%	1.15	490-1771-1-ND	1.84	10.86	31.31	490-1771-2-ND	3,000	30.06/M	GRM31MR72A393KA01L
			47000pF	±10%	1.15	490-1773-1-ND	6.57	38.81	111.94	490-1773-2-ND	3,000	107.46/M	GRM31MR72A473KA01L
			47000pF	±20%	1.15	490-1772-1-ND	6.57	38.81	111.94	490-1772-2-ND	3,000	107.46/M	GRM31MR72A473MA01L
			68000pF	±10%	1.15	490-3363-1-ND NEW!	2.18	12.87	37.13	490-3363-2-ND NEW!	3,000	35.64/M	GRM31MR72A683KA01L

wer ceramic formulation

(Continued)

Multilayer Ceramic Chip Capacitors (Cont.)

Size Code	Type	WV DC	Capacitance	Tolerance	Dimension T (mm)	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Digi-Key Part No.	Tape & Reel Size	Pricing	Murata Part No.
			10000pF	±10%	0.85	490-1774-1-ND	1.46	8.65	24.94	490-1774-2-ND	4,000	23.94/M	GRM319R71H103KA0
			.1µF	±10%	0.85	490-1775-1-ND	1.74	10.27	29.63	490-1775-2-ND	4,000	28.44/M	GRM319R71H104KA0
			.22µF	±10%	0.85	490-1776-1-ND	3.14	18.53	53.44	490-1776-2-ND	4,000	51.30/M	GRM319R71H224KA0
			.27µF	±10%	0.85	490-1777-1-ND	4.26	25.16	72.56	490-1777-2-ND	4,000	69.66/M	GRM319R71H274KA0
		50	.33µF	±10%	0.85	490-1778-1-ND	4.31	25.48	73.50	490-1778-2-ND	4,000	70.56/M	GRM319R71H334KA0
			.33µF	±20%	0.85	490-1779-1-ND	4.25	25.09	72.38	490-1779-2-ND	4,000	69.48/M	GRM319R71H334MA0
			.39µF	±10%	1.15	490-1780-1-ND	6.20	36.66	105.75	490-1780-2-ND	3,000	101.52/M	GRM31MR71H394KA0
			.47µF	±10%	1.15	490-1781-1-ND	6.20	36.66	105.75	490-1781-2-ND	3,000	101.52/M	GRM31MR71H474KA0
			.47µF	±20%	1.15	490-1782-1-ND	6.20	36.66	105.75	490-1782-2-ND	3,000	101.52/M	GRM31MR71H474MA0
			2.2µF	±10%	1.6	490-3367-1-ND **NEW!**	6.24	36.86	106.31	490-3367-2-ND **NEW!**	2,000	102.06/M	GRM31CR71H225KA8
			.33µF	±10%	0.85	490-1783-1-ND	4.31	25.48	73.50	490-1783-2-ND	4,000	70.56/M	GRM319R71E334KA0
			.47µF	±10%	0.85	490-1784-1-ND	4.99	29.51	85.13	490-1784-2-ND	4,000	81.72/M	GRM319R71E474KA0
			.68µF	±10%	0.85	490-1787-1-ND	5.81	34.32	99.00	490-1787-2-ND	4,000	95.04/M	GRM319R71E684KA0
			.68µF	±20%	0.85	490-1786-1-ND	5.96	35.23	101.63	490-1786-2-ND	4,000	97.56/M	GRM319R71E684MA0
		25	.82µF	±10%	1.15	490-1788-1-ND	6.12	36.14	104.25	490-1788-2-ND	3,000	100.08/M	GRM31MR71E824KA0
			1.0µF	±10%	1.15	490-1789-1-ND	3.42	20.22	58.31	490-1789-2-ND	3,000	55.98/M	GRM31MR71E105KC0
			1.0µF	±20%	1.15	490-1790-1-ND	3.42	20.22	58.31	490-1790-2-ND	3,000	55.98/M	GRM31MR71E105MC0
			2.2µF	±10%	1.15	490-3368-1-ND **NEW!**	4.58	27.04	78.00	490-3368-2-ND **NEW!**	3,000	74.88/M	GRM31MR71E225KA9
	X7R		4.7µF	±10%	1.6	490-1809-1-ND	6.17	36.47	105.19	490-1809-2-ND	2,000	100.98/M	GRM31CR71E475KA8
			.47µF	±10%	0.85	490-1791-1-ND	4.52	26.72	77.06	490-1791-2-ND	3,000	73.98/M	GRM319R71C474KC0
			.56µF	±10%	0.85	490-1792-1-ND	5.31	31.40	90.56	490-1792-2-ND	4,000	86.94/M	GRM319R71C564KA0
			.68µF	±10%	1.15	490-1793-1-ND	5.63	33.28	96.00	490-1793-2-ND	3,000	92.16/M	GRM31MR71C684KA0
			1.0µF	±10%	0.85	490-1794-1-ND	2.63	15.54	44.81	490-1794-2-ND	4,000	43.02/M	GRM319R71C105KC1
		16	1.0µF	±20%	0.85	490-1795-1-ND	2.63	15.54	44.81	490-1795-2-ND	4,000	43.02/M	GRM319R71C105MC1
			1.5µF	±10%	1.15	490-1797-1-ND	3.49	20.61	59.44	490-1797-2-ND	3,000	57.06/M	GRM31MR71C155KA9
			1.5µF	±20%	1.15	490-1796-1-ND	3.49	20.61	59.44	490-1796-2-ND	3,000	57.06/M	GRM31MR71C155MA0
			2.2µF	±10%	1.15	490-1799-1-ND	4.29	25.35	73.13	490-1799-2-ND	3,000	70.20/M	GRM31MR71C225KA9
			2.2µF	±20%	1.15	490-1798-1-ND	3.53	20.87	60.19	490-1798-2-ND	3,000	57.78/M	GRM31MR71C225MA0
			1.0µF	±10%	0.85	490-1800-1-ND	2.64	15.60	45.00	490-1800-2-ND	4,000	43.20/M	GRM319R71A105KC0
			1.0µF	±20%	0.85	490-1801-1-ND	2.63	15.54	44.81	490-1801-2-ND	4,000	43.02/M	GRM319R71A105MC0
			2.2µF	±10%	1.15	490-1803-1-ND	4.11	24.31	70.13	490-1803-2-ND	3,000	67.32/M	GRM31MR71A225KA0
		10	2.2µF	±20%	1.15	490-1802-1-ND	4.11	24.31	70.13	490-1802-2-ND	3,000	67.32/M	GRM31MR71A225MA0
			4.7µF	±10%	1.6	490-1805-1-ND	6.40	37.83	109.13	490-1805-2-ND	2,000	104.76/M	GRM31CR71A475KA0
			4.7µF	±20%	1.6	490-1804-1-ND	6.40	37.83	109.13	490-1804-2-ND	2,000	104.76/M	GRM31CR71A475MA0
			10µF	±10%	1.6	490-3371-1-ND **NEW!**	6.23	36.79	106.13	490-3371-2-ND **NEW!**	2,000	101.88/M	GRM31CR71A106KA0
		6.3	10µF	±10%	1.6	490-1806-1-ND	8.38	49.53	142.88	490-1806-2-ND	2,000	137.16/M	GRM31CR70J106KA0
			1.0µF	±10%	0.85	490-1807-1-ND	2.92	17.23	49.69	490-1807-2-ND	4,000	47.70/M	GRM319R61E105KC3
		25	2.2µF	±10%	0.6	490-1808-1-ND	5.35	31.59	91.13	490-1808-2-ND	4,000	87.48/M	GRM316R61E225KA1
			4.7µF	±10%	0.85	490-3372-1-ND **NEW!**	8.06	47.65	137.44	490-3372-2-ND **NEW!**	4,000	131.94/M	GRM319R61E475KA1
			10µF	±10%	1.6	490-3373-1-ND **NEW!**	10.23	60.45	174.38	490-3373-2-ND **NEW!**	2,000	167.40/M	GRM31CR61E106KA1
			1.0µF	±10%	1.15	490-1810-1-ND	3.18	18.79	54.19	490-1810-2-ND	3,000	52.02/M	GRM31MR61C105KA0
			2.2µF	±10%	1.15	490-1811-1-ND	3.53	20.87	60.19	490-1811-2-ND	3,000	57.78/M	GRM31MR61C225KA9
		16	4.7µF	±10%	0.85	490-3374-1-ND **NEW!**	7.81	46.15	133.13	490-3374-2-ND **NEW!**	4,000	127.80/M	GRM319R61C475KA8
1206			4.7µF	±10%	1.6	490-1812-1-ND	8.60	50.83	146.63	490-1812-2-ND	2,000	140.76/M	GRM31CR61C475KA0
			4.7µF	±20%	1.6	490-1813-1-ND	5.81	34.32	99.00	490-1813-2-ND	2,000	95.04/M	GRM31CR61C475MA0
			10µF	±10%	1.6	490-1814-1-ND	7.92	46.80	135.00	490-1814-2-ND	2,000	129.60/M	GRM31CR61C106KC5
			2.2µF	±10%	0.85	490-1815-1-ND	3.34	19.76	57.00	490-1815-2-ND	4,000	54.72/M	GRM319R61A225KA0
			2.2µF	±20%	0.85	490-1816-1-ND	3.32	19.63	56.63	490-1816-2-ND	4,000	54.36/M	GRM319R61A225MA0
	X5R		3.3µF	±10%	0.85	490-1817-1-ND	7.11	41.99	121.13	490-1817-2-ND	4,000	116.28/M	GRM319R61A335KA0
		10	4.7µF	±10%	0.85	490-3377-1-ND **NEW!**	6.55	38.68	111.56	490-3377-2-ND **NEW!**	4,000	107.10/M	GRM319R61A475KA0
			4.7µF	±10%	0.6	490-1818-1-ND	4.66	27.56	79.50	490-1818-2-ND	4,000	76.32/M	GRM316R61A475KE1
			10µF	±10%	0.85	490-3378-1-ND **NEW!**	14.53	85.87	247.69	490-3378-2-ND **NEW!**	4,000	237.78/M	GRM319R61A106KE1
			10µF	±10%	1.6	490-1820-1-ND	8.38	49.53	142.88	490-1820-2-ND	2,000	137.16/M	GRM31CR61A106KA0
			10µF	±20%	1.15	490-1819-1-ND	6.80	40.17	115.88	490-1819-2-ND	3,000	111.24/M	GRM31MR61A106ME1
			4.7µF	±10%	1.15	490-1821-1-ND	5.13	30.29	87.38	—	—	—	GRM31MR60J475KA0
			4.7µF	±10%	1.15	490-3043-1-ND	5.13	30.29	87.38	490-3043-2-ND	3,000	83.88/M	GRM31MR60J475KC1
		6.3	10µF	±10%	0.85	490-1823-1-ND	15.40	91.00	262.50	490-1823-2-ND	4,000	252.00/M	GRM319R60J106KE0
			10µF	±20%	0.85	490-1822-1-ND	15.39	90.94	262.31	490-1822-2-ND	4,000	251.82/M	GRM319R60J106ME0
			10µF	±10%	1.15	490-3379-1-ND **NEW!**	6.24	36.86	106.31	490-3379-2-ND **NEW!**	3,000	102.06/M	GRM31MR60J106KE1
			22µF	±10%	1.6	490-1824-1-ND	16.56	97.83	282.19	490-1824-2-ND	2,000	270.90/M	GRM31CR60J226KE1
		100	47000pF	+80, -20%	1.15	490-3380-1-ND **NEW!**	7.05	41.67	120.19	490-3380-2-ND **NEW!**	3,000	115.38/M	GRM31MF52A473ZD0
			.1µF	+80, -20%	0.85	490-1825-1-ND	1.36	8.06	23.25	490-1825-2-ND	4,000	22.32/M	GRM319F51H104ZA0
			.33µF	+80, -20%	0.85	490-1826-1-ND	2.24	13.26	38.25	490-1826-2-ND	4,000	36.72/M	GRM319F51H334ZA0
		50	.47µF	+80, -20%	1.15	490-1827-1-ND	4.29	25.35	73.13	490-1827-2-ND	3,000	70.20/M	GRM31MF51H474ZA0
			2.2µF	+80, -20%	1.15	490-3381-1-ND **NEW!**	3.09	18.27	52.69	490-3381-2-ND **NEW!**	3,000	50.58/M	GRM31MF51H225ZA0
			4.7µF	+80, -20%	1.6	490-1828-1-ND	4.24	25.03	72.19	490-1828-2-ND	2,000	69.30/M	GRM31CF51H475ZA0
			.22µF	+80, -20%	0.85	490-1829-1-ND	2.10	12.42	35.81	490-1829-2-ND	4,000	34.38/M	GRM319F51E224ZA0
			.47µF	+80, -20%	0.85	490-1830-1-ND	2.74	16.19	46.69	490-1830-2-ND	4,000	44.82/M	GRM319F51E474ZA0
			.68µF	+80, -20%	1.15	490-1831-1-ND	3.75	22.17	63.94	490-1831-2-ND	3,000	61.38/M	GRM31MF51E684ZA0
		25	1.0µF	+80, -20%	1.15	490-1832-1-ND	1.79	10.60	30.56	490-1832-2-ND	3,000	29.34/M	GRM31MF51E105ZA0
			4.7µF	+80, -20%	1.15	490-1833-1-ND	3.75	22.17	63.94	490-1833-2-ND	3,000	61.38/M	GRM31MF51E475ZA0
			10µF	+80, -20%	1.6	490-3382-1-ND **NEW!**	5.83	34.45	99.38	490-3382-2-ND **NEW!**	2,000	95.40/M	GRM31CF51E106ZA0
	Y5V		.47µF	+80, -20%	0.85	490-1834-1-ND	2.73	16.12	46.50	490-1834-2-ND	3,000	44.64/M	GRM319F51C474ZA0
			1.0µF	+80, -20%	0.85	490-1835-1-ND	1.83	10.79	31.13	490-1835-2-ND	4,000	29.88/M	GRM319F51C105ZA0
			1.5µF	+80, -20%	1.15	490-1836-1-ND	3.30	19.50	56.25	490-1836-2-ND	3,000	54.00/M	GRM31MF51C155ZA0
		16	2.2µF	+80, -20%	1.15	490-1837-1-ND	3.38	19.96	57.56	490-1837-2-ND	3,000	55.26/M	GRM31MF51C225ZA0
			3.3µF	+80, -20%	1.15	490-1838-1-ND	3.88	22.95	66.19	490-1838-2-ND	3,000	63.54/M	GRM31MF51C335ZA0
			4.7µF	+80, -20%	1.15	490-1839-1-ND	3.42	20.22	58.31	490-1839-2-ND	3,000	55.98/M	GRM31MF51C475ZA0
			10µF	+80, -20%	1.15	490-3383-1-ND **NEW!**	4.93	29.12	84.00	490-3383-2-ND **NEW!**	3,000	80.64/M	GRM31MF51C106ZA0
			2.2µF	+80, -20%	0.85	490-1840-1-ND	2.89	17.10	49.31	490-1840-2-ND	4,000	47.34/M	GRM319F51A225ZA0
			3.3µF	+80, -20%	0.85	490-1841-1-ND	3.82	22.56	65.06	490-1841-2-ND	4,000	62.46/M	GRM319F51A335ZA0
		10	4.7µF	+80, -20%	1.15	490-1842-1-ND	3.42	20.22	58.31	490-1842-2-ND	3,000	55.98/M	GRM31MF51A475ZA0
			10µF	+80, -20%	1.15	490-1843-1-ND	5.43	32.11	92.63	490-1843-2-ND	3,000	88.92/M	GRM31MF51A106ZA0
			22µF	+80, -20%	1.6	490-1844-1-ND	9.49	56.10	161.81	490-1844-2-ND	2,000	155.34/M	GRM31CF51A226ZE0
		6.3	10µF	+80, -20%	1.15	490-1845-1-ND	4.37	25.81	74.44	490-1845-2-ND	3,000	71.46/M	GRM31MF50J106ZA0
			22µF	+80, -20%	1.6	490-1846-1-ND	9.49	56.10	161.81	490-1846-2-ND	2,000	155.34/M	GRM31CF50J226ZE0
	Z5U	50	.22µF	±20%	0.85	490-1847-1-ND	2.38	14.04	40.50	490-1847-2-ND	4,000	38.88/M	GRM319E41H224MA0
			56000pF	±10%	1.35	490-1848-1-ND	7.91	46.74	134.81	490-1848-2-ND	2,000	129.42/M	GRM32NR72A563KA0
			68000pF	±10%	1.35	490-1850-1-ND	8.28	48.95	141.19	490-1850-2-ND	2,000	135.54/M	GRM32NR72A683KA0
			68000pF	±20%	1.35	490-1849-1-ND	7.95	47.00	135.56	490-1849-2-ND	2,000	130.14/M	GRM32NR72A683MA0
			82000pF	±10%	1.35	490-1851-1-ND	8.17	48.30	139.31	490-1851-2-ND	2,000	133.74/M	GRM32NR72A823KA0
			.1µF	±10%	1.35	490-1853-1-ND	8.45	49.92	144.00	490-1853-2-ND	2,000	138.24/M	GRM32NR72A104KA0
1210	X7R	100	.1µF	±20%	1.35	490-1852-1-ND	8.45	49.92	144.00	490-1852-2-ND	2,000	138.24/M	GRM32NR72A104MA0
			.68µF	±10%	1.6	490-1854-1-ND	12.25	72.41	208.88	490-1854-2-ND	2,000	200.52/M	GRM32CR72A684KA0
			.68µF	±20%	1.6	490-1855-1-ND	12.25	72.41	208.88	490-1855-2-ND	2,000	200.52/M	GRM32CR72A684MA0
			1.0µF	±10%	2.5	490-1857-1-ND	13.11	77.48	223.50	490-1857-2-ND	1,000	214.56	GRM32ER72A105KA0
			1.0µF	±20%	2.5	490-1856-1-ND	13.11	77.48	223.50	490-1856-2-ND	1,000	214.56	GRM32ER72A105MA0
			2.2µF	±10%	2.5	490-3385-1-ND **NEW!**	29.27	172.97	498.94	490-3385-2-ND **NEW!**	1,000	478.98	GRM32ER72A225KA2

† Newer ceramic formulation

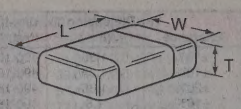
(Continued)

Type	WV DC	Capacitance	Tolerance	Dimension T (mm)	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Digi-Key Part No.	Tape & Reel Size	Pricing	Murata Part No.
		.56µF	±10%	1.35	490-1858-1-ND	7.92	46.80	135.00	490-1858-2-ND	2,000	129.60/M	GRM32NR71H564KA01L
		.68µF	±10%	1.35	490-1860-1-ND	8.33	49.21	141.94	490-1860-2-ND	2,000	136.26/M	GRM32NR71H684KA01L
		.68µF	±20%	1.35	490-1859-1-ND	8.33	49.21	141.94	490-1859-2-ND	2,000	136.26/M	GRM32NR71H684MA01L
	50	.82µF	±10%	1.8	490-1861-1-ND	9.00	53.17	153.38	490-1861-2-ND	1,000	147.24	GRM32RR71H824KA01L
		1.0µF	±10%	1.8	490-1863-1-ND	6.59	38.94	112.31	490-1863-2-ND	1,000	107.82	GRM32RR71H105KA01L
		1.0µF	±20%	1.8	490-1862-1-ND	6.59	38.94	112.31	490-1862-2-ND	1,000	107.82	GRM32RR71H105MA01L
		3.3µF	±10%	2.0	490-3386-1-ND **NEW!**	19.90	117.59	339.19	490-3386-2-ND **NEW!**	1,000	325.62	GRM32DR71H335KA88L
		4.7µF	±10%	2.5	490-1864-1-ND	21.98	129.87	374.63	490-1864-2-ND	1,000	359.64	GRM32ER71H475KA88L
		2.2µF	±10%	1.8	490-1865-1-ND	9.41	55.58	160.31	490-1865-2-ND	1,000	153.90	GRM32RR71E225KC01L
	25	2.2µF	±20%	1.8	490-1866-1-ND	8.36	49.40	142.50	490-1866-2-ND	1,000	136.80	GRM32RR71E225MC01L
X7R		10µF	±10%	2.0	490-1867-1-ND	17.72	104.72	302.06	490-1867-2-ND	1,000	289.98	GRM32DR71E106KA12L
		3.3µF	±10%	1.35	490-1871-1-ND	12.30	72.67	209.63	490-1871-2-ND	2,000	201.24/M	GRM32NR71C335KC01L
		3.3µF	±20%	1.35	490-1870-1-ND	12.30	72.67	209.63	490-1870-2-ND	2,000	201.24/M	GRM32NR71C335MC01L
		10µF	±10%	2.0	490-1875-1-ND	16.41	96.98	279.75	490-1875-2-ND	1,000	268.56	GRM32DR71C106KA01L
		10µF	±20%	2.0	490-1874-1-ND	16.41	96.98	279.75	490-1874-2-ND	1,000	268.56	GRM32DR71C106MA01L
	16	2.2µF	±10%	1.15	490-1869-1-ND	10.40	61.43	177.19	490-1869-2-ND	3,000	170.10/M	GRM32MR71C225KC01L
		2.2µF	±20%	1.15	490-1868-1-ND	9.25	54.67	157.69	490-1868-2-ND	3,000	151.38/M	GRM32MR71C225MC01L
		4.7µF	±10%	1.8	490-1872-1-ND	11.95	70.59	203.63	490-1872-2-ND	1,000	195.48	GRM32RR71C475KC01L
		4.7µF	±20%	1.8	490-1873-1-ND	11.95	70.59	203.63	490-1873-2-ND	1,000	195.48	GRM32RR71C475MC01L
	10	22µF	±10%	2.5	490-1876-1-ND	26.52	156.72	452.06	490-1876-2-ND	1,000	433.98	GRM32ER71A226KE20L
	25	4.7µF	±10%	1.8	490-1877-1-ND	12.61	74.49	214.88	490-1877-2-ND	1,000	206.28	GRM32RR61E475KC31L
		10µF	±10%	2.0	490-1878-1-ND	17.72	104.72	302.06	490-1878-2-ND	1,000	289.98	GRM32DR61E106KA12L
		4.7µF	±10%	1.8	490-1879-1-ND	11.47	67.80	195.56	490-1879-2-ND	1,000	187.74	GRM32RR61C475KC01L
	16	10µF	±10%	2.0	490-1880-1-ND	15.60	92.17	265.88	490-1880-2-ND	1,000	255.24	GRM32DR61C106KA01L
		22µF	±10%	2.5	490-1882-1-ND	28.08	165.95	478.69	490-1882-2-ND	1,000	459.54	GRM32ER61C226KE20L
		22µF	±20%	2.5	490-1881-1-ND	28.08	165.95	478.69	490-1881-2-ND	1,000	459.54	GRM32ER61C226ME20L
X5R		10µF	±10%	2.5	490-1883-1-ND	14.81	87.49	252.38	490-1883-2-ND	1,000	242.28	GRM32ER61A106KC01L
	10	10µF	±20%	2.5	490-1884-1-ND	14.81	87.49	252.38	490-1884-2-ND	1,000	242.28	GRM32ER61A106MC01L
		22µF	±10%	2.5	490-3388-1-ND **NEW!**	26.81	158.41	456.94	490-3388-2-ND **NEW!**	1,000	438.66	GRM32ER61A226KE20L
		22µF	±10%	2.0	490-1886-1-ND	27.96	165.23	476.63	490-1886-2-ND	1,000	457.56	GRM32DR60J226KA01L
		22µF	±20%	2.0	490-1885-1-ND	27.96	165.23	476.63	490-1885-2-ND	1,000	457.56	GRM32DR60J226MA01L
	6.3	33µF	±20%	2.0	490-3389-1-ND **NEW!**	27.89	164.78	475.31	490-3389-2-ND **NEW!**	1,000	456.30	GRM32DR60J336ME19L
		47µF	±20%	2.5	490-1887-1-ND	35.08	207.29	597.94	490-1887-2-ND	1,000	574.02	GRM32ER60J476ME20L
		100µF	±20%	2.5	490-3390-1-ND **NEW!**	74.28	438.95	1266.19	490-3390-2-ND **NEW!**	1,000	1215.54	GRM32ER60J107ME20L
	100	.1µF	+80, -20%	1.35	490-1888-1-ND	6.13	36.21	104.44	490-1888-2-ND	2,000	100.26/M	GRM32NR52A104ZA01L
	50	.68µF	+80, -20%	1.35	490-1889-1-ND	7.87	46.48	134.06	490-1889-2-ND	2,000	128.70/M	GRM32NF51H684ZA01L
		1.0µF	+80, -20%	1.8	490-1890-1-ND	5.70	33.67	97.13	490-1890-2-ND	1,000	93.24	GRM32RF51H105ZA01L
		10µF	+80, -20%	2.0	490-1891-1-ND	11.24	66.43	191.63	490-1891-2-ND	1,000	183.96	GRM32DF51H106ZA01L
	25	4.7µF	+80, -20%	0.85	490-1892-1-ND	7.07	41.80	120.56	490-1892-2-ND	4,000	115.74/M	GRM329F51E475ZA01D
Y5V		10µF	+80, -20%	1.35	490-1893-1-ND	9.65	57.01	164.44	490-1893-2-ND	2,000	157.86/M	GRM32NF51E106ZA01L
	16	10µF	+80, -20%	1.35	490-1894-1-ND	9.48	56.03	161.63	490-1894-2-ND	2,000	155.16/M	GRM32NF51C106ZA01L
		22µF	+80, -20%	1.6	490-3392-1-ND **NEW!**	13.10	77.42	223.31	490-3392-2-ND **NEW!**	2,000	214.38/M	GRM32CF51C226ZA12L
	10	10µF	+80, -20%	0.85	490-3393-1-ND **NEW!**	7.95	47.00	135.56	490-3393-2-ND **NEW!**	4,000	130.14/M	GRM329F51A106ZA01D
		22µF	+80, -20%	1.6	490-1895-1-ND	12.39	73.19	211.13	490-1895-2-ND	2,000	202.68/M	GRM32CF51A226ZA01L
	6.3	100µF	+80, -20%	2.5	490-3394-1-ND **NEW!**	46.48	274.63	792.19	490-3394-2-ND **NEW!**	1,000	760.50	GRM32EF50J107ZE20L
Z5U	50	1.0µF	±20%	1.8	490-1896-1-ND	5.90	34.84	100.50	490-1896-2-ND	1,000	96.48	GRM32RE41H105MA01L
		9100pF	±5%	1.8	490-1897-1-ND	49.30	291.33	840.38	490-1897-2-ND	1,000	806.76	GRM43R5C1H912JD01L
C0G (NP0)	50	11000pF	±5%	1.8	490-1898-1-ND	59.37	350.81	1011.94	490-1898-2-ND	1,000	971.46	GRM43R5C1H113JD01L
		13000pF	±5%	1.8	490-1899-1-ND	70.75	418.08	1206.00	490-1899-2-ND	1,000	1157.76	GRM43R5C1H133JD01L
		.12µF	±10%	1.8	490-1900-1-ND	11.53	68.12	196.50	490-1900-2-ND	1,000	188.64	GRM43RR72A124KA01L
		.15µF	±10%	1.8	490-1901-1-ND	12.21	72.15	208.13	490-1901-2-ND	1,000	199.80	GRM43RR72A154KA01L
		.18µF	±10%	1.8	490-1902-1-ND	15.75	93.08	268.50	490-1902-2-ND	1,000	257.76	GRM43RR72A184KA01L
		.22µF	±10%	1.8	490-1903-1-ND	17.07	100.88	291.00	490-1903-2-ND	1,000	279.36	GRM43RR72A224KA01L
	100	.22µF	±20%	1.8	490-1904-1-ND	17.07	100.88	291.00	490-1904-2-ND	1,000	279.36	GRM43RR72A224MA01L
		.47µF	±10%	2.0	490-1905-1-ND	30.49	180.18	519.75	490-1905-2-ND	1,000	498.96	GRM43DR72A474KA01L
		1.5µF	±10%	2.0	490-1906-1-ND	32.97	194.81	561.94	490-1906-2-ND	1,000	539.46	GRM43DR72A155KA01L
		1.5µF	±20%	2.0	490-1907-1-ND	32.97	194.81	561.94	490-1907-2-ND	1,000	539.46	GRM43DR72A155MA01L
X7R		2.2µF	±10%	2.5	490-1908-1-ND	35.44	209.43	—	490-1908-2-ND	500	289.98	GRM43ER72A225KA01L
		2.2µF	±20%	2.5	490-1909-1-ND	35.44	209.43	—	490-1909-2-ND	500	289.98	GRM43ER72A225MA01L
		1.5µF	±10%	2.0	490-1910-1-ND	26.84	158.60	457.50	490-1910-2-ND	1,000	439.20	GRM43DR71H155KA01L
	50	1.5µF	±20%	2.0	490-1911-1-ND	26.84	158.60	457.50	490-1911-2-ND	1,000	439.20	GRM43DR71H155MA01L
		2.2µF	±10%	2.5	490-1912-1-ND	28.59	168.94	—	490-1912-2-ND	500	233.91	GRM43ER71H225KA01L
		2.2µF	±20%	2.5	490-1913-1-ND	28.59	168.94	—	490-1913-2-ND	500	233.91	GRM43ER71H225MA01L
		4.7µF	±10%	2.5	490-1914-1-ND	27.57	162.89	—	490-1914-2-ND	500	225.54	GRM43ER71E475KA01L
	25	4.7µF	±20%	2.5	490-1915-1-ND	27.57	162.89	—	490-1915-2-ND	500	225.54	GRM43ER71E475MA01L
	10	22µF	±10%	2.5	490-1916-1-ND	32.82	193.96	—	490-1916-2-ND	500	268.56	GRM43ER71A226KE01L
	16	22µF	±10%	2.5	490-1917-1-ND	32.82	193.96	—	490-1917-2-ND	500	268.56	GRM43ER61C226KE01L
	10	47µF	±10%	2.5	490-1918-1-ND	51.79	306.02	—	490-1918-2-ND	500	423.72	GRM43ER61A476KE19L
		33µF	±10%	2.0	490-1919-1-ND	47.11	278.40	803.06	490-1919-2-ND	1,000	770.94	GRM43DR60J336KE01L
X5R		33µF	±20%	2.0	490-1920-1-ND	47.11	278.40	803.06	490-1920-2-ND	1,000	770.94	GRM43DR60J336ME01L
	6.3	47µF	±10%	2.5	490-1921-1-ND	51.79	306.02	—	490-1921-2-ND	500	423.72	GRM43ER60J476KE01L
		47µF	±20%	2.5	490-1922-1-ND	51.79	306.02	—	490-1922-2-ND	500	423.72	GRM43ER60J476ME01L
		100µF	±20%	2.8	490-1923-1-ND	85.04	502.52	—	490-1923-2-ND	500	695.79	GRM43SR60J107ME20L
Y5V	100	.15µF	+80, -20%	1.8	490-1924-1-ND	13.10	77.42	223.31	490-1924-2-ND	1,000	214.38	GRM43RF52A154ZA01L
	50	1.5µF	+80, -20%	1.8	490-1925-1-ND	61.27	362.05	1044.38	490-1925-2-ND	1,000	1002.60	GRM43RF51H155ZD01L
		16000pF	±5%	1.35	490-1926-1-ND	77.02	455.13	1312.88	490-1926-2-ND	1,000	1260.36	GRM55N5C1H163JD01L
		20000pF	±5%	1.8	490-1927-1-ND	95.99	567.19	1636.13	490-1927-2-ND	1,000	1570.68	GRM55R5C1H203JD01L
C0G (NP0)	50	24000pF	±5%	1.8	490-1928-1-ND	112.18	662.87	1912.13	490-1928-2-ND	1,000	1835.64	GRM55R5C1H243JD01L
		30000pF	±5%	1.8	490-1929-1-ND	123.99	732.68	2113.50	490-1929-2-ND	1,000	2028.96	GRM55R5C1H303JD01L
		36000pF	±5%	1.8	490-1930-1-ND	136.39	805.94	2324.81	490-1930-2-ND	1,000	2231.82	GRM55R5C1H363JD01L
		43000pF	±5%	1.8	490-1931-1-ND	140.38	829.53	2392.88	490-1931-2-ND	1,000	2297.16	GRM55R5C1H433JD01L
		1.0µF	±10%	2.0	490-1932-1-ND	42.15	249.08	718.50	490-1932-2-ND	1,000	689.76	GRM55DR72A105KA01L
	100	1.0µF	±20%	2.0	490-1933-1-ND	42.15	249.08	718.50	490-1933-2-ND	1,000	689.76	GRM55DR72A105MA01L
		4.7µF	±10%	2.5	490-1934-1-ND	74.54	440.44	—	490-1934-2-ND	500	609.84	GRM55ER72A475KA01L
		1.0µF	±10%	1.8	490-1936-1-ND	46.24	273.26	788.25	490-1936-2-ND	1,000	756.72	GRM55RR71H105KA01L
		1.0µF	±20%	1.8	490-1935-1-ND	46.24	273.26	788.25	490-1935-2-ND	1,000	756.72	GRM55RR71H105MA01L
		1.5µF	±10%	1.8	490-1938-1-ND	59.66	352.56	1017.00	490-1938-2-ND	1,000	976.32	GRM55RR71H155KA01L
		1.5µF	±20%	1.8	490-1937-1-ND	59.66	352.56	1017.00	490-1937-2-ND	1,000	976.32	GRM55RR71H155MA01L
X7R	50	3.3µF	±10%	2.0	490-1939-1-ND	59.66	352.56	1017.00	490-1939-2-ND	1,000	976.32	GRM55DR71H335KA01L
		3.3µF	±20%	2.0	490-1940-1-ND	59.66	352.56	1017.00	490-1940-2-ND	1,000	976.32	GRM55DR71H335MA01L
		4.7µF	±10%	2.5	490-1941-1-ND	56.60	334.43	—	490-1941-2-ND	500	463.05	GRM55ER71H475KA01L
		4.7µF	±20%	2.5	490-1942-1-ND	57.76	341.32	—	490-1942-2-ND	500	472.59	GRM55ER71H475MA01L
		10µF	±10%	2.0	490-1943-1-ND	107.80	637.00	1837.50	490-1943-2-ND	1,000	1764.00	GRM55DR71E106KA01L
	25	10µF	±20%	2.0	490-1944-1-ND	107.80	637.00	1837.50	490-1944-2-ND	1,000	1764.00	GRM55DR71E106MA01L
		15µF	±10%	2.5	490-1945-1-ND	53.82	318.05	—	490-1945-2-ND	500	440.37	GRM55ER71E156KA01L
		15µF	±20%	2.5	490-1946-1-ND	53.82	318.05	—	490-1946-2-ND	500	440.37	GRM55ER71E156MA01L
X5R	6.3	100µF	±10%	3.2	490-1947-1-ND	133.00	785.92	—	490-1947-2-ND	300	652.91	GRM55FR60J107KA01L
	100	.47µF	+80, -20%	1.8	490-1948-1-ND	35.30	208.59	601.69	490-1948-2-ND	1,000	577.62	GRM55RF52A474ZA01L
Y5V		.68µF	+80, -20%	1.8	490-1949-1-ND	67.40	398.26	1148.81	490-1949-2-ND	1,000	1102.86	GRM55RF52A684ZD01L
	50	3.3µF	+80, -20%	1.8	490-1950-1-ND	102.70	606.84	1750.50	490-1950-2-ND	1,000	1680.48	GRM55RF51H335ZD01L
		4.7µF	+80, -20%	1.8	490-1951-1-ND	125.57	741.98	2140.31	490-1951-2-ND	1,000	2054.70	GRM55RF51H475ZD01L

er ceramic formulation

TDK Multilayer Ceramic Chip Capacitors

Features: • High capacitance has been achieved through precision technologies that enable the use of multiple thinner ceramic dielectric layers • Monolithic structure ensures superior mechanical strength and reliability • High-accuracy automatic mounting is facilitated through the maintenance of very precise dimensional tolerances • Composed of only ceramics and metals, these capacitors provide extremely dependable performance, exhibiting virtually no degradation even when subjected to temperature extremes **Applications:** • Cellular phones • Portable/Handheld devices (PDA's, MP3 players, etc) • RF Module (VCO, TCXO, PA, etc) **Operating Temperature:** • C0G: -55°C ~ 125°C • X7R: -55°C ~ 125°C • X5R: -55°C ~ 85°C • Y5V: -30°C ~ 85°C



EIA Code	EIAJ Code	Dim. (mm) L	W
0201	0603	0.6	0.3
0306	0816	0.8	1.6
0402	1005	1.0	0.5
0508	1220	1.25	2.0
0603	1608	1.6	0.8
0612	1632	1.6	3.2

Case Size	Type	WV DC	Capacitance	Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Digi-Key Part No.	Tape and Reel Size	Pricing	TDK Part No.
0201	C0G (NP0)	50	1.0pF	±0.25pF	0.3	445-1760-1-ND	.51	2.99	8.63	445-1760-2-ND	15,000	8.28/M	C0603C0G1H010C
		50	1.5pF	±0.25pF	0.3	445-1770-1-ND	.51	2.99	8.63	445-1770-2-ND	15,000	8.28/M	C0603C0G1H1R5C
		50	2.0pF	±0.25pF	0.3	445-1761-1-ND	.51	2.99	8.63	445-1761-2-ND	15,000	8.28/M	C0603C0G1H020C
		50	2.2pF	±0.25pF	0.3	445-1771-1-ND	.51	2.99	8.63	445-1771-2-ND	15,000	8.28/M	C0603C0G1H2R2C
		50	3.0pF	±0.25pF	0.3	445-1762-1-ND	.51	2.99	8.63	445-1762-2-ND	15,000	8.28/M	C0603C0G1H030C
		50	3.3pF	±0.25pF	0.3	445-1772-1-ND	.51	2.99	8.63	445-1772-2-ND	15,000	8.28/M	C0603C0G1H3R3C
		50	4.0pF	±0.25pF	0.3	445-1763-1-ND	.51	2.99	8.63	445-1763-2-ND	15,000	8.28/M	C0603C0G1H040C
		50	4.7pF	±0.25pF	0.3	445-1773-1-ND	.51	2.99	8.63	445-1773-2-ND	15,000	8.28/M	C0603C0G1H4R7C
		50	5.0pF	±0.25pF	0.3	445-1764-1-ND	.51	2.99	8.63	445-1764-2-ND	15,000	8.28/M	C0603C0G1H050C
		50	6.0pF	±0.5pF	0.3	445-1765-1-ND	.51	2.99	8.63	445-1765-2-ND	15,000	8.28/M	C0603C0G1H060D
		50	6.8pF	±0.5pF	0.3	445-1774-1-ND	.51	2.99	8.63	445-1774-2-ND	15,000	8.28/M	C0603C0G1H6R8D
		50	7.0pF	±0.5pF	0.3	445-1766-1-ND	.51	2.99	8.63	445-1766-2-ND	15,000	8.28/M	C0603C0G1H070D
		50	8.0pF	±0.5pF	0.3	445-1767-1-ND	.51	2.99	8.63	445-1767-2-ND	15,000	8.28/M	C0603C0G1H080D
		50	9.0pF	±0.5pF	0.3	445-1768-1-ND	.51	2.99	8.63	445-1768-2-ND	15,000	8.28/M	C0603C0G1H090D
		50	10pF	±0.5pF	0.3	445-1769-1-ND	.51	2.99	8.63	445-1769-2-ND	15,000	8.28/M	C0603C0G1H100D
		50	12pF	±5%	0.3	445-1775-1-ND	.51	2.99	8.63	445-1775-2-ND	15,000	8.28/M	C0603C0G1H120J
		50	15pF	±5%	0.3	445-1776-1-ND	.51	2.99	8.63	445-1776-2-ND	15,000	8.28/M	C0603C0G1H150J
		50	18pF	±5%	0.3	445-1777-1-ND	.51	2.99	8.63	445-1777-2-ND	15,000	8.28/M	C0603C0G1H180J
		50	22pF	±5%	0.3	445-1778-1-ND	.51	2.99	8.63	445-1778-2-ND	15,000	8.28/M	C0603C0G1H220J
		50	27pF	±5%	0.3	445-1779-1-ND	.51	2.99	8.63	445-1779-2-ND	15,000	8.28/M	C0603C0G1H270J
		50	33pF	±5%	0.3	445-1780-1-ND	.51	2.99	8.63	445-1780-2-ND	15,000	8.28/M	C0603C0G1H330J
		50	39pF	±5%	0.3	445-1781-1-ND	.51	2.99	8.63	445-1781-2-ND	15,000	8.28/M	C0603C0G1H390J
		50	47pF	±5%	0.3	445-1782-1-ND	.51	2.99	8.63	445-1782-2-ND	15,000	8.28/M	C0603C0G1H470J
		50	56pF	±5%	0.3	445-1783-1-ND	.51	2.99	8.63	445-1783-2-ND	15,000	8.28/M	C0603C0G1H560J
		50	68pF	±5%	0.3	445-1784-1-ND	.51	2.99	8.63	445-1784-2-ND	15,000	8.28/M	C0603C0G1H680J
		50	82pF	±5%	0.3	445-1785-1-ND	.51	2.99	8.63	445-1785-2-ND	15,000	8.28/M	C0603C0G1H820J
		50	100pF	±5%	0.3	445-1786-1-ND	.51	2.99	8.63	445-1786-2-ND	15,000	8.28/M	C0603C0G1H101J
	X5R	50	100pF	±10%	0.3	445-1787-1-ND	.51	2.99	8.63	445-1787-2-ND	15,000	8.28/M	C0603X5R1H101K
		50	220pF	±10%	0.3	445-1788-1-ND	.51	2.99	8.63	445-1788-2-ND	15,000	8.28/M	C0603X5R1H221K
		50	470pF	±10%	0.3	445-1789-1-ND	.51	2.99	8.63	445-1789-2-ND	15,000	8.28/M	C0603X5R1H471K
		25	1000pF	±10%	0.3	445-1790-1-ND	.51	2.99	8.63	445-1790-2-ND	15,000	8.28/M	C0603X5R1E102K
		25	2200pF	±10%	0.3	445-1791-1-ND	.51	2.99	8.63	445-1791-2-ND	15,000	8.28/M	C0603X5R1E222K
		16	4700pF	±10%	0.3	445-1792-1-ND	.51	2.99	8.63	445-1792-2-ND	15,000	8.28/M	C0603X5R1C472K
		10	10000pF	±10%	0.3	445-1793-1-ND	.51	2.99	8.63	445-1793-2-ND	15,000	8.28/M	C0603X5R1A103K
		6.3	22000pF	±10%	0.3	445-1794-1-ND	.63	3.71	10.69	445-1794-2-ND	15,000	10.26/M	C0603X5R0J223K
		6.3	47000pF	±10%	0.3	445-1795-1-ND	.63	3.71	10.69	445-1795-2-ND	15,000	10.26/M	C0603X5R0J473K
		6.3	0.1µF	±10%	0.3	445-1796-1-ND	.74	4.36	12.56	445-1796-2-ND	15,000	12.06/M	C0603X5R0J104K
	Y5V	16	10000pF	+80/-20%	0.3	445-1797-1-ND	.51	2.99	8.63	445-1797-2-ND	15,000	8.28/M	C0603Y5V1C103Z
0306	X7R	16	0.01µF	±10%	0.5	445-1798-1-ND ***NEW!***	3.03	17.88	51.56	445-1798-2-ND ***NEW!***	4,000	49.50/M	C0816X7R1C103K
		16	0.022µF	±10%	0.5	445-1799-1-ND ***NEW!***	3.27	19.31	55.69	445-1799-2-ND ***NEW!***	4,000	53.46/M	C0816X7R1C223K
		16	0.047µF	±10%	0.5	445-1800-1-ND ***NEW!***	3.63	21.45	61.88	445-1800-2-ND ***NEW!***	4,000	59.40/M	C0816X7R1C473K
		16	0.1µF	±10%	0.5	445-1801-1-ND ***NEW!***	3.87	22.88	66.00	445-1801-2-ND ***NEW!***	4,000	63.36/M	C0816X7R1C104K
	X5R	10	0.22µF	±10%	0.5	445-1802-1-ND ***NEW!***	4.11	24.31	70.13	445-1802-2-ND ***NEW!***	4,000	67.32/M	C0816X5R1A224K
0402	C0G (NP0)	50	10pF	±0.5pF	0.5	445-1235-1-ND	.55	3.25	9.38	445-1235-2-ND	10,000	9.00/M	C1005C0G1H100D
		50	12pF	±5%	0.5	445-1236-1-ND	.57	3.38	9.75	445-1236-2-ND	10,000	9.36/M	C1005C0G1H120J
		50	15pF	±5%	0.5	445-1237-1-ND	.57	3.38	9.75	445-1237-2-ND	10,000	9.36/M	C1005C0G1H150J
		50	18pF	±5%	0.5	445-1238-1-ND	.57	3.38	9.75	445-1238-2-ND	10,000	9.36/M	C1005C0G1H180J
		50	22pF	±5%	0.5	445-1239-1-ND	.55	3.25	9.38	445-1239-2-ND	10,000	9.00/M	C1005C0G1H220J
		50	27pF	±5%	0.5	445-1240-1-ND	.57	3.38	9.75	445-1240-2-ND	10,000	9.36/M	C1005C0G1H270J
		50	33pF	±5%	0.5	445-1241-1-ND	.57	3.38	9.75	445-1241-2-ND	10,000	9.36/M	C1005C0G1H330J
		50	39pF	±5%	0.5	445-1242-1-ND	.57	3.38	9.75	445-1242-2-ND	10,000	9.36/M	C1005C0G1H390J
		50	47pF	±5%	0.5	445-1243-1-ND	.55	3.25	9.38	445-1243-2-ND	10,000	9.00/M	C1005C0G1H470J
		50	56pF	±5%	0.5	445-1244-1-ND	.57	3.38	9.75	445-1244-2-ND	10,000	9.36/M	C1005C0G1H560J
		50	68pF	±5%	0.5	445-1245-1-ND	.57	3.38	9.75	445-1245-2-ND	10,000	9.36/M	C1005C0G1H680J
		50	82pF	±5%	0.5	445-1246-1-ND	.57	3.38	9.75	445-1246-2-ND	10,000	9.36/M	C1005C0G1H820J
		50	100pF	±5%	0.5	445-1247-1-ND	.55	3.25	9.38	445-1247-2-ND	10,000	9.00/M	C1005C0G1H101J
		50	120pF	±5%	0.5	445-1248-1-ND	.64	3.77	10.88	445-1248-2-ND	10,000	10.44/M	C1005C0G1H121J
		50	150pF	±5%	0.5	445-1249-1-ND	.64	3.77	10.88	445-1249-2-ND	10,000	10.44/M	C1005C0G1H151J
		50	180pF	±5%	0.5	445-1250-1-ND	.72	4.26	12.30	445-1250-2-ND	10,000	11.81/M	C1005C0G1H181J
		50	220pF	±5%	0.5	445-1251-1-ND	.72	4.26	12.30	445-1251-2-ND	10,000	11.81/M	C1005C0G1H221J
		50	270pF	±5%	0.5	445-1252-1-ND	.84	4.96	14.31	445-1252-2-ND	10,000	13.74/M	C1005C0G1H271J
		50	330pF	±5%	0.5	445-1253-1-ND	.84	4.96	14.31	445-1253-2-ND	10,000	13.74/M	C1005C0G1H331J
	X7R	50	220pF	±10%	0.5	445-1254-1-ND	.57	3.38	9.75	445-1254-2-ND	10,000	9.36/M	C1005X7R1H221K
		50	470pF	±10%	0.5	445-1255-1-ND	.57	3.38	9.75	445-1255-2-ND	10,000	9.36/M	C1005X7R1H471K
		50	1000pF	±10%	0.5	445-1256-1-ND	.55	3.25	9.38	445-1256-2-ND	10,000	9.00/M	C1005X7R1H102K
		50	2200pF	±10%	0.5	445-1257-1-ND	.57	3.38	9.75	445-1257-2-ND	10,000	9.36/M	C1005X7R1H222K
		50	4700pF	±10%	0.5	445-1258-1-ND	.57	3.38	9.75	445-1258-2-ND	10,000	9.36/M	C1005X7R1H472K
		25	4700pF	±10%	0.5	445-1259-1-ND	.57	3.38	9.75	445-1259-2-ND	10,000	9.36/M	C1005X7R1E472K
		25	10000pF	±10%	0.5	445-1260-1-ND	.57	3.38	9.75	445-1260-2-ND	10,000	9.36/M	C1005X7R1E103K
		25	22000pF	±10%	0.5	445-1261-1-ND	.77	4.55	13.13	445-1261-2-ND	10,000	12.60/M	C1005X7R1E223K
		16	10000pF	±10%	0.5	445-1262-1-ND	.55	3.25	9.38	445-1262-2-ND	10,000	9.00/M	C1005X7R1C103K
		16	22000pF	±10%	0.5	445-1263-1-ND	.72	4.23	12.19	445-1263-2-ND	10,000	11.70/M	C1005X7R1C223K
		16	47000pF	±10%	0.5	445-1264-1-ND	1.19	7.02	20.25	445-1264-2-ND	10,000	19.44/M	C1005X7R1C473K
	X5R	10	0.1µF	±10%	0.5	445-1265-1-ND	1.49	8.78	25.31	445-1265-2-ND	10,000	24.30/M	C1005X5R1A104K
		6.3	0.1µF	±10%	0.5	445-1266-1-ND	1.49	8.78	25.31	445-1266-2-ND	10,000	24.30/M	C1005X5R0J104K
		6.3	0.22µF	±20%	0.5	445-1267-1-ND	2.75	16.25	46.88	445-1267-2-ND	10,000	45.00/M	C1005X5R0J224M
		6.3	1.0µF	±20%	0.5	445-1415-1-ND	1.98	11.70	33.75	445-1415-2-ND	10,000	32.40/M	C1005X5R0J105M
	Y5V	16	0.1µF	+80/-20%	0.5	445-1268-1-ND	.88	5.20	15.00	445-1268-2-ND	10,000	14.40/M	C1005Y5V1C104Z

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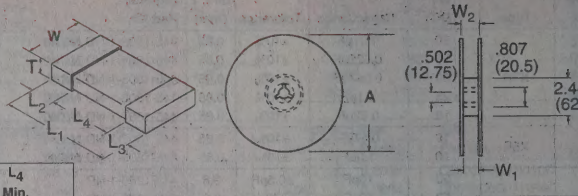
X7R	50	0.01µF	±10%	0.85	445-1803-1-ND NEW!	3.39	20.02	57.75	445-1803-2-ND NEW!	4,000	55.44/M	C1220X7R1H103K
	50	0.022µF	±10%	0.85	445-1804-1-ND NEW!	3.63	21.45	61.88	445-1804-2-ND NEW!	4,000	59.40/M	C1220X7R1H223K
	50	0.047µF	±10%	0.85	445-1805-1-ND NEW!	3.87	22.88	66.00	445-1805-2-ND NEW!	4,000	63.36/M	C1220X7R1H473K
	25	0.1µF	±10%	0.85	445-1806-1-ND NEW!	4.11	24.31	70.13	445-1806-2-ND NEW!	4,000	67.32/M	C1220X7R1E104K
	16	0.22µF	±10%	0.85	445-1807-1-ND NEW!	4.36	25.74	74.25	445-1807-2-ND NEW!	4,000	71.28/M	C1220X7R1C224K
X5R	10	0.47µF	±10%	0.85	445-1808-1-ND NEW!	4.60	27.17	78.38	445-1808-2-ND NEW!	4,000	75.24/M	C1220X5R1A474K
	10	1.0µF	±10%	0.85	445-1809-1-ND NEW!	4.84	28.60	82.50	445-1809-2-ND NEW!	4,000	79.20/M	C1220X5R1A105K
C0G (NP0)	50	10pF	±0.5pF	0.8	445-1269-1-ND	.50	2.93	8.44	445-1269-2-ND	4,000	8.10/M	C1608C0G1H100D
	50	12pF	±5%	0.8	445-1270-1-ND	.53	3.12	9.00	445-1270-2-ND	4,000	8.64/M	C1608C0G1H120J
	50	15pF	±5%	0.8	445-1271-1-ND	.53	3.12	9.00	445-1271-2-ND	4,000	8.64/M	C1608C0G1H150J
	50	18pF	±5%	0.8	445-1272-1-ND	.53	3.12	9.00	445-1272-2-ND	4,000	8.64/M	C1608C0G1H180J
	50	22pF	±5%	0.8	445-1273-1-ND	.50	2.93	8.44	445-1273-2-ND	4,000	8.10/M	C1608C0G1H220J
	50	27pF	±5%	0.8	445-1274-1-ND	.53	3.12	9.00	445-1274-2-ND	4,000	8.64/M	C1608C0G1H270J
	50	33pF	±5%	0.8	445-1275-1-ND	.53	3.12	9.00	445-1275-2-ND	4,000	8.64/M	C1608C0G1H330J
	50	39pF	±5%	0.8	445-1276-1-ND	.53	3.12	9.00	445-1276-2-ND	4,000	8.64/M	C1608C0G1H390J
	50	47pF	±5%	0.8	445-1277-1-ND	.50	2.93	8.44	445-1277-2-ND	4,000	8.10/M	C1608C0G1H470J
	50	56pF	±5%	0.8	445-1278-1-ND	.53	3.12	9.00	445-1278-2-ND	4,000	8.64/M	C1608C0G1H560J
	50	68pF	±5%	0.8	445-1279-1-ND	.53	3.12	9.00	445-1279-2-ND	4,000	8.64/M	C1608C0G1H680J
	50	82pF	±5%	0.8	445-1280-1-ND	.53	3.12	9.00	445-1280-2-ND	4,000	8.64/M	C1608C0G1H820J
	50	100pF	±5%	0.8	445-1281-1-ND	.50	2.93	8.44	445-1281-2-ND	4,000	8.10/M	C1608C0G1H101J
	50	120pF	±5%	0.8	445-1282-1-ND	.53	3.12	9.00	445-1282-2-ND	4,000	8.64/M	C1608C0G1H121J
	50	150pF	±5%	0.8	445-1283-1-ND	.53	3.12	9.00	445-1283-2-ND	4,000	8.64/M	C1608C0G1H151J
	50	180pF	±5%	0.8	445-1284-1-ND	.61	3.58	10.31	445-1284-2-ND	4,000	9.90/M	C1608C0G1H181J
	50	220pF	±5%	0.8	445-1285-1-ND	.61	3.58	10.31	445-1285-2-ND	4,000	9.90/M	C1608C0G1H221J
	50	270pF	±5%	0.8	445-1286-1-ND	.72	4.23	12.19	445-1286-2-ND	4,000	11.70/M	C1608C0G1H271J
	50	330pF	±5%	0.8	445-1287-1-ND	.72	4.23	12.19	445-1287-2-ND	4,000	11.70/M	C1608C0G1H331J
	50	390pF	±5%	0.8	445-1288-1-ND	.83	4.88	14.06	445-1288-2-ND	4,000	13.50/M	C1608C0G1H391J
	50	470pF	±5%	0.8	445-1289-1-ND	.83	4.88	14.06	445-1289-2-ND	4,000	13.50/M	C1608C0G1H471J
	50	560pF	±5%	0.8	445-1290-1-ND	.94	5.53	15.94	445-1290-2-ND	4,000	15.30/M	C1608C0G1H561J
	50	680pF	±5%	0.8	445-1291-1-ND	.94	5.53	15.94	445-1291-2-ND	4,000	15.30/M	C1608C0G1H681J
	50	820pF	±5%	0.8	445-1292-1-ND	1.16	6.83	19.69	445-1292-2-ND	4,000	18.90/M	C1608C0G1H821J
	50	1000pF	±5%	0.8	445-1293-1-ND	1.16	6.83	19.69	445-1293-2-ND	4,000	18.90/M	C1608C0G1H102J
	50	1200pF	±5%	0.8	445-1294-1-ND	1.78	10.50	30.28	445-1294-2-ND	4,000	29.07/M	C1608C0G1H122J
	50	1500pF	±5%	0.8	445-1295-1-ND	1.78	10.50	30.28	445-1295-2-ND	4,000	29.07/M	C1608C0G1H152J
	50	1800pF	±5%	0.8	445-1296-1-ND	2.00	11.81	34.07	445-1296-2-ND	4,000	32.71/M	C1608C0G1H182J
	50	2200pF	±5%	0.8	445-1297-1-ND	2.00	11.81	34.07	445-1297-2-ND	4,000	32.71/M	C1608C0G1H222J
	50	3300pF	±5%	0.8	445-1599-1-ND	2.15	12.68	36.56	445-1599-2-ND	4,000	35.10/M	C1608C0G1H332J
X7R	100	1000pF	±10%	0.8	445-1298-1-ND	1.19	7.02	20.25	445-1298-2-ND	4,000	19.44/M	C1608X7R2A102K
	100	1000pF	±20%	0.8	445-1299-1-ND	1.09	6.44	18.56	445-1299-2-ND	4,000	17.82/M	C1608X7R2A102M
	100	2200pF	±10%	0.8	445-1300-1-ND	1.19	7.02	20.25	445-1300-2-ND	4,000	19.44/M	C1608X7R2A222K
	100	2200pF	±20%	0.8	445-1301-1-ND	1.09	6.44	18.56	445-1301-2-ND	4,000	17.82/M	C1608X7R2A222M
	100	4700pF	±10%	0.8	445-1302-1-ND	1.19	7.02	20.25	445-1302-2-ND	4,000	19.44/M	C1608X7R2A472K
	100	4700pF	±20%	0.8	445-1303-1-ND	1.09	6.44	18.56	445-1303-2-ND	4,000	17.82/M	C1608X7R2A472M
	100	10000pF	±10%	0.8	445-1304-1-ND	1.19	7.02	20.25	445-1304-2-ND	4,000	19.44/M	C1608X7R2A103K
	100	10000pF	±20%	0.8	445-1305-1-ND	1.09	6.44	18.56	445-1305-2-ND	4,000	17.82/M	C1608X7R2A103M
	50	220pF	±10%	0.8	445-1306-1-ND	.53	3.12	9.00	445-1306-2-ND	4,000	8.64/M	C1608X7R1H221K
	50	470pF	±10%	0.8	445-1307-1-ND	.53	3.12	9.00	445-1307-2-ND	4,000	8.64/M	C1608X7R1H471K
	50	1000pF	±10%	0.8	445-1308-1-ND	.50	2.93	8.44	445-1308-2-ND	4,000	8.10/M	C1608X7R1H102K
	50	2200pF	±10%	0.8	445-1309-1-ND	.53	3.12	9.00	445-1309-2-ND	4,000	8.64/M	C1608X7R1H222K
	50	4700pF	±10%	0.8	445-1310-1-ND	.53	3.12	9.00	445-1310-2-ND	4,000	8.64/M	C1608X7R1H472K
	50	10000pF	±10%	0.8	445-1311-1-ND	.50	2.93	8.44	445-1311-2-ND	4,000	8.10/M	C1608X7R1H103K
	50	22000pF	±10%	0.8	445-1312-1-ND	.72	4.23	12.19	445-1312-2-ND	4,000	11.70/M	C1608X7R1H223K
	50	47000pF	±10%	0.8	445-1313-1-ND	1.05	6.18	17.81	445-1313-2-ND	4,000	17.10/M	C1608X7R1H473K
	50	0.1µF	±10%	0.8	445-1314-1-ND	.99	5.85	16.88	445-1314-2-ND	4,000	18.90/M	C1608X7R1H104K
	25	47000pF	±10%	0.8	445-1315-1-ND	1.05	6.18	17.81	445-1315-2-ND	4,000	17.10/M	C1608X7R1E473K
	25	0.1µF	±10%	0.8	445-1316-1-ND	.97	5.72	16.50	445-1316-2-ND	4,000	15.84/M	C1608X7R1E104K
	16	0.1µF	±10%	0.8	445-1317-1-ND	.97	5.72	16.50	445-1317-2-ND	4,000	15.84/M	C1608X7R1C104K
	16	0.22µF	±10%	0.8	445-1318-1-ND	1.96	11.57	33.38	445-1318-2-ND	4,000	32.04/M	C1608X7R1C224K
	16	1.0µF	±10%	0.8	445-1604-1-ND	1.76	10.40	30.00	445-1604-2-ND	4,000	28.80/M	C1608X7R1C105K
X5R	16	1.0µF	±10%	0.8	445-1416-1-ND	4.55	26.90	77.59	445-1416-2-ND	4,000	74.49/M	C1608X5R1C105K
	10	0.22µF	±10%	0.8	445-1319-1-ND	1.85	10.92	31.50	445-1319-2-ND	4,000	30.24/M	C1608X5R1A224K
	10	0.47µF	±10%	0.8	445-1320-1-ND	3.06	18.07	52.13	445-1320-2-ND	4,000	50.04/M	C1608X5R1A474K
	10	1.0µF	±10%	0.8	445-1321-1-ND	4.18	24.70	71.25	445-1321-2-ND	4,000	68.40/M	C1608X5R1A105K
	6.3	1.0µF	±10%	0.8	445-1322-1-ND	4.18	24.70	71.25	445-1322-2-ND	4,000	68.40/M	C1608X5R0J105K
	6.3	2.2µF	±20%	0.8	445-1323-1-ND	6.05	35.75	103.13	445-1323-2-ND	4,000	99.00/M	C1608X5R0J225M
	6.3	4.7µF	±20%	0.8	445-1417-1-ND	3.96	23.40	67.50	445-1417-2-ND	4,000	64.80/M	C1608X5R0J475M
Y5V	50	0.1µF	+80/-20%	0.8	445-1324-1-ND	.50	2.93	8.44	445-1324-2-ND	4,000	8.10/M	C1608Y5V1H104Z
	25	0.1µF	+80/-20%	0.8	445-1325-1-ND	.50	2.93	8.44	445-1325-2-ND	4,000	8.10/M	C1608Y5V1E104Z
	16	0.1µF	+80/-20%	0.8	445-1326-1-ND	.50	2.93	8.44	445-1326-2-ND	4,000	8.10/M	C1608Y5V1C104Z
	16	1.0µF	+80/-20%	0.8	445-1327-1-ND	1.93	11.38	32.81	445-1327-2-ND	4,000	31.50/M	C1608Y5V1C105Z
	10	1.0µF	+80/-20%	0.8	445-1328-1-ND	1.93	11.38	32.81	445-1328-2-ND	4,000	31.50/M	C1608Y5V1A105Z
X7R	50	0.01µF	±10%	0.7	445-1810-1-ND NEW!	3.63	21.45	61.88	445-1810-2-ND NEW!	4,000	59.40/M	C1632X7R1H103K
	50	0.022µF	±10%	0.7	445-1811-1-ND NEW!	3.87	22.88	66.00	445-1811-2-ND NEW!	4,000	63.36/M	C1632X7R1H223K
	50	0.047µF	±10%	0.7	445-1812-1-ND NEW!	4.11	24.31	70.13	445-1812-2-ND NEW!	4,000	67.32/M	C1632X7R1H473K
	50	0.1µF	±10%	0.7	445-1813-1-ND NEW!	4.36	25.74	74.25	445-1813-2-ND NEW!	4,000	71.28/M	C1632X7R1H104K
	50	0.22µF	±10%	1.15	445-1814-1-ND NEW!	4.60	27.17	78.38	445-1814-2-ND NEW!	2,000	75.24/M	C1632X7R1H224K
	25	0.22µF	±10%	0.7	445-1815-1-ND NEW!	4.36	25.74	74.25	445-1815-2-ND NEW!	4,000	71.28/M	C1632X7R1E224K
	25	0.47µF	±10%	1.15	445-1816-1-ND NEW!	4.84	28.60	82.50	445-1816-2-ND NEW!	2,000	79.20/M	C1632X7R1E474K
	16	0.47µF	±10%	0.7	445-1817-1-ND NEW!	4.60	27.17	78.38	445-1817-2-ND NEW!	4,000	75.24/M	C1632X7R1C474K
	16	1.0µF	±10%	1.15	445-1818-1-ND NEW!	6.05	35.75	103.13	445-1818-2-ND NEW!	2,000	99.00/M	C1632X7R1C105K
X5R	10	1.0µF	±10%	0.7	445-1819-1-ND NEW!	5.81	34.32	99.00	445-1819-2-ND NEW!	4,000	95.04/M	C1632X5R1A105K
	10	2.2µF	±10%	1.15	445-1820-1-ND NEW!	7.26	42.90	123.75	445-1820-2-ND NEW!	2,000	118.80/M	C1632X5R1A225K
	6.3	4.7µF	±10%	1.3	445-1821-1-ND NEW!	8.47	50.05	144.38	445-1821-2-ND NEW!	2,000	138.60/M	C1632X5R0J475K

YAGEO Surface Mount Ceramic Multilayer Chip Capacitors – 0402, 0603, 0805, 1206, 1812

Features:
- High capacitance per unit volume
- For high frequency applications
- NiSn terminations

Applications:
- Consumer electronics
- Telecommunications
- Automotive
- Data processing



Dimensions: Inch (mm)

Case Size	L_1	W	T		L_2 and L_3		L_4
			Min.	Max.	Min.	Max.	Min.
0402	.040" (1.0mm)	.020" (0.5mm)	.018" (0.45mm)	.022" (0.55mm)	.008" (0.20mm)	.012" (0.30mm)	.016" (0.40mm)
0603	.063" (1.6mm)	.032" (0.8mm)	.029" (0.73mm)	.035" (0.87mm)	.010" (0.25mm)	.026" (0.65mm)	.016" (0.40mm)
0805	.079" (2.0mm)	.049" (1.25mm)	.020" (0.51mm)	.053" (1.35mm)	.010" (0.25mm)	.030" (0.75mm)	.022" (0.55mm)
1206	.126" (3.2mm)	.063" (1.6mm)	.020" (0.51mm)	.069" (1.75mm)	.010" (0.25mm)	030" (0.75mm)	.056" (1.40mm)
1812	.177" (4.5mm)	.126" (3.2mm)	.020" (0.51mm)	.072" (1.80mm)	.010" (0.25mm)	030" (0.75mm)	.088" (2.20mm)

Case Size	Tape Width Inch (mm)	A Inch (mm)	W1 Inch (mm)	W2 Max Inch (mm)
0402, 0603 0805, 1206	.315" (8mm)	7.087" (180mm)	.331" (8.4mm)	.567" (14.4
1812	.472" (12mm)	7.087" (180mm)	.488" (12.4mm)	.724" (18.4

Case Size	Type	WV DC	Capacitance	Tolerance	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Digi-Key Part No.	Tape & Reel Size	Pricing	Yageo Part No.
0402	NP0	50	.5pF	±0.25pF	311-1001-1-ND	.95	5.59	16.13	311-1001-2-ND	10,000	15.48/M	0402CG508C9B2
		50	1.2pF	±0.25pF	311-1002-1-ND	.99	5.85	16.88	311-1002-2-ND	10,000	16.20/M	0402CG129C9B2
		50	1.5pF	±0.25pF	311-1003-1-ND	.99	5.85	16.88	311-1003-2-ND	10,000	16.20/M	0402CG159C9B2
		50	1.8pF	±0.25pF	311-1004-1-ND	.99	5.85	16.88	311-1004-2-ND	10,000	16.20/M	0402CG189C9B2
		50	2.0pF	±0.25pF	311-1006-1-ND	1.05	6.18	17.81	311-1006-2-ND	10,000	17.10/M	0402CG209C9B2
		50	2.7pF	±0.25pF	311-1005-1-ND	.99	5.85	16.88	311-1005-2-ND	10,000	16.20/M	0402CG279C9B2
		50	3.0pF	±0.25pF	311-1007-1-ND	.99	5.85	16.88	311-1007-2-ND	10,000	16.20/M	0402CG309C9B2
		50	3.3pF	±0.25pF	311-1008-1-ND	.99	5.85	16.88	311-1008-2-ND	10,000	16.20/M	0402CG339C9B2
		50	5.0pF	±0.25pF	311-1010-1-ND	.99	5.85	16.88	311-1010-2-ND	10,000	16.20/M	0402CG509C9B2
		50	5.6pF	±0.5pF	311-1011-1-ND	.99	5.85	16.88	311-1011-2-ND	10,000	16.20/M	0402CG569D9B2
		50	8.2pF	±0.5pF	311-1012-1-ND	.99	5.85	16.88	311-1012-2-ND	10,000	16.20/M	0402CG829D9B2
		50	9.1pF	±0.5pF	311-1013-1-ND	.70	4.25	14.00	311-1013-2-ND	10,000	18.00/M	0402CG919D9B2
		50	10pF	±5%	311-1014-1-ND	.77	4.55	13.13	311-1014-2-ND	10,000	12.60/M	0402CG100D9B2
		50	11pF	±5%	311-1015-1-ND	1.09	6.44	18.56	311-1015-2-ND	10,000	17.82/M	0402CG110J9B2
		50	12pF	±5%	311-1016-1-ND	.88	5.20	15.00	311-1016-2-ND	10,000	14.40/M	0402CG120J9B2
		50	15pF	±5%	311-1017-1-ND	.88	5.20	15.00	311-1017-2-ND	10,000	14.40/M	0402CG150J9B2
		50	22pF	±5%	311-1018-1-ND	.88	5.20	15.00	311-1018-2-ND	10,000	14.40/M	0402CG220J9B2
		50	27pF	±5%	311-1019-1-ND	.94	5.53	15.94	311-1019-2-ND	10,000	15.30/M	0402CG270J9B2
		50	33pF	±5%	311-1020-1-ND	.94	5.53	15.94	311-1020-2-ND	10,000	15.30/M	0402CG330J9B2
		50	39pF	±5%	311-1009-1-ND	.84	4.94	14.25	311-1009-2-ND	10,000	13.68/M	0402CG390J9B2
		50	47pF	±5%	311-1021-1-ND	.88	5.20	15.00	311-1021-2-ND	10,000	14.40/M	0402CG470J9B2
		50	56pF	±5%	311-1022-1-ND	.94	5.53	15.94	311-1022-2-ND	10,000	15.30/M	0402CG560J9B2
		50	82pF	±5%	311-1023-1-ND	.99	5.85	16.88	311-1023-2-ND	10,000	16.20/M	0402CG820J9B2
		50	100pF	±5%	311-1024-1-ND	.83	4.88	14.06	311-1024-2-ND	10,000	13.50/M	0402CG101J9B2
		50	150pF	±5%	311-1025-1-ND	.77	4.68	15.40	311-1025-2-ND	10,000	19.80/M	0402CG151J9B2
		25	220pF	±5%	311-1026-1-ND	.99	5.85	16.88	311-1026-2-ND	10,000	16.20/M	0402CG221J8B2
	X7R	50	220pF	±10%	311-1035-1-ND	.77	4.55	13.13	311-1035-2-ND	10,000	12.60/M	04022R221K9B2
		50	330pF	±10%	311-1027-1-ND	.77	4.55	13.13	311-1027-2-ND	10,000	12.60/M	04022R331K9B2
		50	470pF	±10%	311-1028-1-ND	.77	4.55	13.13	311-1028-2-ND	10,000	12.60/M	04022R471K9B2
		50	560pF	±10%	311-1029-1-ND	.77	4.55	13.13	311-1029-2-ND	10,000	12.60/M	04022R561K9B2
		50	680pF	±10%	311-1030-1-ND	.77	4.55	13.13	311-1030-2-ND	10,000	12.60/M	04022R681K9B2
		50	1200pF	±10%	311-1031-1-ND	.77	4.55	13.13	311-1031-2-ND	10,000	12.60/M	04022R122K9B2
		50	1500pF	±10%	311-1032-1-ND	.77	4.55	13.13	311-1032-2-ND	10,000	12.60/M	04022R152K9B2
		50	2700pF	±10%	311-1033-1-ND	.77	4.55	13.13	311-1033-2-ND	10,000	12.60/M	04022R272K9B2
		50	3300pF	±10%	311-1034-1-ND	.83	4.88	14.06	311-1034-2-ND	10,000	13.50/M	04022R332K9B2
		50	1000pF	±10%	311-1036-1-ND	.83	4.88	14.06	311-1036-2-ND	10,000	13.50/M	04022R102K9B2
		50	2200pF	±10%	311-1037-1-ND	.77	4.55	13.13	311-1037-2-ND	10,000	12.60/M	04022R222K9B2
		25	3900pF	±10%	311-1038-1-ND	.83	4.88	14.06	311-1038-2-ND	10,000	13.50/M	0402KRX7R8BB3
		25	4700pF	±10%	311-1039-1-ND	.77	4.55	13.13	311-1039-2-ND	10,000	12.60/M	04022R472K8B2
		16	5600pF	±10%	311-1040-1-ND	.77	4.55	13.13	311-1040-2-ND	10,000	12.60/M	0402KRX7R7BB5
		16	8200pF	±10%	311-1041-1-ND	.94	5.53	15.94	311-1041-2-ND	10,000	15.30/M	04022R822K7B2
		16	10000pF	±10%	311-1042-1-ND	.77	4.55	13.13	311-1042-2-ND	10,000	12.60/M	04022R103K7B2
	Y5V	16	22000pF	-20%/+80%	311-1043-1-ND	.86	5.07	14.63	311-1043-2-ND	10,000	14.04/M	04022F223Z7B2
		16	33000pF	-20%/+80%	311-1044-1-ND	.88	5.20	15.00	311-1044-2-ND	10,000	14.40/M	04022F333Z7B2
		16	10000pF	-20%/+80%	311-1045-1-ND	.74	4.36	12.56	311-1045-2-ND	10,000	12.06/M	04022F103Z7B2
		16	47000pF	-20%/+80%	311-1046-1-ND	.94	5.53	15.94	311-1046-2-ND	10,000	15.30/M	04022F473Z7B2
		16	.10µF	-20%/+80%	311-1047-1-ND	.88	5.20	15.00	311-1047-2-ND	10,000	14.40/M	04022F104Z7B2
0603	NP0	50	.5pF	±0.25pF	311-1048-1-ND	.75	4.42	12.75	311-1048-2-ND	4,000	12.24/M	0603CG508C9B2
		50	1.0pF	±0.25pF	311-1049-1-ND	.66	3.90	11.25	311-1049-2-ND	4,000	10.80/M	0603CG109C9B2
		50	1.5pF	±0.25pF	311-1050-1-ND	.66	3.90	11.25	311-1050-2-ND	4,000	10.80/M	0603CG159C9B2
		50	2.0pF	±0.25pF	311-1051-1-ND	.72	4.23	12.19	311-1051-2-ND	4,000	11.70/M	0603CG209C9B2
		50	3.0pF	±0.25pF	311-1052-1-ND	.72	4.23	12.19	311-1052-2-ND	4,000	11.70/M	0603CG309C9B2
		50	4.0pF	±0.25pF	311-1053-1-ND	.75	4.42	12.75	311-1053-2-ND	4,000	12.24/M	0603CG409C9B2
		50	5.0pF	±0.25pF	311-1054-1-ND	.72	4.23	12.19	311-1054-2-ND	4,000	11.70/M	0603CG509C9B2
		50	6.0pF	±0.5pF	311-1055-1-ND	.66	3.90	11.25	311-1055-2-ND	4,000	10.80/M	0603CG609C9B2
		50	7.0pF	±0.5pF	311-1056-1-ND	.75	4.42	12.75	311-1056-2-ND	4,000	12.24/M	0603CG709D9B2
		50	8.0pF	±0.5pF	311-1057-1-ND	.75	4.42	12.75	311-1057-2-ND	4,000	12.24/M	0603CG809D9B2
		50	10pF	±5%	311-1058-1-ND	.57	3.38	9.75	311-1058-2-ND	4,000	9.36/M	0603CG100J9B2
		50	12pF	±5%	311-1059-1-ND	.55	3.25	9.38	311-1059-2-ND	4,000	9.00/M	0603CG120J9B2
		50	15pF	±5%	311-1060-1-ND	.57	3.38	9.75	311-1060-2-ND	4,000	9.36/M	0603CG150J9B2
		50	18pF	±5%	311-1061-1-ND	.57	3.38	9.75	311-1061-2-ND	4,000	9.36/M	0603CG180J9B2
		50	22pF	±5%	311-1062-1-ND	.58	3.45	9.94	311-1062-2-ND	4,000	9.54/M	0603CG220J9B2
		50	27pF	±5%	311-1063-1-ND	.66	3.90	11.25	311-1063-2-ND	4,000	10.80/M	0603CG270J9B2
		50	33pF	±5%	311-1064-1-ND	.65	3.84	11.06	311-1064-2-ND	4,000	10.62/M	0603CG330J9B2

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Surface Mount Ceramic Multilayer Chip Capacitors – 0402, 0603, 0805, 1206, 1812 *(Cont.)*

Type	WV DC	Capacitance	Tolerance	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Digi-Key Part No.	Tape & Reel Size	Pricing	Yageo Part No.
	50	47pF	±5%	311-1065-1-ND	.65	3.84	11.06	311-1065-2-ND	4,000	10.62/M	0603CG470J9B200
	50	56pF	±5%	311-1066-1-ND	.68	4.03	11.63	311-1066-2-ND	4,000	11.16/M	0603CG560J9B200
	50	68pF	±5%	311-1067-1-ND	.68	4.03	11.63	311-1067-2-ND	4,000	11.16/M	0603CG680J9B200
	50	82pF	±5%	311-1068-1-ND	.73	4.29	12.38	311-1068-2-ND	4,000	11.88/M	0603CG820J9B200
	50	100pF	±5%	311-1069-1-ND	.62	3.64	10.50	311-1069-2-ND	4,000	10.08/M	0603CG101J9B200
NP0	50	120pF	±5%	311-1070-1-ND	.73	4.29	12.38	311-1070-2-ND	4,000	11.88/M	0603CG121J9B200
	50	150pF	±5%	311-1071-1-ND	.86	5.07	14.63	311-1071-2-ND	4,000	14.04/M	0603CG151J9B200
	50	180pF	±5%	311-1072-1-ND	.94	5.53	15.94	311-1072-2-ND	4,000	15.30/M	0603CG181J9B200
	50	220pF	±5%	311-1073-1-ND	1.02	6.05	17.44	311-1073-2-ND	4,000	16.74/M	0603CG221J9B200
	50	270pF	±5%	311-1074-1-ND	.70	4.25	14.00	311-1074-2-ND	4,000	15.00/M	0603CG271J9B200
	50	330pF	±5%	311-1075-1-ND	.77	4.68	15.40	311-1075-2-ND	4,000	16.50/M	0603CG331J9B200
	50	390pF	±5%	311-1076-1-ND	.84	5.10	16.80	311-1076-2-ND	4,000	18.00/M	0603CG391J9B200
	50	220pF	±10%	311-1077-1-ND	.55	3.25	9.38	311-1077-2-ND	4,000	9.00/M	06032R221K9B20D
	50	270pF	±10%	311-1185-1-ND	.55	3.25	9.38	311-1185-2-ND	4,000	9.00/M	06032R271K9B20D
	50	330pF	±10%	311-1186-1-ND	.55	3.25	9.38	311-1186-2-ND	4,000	9.00/M	06032R331K9B20D
	50	390pF	±10%	311-1187-1-ND	.55	3.25	9.38	311-1187-2-ND	4,000	9.00/M	06032R391K9B20D
	50	470pF	±10%	311-1078-1-ND	.55	3.25	9.38	311-1078-2-ND	4,000	9.00/M	06032R471K9B20D
	50	560pF	±10%	311-1079-1-ND	.55	3.25	9.38	311-1079-2-ND	4,000	9.00/M	06032R561K9B20D
	50	680pF	±10%	311-1188-1-ND	.55	3.25	9.38	311-1188-2-ND	4,000	9.00/M	06032R681K9B20D
	50	820pF	±10%	311-1189-1-ND	.55	3.25	9.38	311-1189-2-ND	4,000	9.00/M	06032R821K9B20D
X7R	50	1000pF	±10%	311-1080-1-ND	.55	3.25	9.38	311-1080-2-ND	4,000	9.00/M	06032R102K9B20D
	50	1500pF	±10%	311-1184-1-ND	.57	3.38	9.75	311-1184-2-ND	4,000	9.36/M	06032R152K9B20D
	50	2200pF	±10%	311-1081-1-ND	.55	3.25	9.38	311-1081-2-ND	4,000	9.00/M	06032R222K9B20D
	50	3300pF	±10%	311-1082-1-ND	.57	3.38	9.75	311-1082-2-ND	4,000	9.36/M	06032R332K9B20D
	50	4700pF	±10%	311-1083-1-ND	.55	3.25	9.38	311-1083-2-ND	4,000	9.00/M	06032R472K9B20D
	50	6800pF	±10%	311-1084-1-ND	.54	3.19	9.19	311-1084-2-ND	4,000	8.82/M	06032R682K9B20D
	50	10000pF	±10%	311-1085-1-ND	.59	3.51	10.13	311-1085-2-ND	4,000	9.72/M	06032R103K9B20D
	25	22000pF	±10%	311-1086-1-ND	.88	5.20	15.00	311-1086-2-ND	4,000	14.40/M	06032R223K8B20D
	16	.10µF	±10%	311-1088-1-ND	1.05	6.18	17.81	311-1088-2-ND	4,000	17.10/M	06032R104K7B20D
Y5V	25	.10µF	-20%/+80%	311-1087-1-ND	.64	3.77	10.88	311-1087-2-ND	4,000	10.44/M	06032F104Z8B20D
	50	1.0pF	±0.25pF	311-1089-1-ND	.75	4.42	12.75	311-1089-2-ND	4,000	12.24/M	0805CG109C9B200
	50	1.5pF	±0.25pF	311-1090-1-ND	.75	4.42	12.75	311-1090-2-ND	4,000	12.24/M	0805CG159C9B200
	50	2.0pF	±0.25pF	311-1091-1-ND	.81	4.81	13.88	311-1091-2-ND	4,000	13.32/M	0805CG209C9B200
	50	3.0pF	±0.25pF	311-1092-1-ND	.81	4.81	13.88	311-1092-2-ND	4,000	13.32/M	0805CG309C9B200
	50	4.0pF	±0.25pF	311-1093-1-ND	.81	4.81	13.88	311-1093-2-ND	4,000	13.32/M	0805CG409C9B200
	50	.50pF	±0.25pF	311-1094-1-ND	.86	5.07	14.63	311-1094-2-ND	4,000	14.04/M	0805CG508C9B200
	50	6.0pF	±0.5pF	311-1095-1-ND	.81	4.81	13.88	311-1095-2-ND	4,000	13.32/M	0805CG609D9B200
	50	7.0pF	±0.5pF	311-1096-1-ND	.81	4.81	13.88	311-1096-2-ND	4,000	13.32/M	0805CG709D9B200
	50	8.0pF	±0.5pF	311-1097-1-ND	.81	4.81	13.88	311-1097-2-ND	4,000	13.32/M	0805CG809D9B200
	50	9.0pF	±0.5pF	311-1098-1-ND	.81	4.81	13.88	311-1098-2-ND	4,000	13.32/M	0805CG909D9B200
	50	10pF	±5%	311-1099-1-ND	.66	3.90	11.25	311-1099-2-ND	4,000	10.80/M	0805CG100J9B200
	50	12pF	±5%	311-1100-1-ND	.75	4.42	12.75	311-1100-2-ND	4,000	12.24/M	0805CG120J9B200
	50	15pF	±5%	311-1101-1-ND	.75	4.42	12.75	311-1101-2-ND	4,000	12.24/M	0805CG150J9B200
	50	18pF	±5%	311-1102-1-ND	.75	4.42	12.75	311-1102-2-ND	4,000	12.24/M	0805CG180J9B200
	50	22pF	±5%	311-1103-1-ND	.67	3.97	11.44	311-1103-2-ND	4,000	10.98/M	0805CG220J9B200
	50	27pF	±5%	311-1104-1-ND	.75	4.42	12.75	311-1104-2-ND	4,000	12.24/M	0805CG270J9B200
NP0	50	33pF	±5%	311-1105-1-ND	.76	4.49	12.94	311-1105-2-ND	4,000	12.42/M	0805CG330J9B200
	50	39pF	±5%	311-1106-1-ND	.77	4.55	13.13	311-1106-2-ND	4,000	12.60/M	0805CG390J9B200
	50	47pF	±5%	311-1107-1-ND	.78	4.62	13.31	311-1107-2-ND	4,000	12.78/M	0805CG470J9B200
	50	56pF	±5%	311-1108-1-ND	.81	4.81	13.88	311-1108-2-ND	4,000	13.32/M	0805CG560J9B200
	50	68pF	±5%	311-1109-1-ND	.83	4.88	14.06	311-1109-2-ND	4,000	13.50/M	0805CG680J9B200
	50	82pF	±5%	311-1110-1-ND	.99	5.85	16.88	311-1110-2-ND	4,000	16.20/M	0805CG820J9B200
	50	100pF	±5%	311-1111-1-ND	.95	5.62	16.20	311-1111-2-ND	4,000	15.56/M	0805CG101J9B200
	50	120pF	±5%	311-1112-1-ND	.97	5.72	16.50	311-1112-2-ND	4,000	15.84/M	0805CG121J9B200
	50	150pF	±5%	311-1113-1-ND	.97	5.72	16.50	311-1113-2-ND	4,000	15.84/M	0805CG151J9B200
	50	180pF	±5%	311-1114-1-ND	.99	5.85	16.88	311-1114-2-ND	4,000	16.20/M	0805CG181J9B200
	50	220pF	±5%	311-1115-1-ND	.99	5.85	16.88	311-1115-2-ND	4,000	16.20/M	0805CG221J9B200
	50	270pF	±5%	311-1116-1-ND	.76	4.59	15.12	311-1116-2-ND	4,000	16.20/M	0805CG271J9B200
	50	330pF	±5%	311-1117-1-ND	1.01	5.98	17.25	311-1117-2-ND	4,000	16.56/M	0805CG331J9B200
	50	390pF	±5%	311-1118-1-ND	.70	4.25	14.00	311-1118-2-ND	4,000	15.00/M	0805CG391J9B200
	50	470pF	±5%	311-1119-1-ND	.77	4.68	15.40	311-1119-2-ND	4,000	16.50/M	0805CG471J9B200
	50	560pF	±5%	311-1120-1-ND	.84	5.10	16.80	311-1120-2-ND	4,000	18.00/M	0805CG561J9B200
	50	680pF	±5%	311-1121-1-ND	.92	5.61	18.48	311-1121-2-ND	4,000	19.80/M	0805CG681J9B200
	50	1000pF	±5%	311-1122-1-ND	1.05	6.38	21.00	311-1122-2-ND	4,000	22.50/M	0805CG102J9B200
	50	220pF	±10%	311-1123-1-ND	.61	3.58	10.31	311-1123-2-ND	4,000	9.90/M	08052R221K9B20D
	50	270pF	±10%	311-1191-1-ND	.77	4.55	13.13	311-1191-2-ND	4,000	12.60/M	08052R271K9B20D
	50	330pF	±10%	311-1192-1-ND	.77	4.55	13.13	311-1192-2-ND	4,000	12.60/M	08052R331K9B20D
	50	390pF	±10%	311-1193-1-ND	.77	4.55	13.13	311-1193-2-ND	4,000	12.60/M	08052R391K9B20D
	50	470pF	±10%	311-1124-1-ND	.64	3.77	10.88	311-1124-2-ND	4,000	10.44/M	08052R471K9B20D
	50	560pF	±10%	311-1125-1-ND	.64	3.77	10.88	311-1125-2-ND	4,000	10.44/M	08052R561K9B20D
	50	680pF	±10%	311-1126-1-ND	.64	3.77	10.88	311-1126-2-ND	4,000	10.44/M	08052R681K9B20D
X7R	50	820pF	±10%	311-1194-1-ND	.77	4.55	13.13	311-1194-2-ND	4,000	12.60/M	08052R821K9B20D
	50	1000pF	±10%	311-1127-1-ND	.64	3.77	10.88	311-1127-2-ND	4,000	10.44/M	08052R102K9B20D
	50	1500pF	±10%	311-1128-1-ND	.64	3.77	10.88	311-1128-2-ND	4,000	10.44/M	08052R152K9B20D
	50	2200pF	±10%	311-1129-1-ND	.61	3.58	10.31	311-1129-2-ND	4,000	9.90/M	08052R222K9B20D
	50	2700pF	±10%	311-1130-1-ND	.61	3.58	10.31	311-1130-2-ND	4,000	9.90/M	08052R272K9B20D
	50	3300pF	±10%	311-1131-1-ND	.64	3.77	10.88	311-1131-2-ND	4,000	10.44/M	08052R332K9B20D
	50	3900pF	±10%	311-1132-1-ND	.64	3.77	10.88	311-1132-2-ND	4,000	10.44/M	08052R392K9B20D
	50	4700pF	±10%	311-1133-1-ND	.64	3.77	10.88	311-1133-2-ND	4,000	10.44/M	08052R472K9B20D

(Continued)

Case Size	Type	WV DC	Capacitance	Tolerance	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Digi-Key Part No.	Tape & Reel Size	Pricing	Yageo Part No.
0805	X7R	50	5600pF	±10%	311-1134-1-ND	.64	3.77	10.88	311-1134-2-ND	4,000	10.44/M	08052R562K9B20
		50	6800pF	±10%	311-1135-1-ND	.57	3.38	9.75	311-1135-2-ND	4,000	9.36/M	08052R682K9B20
		50	10000pF	±10%	311-1136-1-ND	.66	3.90	11.25	311-1136-2-ND	4,000	10.80/M	C08052KRX7R9B
		50	18000pF	±10%	311-1137-1-ND	.66	3.90	11.25	311-1137-2-ND	4,000	10.80/M	08052R183K9B20
		50	22000pF	±10%	311-1138-1-ND	.77	4.55	13.13	311-1138-2-ND	4,000	12.60/M	08052R223K9B20
		50	27000pF	±10%	311-1139-1-ND	.83	4.88	14.06	311-1139-2-ND	4,000	13.50/M	08052R273K9B20
		50	.10µF	±10%	311-1140-1-ND	.91	5.53	18.20	311-1140-2-ND	4,000	19.50/M	08052R104K9B20
		25	.10µF	±10%	311-1141-1-ND	.69	4.21	13.86	311-1141-2-ND	4,000	14.85/M	08052R104K8B20
		16	.10µF	±10%	311-1142-1-ND	.82	4.97	16.38	311-1142-2-ND	4,000	17.55/M	08052R104K7B20
		50	15000pF	±10%	311-1143-1-ND	.66	3.90	11.25	311-1143-2-ND	4,000	10.80/M	08052R153K9B20
	Y5V	10	3.3µF	±20%-+80%	311-1190-1-ND	1.75	11.78	39.90	311-1190-2-ND	3,000	51.30/M	08052F335Z6BB0
1206	NP0	50	.5pF	±0.25pF	311-1145-1-ND	.98	5.95	19.60	311-1145-2-ND	4,000	21.00/M	1206CG508C9B2
		50	1pF	±0.25pF	311-1212-1-ND	.92	6.20	21.00	311-1212-2-ND	4,000	27.00/M	1206CG109C9B2
		50	1.5pF	±0.25pF	311-1214-1-ND	.92	6.20	21.00	311-1214-2-ND	4,000	27.00/M	1206CG159C9B2
		50	1.8pF	±0.25pF	311-1215-1-ND	.92	6.20	21.00	311-1215-2-ND	4,000	27.00/M	1206CG189C9B2
		50	2.2pF	±0.25pF	311-1146-1-ND	.95	5.78	19.04	311-1146-2-ND	4,000	20.40/M	1206CG229C9B2
		50	2.7pF	±0.25pF	311-1216-1-ND	.92	6.20	21.00	311-1216-2-ND	4,000	27.00/M	1206CG279C9B2
		50	3.3pF	±0.25pF	311-1147-1-ND	.95	5.74	18.90	311-1147-2-ND	4,000	20.25/M	1206CG339C9B2
		50	3.9pF	±0.25pF	311-1217-1-ND	.92	6.20	21.00	311-1217-2-ND	4,000	27.00/M	1206CG399C9B2
		50	4.7pF	±0.25pF	311-1218-1-ND	.92	6.20	21.00	311-1218-2-ND	4,000	27.00/M	1206CG479C9B2
		50	5.1pF	±0.25pF	311-1148-1-ND	1.02	6.16	20.30	311-1148-2-ND	4,000	21.75/M	1206CG519C9B2
		50	5.6pF	±0.25pF	311-1149-1-ND	.95	5.74	18.90	311-1149-2-ND	4,000	20.25/M	1206CG569C9B2
		50	6.8pF	±0.5pF	311-1220-1-ND	.92	6.20	21.00	311-1220-2-ND	4,000	27.00/M	1206CG689D9B2
		50	7.5pF	±0.5pF	311-1221-1-ND	.83	5.58	18.90	311-1221-2-ND	4,000	24.30/M	1206CG759D9B2
		50	8.2pF	±0.5pF	311-1222-1-ND	.92	6.20	21.00	311-1222-2-ND	4,000	27.00/M	1206CG829D9B2
		50	9.1pF	±0.5pF	311-1223-1-ND	1.15	7.75	26.25	311-1223-2-ND	4,000	33.75/M	1206CG919D9B2
		50	10pF	±5%	311-1150-1-ND	.90	5.48	18.06	311-1150-2-ND	4,000	19.35/M	1206CG100J9B2
		50	12pF	±5%	311-1213-1-ND	1.33	8.08	26.60	311-1213-2-ND	4,000	28.50/M	1206CG120J9B2
		50	15pF	±5%	311-1151-1-ND	.90	5.48	18.06	311-1151-2-ND	4,000	19.35/M	1206CG150J9B2
		50	18pF	±5%	311-1152-1-ND	.90	5.48	18.06	311-1152-2-ND	4,000	19.35/M	1206CG180J9B2
		50	20pF	±5%	311-1153-1-ND	.95	5.74	18.90	311-1153-2-ND	4,000	20.25/M	1206CG200J9B2
		50	22pF	±5%	311-1154-1-ND	.90	5.48	18.06	311-1154-2-ND	4,000	19.35/M	1206CG220J9B2
		50	27pF	±5%	311-1155-1-ND	.90	5.48	18.06	311-1155-2-ND	4,000	19.35/M	1206CG270J9B2
		50	33pF	±5%	311-1156-1-ND	.90	5.48	18.06	311-1156-2-ND	4,000	19.35/M	1206CG330J9B2
		50	39pF	±5%	311-1157-1-ND	.98	5.95	19.60	311-1157-2-ND	4,000	21.00/M	1206CG390J9B2
		50	47pF	±5%	311-1158-1-ND	.98	5.95	19.60	311-1158-2-ND	4,000	21.00/M	1206CG470J9B2
		50	51pF	±5%	311-1219-1-ND	1.56	10.54	35.70	311-1219-2-ND	4,000	45.90/M	1206CG510J9B2
		50	56pF	±5%	311-1159-1-ND	1.05	6.38	21.00	311-1159-2-ND	4,000	22.50/M	1206CG560J9B2
		50	68pF	±5%	311-1160-1-ND	1.12	6.80	22.40	311-1160-2-ND	4,000	24.00/M	1206CG680J9B2
		50	100pF	±5%	311-1161-1-ND	1.05	6.38	21.00	311-1161-2-ND	4,000	22.50/M	1206CG101J9B2
		50	120pF	±5%	311-1162-1-ND	1.12	6.80	22.40	311-1162-2-ND	4,000	24.00/M	1206CG121J9B2
		50	1000pF	±5%	311-1163-1-ND	1.10	7.44	25.20	311-1163-2-ND	4,000	32.40/M	1206CG102J9B2
		1KV	1000pF	±10%	311-1144-1-ND	1.99	14.20	51.12	311-1144-2-ND	3,000	73.84/M	12062R102KEBE
		50	220pF	±10%	311-1164-1-ND	.90	5.48	18.06	311-1164-2-ND	4,000	19.35/M	12062R221K9B2
		50	270pF	±10%	311-1165-1-ND	.90	5.48	18.06	311-1165-2-ND	4,000	19.35/M	12062R271K9B2
		50	330pF	±10%	311-1166-1-ND	.90	5.48	18.06	311-1166-2-ND	4,000	19.35/M	12062R331K9B2
		50	390pF	±10%	311-1205-1-ND	.98	5.95	19.60	311-1205-2-ND	4,000	21.00/M	12062R391K9B2
		50	470pF	±10%	311-1167-1-ND	.84	5.10	16.80	311-1167-2-ND	4,000	18.00/M	12062R471K9B2
		50	560pF	±10%	311-1168-1-ND	.84	5.10	16.80	311-1168-2-ND	4,000	18.00/M	12062R561K9B2
		50	680pF	±10%	311-1169-1-ND	.84	5.10	16.80	311-1169-2-ND	4,000	18.00/M	12062R681K9B2
		50	820pF	±10%	311-1210-1-ND	.95	5.74	18.90	311-1210-2-ND	4,000	20.25/M	12062R821K9B2
		50	1000pF	±10%	311-1170-1-ND	.84	5.10	16.80	311-1170-2-ND	4,000	18.00/M	12062R102K9B2
		50	1200pF	±10%	311-1197-1-ND	.98	5.95	19.60	311-1197-2-ND	4,000	21.00/M	12062R122K9B2
		50	1500pF	±10%	311-1200-1-ND	.98	5.95	19.60	311-1200-2-ND	4,000	21.00/M	12062R152K9B2
		50	1800pF	±10%	311-1201-1-ND	.98	5.95	19.60	311-1201-2-ND	4,000	21.00/M	12062R182K9B2
		50	2200pF	±10%	311-1171-1-ND	.90	5.48	18.06	311-1171-2-ND	4,000	19.35/M	12062R222K9B2
		50	2700pF	±10%	311-1203-1-ND	.98	5.95	19.60	311-1203-2-ND	4,000	21.00/M	12062R272K9B2
		50	3300pF	±10%	311-1172-1-ND	.90	5.48	18.06	311-1172-2-ND	4,000	19.35/M	12062R332K9B2
		50	3900pF	±10%	311-1206-1-ND	.98	5.95	19.60	311-1206-2-ND	4,000	21.00/M	12062R392K9B2
	X7R	50	4700pF	±10%	311-1173-1-ND	.84	5.10	16.80	311-1173-2-ND	4,000	18.00/M	12062R472K9B2
		50	5600pF	±10%	311-1208-1-ND	1.05	6.38	21.00	311-1208-2-ND	4,000	22.50/M	12062R562K9B2
		50	6800pF	±10%	311-1209-1-ND	1.05	6.38	21.00	311-1209-2-ND	4,000	22.50/M	12062R682K9B2
		50	8200pF	±10%	311-1211-1-ND	1.12	6.80	22.40	311-1211-2-ND	4,000	24.00/M	12062R822K9B2
		50	10000pF	±10%	311-1174-1-ND	.84	5.10	16.80	311-1174-2-ND	4,000	18.00/M	12062R103K9B2
		50	12000pF	±10%	311-1198-1-ND	1.33	8.08	26.60	311-1198-2-ND	4,000	28.50/M	12062R123K9B2
		50	15000pF	±10%	311-1175-1-ND	.90	5.48	18.06	311-1175-2-ND	4,000	19.35/M	12062R153K9B2
		50	18000pF	±10%	311-1202-1-ND	1.33	8.08	26.60	311-1202-2-ND	4,000	28.50/M	12062R183K9B2
		50	22000pF	±10%	311-1176-1-ND	.97	5.91	19.46	311-1176-2-ND	4,000	20.85/M	12062R223K9B2
		50	27000pF	±10%	311-1204-1-ND	.92	6.20	21.00	311-1204-2-ND	4,000	27.00/M	12062R273K9B2
		50	33000pF	±10%	311-1177-1-ND	.90	5.48	18.06	311-1177-2-ND	4,000	19.35/M	12062R333K9B2
		50	39000pF	±10%	311-1207-1-ND	.92	6.20	21.00	311-1207-2-ND	4,000	27.00/M	12062R393K9B2
		50	47000pF	±10%	311-1178-1-ND	1.04	6.33	20.86	311-1178-2-ND	4,000	22.35/M	12062R473K9B2
		50	.10µF	±10%	311-1179-1-ND	.98	5.95	19.60	311-1179-2-ND	4,000	21.00/M	12062R104K9B2
		25	.33µF	±10%	311-1180-1-ND	2.30	16.23	56.05	311-1180-2-ND	3,000	76.70/M	12062R334K8BE
		16	1.0µF	±10%	311-1181-1-ND	2.45	17.50	63.00	311-1181-2-ND	3,000	91.00/M	12062R105K7BE
		10	1.2µF	±10%	311-1199-1-ND	3.08	22.00	79.20	311-1199-2-ND	4,000	114.40/M	12062R125K6B2
	Y5V	16	3.3µF	±20%+80%	311-1196-1-ND	1.75	11.78	39.90	311-1196-2-ND	3,000	51.30/M	12062F335Z7BE
1812	NP0	3KV	220pF	±5%	311-1182-1-ND	6.08	44.65	161.50	311-1182-2-ND	1,500	247.00/M	1812CG221JGB
	X7R	1KV	1000pF	±10%	311-1183-1-ND	4.42	32.43	117.30	311-1183-2-ND	1,000	179.40	18122R102KEB

Ceramic Trimmer Capacitors – TZ03 Series

Dim. in mm

Electronics

oded case facilitates identification of capacitance
ealed construction prevents the penetration of flux
. Cross shaped slot enables automatic adjustment.

ations:
ion Resistance: 10,000M ohm min.
: 2.0-15.0mNm
ng Temperature Range: -25°C to 85°C

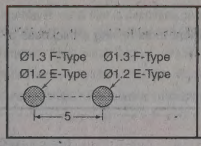
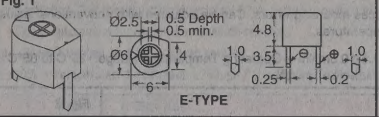
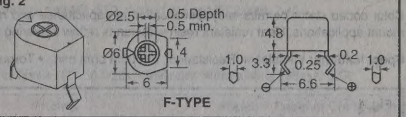


Fig. 1



E-TYPE

Fig. 2



F-TYPE

C min. (pF) max.	C max. (pF)	TC	Q	Rated Voltage	With-standing Voltage	Stator/ Case Color	Digi-Key Part No.	Price Each 1	10	100	Murata Part No.
1.25	2.3 + 50/-0%	NPO ± 200ppm/°C	300 min. @ 1MHz, Cmax.	100Vdc	220Vdc	Black	490-1972-ND	.38	.33	.30	TZ03Z2R3E169B00
1.5	5.0 + 50/-0%	NPO ± 200ppm/°C	500 min. @ 1MHz, Cmax.	100Vdc	220Vdc	Blue	490-1966-ND	.38	.33	.30	TZ03Z050E169B00
2.0	7.0 + 50/-0%	NPO ± 200ppm/°C	500 min. @ 1MHz, Cmax.	100Vdc	220Vdc	Blue	490-1968-ND	.38	.33	.30	TZ03Z070E169B00
2.7	10.0 + 50/-0%	NPO ± 200ppm/°C	500 min. @ 1MHz, Cmax.	100Vdc	220Vdc	Blue	490-1970-ND	.38	.33	.30	TZ03Z100E169B00
3.0	11.0 + 50/-0%	N450 ± 300ppm/°C	500 min. @ 1MHz, Cmax.	100Vdc	220Vdc	White	490-1964-ND	.38	.33	.30	TZ03T110E169B00
4.2	20.0 + 50/-0%	N750 ± 300ppm/°C	500 min. @ 1MHz, Cmax.	100Vdc	220Vdc	Red	490-1958-ND	.38	.33	.30	TZ03R200E169B00
5.2	30.0 + 50/-0%	N750 ± 300ppm/°C	500 min. @ 1MHz, Cmax.	100Vdc	220Vdc	Green	490-1960-ND	.38	.33	.30	TZ03R300E169B00
6.8	45.0 + 50/-0%	N1200 ± 500ppm/°C	300 min. @ 1MHz, Cmax.	100Vdc	220Vdc	Yellow	490-1952-ND	.38	.33	.30	TZ03P450E169B00
9.8	60.0 + 50/-0%	N1200 ± 500ppm/°C	300 min. @ 1MHz, Cmax.	100Vdc	220Vdc	Brown	490-1954-ND	.38	.33	.30	TZ03P600E169B00
6.0	50.0 + 100/-0%	NPO ± 300ppm/°C	300 min. @ 1MHz, Cmax.	50Vdc	110Vdc	Orange	490-1974-ND	.93	.80	.74	TZ03Z500E169B00
9.0	90.0 + 100/-0%	N750 ± 300ppm/°C	300 min. @ 1MHz, Cmax.	50Vdc	110Vdc	Black+Dot	490-1962-ND	.93	.80	.74	TZ03R900E169B00
10.0	120.0 + 100/-0%	N750 ± 300ppm/°C	300 min. @ 1MHz, Cmax.	50Vdc	110Vdc	Black	490-1956-ND	.93	.80	.74	TZ03R121E169B00
1.25	2.3 + 50/-0%	NPO ± 200ppm/°C	300 min. @ 1MHz, Cmax.	100Vdc	220Vdc	Black	490-1973-ND	.38	.33	.30	TZ03Z2R3F169B00
1.5	5.0 + 50/-0%	NPO ± 200ppm/°C	500 min. @ 1MHz, Cmax.	100Vdc	220Vdc	Blue	490-1967-ND	.38	.33	.30	TZ03Z050F169B00
2.0	7.0 + 50/-0%	NPO ± 200ppm/°C	500 min. @ 1MHz, Cmax.	100Vdc	220Vdc	Blue	490-1969-ND	.38	.33	.30	TZ03Z070F169B00
2.7	10.0 + 50/-0%	NPO ± 200ppm/°C	500 min. @ 1MHz, Cmax.	100Vdc	220Vdc	Blue	490-1971-ND	.38	.33	.30	TZ03Z100F169B00
3.0	11.0 + 50/-0%	N450 ± 300ppm/°C	500 min. @ 1MHz, Cmax.	100Vdc	220Vdc	White	490-1965-ND	.38	.33	.30	TZ03T110F169B00
4.2	20.0 + 50/-0%	N750 ± 300ppm/°C	500 min. @ 1MHz, Cmax.	100Vdc	220Vdc	Red	490-1959-ND	.38	.33	.30	TZ03R200F169B00
5.2	30.0 + 50/-0%	N750 ± 300ppm/°C	500 min. @ 1MHz, Cmax.	100Vdc	220Vdc	Green	490-1961-ND	.38	.33	.30	TZ03R300F169B00
6.8	45.0 + 50/-0%	N1200 ± 500ppm/°C	300 min. @ 1MHz, Cmax.	100Vdc	220Vdc	Yellow	490-1953-ND	.38	.33	.30	TZ03P450F169B00
9.8	60.0 + 50/-0%	N1200 ± 500ppm/°C	300 min. @ 1MHz, Cmax.	100Vdc	220Vdc	Brown	490-1955-ND	.38	.33	.30	TZ03P600F169B00
6.0	50.0 + 100/-0%	NPO ± 300ppm/°C	300 min. @ 1MHz, Cmax.	50Vdc	110Vdc	Orange	490-1975-ND	.93	.80	.74	TZ03Z500F169B00
9.0	90.0 + 100/-0%	N750 ± 300ppm/°C	300 min. @ 1MHz, Cmax.	50Vdc	110Vdc	Black+Dot	490-1963-ND	.93	.80	.74	TZ03R900F169B00
10.0	120.0 + 100/-0%	N750 ± 300ppm/°C	300 min. @ 1MHz, Cmax.	50Vdc	110Vdc	Black	490-1957-ND	.93	.80	.74	TZ03R121F169B00
Tuning Tool for Manual Adjustment							490-2607-ND	6.27	—	—	KMDR010

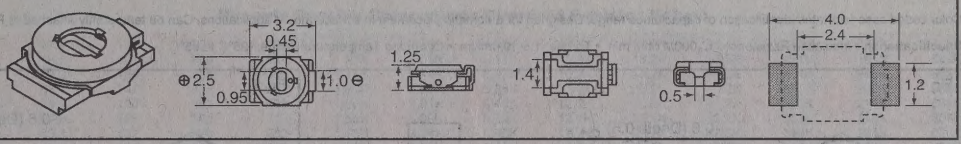
E

ID Ceramic Trimmer Capacitors – TZY2 Series

Dim. in mm

pe of cover can improve the flux invasion compared
rent products. Improvement of the adhesion between
d stator leads superior stability. Unique construction
plastic material provides superior soldering heat
ce to maintain excellent characteristic performance
ow soldering.

ations:
ion Resistance: 10,000M ohm min. • Torque: 0.5-
• Operating Temperature Range: -25°C to 85°C



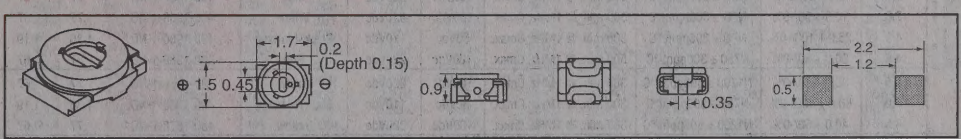
min.) max.	C max. (pF)	TC	Q	Rated Voltage	With-standing Voltage	Digi-Key Part No.	Price Each 5	25	100	Digi-Key Part No.	Tape & Reel Pricing 2,000	Murata Part No.
0.5	1.0 + 100/-0%	NPO ± 300ppm/°C	200 min. @ 200MHz, Cmax.	25Vdc	55Vdc	490-2009-1-ND	.89	.78	.62	490-2009-2-ND	333.75/M	TZY2Z010A001R00
.65	2.5 + 100/-0%	NPO ± 300ppm/°C	200 min. @ 200MHz, Cmax.	25Vdc	55Vdc	490-2008-1-ND	.69	.60	.47	490-2008-2-ND	255.45/M	TZY2Z2R5A001R00
1.5	3.0 + 100/-0%	NPO ± 300ppm/°C	300 min. @ 1MHz, Cmax.	25Vdc	55Vdc	490-2005-1-ND	.69	.60	.47	490-2005-2-ND	255.45/M	TZY2Z030A001R00
2.5	6.0 + 100/-0%	NPO ± 300ppm/°C	500 min. @ 1MHz, Cmax.	25Vdc	55Vdc	490-2006-1-ND	.69	.60	.47	490-2006-2-ND	255.45/M	TZY2Z060A001R00
3.0	10.0 + 100/-0%	NPO ± 300ppm/°C	500 min. @ 1MHz, Cmax.	25Vdc	55Vdc	490-2007-1-ND	.69	.60	.47	490-2007-2-ND	255.45/M	TZY2Z100A001R00
4.5	20.0 + 100/-0%	N750 ± 500ppm/°C	500 min. @ 1MHz, Cmax.	25Vdc	55Vdc	490-2003-1-ND	.69	.60	.47	490-2003-2-ND	255.45/M	TZY2R200A001R00
5.5	25.0 + 100/-0%	N750 ± 500ppm/°C	500 min. @ 1MHz, Cmax.	25Vdc	55Vdc	490-2004-1-ND	.69	.60	.47	490-2004-2-ND	255.45/M	TZY2R250A001R00
8.0	45.0 + 100/-0%	N1000 ± 500ppm/°C	300 min. @ 1MHz, Cmax.	25Vdc	55Vdc	490-2002-1-ND	.83	.73	.58	490-2002-2-ND	311.55/M	TZY2K450A001R00
ning Tool for Manual Adjustment						490-2608-ND		16.02/1		—	—	KMDR060

ID Ceramic Trimmer Capacitors – TZR1 Series

Dim. in mm

construction with no plastic material provides superior
g heat resistance to maintain excellent characteristic
nce after reflow soldering. Harmful materials (lead, etc.)
ontained in the product.

ations:
tion Resistance: 10,000M ohm min. • Torque: 0.1-
• Operating Temperature Range: -25°C to 85°C



in. max.	C max. (pF)	TC	Q	Rated Voltage	With-standing Voltage	Digi-Key Part No.	Price Each 5	25	100	Digi-Key Part No.	Tape & Reel Size	Pricing	Murata Part No.
55	1.0 + 100/-0%	NPO ± 300ppm/°C	200 min. @ 200MHz, Cmax.	25Vdc	55Vdc	490-2012-1-ND	2.12	1.86	1.46	490-2012-2-ND	3,000	795.30/M	TZR1Z010A001R00
.7	1.5 + 100/-0%	NPO ± 300ppm/°C	200 min. @ 200MHz, Cmax.	25Vdc	55Vdc	490-2013-1-ND	2.12	1.86	1.46	490-2013-2-ND	3,000	795.30/M	TZR1Z1R5A001R00
.5	4.0 + 100/-0%	NPO ± 500ppm/°C	300 min. @ 1MHz, Cmax.	25Vdc	55Vdc	490-2010-1-ND	1.44	1.27	1.00	490-2010-2-ND	3,000	540.15/M	TZR1Z040A001R00
.0	8.0 + 100/-0%	N750 ± 500ppm/°C	300 min. @ 1MHz, Cmax.	25Vdc	55Vdc	490-2011-1-ND	1.44	1.27	1.00	490-2011-2-ND	3,000	540.15/M	TZR1R080A001R00
ning Tool for Manual Adjustment						490-2609-ND		27.16/1		—	—	—	KMDR160

SMD Ceramic Trimmer Capacitors – TZC3 Series

Color coded stator permits easy identification of capacitance and reduces mounting errors. Can be adjusted with conventional adjustment tools having a thickness of 0.5mm. Designed for automatic placement in surface mount applications. Heat resistant resin withstands reflow soldering temperatures.

Specifications: • Insulation Resistance: 10,000M ohm min. • Torque: 1.5-10.0mNm • Operating Temperature Range: -25°C to 85°C

Dim.

Fig. 1

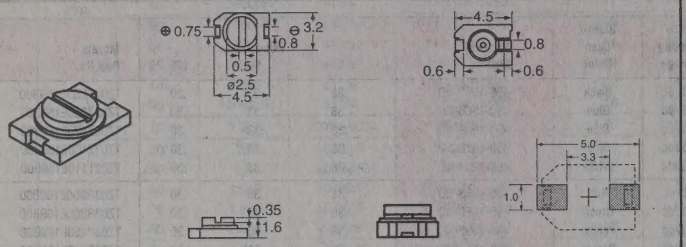


Fig. 2

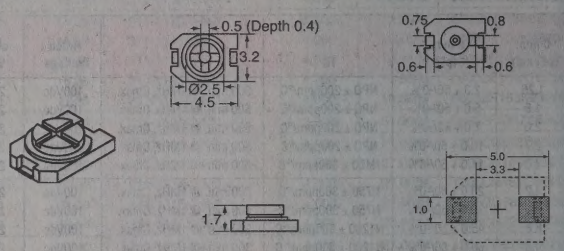


Fig.	C min. (pF) max.	C max. (pF)	TC	Q	Rated Voltage	With-standing Voltage	Stator/ Case Color	Digi-Key Part No.	Price Each 5	25	100	Digi-Key Part No.	Tape & Reel Pricing 1,000	Murata Part No.
1	1.4	3.0 ± 50/-0%	NPO ± 300ppm/°C	300 min. @ 1MHz, Cmax.	100Vdc	220Vdc	Brown	490-1998-1-ND	.64	.56	.44	490-1998-2-ND	238.95	TZC3Z030A11
	2.0	6.0 ± 50/-0%	NPO ± 300ppm/°C	500 min. @ 1MHz, Cmax.	100Vdc	220Vdc	Blue	490-2000-1-ND	.64	.56	.44	490-2000-2-ND	238.95	TZC3Z060A11
	3.0	10.0 ± 50/-0%	N750 ± 300ppm/°C	500 min. @ 1MHz, Cmax.	100Vdc	220Vdc	White	490-1996-1-ND	.64	.56	.44	490-1996-2-ND	238.95	TZC3R100A11
	5.0	20.0 ± 50/-0%	N1200 ± 500ppm/°C	300 min. @ 1MHz, Cmax.	100Vdc	220Vdc	Red	490-1992-1-ND	.64	.56	.44	490-1992-2-ND	238.95	TZC3P200A11
	6.5	30.0 ± 50/-0%	N1200 ± 500ppm/°C	300 min. @ 1MHz, Cmax.	100Vdc	220Vdc	Green	490-1994-1-ND	.64	.56	.44	490-1994-2-ND	238.95	TZC3P300A11
2	1.4	3.0 ± 50/-0%	NPO ± 300ppm/°C	300 min. @ 1MHz, Cmax.	100Vdc	220Vdc	Brown	490-1999-1-ND	.64	.56	.44	490-1999-2-ND	238.95	TZC3Z030A31
	2.0	6.0 ± 50/-0%	NPO ± 300ppm/°C	500 min. @ 1MHz, Cmax.	100Vdc	220Vdc	Blue	490-2001-1-ND	.64	.56	.44	490-2001-2-ND	238.95	TZC3Z060A31
	3.0	10.0 ± 50/-0%	N750 ± 300ppm/°C	500 min. @ 1MHz, Cmax.	100Vdc	220Vdc	White	490-1997-1-ND	.64	.56	.44	490-1997-2-ND	238.95	TZC3R100A31
	5.0	20.0 ± 50/-0%	N1200 ± 500ppm/°C	300 min. @ 1MHz, Cmax.	100Vdc	220Vdc	Red	490-1993-1-ND	.64	.56	.44	490-1993-2-ND	238.95	TZC3P200A31
	6.5	30.0 ± 50/-0%	N1200 ± 500ppm/°C	300 min. @ 1MHz, Cmax.	100Vdc	220Vdc	Green	490-1995-1-ND	.64	.56	.44	490-1995-2-ND	238.95	TZC3P300A31
—	Tuning Tool for Manual Adjustment							490-2607-ND		6.27/1		—	—	KMDR010

SMD Ceramic Trimmer Capacitors – TZB4 Series

Color coded case facilitates identification of capacitance range. Designed for automatic placement in surface mount applications. Can be temporarily attached to PCB with adhesives.

Specifications: • Insulation Resistance: 10,000M ohm min • Torque: 1.5-10.0mNm • Operating Temperature Range: -25°C to 85°C

Dim

Fig. 1

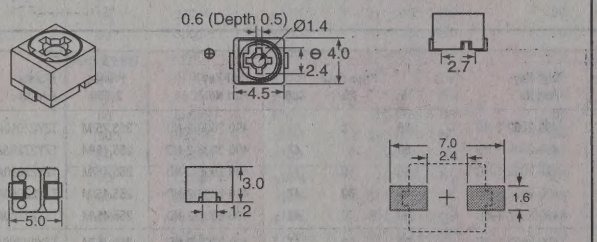


Fig. 2

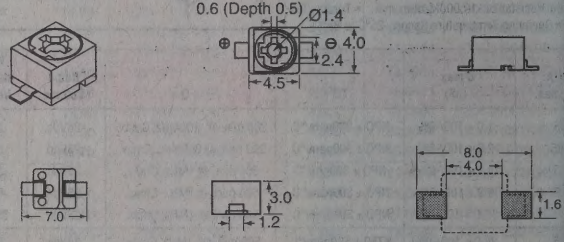


Fig.	C min. (pF) max.	C max. (pF)	TC	Q	Rated Voltage	With-standing Voltage	Stator/ Case Color	Digi-Key Part No.	Price Each 5	25	100	Digi-Key Part No.	Tape & Reel Pricing 500	Murata Part No.
1	1.4	3.0 + 50/-0%	NPO ± 200ppm/°C	300 min. @ 1MHz, Cmax.	100Vdc	220Vdc	Brown	490-1984-1-ND	.77	.67	.53	490-1984-2-ND	158.70	TZB4Z030AA1
	2.0	6.0 + 50/-0%	NPO ± 200ppm/°C	500 min. @ 1MHz, Cmax.	100Vdc	220Vdc	Blue	490-1986-1-ND	.77	.67	.53	490-1986-2-ND	158.70	TZB4Z060AA1
	3.0	10.0 + 50/-0%	NPO ± 300ppm/°C	500 min. @ 1MHz, Cmax.	100Vdc	220Vdc	White	490-1988-1-ND	.77	.67	.53	490-1988-2-ND	158.70	TZB4Z100AA1
	4.0	25.0 + 100/-0%	NPO ± 300ppm/°C	300 min. @ 1MHz, Cmax.	50Vdc	110Vdc	Black+Marking	490-1990-1-ND	1.36	1.19	.94	490-1990-2-ND	281.37	TZB4Z250AA1
	4.5	20.0 + 50/-0%	N750 ± 300ppm/°C	500 min. @ 1MHz, Cmax.	100Vdc	220Vdc	Red	490-1980-1-ND	.77	.67	.53	490-1980-2-ND	158.70	TZB4R200AA1
	6.5	30.0 + 50/-0%	N1200 ± 500ppm/°C	300 min. @ 1MHz, Cmax.	100Vdc	220Vdc	Green	490-1976-1-ND	.77	.67	.53	490-1976-2-ND	158.70	TZB4P300AA1
	7.0	50.0 + 100/-0%	N750 ± 300ppm/°C	300 min. @ 1MHz, Cmax.	50Vdc	110Vdc	Black+Marking	490-1982-1-ND	1.36	1.19	.94	490-1982-2-ND	281.37	TZB4R500AA1
	8.5	40.0 + 50/-0%	N1200 ± 500ppm/°C	300 min. @ 1MHz, Cmax.	100Vdc	220Vdc	Yellow	490-1978-1-ND	.77	.67	.53	490-1978-2-ND	158.70	TZB4P400AA1
2	1.4	3.0 + 50/-0%	NPO ± 200ppm/°C	300 min. @ 1MHz, Cmax.	100Vdc	220Vdc	Brown	490-1985-1-ND	.77	.67	.53	490-1985-2-ND	158.70	TZB4Z030BA1
	2.0	6.0 + 50/-0%	NPO ± 200ppm/°C	500 min. @ 1MHz, Cmax.	100Vdc	220Vdc	Blue	490-1987-1-ND	.77	.67	.53	490-1987-2-ND	158.70	TZB4Z060BA1
	3.0	10.0 + 50/-0%	NPO ± 300ppm/°C	500 min. @ 1MHz, Cmax.	100Vdc	220Vdc	White	490-1989-1-ND	.77	.67	.53	490-1989-2-ND	158.70	TZB4Z100BA1
	4.0	25.0 + 100/-0%	NPO ± 300ppm/°C	300 min. @ 1MHz, Cmax.	50Vdc	110Vdc	Black+Marking	490-1991-1-ND	1.36	1.19	.94	490-1991-2-ND	281.37	TZB4Z250BA1
	4.5	20.0 + 50/-0%	N750 ± 300ppm/°C	500 min. @ 1MHz, Cmax.	100Vdc	220Vdc	Red	490-1981-1-ND	.77	.67	.53	490-1981-2-ND	158.70	TZB4R200BA1
	6.5	30.0 + 50/-0%	N1200 ± 500ppm/°C	300 min. @ 1MHz, Cmax.	100Vdc	220Vdc	Green	490-1977-1-ND	.77	.67	.53	490-1977-2-ND	158.70	TZB4P300BA1
	7.0	50.0 + 100/-0%	N750 ± 300ppm/°C	300 min. @ 1MHz, Cmax.	50Vdc	110Vdc	Black+Marking	490-1983-1-ND	1.36	1.19	.94	490-1983-2-ND	281.37	TZB4R500BA1
	8.5	40.0 + 50/-0%	N1200 ± 500ppm/°C	300 min. @ 1MHz, Cmax.	100Vdc	220Vdc	Yellow	490-1979-1-ND	.77	.67	.53	490-1979-2-ND	158.70	TZB4P400BA1
—	Tuning Tool for Manual Adjustment							490-2607-ND		6.27/1		—	—	KMDR010

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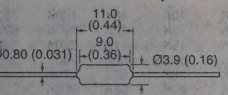
Phoenix
Passive Components



hoenix Passive Components Standard Resistor Values

60	1.20K	2.70K	5.60K
80	1.50K	3.30K	6.80K
20	1.80K	3.90K	8.20K
00K	2.20K	4.70K	10.0K

SR37 Type 10% Metal Film Surge Resistors — .50 Watt

A multilayer metal film is deposited on a high grade ceramic body. Tinned electrolytic copper wires are welded to the end caps. The resistors are coated with a blue non-flammable lacquer, which provides electrical, mechanical and climatic protection. The encapsulation is resistant to all cleaning solvents in accordance with MIL-STD, method 215 and IEC 60068-2-45.

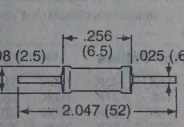
Features: • High Pulse-loading capability • Good replacement for carbon-composition resistors

Applications: Amplifiers, TV Sets, Monitors, Power Supplies, and Motor speed controls

Characteristics: • **Resistance Tolerance:** ±10% • **Temperature Coefficient:** ±250ppm/°C • **Maximum dissipation at TAMB = 70°:** .50 Watts • **Dielectric Withstanding Voltage:** 500V

Description	Value Range	Digi-Key Part No.	Pricing 5	200	1,000	5,000	10,000	Phoenix Passive Components Part No.
.50 Watt, 10% Metal Film Surge Resistor; Tape & Reel (5,000/Reel)	560 - 10.0KΩ	PPC(Value)LTR-ND	—	—	—	78.71/M	71.28/M	2306 245 33xxx
.50 Watt, 10% Metal Film Surge Resistor; Cut Tape	560 - 10.0KΩ	PPC(Value)LCT-ND	1.28	28.98	100.09	—	—	2306 245 33xxx

FR25 Type 1% Metal Film Fixed Resistors — .40 Watt 5043ED Series



mogeneous film of metal alloy is deposited on
h grade ceramic body. After a helical groove
been cut in the resistive layer, tinned
ecting wires of electrolytic copper are welded
e end-caps. The resistors are coated with non-
mable light green, lacquer, which provides
rical, mechanical and climatic protection. The
psulation is resistant to all cleaning solvents
cordance with "MIL-STD-202E, Method 215"
IEC 60068-2-45".

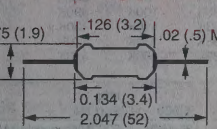
RACTERISTICS:
sistance Tolerance: ±1% • **Temperature Co-ient:** R≤1MΩ = ±100 ppm/°C, R>1MΩ = ppm/°C • **Absolute Maximum Dissipation at = 70°C:** 0.40W • **Thermal Resistance, RTH:** /W • **Maximum Continuous Operating Volt-** 250V (DC or RMS) • **Noise R ≤ 1 MΩ:** mum 0.1 µV/V • **Operating Temperature e:** -55°C to 155°C

Phoenix Passive Components Standard Resistor Values

10.0	39.2	88.7	210	430	787	1.43K	2.55K	4.53K	7.15K	13.3K	26.7K	45.3K	90.9K	232K	442K	1.50M
10.2	40.2	90.9	220	432	806	1.47K	2.67K	4.64K	7.32K	13.7K	27.4K	46.4K	97.6K	243K	464K	1.54M
11.0	43.2	95.3	221	442	825	1.50K	2.74K	4.75K	7.50K	14.0K	28.7K	47.5K	100K	249K	475K	1.58M
11.3	46.4	100	232	453	845	1.54K	2.87K	4.87K	7.68K	14.3K	29.4K	49.9K	110K	255K	499K	1.60M
11.5	47.5	105	237	475	866	1.58K	2.94K	4.99K	8.06K	15.0K	30.1K	51.1K	120K	270K	511K	1.62M
13.0	49.9	110	243	487	909	1.62K	3.01K	5.10K	8.25K	15.8K	30.9K	53.6K	121K	274K	562K	1.65M
15.0	51.1	118	249	499	931	1.69K	3.09K	5.11K	9.09K	16.2K	31.6K	54.9K	124K	280K	604K	1.78M
18.2	53.6	121	267	511	953	1.74K	3.16K	5.23K	9.53K	16.9K	32.4K	56.0K	127K	294K	619K	1.80M
19.1	56.2	124	274	536	1.00K	1.78K	3.24K	5.36K	9.76K	17.4K	33.2K	56.2K	130K	301K	634K	1.82M
20.0	57.6	127	280	562	1.05K	1.82K	3.32K	5.49K	10.0K	18.2K	34.0K	60.4K	140K	309K	681K	1.96M
21.5	60.4	133	294	590	1.07K	1.87K	3.48K	5.60K	10.2K	18.7K	34.8K	61.9K	150K	324K	715K	2.00M
22.1	61.9	140	301	604	1.10K	1.91K	3.57K	5.62K	10.7K	19.6K	35.7K	63.4K	165K	332K	750K	
23.2	62.0	150	324	619	1.15K	2.00K	3.65K	5.90K	11.0K	20.0K	36.0K	64.9K	169K	340K	1.00M	
24.3	63.4	158	332	649	1.18K	2.10K	3.74K	6.04K	11.3K	20.5K	37.4K	68.1K	182K	348K	1.05M	
24.9	68.1	169	340	665	1.21K	2.15K	3.83K	6.19K	11.5K	21.5K	38.3K	71.5K	191K	365K	1.10M	
26.1	69.8	178	348	681	1.24K	2.21K	3.92K	6.34K	11.8K	22.1K	39.2K	75.0K	196K	374K	1.15M	
27.4	75.0	182	374	698	1.27K	2.32K	4.02K	6.49K	12.1K	24.3K	40.2K	78.7K	200K	392K	1.21M	
33.2	80.6	196	392	715	1.30K	2.37K	4.22K	6.65K	12.4K	24.9K	41.2K	82.5K	210K	402K	1.30M	
34.8	82.0	200	402	750	1.33K	2.43K	4.32K	6.81K	12.7K	25.5K	42.2K	86.6K	221K	422K	1.43M	
36.5	82.5	205	422	768	1.40K	2.49K	4.42K	6.98K	13.0K	26.1K	43.2K	88.7K	226K	432K	1.47M	

Description	Value Range	Digi-Key Part No.	Pricing 5	200	1,000	5,000	10,000	Phoenix Passive Components Part No.
.40 Watt, 1% Metal Film Fixed Resistor; Tape & Reel (5,000/Reel)	10.0 - 2.00MΩ	PPC(Value)YTR-ND	—	—	—	19.88/M	16.96/M	5043EDxxxxxF12AF5
.40 Watt, 1% Metal Film Fixed Resistor; Cut Tape	10.0 - 2.00MΩ	PPC(Value)YCT-ND	.88	13.49	34.88	—	—	5043EDxxxxxF12AF5

FR16S Type 1% Metal Film Fixed Resistors — .50 Watt 5033ED Series



mogeneous film of metal alloy is deposited on a
grade ceramic body. After a helical groove has
cut in the resistive layer, tinned connecting
of electrolytic copper are welded to the end-
The resistors are coated with non-flammable
blue lacquer, which provides electrical, me-
cal and climatic protection. The encapsulation
sistant to all cleaning solvents in accordance
"MIL-STD-202E, Method 215" and "IEC 60068-

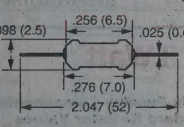
RACTERISTICS: • **Resistance Tolerance:** ±1% **mperature Coefficient:** R≤ 200KΩ = ppm/°C, R> 200KΩ = ±250ppm/°C • **Absolute mum Dissipation at TAMB = 70°C:** 0.50W • **Ther- Resistance, RTH:** 170K/W • **Maximum Con- us Operating Voltage:** 200V (DC or RMS) • **Oper- Temperature Range:** -55°C to 155°C

Phoenix Passive Components Standard Resistor Values

10.0	47.5	100	301	590	1.05K	2.49K	4.99K	9.76K	17.8K	35.7K	73.2K	182K	499K			
10.7	48.7	121	309	604	1.21K	2.55K	5.11K	10.0K	18.2K	36.5K	75.0K	191K	549K			
20.0	49.9	124	324	665	1.24K	2.74K	5.23K	10.2K	18.7K	39.2K	82.5K	200K	562K			
22.1	51.1	147	332	681	1.30K	2.80K	5.36K	11.0K	20.0K	40.2K	90.9K	220K	634K			
22.6	54.9	150	365	698	1.50K	3.01K	5.49K	12.1K	20.5K	41.2K	100K	221K	681K			
26.1	57.6	158	383	715	1.58K	3.09K	5.62K	12.4K	22.1K	43.2K	105K	249K	806K			
27.4	60.4	162	390	750	1.65K	3.24K	5.90K	12.7K	23.7K	47.5K	110K	294K	820K			
28.0	63.4	191	392	787	1.69K	3.32K	6.49K	13.0K	24.3K	48.7K	115K	301K	931K			
30.1	64.9	200	402	806	1.82K	3.65K	6.81K	13.3K	24.9K	49.9K	121K	324K	1.00M			
33.2	68.1	221	432	825	1.96K	3.83K	6.98K	14.0K	25.5K	51.1K	124K	332K	1.02M			
35.7	75.0	226	475	866	2.00K	3.92K	7.50K	14.7K	26.7K	54.9K	150K	348K	1.07M			
37.4	76.8	249	499	909	2.21K	4.02K	8.20K	15.0K	28.0K	56.2K	154K	402K	1.10M			
38.3	82.5	267	511	953	2.26K	4.32K	8.25K	15.8K	30.1K	60.4K	158K	412K	1.21M			
39.2	90.9	274	549	1.00K	2.37K	4.53K	9.09K	16.2K	32.4K	68.1K	165K	432K	1.82M			
41.2	93.1	280	562	1.02K	2.43K	4.75K	9.53K	16.9K	33.2K	69.8K	169K	475K	2.00M			

Description	Value Range	Digi-Key Part No.	Pricing 5	200	1,000	5,000	10,000	Phoenix Passive Components Part No.
.50 Watt, 1% Metal Film Fixed Resistor; Tape & Reel (5,000/Reel)	10.0 - 2.00MΩ	PPC(Value)XTR-ND	—	—	—	23.25/M	19.84/M	5033EDxxxxxF12AF5
.50 Watt, 1% Metal Film Fixed Resistor; Cut Tape	10.0 - 2.00MΩ	PPC(Value)XCT-ND	.97	14.79	38.25	—	—	5033EDxxxxxF12AF5

RS25 Type 1% Metal Film Fixed Resistors — .60 Watt 5053MC Series



mogeneous film of metal alloy is deposited on
h grade ceramic body. After a helical groove
been cut in the resistive layer, tinned con-
ng wires of electrolytic copper are welded to
nd-caps. The resistors are coated with a green,
flammable lacquer, which provides electrical,
anical and climatic protection. The encapsula-
is resistant to all cleaning solvents in accord-
with "MIL-STD-202E, Method 215" and "IEC
8-2-45".

RACTERISTICS: • **Resistance Tolerance:** ±1% **mperature Coefficient:** ±50 ppm/°C • **Abso- Maximum Dissipation at TAMB = 70°C:** 0.60W **rmal Resistance, RTH:** 150K/W • **Maximum nuous Operating Voltage:** 350V (DC or RMS) **erating Temperature Range:** -55°C to 155°C

Phoenix Passive Components Standard Resistor Values

10.0	38.3	90.9	182	332	619	1.50K	3.01K	5.90K	11.3K	24.9K	56.2K	221K	442K	1.10M		
10.7	42.2	93.1	191	365	665	1.58K	3.16K	6.04K	12.1K	26.7K	66.5K	226K	475K	1.20M		
12.4	44.2	100	200	392	681	1.62K	3.32K	6.19K	12.4K	27.4K	68.1K	243K	499K	1.50M		
13.3	46.4	102	210	402	750	1.65K	3.40K	6.49K	13.0K	28.0K	75.0K	249K	511K	1.80M		
14.0	47.5	110	215	422	768	1.69K	3.74K	6.81K	14.0K	30.1K	76.8K	255K	576K	2.00M		
15.0	49.9	121	221	432	825	1.82K	3.92K	6.98K	14.3K	34.0K	78.7K	267K	619K	2.20M		
18.2	51.1	130	243	442	909	2.00K	4.02K	7.15K	15.0K	39.2K	82.5K	280K	649K			
20.0	54.9	137	249	464	931	2.21K	4.22K	7.50K	16.9K	40.2K	90.9K	294K	665K			
22.1	56.2	140	255	475	953	2.26K	4.32K	7.68K	17.4K	41.2K	100K	301K	681K			
23.7	60.4	143	267	499	1.00K	2.32K	4.64K	8.25K	18.2K	43.2K	121K	316K	750K			
24.9	61.9	150	274	511	1.10K	2.43K	4.75K	8.66K	18.7K	44.2K	150K	324K	787K			
27.4	71.5	154	280	549	1.21K	2.49K	4.99K	9.09K	19.1K	47.5K	162K	332K	806K			
30.9	75.0	165	301	562	1.24K	2.67K	5.11K	9.76K	20.0K	48.7K	165K	348K	825K			
33.2	78.7	169	316	576	1.30K	2.74K	5.36K	10.0K	21.0K	49.9K	182K	374K	931K			
35.7	82.5	178	324	604	1.40K	2.94K	5.49K	10.2K	22.1K	51.1K	200K	392K	976K			

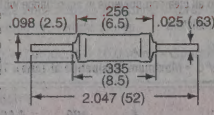
Description	Value Range	Digi-Key Part No.	Pricing 5	200	1,000	5,000	10,000	Phoenix Passive Components Part No.
.60 Watt, 1% Metal Film Fixed Resistor; Tape & Reel (5,000/Reel)	10.0-2.20MΩ	PPC(Value)ZTR-ND	—	—	—	31.88/M	27.20/M	5053MCxxxxxF12AF5
.60 Watt, 1% Metal Film Fixed Resistor; Cut Tape	10.0-2.20MΩ	PPC(Value)ZCT-ND	1.19	18.13	46.88	—	—	5053MCxxxxxF12AF5

F

PR01 Type 5% Power Metal Film Fixed Resistors — 1 Watt

5073NW Series

A homogeneous film of metal alloy is deposited on a high grade ceramic body. After a helical groove has been cut in the resistive layer, tinned connecting wires of electrolytic copper are welded to the end-caps. The resistors are coated with a red, non-flammable lacquer, which provides electrical, mechanical and climatic protection. The encapsulation is resistant to all cleaning solvents in accordance with "MIL-STD-202E, Method 215" and "IEC 60068-2-45".



CHARACTERISTICS:
• **Resistance Tolerance:** ±5% • **Temperature Coefficient:** ±250 ppm/°C • **Absolute Maximum Dissipation at Tamb = 70°C:** 1.0W • **Thermal Resistance, Rth:** 135K/W • **Maximum Continuous Operating Voltage:** 350V (DC or RMS) • **Operating Temperature Range:** -55°C to 155°C

Phoenix Passive Components Standard Resistor Values

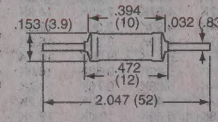
1.0	3.3	10	33	100	330	1.0K	3.3K	10K	43K	180K	750	
1.1	3.6	11	36	110	360	1.1K	3.6K	12K	47K	200K	820	
1.2	3.9	12	39	120	390	1.2K	3.9K	15K	51K	220K	1.0	
1.3	4.3	13	43	130	430	1.3K	4.3K	16K	56K	240K		
1.5	4.7	15	47	150	470	1.5K	4.7K	18K	62K	270K		
1.6	5.1	16	51	160	510	1.6K	5.1K	20K	68K	300K		
1.8	5.6	18	56	180	560	1.8K	5.6K	22K	82K	330K		
2.0	6.2	20	62	200	620	2.0K	6.2K	24K	91K	390K		
2.2	6.8	22	68	220	680	2.2K	6.8K	27K	100K	470K		
2.4	7.5	24	75	240	750	2.4K	7.5K	30K	120K	510K		
2.7	8.2	27	82	270	820	2.7K	8.2K	33K	130K	560K		
3.0	9.1	30	91	300	910	3.0K	9.1K	39K	150K	680K		

Description	Value Range	Digi-Key Part No.	Pricing 5	200	1,000	5,000	10,000	Mfg. Part No.
1W, Power Metal Film Fixed Resistor; Tape & Reel (5,000/Reel)	1.0 - 1.0MΩ	PPC(Value)W-1TR-ND	—	—	—	53.63/M	45.76/M	5073NWxxxxxJ12AF
1W, Power Metal Film Fixed Resistor; Cut Tape	1.0 - 1.0MΩ	PPC(Value)W-1CT-ND	1.74	26.54	68.63	—	—	5073NWxxxxxJ12AF

PR02 Type 5% Power Metal Film Fixed Resistors — 2 Watt

5083NW Series

A homogeneous film of metal alloy is deposited on a high grade ceramic body. After a helical groove has been cut in the resistive layer, tinned connecting wires of electrolytic copper are welded to the end-caps. The resistors are coated with a red, non-flammable lacquer, which provides electrical, mechanical and climatic protection. The encapsulation is resistant to all cleaning solvents in accordance with "MIL-STD-202E, Method 215" and "IEC 60068-2-45".



CHARACTERISTICS:
• **Resistance Tolerance:** ±5% • **Temperature Coefficient:** ±250 ppm/°C • **Absolute Maximum Dissipation at Tamb = 70°C:** 2.0W • **Thermal Resistance, Rth:** 75K/W • **Maximum Continuous Operating Voltage:** 500V (DC or RMS) • **Operating Temperature Range:** -55°C to 155°C

Phoenix Passive Components Standard Resistor Values

1.0	3.0	8.2	24	68	200	560	1.8K	5.1K	15K	43K	150K	510
1.1	3.3	9.1	27	75	220	620	2.0K	5.6K	16K	47K	160K	560
1.2	3.6	10	30	82	240	680	2.2K	6.2K	18K	51K	180K	620
1.3	3.9	11	33	91	270	750	2.4K	6.8K	20K	56K	200K	680
1.5	4.3	12	36	100	300	820	2.7K	7.5K	22K	62K	220K	750
1.6	4.7	13	39	110	330	1.0K	3.0K	8.2K	24K	68K	240K	1.0
1.8	5.1	15	43	120	360	1.1K	3.3K	9.1K	27K	75K	270K	
2.0	5.6	16	47	130	390	1.2K	3.6K	10K	30K	82K	300K	
2.2	6.2	18	51	150	430	1.3K	3.9K	11K	33K	91K	330K	
2.4	6.8	20	56	160	470	1.5K	4.3K	12K	36K	100K	390K	
2.7	7.5	22	62	180	510	1.6K	4.7K	13K	39K	120K	470K	

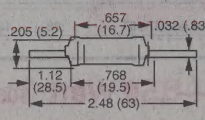
Description	Value Range	Digi-Key Part No.	Pricing 5	200	500	1,000	5,000	Mfg. Part No.
2W, Power Metal Film Fixed Resistor; Tape & Reel (5,000/Reel)	1.0 - 1.0MΩ	PPC(Value)W-2TR-ND	—	—	—	104.25/M	88.96/M	5083NWxxxxxJ12AF
2W, Power Metal Film Fixed Resistor; Cut Tape	1.0 - 1.0MΩ	PPC(Value)W-2CT-ND	3.02	46.11	119.25	—	—	5083NWxxxxxJ12AF

F

PR03 Type 5% Power Metal Film Fixed Resistors — 3 Watt

5093NW Series

A homogeneous film of metal alloy is deposited on a high grade ceramic body. After a helical groove has been cut in the resistive layer, tinned connecting wires of electrolytic copper are welded to the end-caps. The resistors are coated with a red, non-flammable lacquer, which provides electrical, mechanical and climatic protection. The encapsulation is resistant to all cleaning solvents in accordance with "MIL-STD-202E, Method 215" and "IEC 60068-2-45".



CHARACTERISTICS:
• **Resistance Tolerance:** ±5% • **Temperature Coefficient:** ±250 ppm/°C • **Absolute Maximum Dissipation at Tamb = 70°C:** 3.0W • **Thermal Resistance, Rth:** 60K/W • **Maximum Continuous Operating Voltage:** 750V (DC or RMS) • **Operating Temperature Range:** -55°C to 155°C

Phoenix Passive Components Standard Resistor Values

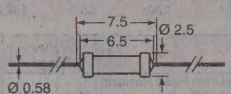
10	51	200	820	4.7K	16K	47K	160K	750	
12	56	220	1.0K	5.1K	18K	51K	200K	1.0	
15	62	240	1.1K	6.8K	20K	56K	220K		
18	68	300	1.2K	7.5K	22K	62K	240K		
20	75	330	1.5K	8.2K	24K	75K	330K		
24	100	390	2.0K	10K	27K	82K	360K		
27	110	470	2.4K	11K	30K	100K	390K		
33	120	510	2.7K	12K	33K	120K	430K		
43	150	560	3.0K	13K	36K	130K	470K		
47	180	680	3.9K	15K	39K	150K	510K		

Description	Value Range	Digi-Key Part No.	Pricing 5	100	500	1,000	5,000	Mfg. Part No.
3W, Power Metal Film Fixed Resistors; Tape & Box (500/AMMO Pk.)	10 - 1.0MΩ	PPC(Value)W-3JTB-ND	—	—	81.60	151.47	135.15/M	5093NWxxxxxJA8AF
3W, Power Metal Film Fixed Resistors; Cut Tape	10 - 1.0MΩ	PPC(Value)W-3JCT-ND	2.09	23.65	—	—	—	5093NWxxxxxJA8AF

NFR25/NFR25H Type 5% Metal Film Fusible Resistors — 0.33 and 0.5 Watt

5063F and 5065F Series

The resistors are coated with a grey, flame retardant lacquer which provides electrical, mechanical and climatic protection. The encapsulation is resistant to all cleaning solvents in accordance with "MIL-STD-202E, Method 215" and "IEC 60068-2-45". **Features:** • Fusible resistors • Defined interruption behavior (fusing time) • Nonflammable lacquer • High stability, reliability and uniformity characteristics • Suitable for protecting circuit boards and designs



CHARACTERISTICS:
• **Resistance Tolerance:** ±5% • **Maximum Dissipation at Tamb = 70°C:** *NFR25:* 0.33W; *NFR25H:* 0.5W • **Maximum Permissible Voltage:** *NFR25:* 250V; *NFR25H:* 350V • **Operating Temperature Range:** -55°C to 155°C

Phoenix Passive Components Standard Resistor Values

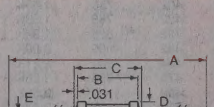
22	2.2	22	330	2.2K
33	3.3	33	470	3.3K
47	4.7	47	680	4.7K
68	6.8	100	68	6.8K
1.0	10	150	1.0K	10K
1.5	15	220	1.5K	15K

Description	Value Range	Digi-Key Part No.	Pricing 5	200	1,000	5,000	10,000	Mfg. Part No.
NFR25, 0.33W, Power Metal Film Fusible Resistors; Tape & Reel (5,000/Reel)	.22 - 15KΩ	PPC(Value)ATR-ND	—	—	—	119.63/M	102.08/M	5063FxxxxxxJ12AF
NFR25, 0.33W, Power Metal Film Fusible Resistors; Cut Tape	.22 - 15KΩ	PPC(Value)ACT-ND	3.41	52.06	134.63	—	—	5063FxxxxxxJ12AF
NFR25H, 0.5W, Power Metal Film Fusible Resistors; Tape & Reel (5,000/Reel)	.22 - 15KΩ	PPC(Value)BTR-ND	—	—	—	170.63/M	145.60/M	5065FxxxxxxJ12AF
NFR25H, 0.5W, Power Metal Film Fusible Resistors; Cut Tape	.22 - 15KΩ	PPC(Value)BCT-ND	4.70	71.78	185.63	—	—	5065FxxxxxxJ12AF

NFR01/02/03 Type 5% Metal Film High Power Fusible Resistors — 1, 2 and 3 Watt

5073FM, 5083FM and 5093FM Series

The resistors are coated with a red, non-flammable lacquer, which provides electical, mechanical and climatic protection. The encapsulation is resistant to all cleaning solvents in accordance with "MIL-STD-202E, Method 215" and "IEC 60068-2-45". **Features:** • Fusible resistors • Defined interruption behavior (fusing time) • Nonflammable lacquer • High stability, reliability and uniformity characteristics • Suitable for protecting circuit boards and designs



CHARACTERISTICS: • **Resistance Tolerance:** ±5% • **Maximum Dissipation at 70°C:** *NFR01:* 1.0W; *NFR02:* 2.0W; *NFR03:* 3.0W • **Maximum Permissible Voltage:** *NFR01:* 350V; *NFR02:* 500V; *NFR03:* 500V • **Temperature Coefficient:** ≤±200ppm/°C

	Dimensions (mm)				
Type	A	B	C	D	E
NFR01	52 ±1.5	6.5	8.5	2.5	0.58 ±0.05 Cu.
NFR02	52 ±1.5	10.0	12.0	4.0	0.8 ±0.03 Cu.
NFR03	63 ±1.5	16.7	19.5	5.3	0.8 ±0.03 Cu.

Phoenix Passive Components Standard Resistor Values

.47	2.2	10	47	220	1.0
.68	3.3	15	68	330	
1.0	4.7	22	100	470	
1.5	6.8	33	150	680	

Description	Value Range	Digi-Key Part No.	Pricing 5	100	200	500	1,000	5,000	10,000	Mfg. Part No.
NFR01, 1W, Metal Film High Power Fusible Resistors; Tape & Reel (5,000/Reel)	.47 - 1.0KΩ	PPC(Value)CTR-ND	—	—	—	—	—	159.75/M	136.32/M	5073FMxxxxxJ12AF
NFR01, 1W, Metal Film High Power Fusible Resistors; Cut Tape	.47 - 1.0KΩ	PPC(Value)CCT-ND	4.43	—	67.57	—	174.75	—	—	5073FMxxxxxJ12AF
NFR02, 2W, Metal Film High Power Fusible Resistors; Tape & Reel (5,000/Reel)	.47 - 1.0KΩ	PPC(Value)DTR-ND	—	—	—	—	—	258.75/M	220.80/M	5083FMxxxxxJ12AF
NFR02, 2W, Metal Film High Power Fusible Resistors; Cut Tape	.47 - 1.0KΩ	PPC(Value)DCT-ND	6.94	—	105.85	—	273.75	—	—	5083FMxxxxxJ12AF
NFR03, 3W, Metal Film High Power Fusible Resistors; Tape & Box (500/AMMO Pk.)	.47 - 1.0KΩ	PPC(Value)ETB-ND	—	—	—	444.80	825.66	736.70/M	667.20/M	5093FMxxxxxJ08AF
NFR03, 3W, Metal Film High Power Fusible Resistors; Cut Tape	.47 - 1.0KΩ	PPC(Value)ECT-ND	10.72	121.26	—	—	—	—	—	5093FMxxxxxJ08AF

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FILM TECHNOLOGY

SSM SUSUMU CO., LTD

0603 / 0805 SMD 0.05% Thin Film Chip Resistors — Ultra Precision / Ultra Reliable RG Series - 1/16, 1/10 Watt

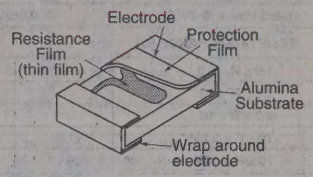
g the conventional properties of Thin Film Resistors, SSM has successfully ved the environmental, resistance stability and sustained durability issues that are untered while operating at higher temperatures. We call this "RG" Series (Resistor). Higher reliability parts are indispensable in the Automotive, Measurement and cal Industries as quality requirements increase. Susumu provides a solution with RG Series thin film chip resistors. The RG series provides excellent TCR, Low nt Noise, and Linearity specifications needed in high frequency applications. Tight nce allow for circuit simplification and the elimination of trim pots which leads to savings.

rmance: Inorganic protective coating assures high reliability, durability and ction against heat and moisture.

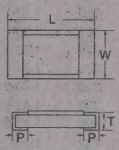
nal Derating: The RG series is able to dissipate 100% of rated power at 85°C. For cations operating above 85°C, the user must derate the resistors in accordance he derating curve listed.

cations: Suitable for automotive, measurement devices and any application where acy and reliability are required.

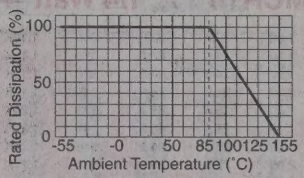
Items	Test Conditions	Performance of High Reliablity	
		Maximum	Typical
Short Time Overload	2.5 times of Rated Load X 5sec.	+/-0.05%	+/-0.01%
Load Life	85°C Rated Load 90min. on/ 30 min. off Cycle 1000h	+/-0.1%	+/-0.01%
Temperature Hum. Bias	85°C, 85%RH 1/10 power loaded 90 min. on/ 30 min. off Cycle 1000h	+/-0.1%	+/-0.01%
A/A Thermal Shock	-55°C(30 min.)/ Room Temp.(2 min.)/ +155°C(30 min.)/ Room Temp.(2 min.)/ Room Temp.(2 min.) no Load 1000 Cycles	+/-0.1%	+/-0.05%
High Temperature	155°C no Load 1000h	+/-0.1%	+/-0.01%



Dimension (mm)	RG1608 (0603)	RG2012 (0805)
L	1.6 ±0.2	2.0 ±0.2
W	0.8 ±0.2	1.25 ±0.2
P	0.3 ±0.2	0.4 ±0.2
T	0.4 ±0.1	0.4 ±0.1



Type	RG1608	RG2012
Package Size	0603	0805
Power	1/16W	1/10W
Resistance Tolerance	±0.05%(W)	±0.05%(W)
TCR ppm/°C	±10 (N)	±10 (N)
Resistance Values	E-24	E-24
Max. Operating Voltage	75V	100V
Operating Temperature	-55°C ~ 155°C (100% Power at 85°C)	



0.05%, 1/16 Watt - Series 0603 — Resistor Values

47	180	680	2.7K	10.0K	39.0K	150K
51	200	750	3.0K	11.0K	43.0K	160K
56	220	820	3.3K	12.0K	47.0K	180K
62	240	910	3.6K	13.0K	51.0K	200K
68	270	1.0K	3.9K	15.0K	56.0K	220K
75	300	1.1K	4.3K	16.0K	62.0K	240K
82	330	1.2K	4.7K	18.0K	68.0K	270K
91	360	1.3K	5.1K	20.0K	75.0K	
100	390	1.5K	5.6K	22.0K	82.0K	
110	430	1.6K	6.2K	24.0K	91.0K	
120	470	1.8K	6.8K	27.0K	100K	
130	510	2.0K	7.5K	30.0K	110K	
150	560	2.2K	8.2K	33.0K	120K	
160	620	2.4K	9.1K	36.0K	130K	

0.05%, 1/10 Watt - Series 0805 — Resistor Values

47	200	820	3.6K	15.0K	62.0K	270K
51	220	910	3.9K	16.0K	68.0K	300K
56	240	1.0K	4.3K	18.0K	75.0K	330K
62	270	1.1K	4.7K	20.0K	82.0K	360K
68	300	1.2K	5.1K	22.0K	91.0K	390K
75	330	1.3K	5.6K	24.0K	100K	430K
82	360	1.5K	6.2K	27.0K	110K	470K
91	390	1.6K	6.8K	30.0K	120K	
100	430	1.8K	7.5K	33.0K	130K	
110	470	2.0K	8.2K	36.0K	150K	
120	510	2.2K	9.1K	39.0K	160K	
130	560	2.4K	10.0K	43.0K	180K	
150	620	2.7K	11.0K	47.0K	200K	
160	680	3.0K	12.0K	51.0K	220K	
180	750	3.3K	13.0K	56.0K	240K	

cription	Value Range	Digi-Key Part No.	Cut Tape Pricing 10	50	200	Digi-Key Part No.	Package Size	Tape & Reel Pricing 1,000	5,000	10,000	25,000	Susumu Part No.
5%, 0603, 1/16W	47 ~ 270KΩ	RG16N(Value)WCT-ND	28.05	75.48	173.40	RG16N(Value)WTR-ND	1,000	340.00	320.00/M	300.00/M	280.00/M	RG1608N-xxx-W-T1
5%, 0805, 1/10W	47 ~ 470KΩ	RG20N(Value)WCT-ND	30.80	82.88	190.40	RG20N(Value)WTR-ND	1,000	374.00	352.00/M	330.00/M	308.00/M	RG2012N-xxx-W-T1

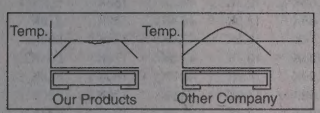
W! 0.05% SMD Resistors
i-Key® Assortment Kits

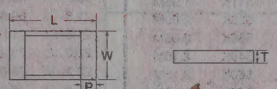
-Key® 0603, 0.05%, 1/16W, RG Series, SMD Resistor Kits
08NW-1-KIT-ND 10 each of values 47Ω ~ 750Ω $175.95
08NW-2-KIT-ND 10 each of values 820Ω ~ 13.0KΩ $175.95
08NW-3-KIT-ND 10 each of values 15.0KΩ ~ 270KΩ $175.95

Digi-Key® 0805, 0.05%, 1/10W, RG Series, SMD Resistor Kits
RG2012NW-1-KIT-ND 10 each of values 47.0Ω ~ 910Ω $199.95
RG2012NW-2-KIT-ND 10 each of values 1.0KΩ ~ 20.0KΩ $199.95
RG2012NW-3-KIT-ND 10 each of values 22.0KΩ ~ 470KΩ $199.95

402 / 0603 / 0805 SMD 1% High Power etal Film Chip Resistors — RP Series - 1/3, 1/5, 1/6 Watt

mu's RP series current sensing resistors provide excellent heat dissipation which allows r power handling in smaller package sizes. Their patented structure will not create "hot " and evenly distribute heat across the total surface area of the resistor.





Resistor Values

.10	.18	.33	.56	1.0	1.8	3.3	5.6	10	18	33	56	100	
.12	.22	.39	.68	1.2	2.2	3.9	6.8	12	22	39	68		
.15	.27	.47	.82	1.5	2.7	4.7	8.2	15	27	47	82		

Dimension (mm)	RP1005 (0402)	RP1608 (0603)	RP2012 (0805)
L	1.0 ±0.05	1.6 ±0.2	2.0 ±0.2
W	0.5 ±0.05	0.8 ±0.2	1.25 ±0.2
P	0.2 ±0.10	0.3 ±0.2	0.4 ±0.2
T	0.35 ±0.05	0.4 ±0.1	0.4 ±0.1

Operating Temperature: -40°C ~ 125°C

Type	RP1005	RP1608	RP2012
Package Size	0402	0603	0805
Power	1/6W	1/5W	1/3W
Resistance Tolerance	±1		
TCR ppm/°C	0 ~ +200		
Resistance Values	E-24		
Max. Operating Voltage	√P*R		

cription	Value Range	Digi-Key Part No.	Cut Tape Pricing 10	50	200	Digi-Key Part No.	Package Size	Tape & Reel Pricing 5,000	10,000	25,000	50,000	Susumu Part No.
0402, 1/6W	.10 ~ 47Ω	RP10S(Value)FCT-ND	9.63	25.90	59.50	RP10S(Value)FTR-ND	1,000		105.60/M	—	92.40/M	RP1005S-xxx-F
0603, 1/5W	.10 ~ 68Ω	RP16S(Value)FCT-ND	6.88	18.50	42.50	RP16S(Value)FTR-ND	1,000	78.20/M	73.60/M	69.00/M	64.40/M	RP1608S-xxx-F
0805, 1/3W	.10 ~ 100Ω	RP20T(Value)FCT-ND	5.36	14.43	33.15	RP20T(Value)FTR-ND	1,000	59.50/M	56.00/M	52.50/M	49.00/M	RP2012T-xxx-F
0805, 1/3W	12 ~ 100Ω	RP20S(Value)FCT-ND	5.36	14.43	33.15	RP20S(Value)FTR-ND	1,000	59.50/M	56.00/M	52.50/M	49.00/M	RP2012S-xxx-F

W! 1% SMD Resistors Digi-Key® Assortment Kits

-Key® 0402, 1%, 1/6W, RP Series, SMD Resistor Kits
05SF-1-KIT-ND 10 each of values .10Ω ~ 47Ω $59.95

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Digi-Key® 0805, 1%, 1/3W, RP Series, SMD Resistor Kits
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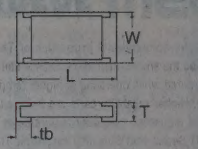
RP2012TF-1-KIT-ND 10 each of values .10Ω ~ 10Ω $29.95

ROHM Surface Mount 1% and 5% Thick Film Chip Resistors

Size Code:	0402		0603		0805		1206	
Tolerance:	1%	5%	1%	5%	1%	5%	1%	5%
Rated Voltage:	50V		50V		150V		200V	
Rated Power @ 70°C:	0.063W		0.063W	0.100W	0.125W		0.25W	
RESISTANCE RANGE (Ω)	TEMPERATURE COEFFICIENT (ppm/ C°)							
1.0 ≤ R < 2.2	—	—	—	—	—	500±350	—	500±350
1.0 ≤ R < 10	—	+500/-250	—	—	±250	—	±250	—
2.2 ≤ R < 10	—	—	—	±500	—	±500	—	±500
10 ≤ R ≤ 2.2M	±100	—	±100	—	±100	—	±100	—
10 ≤ R ≤ 10M	—	±200	—	±200	—	±200	—	±200



Type	Dimensions (mm) W	L	T	
0402	0.5	1.0	0.35	0.
0603	0.8	1.6	0.45	0
0805	1.25	2.0	0.55	0
1206	1.6	3.2	0.55	0

MCR18 1%, 1/4 Watt — 1206 Series

Resistor Values

1.00	23.7	82.0	309	1.10K	4.02K	15.0K	53.6K	205K	698K
1.10	24.0	82.5	316	1.13K	4.12K	15.4K	54.9K	210K	715K
1.20	24.3	84.5	324	1.15K	4.22K	15.8K	56.0K	215K	732K
1.30	24.9	86.6	330	1.18K	4.30K	16.0K	56.2K	220K	750K
1.50	25.5	88.7	332	1.20K	4.32K	16.2K	57.6K	221K	768K
1.60	26.1	90.9	340	1.21K	4.42K	16.5K	59.0K	226K	787K
1.80	26.7	91.0	348	1.24K	4.53K	16.9K	60.4K	232K	806K
2.00	27.0	93.1	357	1.27K	4.64K	17.4K	61.9K	237K	820K
2.20	27.4	95.3	360	1.30K	4.70K	17.8K	62.0K	240K	825K
2.40	28.0	97.6	365	1.33K	4.75K	18.0K	63.4K	243K	845K
2.70	28.7	100	374	1.37K	4.87K	18.2K	64.9K	249K	866K
3.00	29.4	102	383	1.40K	4.99K	18.7K	66.5K	255K	887K
3.30	30.0	105	390	1.43K	5.10K	19.1K	68.0K	261K	909K
3.60	30.1	107	392	1.47K	5.11K	19.6K	68.1K	267K	910K
3.90	30.9	110	402	1.50K	5.23K	20.0K	69.8K	270K	931K
4.30	31.6	113	412	1.54K	5.36K	20.5K	71.5K	274K	953K
4.70	32.4	115	422	1.58K	5.49K	21.0K	73.2K	280K	976K
5.10	33.0	118	430	1.60K	5.60K	21.5K	75.0K	287K	1.00M
5.60	33.2	120	432	1.62K	5.62K	22.0K	76.8K	294K	1.02M
6.20	34.0	121	442	1.65K	5.76K	22.1K	78.7K	300K	1.05M
6.80	34.8	124	453	1.69K	5.90K	22.6K	80.6K	301K	1.07M
7.50	35.7	127	464	1.74K	6.04K	23.2K	82.0K	309K	1.10M
8.20	36.0	130	470	1.78K	6.19K	23.7K	82.5K	316K	1.13M
9.10	36.5	133	475	1.80K	6.20K	24.0K	84.5K	324K	1.15M
10.0	37.4	137	487	1.82K	6.34K	24.3K	86.6K	330K	1.18M
10.2	38.3	140	499	1.87K	6.49K	24.9K	88.7K	332K	1.20M
10.5	39.0	143	510	1.91K	6.65K	25.5K	90.9K	340K	1.21M
10.7	39.2	147	511	1.96K	6.80K	26.1K	91.0K	348K	1.24M
11.0	40.2	150	523	2.00K	6.81K	26.7K	93.1K	357K	1.27M
11.3	41.2	154	536	2.05K	6.98K	27.0K	95.3K	360K	1.30M
11.5	42.2	158	549	2.10K	7.15K	28.0K	97.6K	365K	1.33M
11.8	43.0	160	560	2.15K	7.32K	28.7K	100K	374K	1.37M
12.0	43.2	162	562	2.20K	7.50K	29.4K	102K	383K	1.40M
12.1	44.2	165	576	2.21K	7.68K	30.0K	105K	390K	1.43M
12.4	45.3	169	590	2.26K	7.87K	30.1K	107K	392K	1.47M
12.7	46.4	174	604	2.32K	8.06K	30.9K	110K	402K	1.50M
13.0	47.0	178	619	2.37K	8.20K	31.6K	113K	412K	1.54M
13.3	47.5	180	620	2.40K	8.25K	32.4K	115K	422K	1.58M
13.7	48.7	182	634	2.43K	8.45K	33.0K	118K	430K	1.60M
14.0	49.9	187	649	2.49K	8.66K	33.2K	120K	432K	1.62M
14.3	51.0	191	665	2.55K	8.87K	34.0K	121K	442K	1.65M
14.7	51.1	196	680	2.61K	9.09K	34.8K	124K	453K	1.69M
15.0	52.3	200	681	2.67K	9.10K	35.7K	127K	464K	1.74M
15.4	53.6	205	698	2.70K	9.31K	36.0K	130K	470K	1.78M
15.8	54.9	210	715	2.74K	9.53K	36.5K	133K	475K	1.80M
16.0	56.0	215	732	2.80K	9.76K	37.4K	137K	487K	1.82M
16.2	56.2	220	750	2.87K	10.0K	38.3K	140K	499K	1.87M
16.5	57.6	221	768	2.94K	10.2K	39.0K	143K	510K	1.91M
16.9	59.0	226	787	3.00K	10.5K	39.2K	147K	511K	1.96M
17.4	60.4	232	806	3.01K	10.7K	40.2K	150K	523K	2.00M
17.8	61.9	237	820	3.09K	11.0K	41.2K	154K	536K	2.05M
18.0	62.0	240	825	3.16K	11.3K	42.2K	158K	549K	2.10M
18.2	63.4	243	845	3.24K	11.5K	43.0K	160K	560K	2.15M
18.7	64.9	249	866	3.30K	11.8K	43.2K	162K	562K	2.20M
19.1	66.5	255	887	3.32K	12.0K	44.2K	165K	576K	
19.6	68.0	261	909	3.40K	12.1K	45.3K	169K	590K	
20.0	68.1	267	910	3.48K	12.4K	46.4K	174K	604K	
20.5	69.8	270	931	3.57K	12.7K	47.0K	178K	619K	
21.0	71.5	274	953	3.60K	13.0K	47.5K	180K	620K	
21.5	73.2	280	976	3.65K	13.3K	48.7K	182K	634K	
22.0	75.0	287	1.00K	3.74K	13.7K	49.9K	187K	649K	
22.1	76.8	294	1.02K	3.83K	14.0K	51.0K	191K	665K	
22.6	78.7	300	1.05K	3.90K	14.3K	51.1K	196K	680K	
23.2	80.6	301	1.07K	3.92K	14.7K	52.3K	200K	681K	

Value Range	Digi-Key Part No.	Pricing 10	50	200	5,000	10,000	Rohm Part No.
Tape & Reel (5,000 / Reel)							
1.00 - 9.10Ω	RHM(Value)FTR-ND	—	—	—	71.76/M	59.80/M	MCR18EZHFLxxxx
10.0 - 2.20MΩ	RHM(Value)FTR-ND	—	—	—	9.12/M	7.60/M	MCR18EZHFxxxx
Cut Tape							
1.00 - 9.10Ω	RHM(Value)FCT-ND	2.03	7.20	23.73	—	—	MCR18EZHFLxxxx
10.0 - 2.20MΩ	RHM(Value)FCT-ND	.47	1.66	5.46	—	—	MCR18EZHFxxxx

MCR10 1%, 1/8 Watt — 0805 Series

Resistor Val

1.00	28.0	95.3	357	1.24K	4.42K	16.2K	56.0K	210K	69
1.10	28.7	97.6	360	1.27K	4.53K	16.5K	56.2K	215K	71
1.30	29.4	100	365	1.30K	4.64K	16.9K	57.6K	220K	73
1.50	30.0	102	374	1.33K	4.70K	17.4K	59.0K	221K	75
1.80	30.1	105	383	1.37K	4.75K	17.8K	60.4K	226K	76
2.00	30.9	107	390	1.40K	4.87K	18.0K	61.9K	232K	78
2.20	31.6	110	392	1.43K	4.99K	18.2K	62.0K	237K	80
3.00	32.4	113	402	1.47K	5.10K	18.7K	63.4K	240K	82
3.90	33.0	115	412	1.50K	5.11K	19.1K	64.9K	243K	82
4.70	33.2	118	422	1.54K	5.23K	19.6K	66.5K	249K	84
5.60	34.0	120	430	1.58K	5.36K	20.0K	68.0K	255K	86
6.20	34.8	121	432	1.60K	5.49K	20.5K	68.1K	261K	88
6.80	35.7	124	442	1.62K	5.60K	21.0K	69.8K	267K	90
7.50	36.0	127	453	1.65K	5.62K	21.5K	71.5K	270K	93
10.0	36.5	130	464	1.69K	5.76K	22.0K	73.2K	274K	95
10.2	37.4	133	470	1.74K	5.90K	22.1K	75.0K	280K	97
10.5	38.3	137	475	1.78K	6.04K	22.6K	76.8K	287K	1.0
10.7	39.0	140	487	1.80K	6.19K	23.2K	78.7K	294K	1.0
11.0	39.2	143	499	1.82K	6.20K	23.7K	80.6K	300K	1.0
11.3	40.2	147	510	1.87K	6.34K	24.0K	82.0K	301K	1.1
11.5	41.2	150	511	1.91K	6.49K	24.3K	82.5K	309K	1.1
11.8	42.2	154	523	1.96K	6.65K	24.9K	84.5K	316K	1.1
12.0	43.0	158	536	2.00K	6.80K	25.5K	86.6K	324K	1.1
12.1	43.2	160	549	2.05K	6.81K	26.1K	88.7K	330K	1.2
12.4	44.2	162	560	2.10K	6.98K	26.7K	90.9K	332K	1.2
12.7	45.3	165	562	2.15K	7.15K	27.0K	91.0K	340K	1.2
13.0	46.4	169	576	2.20K	7.32K	27.4K	93.1K	348K	1.2
13.3	47.0	174	590	2.21K	7.50K	28.0K	95.3K	357K	1.3
13.7	47.5	178	604	2.26K	7.68K	28.7K	97.6K	360K	1.3
14.0	48.7	180	619	2.32K	7.87K	29.4K	100K	365K	1.3
14.3	49.9	182	620	2.37K	8.06K	30.0K	102K	374K	1.4
14.7	51.0	187	634	2.40K	8.20K	30.1K	105K	383K	1.4
15.0	51.1	191	649	2.43K	8.25K	30.9K	107K	390K	1.4
15.4	52.3	196	665	2.49K	8.45K	31.6K	110K	392K	1.5
15.8	53.6	200	680	2.55K	8.66K	32.4K	113K	402K	1.5
16.0	54.9	205	681	2.61K	8.87K	33.0K	115K	412K	1.5
16.2	56.0	210	698	2.67K	9.09K	33.2K	118K	422K	1.6
16.5	56.2	215	715	2.70K	9.10K	34.0K	120K	430K	1.6
16.9	57.6	220	732	2.74K	9.31K	34.8K	121K	432K	1.6
17.4	59.0	221	750	2.80K	9.53K	35.7K	124K	442K	1.7
17.8	60.4	226	768	2.87K	9.76K	36.0K	127K	453K	1.8
18.0	61.9	232	787	2.94K	10.0K	36.5K	130K	464K	1.8
18.2	62.0	237	806	3.00K	10.2K	37.4K	133K	470K	1.8
18.7	63.4	240	820	3.01K	10.5K	38.3K	137K	475K	1.9
19.1	64.9	243	825	3.09K	10.7K	39.0K	140K	487K	1.9
19.6	66.5	249	845	3.16K	11.0K	39.2K	143K	499K	2.0
20.0	68.0	255	866	3.24K	11.3K	40.2K	147K	510K	2.0
20.5	68.1	261	887	3.30K	11.5K	41.2K	150K	511K	2.1
21.0	69.8	267	909	3.32K	11.8K	42.2K	154K	523K	2.1
21.5	71.5	270	910	3.40K	12.0K	43.0K	158K	536K	2.2
22.0	73.2	274	931	3.48K	12.1K	43.2K	160K	549K	
22.1	75.0	280	953	3.57K	12.4K	44.2K	162K	560K	
22.6	76.8	287	976	3.60K	12.7K	45.3K	165K	562K	
23.2	78.7	294	1.00K	3.65K	13.0K	46.4K	169K	576K	
23.7	80.6	300	1.02K	3.74K	13.3K	47.0K	174K	590K	
24.0	82.0	301	1.05K	3.83K	13.7K	47.5K	178K	604K	
24.3	82.5	309	1.07K	3.90K	14.0K	48.7K	180K	619K	
24.9	84.5	316	1.10K	3.92K	14.3K	49.9K	182K	620K	
25.5	86.6	324	1.13K	4.02K	14.7K	51.0K	187K	634K	
26.1	88.7	330	1.15K	4.12K	15.0K	51.1K	191K	649K	
26.7	90.9	332	1.18K	4.22K	15.4K	52.3K	196K	665K	
27.0	91.0	340	1.20K	4.30K	15.8K	53.6K	200K	680K	
27.4	93.1	348	1.21K	4.32K	16.0K	54.9K	205K	681K	

Value Range	Digi-Key Part No.	Pricing 10	50	200	5,000	10,000	Rohm Part No.
Tape & Reel (5,000 / Reel)							
1.00 - 7.50Ω	RHM(Value)CTR-ND	—	—	—	46.92/M	39.10/M	MCR10EZHFLxxxx
10.0 - 2.20MΩ	RHM(Value)CTR-ND	—	—	—	5.52/M	4.60/M	MCR10EZHFxxxx
Cut Tape							
1.00 - 7.50Ω	RHM(Value)CCT-ND	1.41	5.00	16.49	—	—	MCR10EZHFLxxxx
10.0 - 2.20MΩ	RHM(Value)CCT-ND	.38	1.34	4.41	—	—	MCR10EZHFxxxx

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R03 1%, 1/10 Watt — 0603 Series

Resistor Values

33.2	107	357	1.13K	3.65K	11.8K	38.3K	124K	402K
34.0	110	360	1.15K	3.74K	12.0K	39.0K	127K	412K
34.8	113	365	1.18K	3.83K	12.1K	39.2K	130K	422K
35.7	115	374	1.20K	3.90K	12.4K	40.2K	133K	430K
36.0	118	383	1.21K	3.92K	12.7K	41.2K	137K	432K
36.5	120	390	1.24K	4.02K	13.0K	42.2K	140K	442K
37.4	121	392	1.27K	4.12K	13.3K	43.0K	143K	453K
38.3	124	402	1.30K	4.22K	13.7K	43.2K	147K	464K
39.0	127	412	1.33K	4.30K	14.0K	44.2K	150K	470K
39.2	130	422	1.37K	4.32K	14.3K	45.3K	154K	475K
40.2	133	430	1.40K	4.42K	14.7K	46.4K	158K	487K
41.2	137	432	1.43K	4.53K	15.0K	47.0K	160K	499K
42.2	140	442	1.47K	4.64K	15.4K	47.5K	162K	510K
43.0	143	453	1.50K	4.70K	15.8K	48.7K	165K	511K
43.2	147	464	1.54K	4.75K	16.0K	49.9K	169K	523K
44.2	150	470	1.58K	4.87K	16.2K	51.0K	174K	536K
45.3	154	475	1.60K	4.99K	16.5K	51.1K	178K	549K
46.4	158	487	1.62K	5.10K	16.9K	52.3K	180K	560K
47.0	160	499	1.65K	5.11K	17.4K	53.6K	182K	562K
47.5	162	510	1.69K	5.23K	17.8K	54.9K	187K	576K
48.7	165	511	1.74K	5.36K	18.0K	56.2K	191K	590K
49.9	169	523	1.78K	5.49K	18.2K	57.6K	196K	604K
51.0	174	536	1.80K	5.60K	18.7K	59.0K	200K	619K
51.1	178	549	1.82K	5.62K	19.1K	60.4K	205K	620K
52.3	180	560	1.87K	5.76K	19.6K	61.9K	210K	634K
53.6	182	562	1.91K	5.90K	20.0K	62.0K	215K	649K
54.9	187	576	1.96K	6.04K	20.5K	63.4K	220K	665K
56.0	191	590	2.00K	6.19K	21.0K	64.9K	221K	680K
56.2	196	604	2.05K	6.20K	21.5K	66.5K	226K	681K
57.6	200	619	2.10K	6.34K	22.0K	68.0K	232K	698K
59.0	205	620	2.15K	6.49K	22.1K	68.1K	237K	715K
60.4	210	634	2.20K	6.65K	22.6K	69.8K	240K	732K
61.9	215	649	2.21K	6.80K	23.2K	71.5K	243K	750K
62.0	220	665	2.26K	6.81K	23.7K	73.2K	249K	768K
63.4	221	680	2.32K	6.98K	24.0K	75.0K	255K	787K
64.9	226	681	2.37K	7.15K	24.3K	76.8K	261K	806K
66.5	232	698	2.40K	7.32K	24.9K	78.7K	267K	820K
68.0	237	715	2.43K	7.50K	25.5K	80.6K	270K	825K
68.1	240	732	2.49K	7.68K	26.1K	82.0K	274K	845K
69.8	243	750	2.55K	7.87K	26.7K	82.5K	280K	866K
71.5	249	768	2.61K	8.06K	27.0K	84.5K	287K	887K
73.2	255	787	2.67K	8.20K	27.4K	86.6K	294K	909K
75.0	261	806	2.70K	8.25K	28.0K	88.7K	300K	910K
76.8	267	820	2.74K	8.45K	28.7K	90.9K	301K	931K
78.7	270	825	2.80K	8.66K	29.4K	91.0K	309K	953K
80.6	274	845	2.87K	8.87K	30.0K	93.1K	316K	976K
82.0	280	866	2.94K	9.09K	30.1K	95.3K	324K	1.00M
82.5	287	887	3.00K	9.10K	30.9K	97.6K	330K	1.20M
84.5	294	909	3.01K	9.31K	31.6K	100K	332K	1.21M
88.7	300	910	3.09K	9.53K	32.4K	102K	340K	1.50M
90.9	301	931	3.16K	9.76K	33.0K	105K	348K	2.00M
91.0	309	953	3.24K	10.0K	33.2K	107K	357K	
93.1	316	976	3.30K	10.2K	34.0K	110K	360K	
95.3	324	1.00K	3.32K	10.5K	34.8K	113K	365K	
97.6	330	1.02K	3.40K	10.7K	35.7K	115K	374K	
100	332	1.05K	3.48K	11.0K	36.0K	118K	383K	
102	340	1.07K	3.57K	11.3K	36.5K	120K	390K	
105	348	1.10K	3.60K	11.5K	37.4K	121K	392K	

alue ange	Digi-Key Part No.	10	50	200	5,000	10,000	Rohm Part No.
	Tape & Reel (5,000 / Reel)						
- 2.00MΩ	RHM(Value)HTR-ND	—	—	—	4.50/M	4.05/M	MCR03EZPFXxxxx
	Cut Tape						
- 2.00MΩ	RHM(Value)HCT-ND	.76	2.04	4.68	—	—	MCR03EZPFXxxxx

R01 1%, 1/16 Watt — 0402 Series

Resistor Values

75.0	510	2.21K	6.80K	14.0K	30.1K	53.6K	100K	270K
100	511	2.40K	7.50K	15.0K	33.0K	56.0K	110K	300K
120	560	2.70K	7.87K	16.0K	35.7K	60.4K	120K	301K
150	620	3.01K	8.06K	16.2K	36.0K	61.9K	121K	332K
160	680	3.30K	8.20K	17.4K	39.0K	62.0K	124K	360K
180	715	3.74K	8.87K	18.0K	39.2K	64.9K	127K	430K
220	910	3.90K	9.10K	19.1K	40.2K	68.0K	150K	442K
280	1.00K	3.92K	9.53K	20.0K	42.2K	78.7K	180K	470K
300	1.10K	4.30K	10.0K	21.0K	43.0K	80.6K	187K	499K
301	1.20K	4.64K	10.7K	22.0K	45.3K	82.0K	200K	510K
330	1.21K	5.10K	11.0K	22.1K	46.4K	82.5K	210K	560K
332	1.50K	5.36K	11.3K	24.9K	47.0K	88.7K	220K	562K
430	1.80K	5.49K	11.5K	26.1K	47.5K	90.9K	226K	620K
464	1.82K	5.62K	12.0K	27.0K	49.9K	91.0K	240K	649K
470	1.96K	6.20K	12.1K	28.0K	51.0K	95.3K	249K	768K
499	2.20K	6.49K	13.0K	30.0K	51.1K	97.6K	261K	1.00M

alue ange	Digi-Key Part No.	10	50	200	10,000	30,000	Rohm Part No.
	Tape & Reel (10,000 / Reel)						
- 4.70Ω	RHM(Value)LTR-ND	—	—	—	5.30/M	4.71/M	MCR01MZPFLxxxx
1.00MΩ	RHM(Value)LTR-ND	—	—	—	5.30/M	4.71/M	MCR01MZPFxxxx
	Cut Tape						
- 4.70Ω	RHM(Value)LCT-ND	.82	2.21	5.07	—	—	MCR01MZPFLxxxx
1.00MΩ	RHM(Value)LCT-ND	.82	2.21	5.07	—	—	MCR01MZPFxxxx

MCR01 5%, 1/16 Watt — 0402 Series

Resistor Values

0.0	5.1	30	82	300	820	3.0K	7.5K	30K	110K	470K
1.0	5.6	33	91	330	910	3.3K	8.2K	33K	120K	560K
1.1	8.2	36	100	360	1.0K	3.6K	10K	39K	150K	680K
2.0	10	39	150	390	1.2K	3.9K	11K	43K	180K	1.0M
2.2	12	43	160	430	1.5K	4.3K	12K	47K	200K	1.5M
3.0	15	47	180	470	1.8K	4.7K	15K	56K	220K	3.0M
3.3	18	51	200	510	2.0K	5.1K	18K	62K	270K	3.3M
3.9	20	56	220	560	2.2K	5.6K	22K	68K	300K	
4.3	22	68	240	620	2.4K	6.2K	24K	82K	330K	
4.7	27	75	270	680	2.7K	6.8K	27K	100K	430K	

Value Range	Digi-Key Part No.	10	50	200	10,000	30,000	Rohm Part No.
	Tape & Reel (10,000 / Reel)						
0.0 - 3.3MΩ	RHM(Value)JTR-ND	—	—	—	3.73/M	3.32/M	MCR01MZPJxxx
	Cut Tape						
0.0 - 3.3MΩ	RHM(Value)JCT-ND	.74	1.99	4.57	—	—	MCR01MZPJxxx

MCR03 5%, 1/10 Watt — 0603 Series

Resistor Values

0.0	4.7	22	100	470	2.2K	10K	47K	220K	1.0M	4.7M
1.0	5.1	24	110	510	2.4K	11K	51K	240K	1.1M	5.1M
1.1	5.6	27	120	560	2.7K	12K	56K	270K	1.2M	5.6M
1.2	6.2	30	130	620	3.0K	13K	62K	300K	1.3M	6.2M
1.3	6.8	33	150	680	3.3K	15K	68K	330K	1.5M	6.8M
1.5	7.5	36	160	750	3.6K	16K	75K	360K	1.6M	8.2M
1.6	8.2	39	180	820	3.9K	18K	82K	390K	1.8M	10M
1.8	9.1	43	200	910	4.3K	20K	91K	430K	2.0M	
2.2	10	47	220	1.0K	4.7K	22K	100K	470K	2.2M	
2.4	11	51	240	1.1K	5.1K	24K	110K	510K	2.4M	
2.7	12	56	270	1.2K	5.6K	27K	120K	560K	2.7M	
3.0	13	62	300	1.3K	6.2K	30K	130K	620K	3.0M	
3.3	15	68	330	1.5K	6.8K	33K	150K	680K	3.3M	
3.6	16	75	360	1.6K	7.5K	36K	160K	750K	3.6M	
3.9	18	82	390	1.8K	8.2K	39K	180K	820K	3.9M	
4.3	20	91	430	2.0K	9.1K	43K	200K	910K	4.3M	

Value Range	Digi-Key Part No.	10	50	200	5,000	10,000	Rohm Part No.
	Tape & Reel (5,000 / Reel)						
0.0 - 10MΩ	RHM(Value)GTR-ND	—	—	—	3.12/M	2.81/M	MCR03EZPJxxx
	Cut Tape						
0.0 - 10MΩ	RHM(Value)GCT-ND	.69	1.86	4.28	—	—	MCR03EZPJxxx

MCR10 5%, 1/8 Watt — 0805 Series

Resistor Values

0.0	4.3	20	91	430	2.0K	9.1K	43K	200K	910K	4.3M
1.0	4.7	22	100	470	2.2K	10K	47K	220K	1.0M	4.7M
1.1	5.1	24	110	510	2.4K	11K	51K	240K	1.1M	5.1M
1.2	5.6	27	120	560	2.7K	12K	56K	270K	1.2M	5.6M
1.3	6.2	30	130	620	3.0K	13K	62K	300K	1.3M	6.2M
1.5	6.8	33	150	680	3.3K	15K	68K	330K	1.5M	6.8M
1.6	7.5	36	160	750	3.6K	16K	75K	360K	1.6M	7.5M
1.8	8.2	39	180	820	3.9K	18K	82K	390K	1.8M	8.2M
2.0	9.1	43	200	910	4.3K	20K	91K	430K	2.0M	9.1M
2.2	10	47	220	1.0K	4.7K	22K	100K	470K	2.2M	10M
2.4	11	51	240	1.1K	5.1K	24K	110K	510K	2.4M	
2.7	12	56	270	1.2K	5.6K	27K	120K	560K	2.7M	
3.0	13	62	300	1.3K	6.2K	30K	130K	620K	3.0M	
3.3	15	68	330	1.5K	6.8K	33K	150K	680K	3.3M	
3.6	16	75	360	1.6K	7.5K	36K	160K	750K	3.6M	
3.9	18	82	390	1.8K	8.2K	39K	180K	820K	3.9M	

Value Range	Digi-Key Part No.	10	50	200	5,000	10,000	Rohm Part No.
	Tape & Reel (5,000 / Reel)						
0.0 - 10MΩ	RHM(Value)ATR-ND	—	—	—	4.50/M	4.05/M	MCR10EZHJxxx
	Cut Tape						
0.0 - 10MΩ	RHM(Value)ACT-ND	.76	2.04	4.68	—	—	MCR10EZHJxxx

MCR18 5%, 1/4 Watt — 1206 Series

Resistor Values

0.0	4.7	24	130	680	3.6K	18K	91K	470K	2.4M
1.0	5.1	27	150	750	3.9K	20K	100K	510K	2.7M
1.1	5.6	30	160	820	4.3K	22K	110K	560K	3.0M
1.2	6.2	33	180	910	4.7K	24K	120K	620K	3.3M
1.3	6.8	36	200	1.0K	5.1K	27K	130K	680K	3.6M
1.5	7.5	39	220	1.1K	5.6K	30K	150K	750K	3.9M
1.6	8.2	43	240	1.2K	6.2K	33K	160K	820K	4.3M
1.8	9.1	51	270	1.3K	6.8K	36K	180K	910K	4.7M
2.0	10	56	300	1.5K	7.5K	39K	200K	1.0M	5.1M
2.2	11	62	330	1.6K	8.2K	43K	220K	1.1M	5.6M
2.4	12	68	360	1.8K	9.1K	47K	240K	1.2M	6.2M
2.7	13	75	390	2.0K	10K	51K	270K	1.3M	6.8M
3.0	15	82	430	2.2K	11K	56K	300K	1.5M	7.5M
3.3	16	91	470	2.4K	12K	62K	330K	1.6M	8.2M
3.6	18	100	510	2.7K	13K	68K	360K	1.8M	9.1M
3.9	20	110	560	3.0K	15K	75K	390K	2.0M	10M
4.3	22	120	620	3.3K	16K	82K	430K	2.2M	

Value Range	Digi-Key Part No.	10	50	200	5,000	10,000	Rohm Part No.
	Tape & Reel (5,000 / Reel)						
0.0 - 10MΩ	RHM(Value)ETR-ND	—	—	—	7.95/M	7.16/M	MCR18EZHJxxx
	Cut Tape						
0.0 - 10MΩ	RHM(Value)ECT-ND	.91	2.46	5.65	—	—	MCR18EZHJxxx

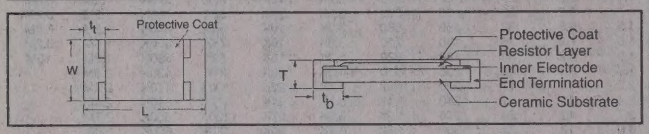
F

YAGEO Surface Mount 1% & 5% Thick Film Chip Resistors

DESCRIPTION: The resistors are constructed on a high grade ceramic body (aluminum oxide). Internal metal electrodes are added at each end and connected by a resistive paste which is applied to the top surface of the substrate. The composition of the paste is adjusted to give the approximate resistance required and the value is trimmed to within tolerance, by laser cutting of the resistive layer. The resistive layer is covered with a protective coat. Finally, the two external end terminations are added. For ease of soldering the outerlayer of these end terminations is a lead/tin alloy.

Size Code	0402		0603	
	1%	5%	1%	5%
Temperature Coefficient $1\Omega \le R \le 10\Omega$ $10\Omega \le R \le 10M\Omega$	0/+500 ≤±200	0/+500 ≤±200x10^{-6}/K	0/+500 ≤±100	0/+500 ≤±200x10^{-6}/K
Maximum dissipation at T_{amb} = 70°C	0.063W		0.1W	
Maximum permissible voltage	50V (DC or RMS)		50V (DC or RMS)	

Size Code	0805		1206	
	1%	5%	1%	5%
Temperature Coefficient $1\Omega \le R \le 10\Omega$ $10\Omega \le R \le 10M\Omega$	0/+500 ≤±100	0/+500 ≤±200x10^{-6}/K	0/+500 ≤±100	0/+500 ≤±200x10^{-6}/K
Maximum dissipation at T_{amb} = 70°C	0.125W		0.25W	
Maximum permissible voltage	150V (DC or RMS)		200V (DC or RMS)	



Type	Dimension (mm)				
	L	W	T	t_t	t_b
0402	1.00	0.50	0.35	0.20	0.25
0603	1.60	0.80	0.45	0.30	0.30
0805	2.00	1.25	0.55	0.40	0.40
1206	3.20	1.60	0.55	0.45	0.50

F

1%, 1/10 Watt — 0603 Series

Resistor Values

1.00	15.4	34.0	73.2	178	390	866	2.05K	4.42K	9.76K	23.2K	49.9K	118K	270K	576K
2.00	15.8	34.8	75.0	180	392	887	2.10K	4.53K	10.0K	23.7K	51.0K	120K	274K	590K
2.10	16.0	35.7	76.8	182	402	909	2.15K	4.64K	10.2K	24.0K	51.1K	121K	280K	604K
2.15	16.2	36.0	78.7	187	412	910	2.20K	4.70K	10.5K	24.3K	52.3K	124K	287K	619K
2.21	16.5	36.5	80.6	191	422	931	2.21K	4.75K	10.7K	24.9K	53.6K	127K	294K	620K
2.43	16.9	37.4	82.0	196	430	953	2.26K	4.87K	11.0K	25.5K	54.9K	130K	300K	634K
2.49	17.4	38.3	82.5	200	432	976	2.32K	4.99K	11.3K	26.1K	56.2K	133K	301K	649K
2.74	17.8	39.0	84.5	205	442	1.00K	2.37K	5.10K	11.5K	26.7K	57.6K	137K	309K	665K
3.01	18.0	39.2	88.7	210	453	1.02K	2.40K	5.11K	11.8K	27.0K	59.0K	140K	316K	680K
3.32	18.2	40.2	90.9	215	464	1.05K	2.43K	5.23K	12.0K	27.4K	60.4K	143K	324K	681K
3.92	18.7	41.2	91.0	220	470	1.07K	2.49K	5.36K	12.1K	28.0K	61.9K	147K	330K	698K
4.02	19.1	42.2	93.1	221	475	1.10K	2.55K	5.49K	12.4K	28.7K	62.0K	150K	332K	715K
4.42	19.6	43.0	95.3	226	487	1.13K	2.61K	5.60K	12.7K	29.4K	63.4K	154K	340K	732K
4.75	20.0	43.2	97.6	232	499	1.15K	2.67K	5.62K	13.0K	30.0K	64.9K	158K	348K	750K
5.11	20.5	44.2	100	237	510	1.18K	2.70K	5.76K	13.3K	30.1K	66.5K	160K	357K	768K
5.23	21.0	45.3	102	240	511	1.20K	2.74K	5.90K	13.7K	30.9K	68.0K	162K	360K	787K
5.62	21.5	46.4	105	243	523	1.21K	2.80K	6.04K	14.0K	31.6K	68.1K	165K	365K	806K
5.76	22.0	47.0	107	249	536	1.24K	2.87K	6.19K	14.3K	32.4K	69.8K	169K	374K	820K
6.04	22.1	47.5	110	255	549	1.27K	2.94K	6.20K	14.7K	33.0K	71.5K	174K	383K	825K
6.81	22.6	48.7	113	261	560	1.30K	3.00K	6.34K	15.0K	33.2K	73.2K	178K	390K	845K
7.50	23.2	49.9	115	267	562	1.33K	3.01K	6.49K	15.4K	34.0K	75.0K	180K	392K	866K
10.0	23.7	51.0	118	270	576	1.37K	3.09K	6.65K	15.8K	34.8K	76.8K	182K	402K	887K
10.2	24.0	51.1	120	274	590	1.40K	3.16K	6.80K	16.0K	35.7K	78.7K	187K	412K	909K
10.5	24.3	52.3	121	280	604	1.43K	3.24K	6.81K	16.2K	36.0K	80.6K	191K	422K	910K
10.7	24.9	53.6	124	287	619	1.47K	3.30K	6.98K	16.5K	36.5K	82.5K	196K	430K	931K
11.0	25.5	54.9	127	294	620	1.50K	3.32K	7.15K	16.9K	37.4K	84.5K	200K	432K	953K
11.3	26.1	56.0	130	300	634	1.54K	3.40K	7.32K	17.4K	38.3K	86.6K	205K	442K	976K
11.5	26.7	56.2	133	301	649	1.58K	3.48K	7.50K	17.8K	39.0K	88.7K	210K	453K	1.00M
11.8	27.0	57.6	137	309	665	1.60K	3.57K	7.68K	18.0K	39.2K	90.9K	215K	464K	1.20M
12.0	27.4	59.0	140	316	680	1.62K	3.60K	7.87K	18.2K	40.2K	91.0K	220K	470K	1.21M
12.1	28.0	60.4	143	324	681	1.65K	3.65K	8.06K	18.7K	41.2K	93.1K	221K	475K	1.50M
12.4	28.7	61.9	147	330	698	1.69K	3.74K	8.20K	19.1K	42.2K	95.3K	226K	487K	2.00M
12.7	29.4	62.0	150	332	715	1.74K	3.83K	8.25K	19.6K	43.0K	97.6K	232K	499K	2.21M
13.0	30.0	63.4	154	340	732	1.78K	3.90K	8.45K	20.0K	43.2K	100K	237K	510K	2.49M
13.3	30.1	64.9	158	348	750	1.80K	3.92K	8.66K	20.5K	44.2K	102K	240K	511K	2.94M
13.7	30.9	66.5	160	357	768	1.82K	4.02K	8.87K	21.0K	45.3K	105K	243K	523K	3.01M
14.0	31.6	68.0	162	360	787	1.87K	4.12K	9.09K	21.5K	46.4K	107K	249K	536K	4.70M
14.3	32.4	68.1	165	365	806	1.91K	4.22K	9.10K	22.0K	47.0K	110K	255K	549K	4.75M
14.7	33.0	69.8	169	374	825	1.96K	4.30K	9.31K	22.1K	47.5K	113K	261K	560K	10.0M
15.0	33.2	71.5	174	383	845	2.00K	4.32K	9.53K	22.6K	48.7K	115K	267K	562K	

Value Range	Digi-Key Part No.	Pricing 10	50	200	5,000	10,000	Yageo Part No.
1/10 Watt, 1% Thick Film Chip Resistors (Tape & Reel) 5,000 / Reel							
1.00 - 7.50 Ω	311-(Value)HTR-ND	—	—	—	4.80/M	4.32/M	9C06031AXXXXFGHFT
10.0 - 10.0M Ω	311-(Value)HTR-ND	—	—	—	4.80/M	4.32/M	9C06031AXXXXFKHFT
1/10 Watt, 1% Thick Film Chip Resistors (Cut Tape)							
1.00 - 7.50 Ω	311-(Value)HCT-ND	.77	2.07	4.76	—	—	9C06031AXXXXFGHFT
10.0 - 10.0M Ω	311-(Value)HCT-ND	.77	2.07	4.76	—	—	9C06031AXXXXFKHFT

Digi-Key™ Assortment Kits 0603 Series 1% Thick Film Chip Resistor Kits - 1/10 Watt

PHH1-KIT-ND 50 each of values 1.00Ω to 7.50Ω
22 values (1,100 total pieces) **$19.95**

PHH2-KIT-ND 50 each of values 10.0Ω to 97.6Ω
113 values (5,650 total pieces) **$79.95**

PHH3-KIT-ND 50 each of values 100Ω to 976Ω
114 values (5,700 total pieces) **$79.95**

PHH4-KIT-ND 50 each of values 1.00KΩ to 9.76KΩ
114 values (5,700 total pieces) **$79.95**

PHH5-KIT-ND 50 each of values 10.0KΩ to 97.6KΩ
114 values (5,700 total pieces) **$79.95**

PHH6-KIT-ND 50 each of values 100KΩ to 1.00MΩ
116 values (5,800 total pieces) **$79.95**

1%, 1/16 Watt — 0402 Series

Resistor Valu

1.00	51.0	220	511	1.80K	3.92K	7.87K	12.0K	21.0K	36.0K	51.0K	82.0K	124K	261K
4.70	56.0	280	560	1.82K	4.30K	8.06K	12.1K	22.0K	39.0K	51.1K	82.5K	127K	270K
10.0	62.0	300	620	1.96K	4.64K	8.20K	13.0K	22.1K	39.2K	53.6K	88.7K	150K	300K
22.0	68.0	301	680	2.20K	5.10K	8.87K	14.0K	24.9K	40.2K	56.0K	90.9K	180K	301K
24.9	68.1	330	715	2.21K	5.36K	9.10K	15.0K	26.1K	42.2K	60.4K	91.0K	187K	332K
26.1	75.0	332	910	2.40K	5.49K	9.53K	16.0K	27.0K	43.0K	61.9K	95.3K	200K	360K
28.0	100	430	1.00K	2.70K	5.62K	10.0K	16.2K	28.0K	45.3K	62.0K	97.6K	210K	430K
33.0	120	464	1.10K	3.01K	6.20K	10.7K	17.4K	30.0K	46.4K	64.9K	100K	220K	442K
36.0	150	470	1.20K	3.30K	6.49K	11.0K	18.0K	30.1K	47.0K	68.0K	110K	226K	470K
39.0	160	499	1.21K	3.74K	6.80K	11.3K	19.1K	33.0K	47.5K	78.7K	120K	240K	499K
49.9	180	510	1.50K	3.90K	7.50K	11.5K	20.0K	35.7K	49.9K	80.6K	121K	249K	510K

Value Range	Digi-Key Part No.	Pricing 10	50	200	10,000	30,000	Yageo Part No.
1/16 Watt, 1% Thick Film Chip Resistors (Tape & Reel) 10,000 / Reel							
1.00 - 4.70 Ω	311-(Value)LTR-ND	—	—	—	7.56/M	6.72/M	9C04021AXXXXFGH
10.0 - 3.60M Ω	311-(Value)LTR-ND	—	—	—	7.56/M	6.72/M	9C04021AXXXXFLH
1/16 Watt, 1% Thick Film Chip Resistors (Cut Tape)							
1.00 - 4.70 Ω	311-(Value)LCT-ND	.94	2.52	5.78	—	—	9C0402A1XXXXFGH
10.0 - 3.60M Ω	311-(Value)LCT-ND	.94	2.52	5.78	—	—	9C0402A1XXXXFLH

Digi-Key™ Assortment Kits 0402 Series 1% Thick Film Chip Resistor Kits - 1/16 Watt

PHL1-KIT-ND 50 each of values 1.00Ω to 75.0Ω
17 values (850 total pieces) **$20.95**

PHL2-KIT-ND 50 each of values 100Ω to 910Ω
22 values (1,100 total pieces) **$25.95**

PHL3-KIT-ND 50 each of values 1.00KΩ to 9.53K
33 values (1,650 total pieces) ..... **$35.**

PHL4-KIT-ND 50 each of values 10.0KΩ to 97.6K
56 values (2,800 total pieces) ..... **$59.**

PHL5-KIT-ND 50 each of values 100KΩ to 1.00M
32 values (1,600 total pieces) ..... **$39.**

1%, 1/8 Watt — 0805 Series

Resistor Valu

1.00	3.01	8.66	24.9	63.4	180	475	1.30K	3.57K	9.10K	26.1K	66.5K	187K	487K	1.43M
1.02	3.09	8.87	25.5	64.9	182	487	1.33K	3.60K	9.31K	26.7K	68.0K	191K	499K	1.47M
1.05	3.16	9.09	26.1	66.5	187	499	1.37K	3.65K	9.53K	27.0K	68.1K	196K	510K	1.50M
1.07	3.24	9.31	26.7	68.0	191	510	1.40K	3.74K	9.76K	27.4K	69.8K	200K	511K	1.54M
1.10	3.32	9.53	27.0	68.1	196	511	1.43K	3.83K	10.0K	28.0K	71.5K	205K	523K	1.58M
1.13	3.40	9.76	27.4	69.8	200	523	1.47K	3.90K	10.2K	28.7K	73.2K	210K	536K	1.62M
1.15	3.48	10.0	28.0	71.5	205	536	1.50K	3.92K	10.5K	29.4K	75.0K	215K	549K	1.65M
1.18	3.57	10.2	28.7	73.2	210	549	1.54K	4.02K	10.7K	30.0K	76.8K	220K	560K	1.69M
1.21	3.65	10.5	29.4	75.0	215	560	1.58K	4.12K	11.0K	30.1K	78.7K	221K	562K	1.74M
1.24	3.74	10.7	30.0	76.8	221	562	1.60K	4.22K	11.3K	30.9K	80.6K	226K	576K	1.80M
1.27	3.83	11.0	30.1	78.7	226	576	1.62K	4.30K	11.5K	31.6K	82.0K	232K	590K	1.82M
1.30	3.90	11.3	30.9	80.6	232	590	1.65K	4.32K	11.8K	32.4K	82.5K	237K	604K	1.87M
1.33	3.92	11.5	31.6	82.0	237	604	1.69K	4.42K	12.0K	33.0K	84.5K	240K	619K	1.91M
1.37	4.02	11.8	32.4	82.5	240	619	1.74K	4.53K	12.1K	33.2K	86.6K	243K	620K	1.96M
1.40	4.12	12.0	33.0	84.5	243	620	1.78K	4.64K	12.4K	34.0K	88.7K	249K	634K	2.00M
1.43	4.22	12.1	33.2	86.6	249	634	1.80K	4.70K	12.7K	34.8K	90.9K	255K	649K	2.05M
1.47	4.32	12.4	34.0	88.7	255	649	1.82K	4.75K	13.0K	35.7K	91.0K	261K	665K	2.10M
1.50	4.42	12.7	34.8	90.9	261	665	1.87K	4.87K	13.3K	36.0K	93.1K	267K	680K	2.15M
1.54	4.53	13.0	35.7	91.0	267	680	1.91K	4.99K	13.7K	36.5K	95.3K	270K	681K	2.20M
1.58	4.64	13.3	36.0	93.1	270	681	1.96K	5.10K	14.0K	37.4K	97.6K	274K	698K	2.21M
1.62	4.70	13.7	36.5	95.3	274	698	2.00K	5.11K	14.3K	38.3K	100K	280K	715K	2.26M
1.65	4.75	14.0	37.4	97.6	280	715	2.05K	5.23K	14.7K	39.0K	102K	287K	732K	2.32M
1.69	4.87	14.3	38.3	100	287	732	2.10K	5.36K	15.0K	39.2K	105K	294K	750K	2.37M
1.74	4.99	14.7	39.0	102	294	750	2.15K	5.49K	15.4K	40.2K	107K	300K	768K	2.43M
1.78	5.11	15.0	39.2	105	300	768	2.20K	5.60K	15.8K	41.2K	110K	301K	787K	2.49M
1.80	5.23	15.4	40.2	107	301	787	2.21K	5.62K	16.0K	42.2K	113K	309K	806K	2.55M
1.82	5.36	15.8	41.2	110	309	806	2.26K	5.76K	16.2K	43.0K	115K	316K	820K	2.61M
1.87	5.49	16.0	42.2	113	316	820	2.32K	5.90K	16.5K	43.2K	118K	324K	825K	2.67M
1.91	5.60	16.2	43.0	115	324	825	2.37K	6.04K	16.9K	44.2K	120K	330K	845K	2.74M
1.96	5.62	16.5	43.2	118	330	845	2.40K	6.19K	17.4K	45.3K	121K	332K	866K	2.80M
2.00	5.76	16.9	44.2	120	332	866	2.43K	6.20K	17.8K	46.4K	124K	340K	887K	2.87M
2.05	5.90	17.4	45.3	121	340	887	2.49K	6.34K	18.0K	47.0K	127K	348K	909K	2.94M
2.10	6.04	17.8	46.4	124	348	909	2.55K	6.49K	18.2K	47.5K	130K	357K	931K	3.01M
2.15	6.19	18.0	47.0	127	357	910	2.61K	6.65K	18.7K	48.7K	133K	360K	953K	3.09M
2.20	6.20	18.2	47.5	130	360	931	2.67K	6.80K	19.1K	49.9K	137K	365K	976K	3.16M
2.21	6.34	18.7	48.7	133	365	953	2.70K	6.81K	19.6K	51.0K	140K	374K	1.00M	3.24M
2.26	6.49	19.1	49.9	137	374	976	2.74K	6.98K	20.0K	51.1K	143K	383K	1.05M	3.30M
2.32	6.65	19.6	51.0	140	383	1.00K	2.80K	7.15K	20.5K	52.3K	147K	390K	1.10M	3.32M
2.37	6.80	20.0	51.1	143	390	1.02K	2.87K	7.32K	21.0K	53.6K	150K	392K	1.13M	3.40M
2.43	6.81	20.5	52.3	147	392	1.05K	2.94K	7.50K	21.5K	54.9K	154K	402K	1.15M	3.48M
2.49	6.98	21.0	53.6	150	402	1.07K	3.00K	7.68K	22.0K	56.0K	158K	412K	1.18M	3.57M
2.55	7.15	21.5	54.9	154	412	1.10K	3.01K	7.87K	22.1K	56.2K	160K	422K	1.20M	3.65M
2.61	7.32	22.0	56.0	158	422	1.13K	3.09K	8.06K	22.6K	57.6K	162K	430K	1.21M	3.74M
2.67	7.50	22.1	56.2	160	430	1.15K	3.16K	8.20K	23.2K	59.0K	165K	432K	1.24M	3.83M
2.74	7.68	22.6	57.6	162	432	1.18K	3.24K	8.25K	23.7K	60.4K	169K	442K	1.27M	3.92M
2.80	7.87	23.2	59.0	165	442	1.20K	3.30K	8.45K	24.0K	61.9K	174K	453K	1.30M	4.02M
2.87	8.06	23.7	60.4	169	453	1.21K	3.32K	8.66K	24.3K	62.0K	178K	464K	1.33M	4.12M
2.94	8.25	24.0	61.9	174	464	1.24K	3.40K	8.87K	24.9K	63.4K	180K	470K	1.37M	4.22M
3.00	8.45	24.3	62.0	178	470	1.27K	3.48K	9.09K	25.5K	64.9K	182K	475K	1.40M	4.32M

Value Range	Digi-Key Part No.	Pricing 10	50	200	5,000	10,000	Yageo Part No.
1/8 Watt, 1% Thick Film Chip Resistors (Tape & Reel) 5,000 / Reel							
1.00 - 9.76 Ω	311-(Value)CTR-ND	—	—	—	5.40/M	4.86/M	9C08052AXXXXFGI
10.0 - 10.0M Ω	311-(Value)CTR-ND	—	—	—	5.40/M	4.86/M	9C08052AXXXXFKI
1/8 Watt, 1% Thick Film Chip Resistors (Cut Tape)							
1.00 - 9.76 Ω	311-(Value)CCT-ND	.80	2.15	4.93	—	—	9C08052AXXXXFGI
10.0 - 10.0M Ω	311-(Value)CCT-ND	.80	2.15	4.93	—	—	9C08052AXXXXFKI

Digi-Key™ Assortment Kits 0805 Series 1% Thick Film Chip Resistor Kits - 1/8 Watt

PHC1A-KIT-ND 50 each of values 1.00Ω to 9.76Ω
104 values (5,200 total pieces) **$79.95**

PHC1-KIT-ND 200 each of values 1.00Ω to 9.76Ω
104 values (20,800 total pieces) **$169.95**

PHC2A-KIT-ND 50 each of values 10.0Ω to 97.6Ω
114 values (5700 total pieces) **$79.95**

PHC2-KIT-ND 200 each of values 10.0Ω to 97.6Ω
114 values (22,800 total pieces) **$169.95**

PHC3A-KIT-ND 50 each of values 100Ω to 976Ω
114 values (5700 total pieces) **$79.95**

PHC3-KIT-ND 200 each of values 100Ω to 976Ω
114 values (22,800 total pieces) **$169.95**

PHC4A-KIT-ND 50 each of values 1.00KΩ to 9.76K
114 values (5,700 total pieces) ..... **$79.**

PHC4-KIT-ND 200 each of values 1.00KΩ to 9.76K
114 values (22,800 total pieces) ..... **$169.**

PHC5A-KIT-ND 50 each of values 10.0KΩ to 97.6K
113 values (5,650 total pieces) ..... **$79.**

PHC5-KIT-ND 200 each of values 10.0KΩ to 97.6K
113 values (22,600 total pieces) ..... **$169.**

PHC6A-KIT-ND 50 each of values 100KΩ to 1.00M
115 values (5,750 total pieces) ..... **$79.**

PHC6-KIT-ND 200 each of values 100KΩ to 1.00M
115 values (23,000 total pieces) ..... **$169.**

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%, 1/4 Watt — 1206 Series

Resistor Values

2.87	7.68	22.1	59.0	174	464	1.30K	3.60K	9.53K	28.0K	75.0K	220K	562K	1.62M	4.30M
2.94	7.87	22.6	60.4	178	470	1.33K	3.65K	9.76K	28.7K	76.8K	221K	576K	1.65M	4.32M
3.00	8.06	23.2	61.9	180	475	1.37K	3.74K	10.0K	29.4K	78.7K	226K	590K	1.69M	4.42M
3.01	8.20	23.7	62.0	182	487	1.40K	3.83K	10.2K	30.0K	80.6K	232K	604K	1.74M	4.53M
3.09	8.25	24.0	63.4	187	499	1.43K	3.90K	10.5K	30.1K	82.0K	237K	619K	1.78M	4.64M
3.16	8.45	24.3	64.9	191	510	1.47K	3.92K	10.7K	30.9K	82.5K	240K	620K	1.80M	4.70M
3.24	8.66	24.9	66.5	196	511	1.50K	4.02K	11.0K	32.4K	84.5K	243K	634K	1.82M	4.75M
3.30	8.87	25.5	68.0	200	523	1.54K	4.12K	11.3K	33.0K	86.6K	249K	649K	1.87M	4.87M
3.32	9.09	26.1	68.1	205	536	1.58K	4.22K	11.5K	33.2K	88.7K	255K	665K	1.91M	4.99M
3.40	9.10	26.7	69.8	210	549	1.60K	4.30K	11.8K	34.0K	90.9K	261K	680K	1.92M	5.10M
3.48	9.31	27.0	71.5	215	560	1.62K	4.32K	12.0K	34.8K	91.0K	267K	681K	1.96M	5.11M
3.57	9.53	27.4	73.2	220	562	1.65K	4.42K	12.1K	35.7K	93.1K	270K	698K	2.00M	5.23M
3.60	9.76	28.0	75.0	221	576	1.69K	4.53K	12.4K	36.0K	95.3K	274K	715K	2.05M	5.36M
3.65	10.0	28.7	76.8	226	590	1.74K	4.64K	12.7K	36.5K	97.6K	280K	732K	2.10M	5.49M
3.74	10.2	29.4	78.7	232	604	1.78K	4.70K	13.0K	37.4K	100K	287K	750K	2.15M	5.60M
3.83	10.5	30.0	80.6	237	619	1.80K	4.75K	13.3K	38.3K	102K	294K	768K	2.20M	5.62M
3.90	10.7	30.1	82.5	240	620	1.82K	4.87K	13.7K	39.0K	105K	300K	787K	2.21M	5.76M
3.92	11.0	30.9	84.5	243	634	1.87K	4.99K	14.0K	39.2K	107K	301K	806K	2.26M	5.90M
4.12	11.3	31.6	86.6	249	649	1.91K	5.10K	14.3K	40.2K	110K	309K	820K	2.32M	6.04M
4.22	11.5	32.4	88.7	255	665	1.96K	5.11K	14.7K	41.2K	113K	316K	825K	2.37M	6.19M
4.30	11.8	33.0	90.9	261	680	2.00K	5.23K	15.0K	42.2K	115K	324K	845K	2.40M	6.20M
4.32	12.0	33.2	91.0	267	681	2.05K	5.36K	15.4K	43.0K	118K	330K	866K	2.43M	6.34M
4.42	12.1	34.0	93.1	270	698	2.10K	5.49K	15.8K	43.2K	120K	332K	887K	2.49M	6.49M
4.53	12.4	34.8	95.3	274	715	2.15K	5.60K	16.0K	44.2K	121K	340K	909K	2.55M	6.65M
4.64	12.7	35.7	97.6	280	732	2.20K	5.62K	16.2K	45.3K	124K	348K	910K	2.61M	6.80M
4.70	13.0	36.0	100	287	768	2.21K	5.76K	16.5K	46.4K	127K	357K	931K	2.67M	6.81M
4.75	13.3	36.5	102	294	787	2.26K	5.90K	16.9K	47.0K	130K	360K	953K	2.70M	6.98M
4.87	13.7	37.4	105	300	806	2.32K	6.04K	17.4K	47.5K	133K	365K	976K	2.74M	7.15M
4.99	14.0	38.3	107	301	820	2.37K	6.19K	17.8K	48.7K	137K	374K	1.00M	2.80M	7.32M
5.10	14.3	39.0	110	309	825	2.40K	6.20K	18.0K	49.9K	140K	383K	1.02M	2.87M	7.50M
5.11	14.7	39.2	113	316	845	2.43K	6.34K	18.2K	51.0K	143K	390K	1.05M	2.94M	7.68M
5.23	15.0	40.2	115	324	866	2.49K	6.49K	18.7K	51.1K	147K	392K	1.07M	3.00M	7.87M
5.36	15.4	41.2	118	330	887	2.55K	6.65K	19.1K	52.3K	150K	402K	1.10M	3.01M	8.06M
5.49	15.8	42.2	120	332	909	2.61K	6.80K	19.6K	53.6K	154K	412K	1.13M	3.09M	8.20M
5.60	16.0	43.0	121	340	910	2.67K	6.81K	20.0K	54.9K	158K	422K	1.15M	3.16M	8.25M
5.62	16.2	43.2	124	348	931	2.70K	6.98K	20.5K	56.0K	160K	430K	1.18M	3.24M	8.45M
5.76	16.5	44.2	127	357	953	2.74K	7.15K	21.0K	56.2K	162K	432K	1.20M	3.30M	8.66M
5.90	16.9	45.3	130	360	976	2.80K	7.32K	21.5K	57.6K	165K	442K	1.21M	3.32M	8.87M
6.04	17.4	46.4	133	365	1.00K	2.87K	7.50K	22.0K	59.0K	169K	453K	1.24M	3.40M	9.09M
6.19	17.8	47.0	137	374	1.02K	2.94K	7.68K	22.1K	60.4K	174K	464K	1.27M	3.48M	9.10M
6.20	18.0	47.5	140	383	1.05K	3.00K	7.87K	22.6K	61.9K	178K	470K	1.30M	3.57M	9.31M
6.34	18.2	48.7	143	390	1.07K	3.01K	8.06K	23.2K	62.0K	180K	475K	1.33M	3.60M	9.53M
6.49	18.7	49.9	147	392	1.10K	3.09K	8.20K	23.7K	63.4K	182K	487K	1.37M	3.65M	9.76M
6.65	19.1	51.1	150	402	1.13K	3.16K	8.25K	24.0K	64.9K	187K	499K	1.40M	3.74M	10.0M
6.80	19.6	52.3	154	412	1.15K	3.24K	8.45K	24.3K	66.5K	191K	510K	1.43M	3.83M	
6.81	20.0	53.6	158	422	1.18K	3.30K	8.66K	24.9K	68.0K	196K	511K	1.47M	3.90M	
6.98	20.5	54.9	160	430	1.20K	3.32K	8.87K	25.5K	68.1K	200K	523K	1.50M	3.92M	
7.15	21.0	56.0	162	432	1.21K	3.40K	9.09K	26.1K	69.8K	205K	536K	1.54M	4.02M	
7.32	21.5	56.2	165	442	1.24K	3.48K	9.10K	26.7K	71.5K	210K	549K	1.58M	4.12M	
7.50	22.0	57.6	169	453	1.27K	3.57K	9.31K	27.0K	73.2K	215K	560K	1.60M	4.22M	

Value Range	Digi-Key Part No.	10	50	200	5,000	10,000	Yageo Part No.
1/4 Watt, 1% Thick Film Chip Resistors (Tape & Reel) 5,000 / Reel							
00 - 9.76Ω	311-(Value)FTR-ND	—	—	—	7.20/M	6.48/M	9C12063AXXXXFGHFT
0 - 10.0M Ω	311-(Value)FTR-ND	—	—	—	7.20/M	6.48/M	9C12063AXXXXFKHFT
1/4 Watt, 1% Thick Film Chip Resistors (Cut Tape)							
00 - 9.76Ω	311-(Value)FCT-ND	.88	2.37	5.44	—	—	9C12063AXXXXFGHFT
0 - 10.0M Ω	311-(Value)FCT-ND	.88	2.37	5.44	—	—	9C12063AXXXXFKHFT

Digi-Key™ Assortment Kits 1206 Series 1% Thick Film Chip Resistor Kits - 1/4 Watt

F1A-KIT-ND 50 each of values 1.00Ω to 9.76Ω 4 values (5,700 total pieces) **$125.95**

F1-KIT-ND 200 each of values 1.00Ω to 9.76Ω 4 values (22,800 total pieces) **$239.95**

F2A-KIT-ND 50 each of values 10.0Ω to 97.6Ω 4 values (5700 total pieces) **$125.95**

F2-KIT-ND 200 each of values 10.0Ω to 97.6Ω 4 values (22,800 total pieces) **$239.95**

F3A-KIT-ND 50 each of values 100Ω to 976Ω 4 values (5,700 total pieces) **$125.95**

F3-KIT-ND 200 each of values 100Ω to 976Ω 4 values (22,800 total pieces) **$239.95**

PHF4A-KIT-ND 50 each of values 1.00KΩ to 9.76KΩ 114 values (5,700 total pieces) **$125.95**

PHF4-KIT-ND 200 each of values 1.00KΩ to 9.76KΩ 114 values (22,800 total pieces) **$239.95**

PHF5A-KIT-ND 50 each of values 10.0KΩ to 97.6KΩ 113 values (5,650 total pieces) **$125.95**

PHF5-KIT-ND 200 each of values 10.0KΩ to 97.6KΩ 113 values (22,600 total pieces) **$239.95**

PHF6A-KIT-ND 50 each of values 100KΩ to 1.00MΩ 115 values (5,750 total pieces) **$125.95**

PHF6-KIT-ND 200 each of values 100KΩ to 1.00MΩ 115 values (23,000 total pieces) **$239.95**

%, 1/16 Watt — 0402 Series

Resistor Values

3.9	12	33	68	180	360	680	2.0K	3.9K	7.5K	22K	47K	120K	330K	3.0M
4.3	15	36	75	200	390	820	2.2K	4.3K	8.2K	24K	56K	150K	430K	3.3M
4.7	18	39	82	220	430	910	2.4K	4.7K	10K	27K	62K	180K	470K	
5.1	20	43	91	240	470	1.0K	2.7K	5.1K	11K	30K	68K	200K	560K	
5.6	22	47	100	270	510	1.2K	3.0K	5.6K	12K	33K	82K	220K	680K	
8.2	27	51	150	300	560	1.5K	3.3K	6.2K	15K	39K	100K	270K	1.0M	
10	30	56	160	330	620	1.8K	3.6K	6.8K	18K	43K	110K	300K	1.5M	

Value Range	Digi-Key Part No.	10	50	200	10,000	30,000	Yageo Part No.
1/16 Watt, 5% Thick Film Chip Resistors (Tape & Reel) 10,000 / Reel							
3.30M Ω	311-(Value)JTR-ND	—	—	—	4.86/M	4.32/M	9C04021AXXXXJLHF3
1/16 Watt, 5% Thick Film Chip Resistors (Cut Tape)							
3.30M Ω	311-(Value)JCT-ND	.80	2.15	4.93	—	—	9C04021AXXXXJLHF3

Digi-Key™ Assortment Kits 0402 Series 5% Thick Film Chip Resistor Kits - 1/16 Watt

J1A-KIT-ND 50 each of every other value from 1.0, , 3.0, 3.9, etc. to 1.0MΩ 52 values (2,600 total ces) **$45.95**

J1-KIT-ND 200 each of every other value from 1.0, , 3.0, 3.9, etc. to 1.0MΩ 52 values (10,400 total ces) **$85.95**

PHJ2A-KIT-ND 50 each of every other value from 1.1, 2.2, 3.3, 4.3, etc. to 680KΩ 51 values (2,550 total pieces) **$45.95**

PHJ2-KIT-ND 200 each of every other value from 1.1, 2.2, 3.3, 4.3, etc. to 680KΩ 51 values (10,200 total pieces) **$85.95**

5%, 1/10 Watt — 0603 Series

Resistor Values

0.0	3.0	8.2	24	68	200	560	1.6K	4.7K	13K	39K	110K	330K	910K	2.7M	8.2M
1.0	3.3	9.1	27	75	220	620	1.8K	5.1K	15K	43K	120K	360K	1.0M	3.0M	10M
1.1	3.6	10	30	82	240	680	2.0K	5.6K	16K	47K	130K	390K	1.1M	3.3M	
1.2	3.9	11	33	91	270	750	2.2K	6.2K	18K	51K	150K	430K	1.2M	3.6M	
1.3	4.3	12	36	100	300	820	2.4K	6.8K	20K	56K	160K	470K	1.3M	3.9M	
1.5	4.7	13	39	110	330	910	2.7K	7.5K	22K	62K	180K	510K	1.5M	4.3M	
1.6	5.1	15	43	120	360	1.0K	3.0K	8.2K	24K	68K	200K	560K	1.6M	4.7M	
1.8	5.6	16	47	130	390	1.1K	3.3K	9.1K	27K	75K	220K	620K	1.8M	5.1M	
2.2	6.2	18	51	150	430	1.2K	3.6K	10K	30K	82K	240K	680K	2.0M	5.6M	
2.4	6.8	20	56	160	470	1.3K	3.9K	11K	33K	91K	270K	750K	2.2M	6.2M	
2.7	7.5	22	62	180	510	1.5K	4.3K	12K	36K	100K	300K	820K	2.4M	6.8M	

Value Range	Digi-Key Part No.	10	50	200	5,000	10,000	Yageo Part No.
1/10 Watt, 5% Thick Film Chip Resistors (Tape & Reel) 5,000 / Reel							
0.0 - 10M Ω	311-(Value)GTR-ND	—	—	—	3.30/M	2.97/M	9C06031AXXXXJLHFT
1/10 Watt, 5% Thick Film Chip Resistors (Cut Tape)							
0.0 - 10M Ω	311-(Value)GCT-ND	.70	1.89	4.34	—	—	9C06031AXXXXJLHFT

Digi-Key™ Assortment Kits 0603 Series 5% Thick Film Chip Resistor Kits - 1/10 Watt

PHG1A-KIT-ND 50 each of every other value from 1.0, 1.2, 1.5, 1.8, etc. to 910KΩ 72 values (3,600 total pieces) **$49.95**

PHG1-KIT-ND 200 each of every other value from 1.0, 1.2, 1.5, 1.8, etc. to 910KΩ 72 values (14,400 total pieces) **$89.95**

PHG2A-KIT-ND 50 each of every other value from 1.1, 1.3, 1.6, 2.2, etc. to 1.0MΩ 72 values (3,600 total pieces) **$49.95**

PHG2-KIT-ND 200 each of every other value from 1.1, 1.3, 1.6, 2.2, etc. to 1.0MΩ 72 values (14,400 total pieces) **$89.95**

5%, 1/8 Watt — 0805 Series

Resistor Values

0.0	2.7	7.5	22	62	180	560	1.6K	4.7K	13K	39K	110K	330K	910K	2.7M	7.5M
1.0	3.0	8.2	24	68	200	620	1.8K	5.1K	15K	43K	120K	360K	1.0M	3.0M	8.2M
1.1	3.3	9.1	27	75	240	680	2.0K	5.6K	16K	47K	130K	390K	1.1M	3.3M	9.1M
1.2	3.6	10	30	82	270	750	2.2K	6.2K	18K	51K	150K	430K	1.2M	3.6M	10M
1.3	3.9	11	33	91	300	820	2.4K	6.8K	20K	56K	160K	470K	1.3M	3.9M	
1.5	4.3	12	36	100	330	910	2.7K	7.5K	22K	62K	180K	510K	1.5M	4.3M	
1.6	4.7	13	39	110	360	1.0K	3.0K	8.2K	24K	68K	200K	560K	1.6M	4.7M	
1.8	5.1	15	43	120	390	1.1K	3.3K	9.1K	27K	75K	220K	620K	1.8M	5.1M	
2.0	5.6	16	47	130	430	1.2K	3.6K	10K	30K	82K	240K	680K	2.0M	5.6M	
2.2	6.2	18	51	150	470	1.3K	3.9K	11K	33K	91K	270K	750K	2.2M	6.2M	
2.4	6.8	20	56	160	510	1.5K	4.3K	12K	36K	100K	300K	820K	2.4M	6.8M	

Value Range	Digi-Key Part No.	10	50	200	5,000	10,000	Yageo Part No.
1/8 Watt, 5% Thick Film Chip Resistors (Tape & Reel) 5,000 / Reel							
0.0 - 10M Ω	311-(Value)ATR-ND	—	—	—	4.50/M	4.05/M	9C08052AXXXXJLHFT
1/8 Watt, 5% Thick Film Chip Resistors (Cut Tape)							
0.0 - 10M Ω	311-(Value)ACT-ND	.76	2.04	4.68	—	—	9C08052AXXXXJLHFT

Digi-Key™ Assortment Kits 0805 Series 5% Thick Film Chip Resistor Kits - 1/8 Watt

PHA1A-KIT-ND 50 each of every other value from 1.0, 1.2, 1.5, 1.8, to 1.0MΩ 73 values (3,650 total pieces) **$59.95**

PHA1-KIT-ND 200 each of every other value from 1.0, 1.2, 1.5, 1.8, to 1.0MΩ 73 values (14,600 total pieces) **$109.95**

PHA2A-KIT-ND 50 each of every other value from 1.1, 1.3, 1.6, 2.0, to 910KΩ 72 values (3,600 total pieces) **$59.95**

PHA2-KIT-ND 200 each of every other value from 1.1, 1.3, 1.6, 2.0, to 910KΩ 72 values (14,400 total pieces) **$109.95**

5%, 1/4 Watt — 1206 Series

Resistor Values

0.0	2.7	7.5	27	82	270	750	2.2K	6.2K	18K	51K	150K	430K	1.2M	3.6M	10M
1.0	3.0	8.2	30	100	300	820	2.4K	6.8K	20K	56K	160K	470K	1.3M	3.9M	11M
1.1	3.3	9.1	33	110	330	910	2.7K	7.5K	22K	62K	180K	510K	1.5M	4.3M	12M
1.2	3.6	10	36	120	360	1.0K	3.0K	8.2K	24K	68K	200K	560K	1.6M	4.7M	13M
1.3	3.9	12	39	130	390	1.1K	3.3K	9.1K	27K	75K	220K	620K	1.8M	5.1M	
1.5	4.3	15	43	150	430	1.2K	3.6K	10K	30K	82K	240K	680K	2.0M	5.6M	
1.6	4.7	16	51	160	470	1.3K	3.9K	11K	33K	91K	270K	750K	2.2M	6.2M	
1.8	5.1	18	56	180	510	1.5K	4.3K	12K	36K	100K	300K	820K	2.4M	6.8M	
2.0	5.6	20	62	200	560	1.6K	4.7K	13K	39K	110K	330K	910K	2.7M	7.5M	
2.2	6.2	22	68	220	620	1.8K	5.1K	15K	43K	120K	360K	1.0M	3.0M	8.2M	
2.4	6.8	24	75	240	680	2.0K	5.6K	16K	47K	130K	390K	1.1M	3.3M	9.1M	

Value Range	Digi-Key Part No.	10	50	200	5,000	10,000	Yageo Part No.
1/4 Watt, 5% Thick Film Chip Resistors (Tape & Reel) 5,000 / Reel							
0.0 - 13M Ω	311-(Value)ETR-ND	—	—	—	5.10/M	4.59/M	9C12063AXXXXJLHFT
1/4 Watt, 5% Thick Film Chip Resistors (Cut Tape)							
0.0 - 13M Ω	311-(Value)ECT-ND	.78	2.11	4.85	—	—	9C12063AXXXXJLHFT

Digi-Key™ Assortment Kits 1206 Series 5% Thick Film Chip Resistor Kits - 1/4 Watt

PHE1A-KIT-ND 50 each of every other value from 1.0, 1.2, 1.5, 1.8, etc. to 910KΩ 72 values (3,600 total pieces) **$59.95**

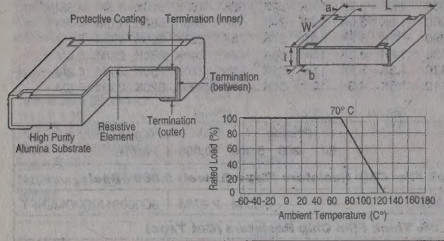
PHE1-KIT-ND 200 each of every other value from 1.0, 1.2, 1.5, 1.8, etc. to 910KΩ 72 values (14,400 total pieces) **$109.95**

PHE2A-KIT-ND 50 each of every other value from 1.1, 1.3, 1.6, 2.0, etc. to 1.0MΩ 72 values (3,600 total pieces) **$59.95**

PHE2-KIT-ND 200 each of every other value from 1.1, 1.3, 1.6, 2.0, etc. to 1.0MΩ 72 values (14,400 total pieces) **$109.95**

F

Panasonic 0201 / 0402 / 0603 / 0805 / 1206 / 1210 / 2010 / 2512
1% Precision Thick Film Chip Resistors
Surface Mount Available In 1/20, 1/16, 1/10, 1/8, 1/4, 1/2 and 1 Watt



Size	Power Rating at 70°	Maximum RCWV*	Maximum Overload Voltage	Dimensions L	W	a	b	t	Temperature Coefficient	Panasonic Part No.
0201	1/20 W	15 V	30 V	0.60	0.30	0.12	0.15	0.25	10 ~ 1MΩ±100ppm/°C	ERJ-1GEFxxx(
0402	1/16 W	50 V	100 V	1.00	0.50	0.20	0.25	0.35	10 ~ 91Ω±100ppm/°C, 100 ~ 100K±50ppm/°C 10 ~ 1MΩ±100ppm/°C	ERJ-2RKFxxx
0603	1/16 W - (1/10 W)**	50 V	100 V	1.60	0.80	0.30	0.30	0.45	10 ~ 1MΩ±100ppm/°C	ERJ-3EKFxxx
0805	1/10 W - (1/8 W)**	150 V	200 V	2.00	1.25	0.40	0.40	0.60	10 ~ 2.2MΩ±100ppm/°C	ERJ-6ENFxxx
1206	1/8 W - (1/4 W)**	200 V	400 V	3.20	1.60	0.50	0.50	0.60		ERJ-8ENFxxx
1210	1/4 W	200 V	400 V	3.20	2.50	0.50	0.50	0.60		ERJ-14NFxxx
2010	1/2 W	200 V	400 V	5.00	2.50	0.60	0.60	0.60	10 ~ 1MΩ±100ppm/°C	ERJ-12SFxxx
2512	1 W	200 V	400 V	6.40	3.20	0.65	0.60	0.60		ERJ-1TYFxxx

* Rated Continuous Working Voltage (RCWV) shall be determined from RCWV = √Power Rating x Resistance Values, or max. RCWV listed above, whichever is l
** Available for reduction of load of pulse characteristics (RCWV x 2.5 RCWV x 2.0, R≥1.1kΩ)√600

Description	Value Range (Ω)	Digi-Key Part No.	Cut Tape Pricing 10	50	200	1,000	Digi-Key Part No.	Pkg. Size	Tape & Reel Pricing 4,000	5,000	10,000	12,000	15,000	24,000	25,000	30,000	Panasonic Part No.
0201, 1/20 W	See Chart	P(Value)ABCT-ND	2.64	7.10	16.32	55.68	P(Value)ABTR-ND	15,000	—	—	—	—	41.04/M	—	—	36.48/M	ERJ-1GEFxxx
0402, 1/16 W	10.0 ~ 1.00M	P(Value)LCT-ND	.98	2.65	6.08	20.74	P(Value)LTR-ND	10,000	—	—	—	8.51/M	—	—	—	7.56/M	ERJ-2RKFxxx
0603, 1/16 W	10.0 ~ 2.20M	P(Value)HCT-ND	.90	2.42	5.57	18.99	P(Value)HTR-ND	5,000	—	7.35/M	6.62/M	—	—	—	5.88/M	—	ERJ-3EKFxxx
0805, 1/10 W	10.0 ~ 2.20M	P(Value)CCT-ND	.91	2.44	5.61	19.14	P(Value)CTR-ND	5,000	—	7.80/M	7.02/M	—	—	—	6.24/M	—	ERJ-6ENFxxx
1206, 1/8 W	10.0 ~ 2.20M	P(Value)FCT-ND	1.17	3.15	7.23	24.65	P(Value)FTR-ND	5,000	—	13.50/M	12.15/M	—	—	—	10.80/M	—	ERJ-8ENFxxx
1210, 1/4 W	10.0 ~ 1.00M	P(Value)AACT-ND	3.78	10.18	23.38	79.75	P(Value)AATR-ND	5,000	—	70.50/M	63.45/M	—	—	—	56.40/M	—	ERJ-14NFxxx
2010, 1/2 W	See Chart	P(Value)ACCT-ND	6.88	18.50	42.50	145.00	P(Value)ACTR-ND	5,000	—	138.00/M	124.20/M	—	—	—	110.40/M	—	ERJ-12SFxxx
2512, 1 W	See Chart	PT(Value)AECT-ND	7.08	25.08	82.60	342.20	PT(Value)AETR-ND	4,000	273.60/M	—	—	228.00/M	—	189.24/M	—	—	ERJ-1TYFxxx

Panasonic Standard Resistor Values

10.0	25.5	64.9	165	422	1.07K	2.74K	6.98K	17.8K	45.3K	115K	294K	750K
10.2	26.1	66.5	169	432	1.10K	2.80K	7.15K	18.2K	46.4K	118K	301K	768K
10.5	26.7	68.1	174	442	1.13K	2.87K	7.32K	18.7K	47.5K	121K	309K	787K
10.7	27.4	69.8	178	453	1.15K	2.94K	7.50K	19.1K	48.7K	124K	316K	806K
11.0	28.0	71.5	182	464	1.18K	3.01K	7.68K	19.6K	49.9K	127K	324K	825K
11.3	28.7	73.2	187	475	1.21K	3.09K	7.87K	20.0K	51.1K	130K	332K	845K
11.5	29.4	75.0	191	487	1.24K	3.16K	8.06K	20.5K	52.3K	133K	340K	866K
11.8	30.1	76.8	196	499	1.27K	3.24K	8.25K	21.0K	53.6K	137K	348K	887K
12.1	30.9	78.7	200	511	1.30K	3.32K	8.45K	21.5K	54.9K	140K	357K	909K
12.4	31.6	80.6	205	523	1.33K	3.40K	8.66K	22.1K	56.2K	143K	365K	931K
12.7	32.4	82.5	210	536	1.37K	3.48K	8.87K	22.6K	57.6K	147K	374K	953K
13.0	33.2	84.5	215	549	1.40K	3.57K	9.09K	23.2K	59.0K	150K	383K	976K
13.3	34.0	86.6	221	562	1.43K	3.65K	9.31K	23.7K	60.4K	154K	392K	1.00M
13.7	34.8	88.7	226	576	1.47K	3.74K	9.53K	24.3K	61.9K	158K	402K	1.10M
14.0	35.7	90.9	232	590	1.50K	3.83K	9.76K	24.9K	63.4K	162K	412K	1.20M
14.3	36.5	93.1	237	604	1.54K	3.92K	10.0K	25.5K	64.9K	165K	422K	1.30M
14.7	37.4	95.3	243	619	1.58K	4.02K	10.2K	26.1K	66.5K	169K	432K	1.50M
15.0	38.3	97.6	249	634	1.62K	4.12K	10.5K	26.7K	68.1K	174K	442K	1.60M
15.4	39.2	100	255	649	1.65K	4.22K	10.7K	27.4K	69.8K	178K	453K	1.80M
15.8	40.2	102	261	665	1.69K	4.32K	11.0K	28.0K	71.5K	182K	464K	2.00M
16.2	41.2	105	267	681	1.74K	4.42K	11.3K	28.7K	73.2K	187K	475K	2.20M
16.5	42.2	107	274	698	1.78K	4.53K	11.5K	29.4K	75.0K	191K	487K	
16.9	43.2	110	280	715	1.82K	4.64K	11.8K	30.1K	76.8K	196K	499K	
17.4	44.2	113	287	732	1.87K	4.75K	12.1K	30.9K	78.7K	200K	511K	
17.8	45.3	115	294	750	1.91K	4.87K	12.4K	31.6K	80.6K	205K	523K	
18.2	46.4	118	301	768	1.96K	4.99K	12.7K	32.4K	82.5K	210K	536K	
18.7	47.5	121	309	787	2.00K	5.11K	13.0K	33.2K	84.5K	215K	549K	
19.1	48.7	124	316	806	2.05K	5.23K	13.3K	34.0K	86.6K	221K	562K	
19.6	49.9	127	324	825	2.10K	5.36K	13.7K	34.8K	88.7K	226K	576K	
20.0	51.1	130	332	845	2.15K	5.49K	14.0K	35.7K	90.9K	232K	590K	
20.5	52.3	133	340	866	2.21K	5.62K	14.3K	36.5K	93.1K	237K	604K	
21.0	53.6	137	348	887	2.26K	5.76K	14.7K	37.4K	95.3K	243K	619K	
21.5	54.9	140	357	909	2.32K	5.90K	15.0K	38.3K	97.6K	249K	634K	
22.1	56.2	143	365	931	2.37K	6.04K	15.4K	39.2K	100K	255K	649K	
22.6	57.6	147	374	953	2.43K	6.19K	15.8K	40.2K	102K	261K	665K	
23.2	59.0	150	383	976	2.49K	6.34K	16.2K	41.2K	105K	267K	681K	
23.7	60.4	154	392	1.00K	2.55K	6.49K	16.5K	42.2K	107K	274K	698K	
24.3	61.9	158	402	1.02K	2.61K	6.65K	16.9K	43.2K	110K	280K	715K	
24.9	63.4	162	412	1.05K	2.67K	6.81K	17.4K	44.2K	113K	287K	732K	

Panasonic 0201 Values

10	39	150	560	2.2K	8.2K	33K	120K	470K
11	43	160	620	2.4K	9.1K	36K	130K	510K
12	47	180	680	2.7K	10K	39K	150K	560K
13	51	200	750	3.0K	11K	43K	160K	620K
15	56	220	820	3.3K	12K	47K	180K	680K
16	62	240	910	3.6K	13K	51K	200K	750K
18	68	270	1.0K	3.9K	15K	56K	220K	820K
20	75	300	1.1K	4.3K	16K	62K	240K	910K
22	82	330	1.2K	4.7K	18K	68K	270K	1.0M
24	91	360	1.3K	5.1K	20K	75K	300K	
27	100	390	1.5K	5.6K	22K	82K	330K	
30	110	430	1.6K	6.2K	24K	91K	360K	
33	120	470	1.8K	6.8K	27K	100K	390K	
36	130	510	2.0K	7.5K	30K	110K	430K	

Panasonic 2512 Values

10	100	270	1K	10K	100K	150K	330K	1M

Panasonic 2010 Values

10.0	27.4	75.0	205	562	1.54K	4.22K	11.5K	31.6K	86.6K	237K	649K
10.5	28.7	78.7	215	590	1.62K	4.42K	12.1K	33.2K	90.9K	249K	681K
11.0	30.1	82.5	226	619	1.69K	4.64K	12.7K	34.8K	95.3K	261K	715K
11.5	31.6	86.6	237	649	1.78K	4.87K	13.3K	36.5K	100K	274K	750K
12.1	33.2	90.9	249	681	1.87K	5.11K	14.0K	38.3K	105K	287K	787K
12.7	34.8	95.3	261	715	1.96K	5.36K	14.7K	40.2K	110K	301K	825K
13.3	36.5	100	274	750	2.05K	5.62K	15.4K	42.2K	115K	316K	866K
14.0	38.3	105	287	787	2.15K	5.90K	16.2K	44.2K	121K	332K	909K
14.7	40.2	110	301	825	2.26K	6.19K	16.9K	46.4K	127K	348K	953K
15.4	42.2	115	316	866	2.37K	6.49K	17.8K	48.7K	133K	365K	1.00M
16.2	44.2	121	332	909	2.49K	6.81K	18.7K	51.1K	140K	383K	
16.9	46.4	127	348	953	2.61K	7.15K	19.6K	53.6K	147K	402K	
17.8	48.7	133	365	1.00K	2.74K	7.50K	20.5K	56.2K	154K	422K	
18.7	51.1	140	383	1.05K	2.87K	7.87K	21.5K	59.0K	162K	442K	
19.6	53.6	147	402	1.10K	3.01K	8.25K	22.6K	61.9K	169K	464K	
20.5	56.2	154	422	1.15K	3.16K	8.66K	23.7K	64.9K	178K	487K	
21.5	59.0	162	442	1.21K	3.32K	9.09K	24.9K	68.1K	187K	511K	
22.6	61.9	169	464	1.27K	3.48K	9.53K	26.1K	71.5K	196K	536K	
23.7	64.9	178	487	1.33K	3.65K	10.0K	27.4K	75.0K	205K	562K	
24.9	68.1	187	511	1.40K	3.83K	10.5K	28.7K	78.7K	215K	590K	
26.1	71.5	196	536	1.47K	4.02K	11.0K	30.1K	82.5K	226K	619K	

Panasonic® 1% Chip Resistors

Digi-Key® Assortment Kits

Digi-Key® 0402 1% Chip Resistor Kits

RSM1L-ND 50 ea. of Values 10.0Ω to 97.6Ω $189.00
RSM2L-ND 50 ea. of Values 100Ω to 976Ω $189.00
RSM3L-ND 50 ea. of Values 1.00KΩ to 9.76KΩ $189.00
RSM4L-ND 50 ea. of Values 10.0KΩ to 97.6KΩ $189.00
RSM5L-ND 50 ea. of Values 100KΩ to 1.00MΩ $189.00

Digi-Key® 0603 1% Chip Resistor Kits

RSM1H-ND 50 ea. of Values 10.0Ω to 97.6Ω $129.00
RSM2H-ND 50 ea. of Values 100Ω to 976Ω $129.00
RSM3H-ND 50 ea. of Values 1.00KΩ to 9.76KΩ $129.00
RSM4H-ND 50 ea. of Values 10.0KΩ to 97.6KΩ $129.00
RSM5H-ND 50 ea. of Values 100KΩ to 1.00MΩ $129.00

Digi-Key® 1206 1% Chip Resistor Kits

RSM1FA-ND 50 ea. of Values 10Ω to 97.6Ω $129.95
RSM1F-ND 200 ea. of Values 10Ω to 97.6Ω $299.00

RSM2FA-ND 50 ea. of Values 100Ω to 976Ω $129.95
RSM2F-ND 200 ea. of Values 100Ω to 976Ω $299.00

RSM3FA-ND 50 ea. of Values 1.00KΩ to 9.76KΩ $119.95
RSM3F-ND 200 ea. of Values 1.00KΩ to 9.76KΩ $299.00

RSM4FA-ND 50 ea. of Values 10.0KΩ to 97.6KΩ $129.95
RSM4F-ND 200 ea. of Values 10.0KΩ to 97.6KΩ $299.00

RSM5FA-ND 50 ea. of Values 100KΩ to 1.00MΩ $129.95
RSM5F-ND 200 ea. of Values 100KΩ to 1.00MΩ $299.00

Digi-Key® 0805 1% Chip Resistor Kits

RSM1CA-ND 50 ea. of Values 10Ω to 97.6Ω $119.95
RSM1C-ND 200 ea. of Values 10Ω to 97.6Ω $299.00

RSM2CA-ND 50 ea. of Values 100Ω to 976Ω $119.95
RSM2C-ND 200 ea. of Values 100Ω to 976Ω $299.00

RSM3CA-ND 50 ea. of Values 1.00KΩ to 9.76KΩ $119.95
RSM3C-ND 200 ea. of Values 1.00KΩ to 9.76KΩ $299.00

RSM4CA-ND 50 ea. of Values 10.0KΩ to 97.6KΩ $119.95
RSM4C-ND 200 ea. of Values 10.0KΩ to 97.6KΩ $299.00

RSM5CA-ND 50 ea. of Values 100KΩ to 1.00MΩ $119.95
RSM5C-ND 200 ea. of Values 100KΩ to 1.00MΩ $299.00

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Panasonic 0201/0402/0603/0805/1206/1210/2010/2512
Surface Mount 5% Thick Film Chip Resistors — 1/20, 1/16, 1/10, 1/8, 1/4, 1/2 and 1 Watt

0201 Series — Standard Resistor Values
See below for complete part numbers when ordering.

47	220	1.0K	4.7K	22K	100K	470K
56	270	1.2K	5.6K	27K	120K	560K
68	330	1.5K	6.8K	33K	150K	680K
82	390	1.8K	8.2K	39K	180K	820K
100	470	2.2K	10K	47K	220K	1.0M
120	560	2.7K	12K	56K	270K	
150	680	3.3K	15K	68K	330K	
180	820	3.9K	18K	82K	390K	

0402/0603/0805/1206/1210/2010/2512 Series — Standard Resistor Values
See below for complete part numbers when ordering.
* 12M, 15M, 18M and 22M are 10% Tolerance

1.0	2.4	5.6	13	33	75	180	430	1.0K	2.4K	5.6K	13K	33K	75K	180K	430K	1.0M	2.4M	5.6M	18M*
1.1	2.7	6.2	15	36	82	200	470	1.1K	2.7K	6.2K	15K	36K	82K	200K	470K	1.1M	2.7M	6.2M	22M*
1.2	3.0	6.8	16	39	91	220	510	1.2K	3.0K	6.8K	16K	39K	91K	220K	510K	1.2M	3.0M	6.8M	
1.3	3.3	7.5	18	43	100	240	560	1.3K	3.3K	7.5K	18K	43K	100K	240K	560K	1.3M	3.3M	7.5M	
1.5	3.6	8.2	20	47	110	270	620	1.5K	3.6K	8.2K	20K	47K	110K	270K	620K	1.5M	3.6M	8.2M	
1.6	3.9	9.1	22	51	120	300	680	1.6K	3.9K	9.1K	22K	51K	120K	300K	680K	1.6M	3.9M	9.1M	
1.8	4.3	10	24	56	130	330	750	1.8K	4.3K	10K	24K	56K	130K	330K	750K	1.8M	4.3M	10M	
2.0	4.7	11	27	62	150	360	820	2.0K	4.7K	11K	27K	62K	150K	360K	820K	2.0M	4.7M	12M*	
2.2	5.1	12	30	68	160	390	910	2.2K	5.1K	12K	30K	68K	160K	390K	910K	2.2M	5.1M	15M*	

Digi-Key® 1206, 1/4W, 5% Chip Resistor Assortments

A-KIT-ND 50 ea. of every other value from 10, 12, 15, etc. 1.0M (3,050) **$79.95**
KIT-ND 200 ea. (same values as kit above) .. **$129.00**

A-KIT-ND 50 ea. of every other value from 11, 13, 16, etc. 910K (3,000) **$79.95**
KIT-ND 200 ea. (same values as kit above) .. **$129.00**

Digi-Key® 0805, 1/8W, 5% Chip Resistor Assortments

CR3A-KIT-ND 50 ea. of every other value from 10, 12, 15, 18, etc. 1.0M (3,050) **$79.95**
CR3-KIT-ND 200 ea. (same values as kit above) .. **$129.00**

CR4A-KIT-ND 50 ea. of every other value from 11, 13, 16, 20, etc. 910K (3,000) **$79.95**
CR4-KIT-ND 200 ea. (same values as kit above) .. **$129.00**

Digi-Key® 0603, 1/10W, 5% Chip Resistor Assortments

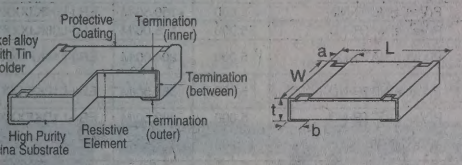
CR5A-KIT-ND 50 ea. of every other value from 10, 12, 15, 18, etc. 1.0M (3,050) **$85.95**
CR5-KIT-ND 200 ea. (same values as kit above) .. **$129.00**

CR6A-KIT-ND 50 ea. of every other value from 11, 13, 16, 20, etc. 910K (3,000) **$85.95**
CR6-KIT-ND 200 ea. (same values as kit above) .. **$129.00**

Digi-Key® 0402, 1/16W, 5% Chip Resistor Assortments

CR7A-KIT-ND 50 ea. of every other value from 10, 12, 15, 18, 22, 1.0M (3,050) **$89.95**
CR7-KIT-ND 200 ea. (same values as kit above) .. **$169.00**

CR8A-KIT-ND 50 ea. of every other value from 11, 13, 16, 20, etc. 910K (3,000) **$89.95**
CR8-KIT-ND 200 ea. (same values as kit above) .. **$169.00**



Type	Power Rating	Max. RCWV	Overload Voltage	Dimensions (mm) L	W	t	a	b	Temperature Coefficient (ppm/°C)	Panasonic Part No.
0201	1/20W	15V	30V	0.60	0.30	0.20	0.15	0.15		ERJ-1GEJ
0402	1/16W	50V	100V	1.00	0.50	0.35	0.20	0.25		ERJ-2GEJ
0603	1/10W	50V	100V	1.60	0.80	0.45	0.30	0.30	<10Ω: -100ppm/°C to +600ppm/°C	ERJ-3GEY
0805	1/8W	150V	200V	2.00	1.25	0.60	0.40	0.40	10Ω ~ 1MΩ: ±200ppm°C	ERJ-6GEY
1206	1/4W	200V	400V	3.20	1.60	0.60	0.50	0.50		ERJ-8GEY
1210	1/4W	200V	400V	3.20	2.50	0.60	0.50	0.50	1MΩ >: -400ppm/°C to +600ppm/°C	ERJ-14Y
2010	1/2W	200V	400V	5.00	2.50	0.60	0.60	0.60		ERJ-12ZY
2512	1W	250V	500V	6.40	3.20	0.60	0.65	0.60		ERJ-1TY

ription	Value Range	Digi-Key Part No.	Pricing 10	50	200	1,000	Digi-Key Part No.	Package Size	Tape & Reel Pricing 4,000	5,000	10,000	12,000	15,000	Panasonic Part No.
1/20 W, 5%	(10-1.0MΩ)	P(Value)AGCT-ND†	1.91	5.14	11.82	40.31	P(Value)AGTR-ND†	15,000	—	—	—	—	26.73/M	ERJ-1GEJxxxC
1/16 W, 5%	(1~10MΩ)	P(Value)JCT-ND†	.84	2.26	5.19	17.69	P(Value)JTR-ND†	10,000	—	—	5.67/M	—	—	ERJ-2GEJxxxX
1/10 W, 5%	(1~22MΩ)*	P(Value)GCT-ND†	.80	2.15	4.93	16.82	P(Value)GTR-ND†	5,000	—	4.50/M	4.05/M	—	—	ERJ-3GEYJxxxV
1/8 W, 5%	(1~22MΩ)*	P(Value)ACT-ND†	.77	2.07	4.76	16.24	P(Value)ATR-ND†	5,000	—	4.80/M	4.32/M	—	—	ERJ-6GEYJxxxV
1/4 W, 5%	(1~22MΩ)*	P(Value)ECT-ND†	.94	2.53	5.82	19.87	P(Value)ETR-ND†	5,000	—	8.55/M	7.70/M	—	—	ERJ-8GEYJxxxV
1/4 W, 5%	(1~10MΩ)	P(Value)VCT-ND	2.70	7.25	16.66	56.84	P(Value)VTR-ND	5,000	—	46.80/M	42.12/M	—	—	ERJ-14YJxxxU
1/2 W, 5%	(1~10MΩ)	P(Value)WCT-ND	4.00	10.77	24.74	84.39	P(Value)WTR-ND	5,000	—	75.30/M	67.77/M	—	—	ERJ-12ZYJxxxU
1 W, 5%	(1~2.2MΩ)	PT(Value)XCT-ND	3.96	14.03	46.20	191.40	PT(Value)XTR-ND	4,000	148.80/M	—	—	124.00/M	—	ERJ-1TYJxxxU

(zerohm) value also available. * 12M, 15M, 18M and 22M are 10% tolerance.

Panasonic 0402/0603/0805/1206/1210/2010/2512, 5% and 0402/0603/0805/1206, 1%
Surface Mount Ultra Low Ohm Thick Film Chip Resistors — 1/10, 1/8, 1/4, 1/2 and 1 Watt

0402, 5% Series
ndard Resistor Values
e below for complete part umbers when ordering.

.056	.068	.082
.062	.075	.091

0402, 1% Series
Standard Resistor Values
See below for complete part numbers when ordering.

.10	.13	.18	.24	.33	.43	.56	.75
.11	.15	.20	.27	.36	.47	.62	.82
.12	.16	.22	.30	.39	.51	.68	.91

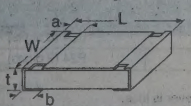
0603/0805/1206/1210/2010/2512, 5% Series
0603/0805/1206, 1% Series
Standard Resistor Values
See below for complete part numbers when ordering.

.10	.22	.47	1.0	2.2	4.7	9.1
.12	.27	.56	1.2	2.7	5.6	
.15	.33	.68	1.5	3.3	6.8	
.18	.39	.82	1.8	3.9	8.2	

2512, 1% Series
Standard Resistor Values
See below for complete part numbers when ordering.

.22	.36	.56	.91	1.5	2.4	3.9	6.2
.24	.39	.62	1.0	1.6	2.7	4.3	6.8
.27	.43	.68	1.1	1.8	3.0	4.7	7.5
.30	.47	.75	1.2	2.0	3.3	5.1	8.2
.33	.51	.82	1.3	2.2	3.6	5.6	9.1

Continuous Working Voltage (RCWV):
ated voltage at each resistance should be ated from the following equation:
$V = \sqrt{P \times R}$
V):P(W):R(Ω)
um Overload Voltage = RCWV x 2.5



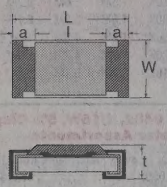
Type	Type (Power Rating)	Dimensions (mm) L	W	t	a	b	Temperature Coefficient (ppm/°C)	Panasonic Part No.
0402	1/8 Watt (5%)	1.00	0.50	0.35	0.24	0.24	±300ppm/°C	ERJ-2BWJ
0402	1/8 Watt (1%)	1.00	0.50	0.20	0.27	0.35	.1 ~ .20Ω ±300ppm / °C/ .22 ~ 1.0 Ω + ±250ppm/C	ERJ-2BS/Q
0603	1/10 Watt	1.6	0.8	0.45	0.30	0.30	.1 ~ .82Ω ±300ppm / °C/1.0 ~ 8.2 Ω + ±200ppm/C	ERJ-3RS/Q
0805	1/8 Watt	2.00	1.25	0.60	0.40	0.40	.1 ~ .91Ω ±250ppm / °C/1.0 ~ 9.1 Ω + ±200ppm/C	ERJ-6RS/Q
1206	1/4 Watt	3.20	1.60	0.60	0.50	0.50	.1 ~ .91Ω ±250ppm / °C/1.0 ~ 9.1 Ω + ±200ppm/C	ERJ-8RS/Q
1210	1/4 Watt	3.20	2.50	0.60	0.50	0.50	.1 ~ .91Ω ±200ppm / °C/1.0 ~ 9.1 Ω + ±100ppm/C	ERJ-14RS/Q
2010	1/2 Watt	5.00	2.50	0.60	0.60	0.60	.22 ~ 1.0Ω ±200ppm / °C	ERJ-12ZQJ
2512	1 Watt	6.40	3.20	0.60	0.65	0.60	.1 ~ .91Ω ±200ppm / °C/1.0 ~ 9.1 Ω + ±100ppm/C	ERJ-1TRS/Q

ription	Value Range	Digi-Key Part No.	Pricing 10	50	200	1,000	Digi-Key Part No.	Package Size	Tape & Reel Pricing 4,000	5,000	10,000	12,000	Panasonic Part No.
1/8 W, 5%	(.047 ~ .091Ω)	P(Value)AMCT-ND ***NEW!***	5.18	18.36	60.48	250.56	P(Value)AMTR-ND ***NEW!***	10,000	—	—	164.80/M	—	ERJ-2BWJRxxX
1/8 W, 1%	(.10 ~ .20Ω)	P(Value)AKCT-ND	8.84	23.80	54.67	186.53	P(Value)AKTR-ND	10,000	—	—	162.87/M	—	ERJ-2BSFRxxX
1/8 W, 1%	(.22 ~ .91Ω)	P(Value)AKCT-ND	6.78	18.23	41.89	142.91	P(Value)AKTR-ND	10,000	—	—	122.26/M	—	ERJ-2BQFRxxX
1/10 W, 5%	(.10 ~ .18Ω)	P(Value)AHCT-ND	3.26	8.77	20.15	68.76	P(Value)AHTR-ND	5,000	—	59.13/M	53.22/M	—	ERJ-3RSJxxxV
1/10 W, 5%	(.22 ~ 8.2Ω)	P(Value)AHCT-ND	1.91	5.13	11.78	40.19	P(Value)AHTR-ND	5,000	—	29.58/M	26.63/M	—	ERJ-3RQJxxxV
1/10 W, 1%	(.10 ~ .18Ω)	P(Value)AJCT-ND	5.36	14.43	33.15	113.10	P(Value)AJTR-ND	5,000	—	105.00/M	94.50/M	—	ERJ-3RSFxxxV
1/10 W, 1%	(.22 ~ 8.2Ω)	P(Value)AJCT-ND	3.03	8.14	18.70	63.80	P(Value)AJTR-ND	5,000	—	54.00/M	48.60/M	—	ERJ-3RQFxxxV
1/8 W, 5%	(.10 ~ .18Ω)	P(Value)BCT-ND	14.03	37.74	86.70	295.80	P(Value)BTR-ND	5,000	—	294.00/M	264.60/M	—	ERJ-6RSJxxxV
1/8 W, 5%	(.22 ~ 9.1Ω)	P(Value)BCT-ND	6.33	17.02	39.10	133.40	P(Value)BTR-ND	5,000	—	103.50/M	93.15/M	—	ERJ-6RQJxxxV
1/8 W, 1%	(.22 ~ 9.1Ω)	P(Value)DCT-ND	2.10	7.44	24.50	101.50	P(Value)DTR-ND	5,000	—	74.40/M	62.00/M	—	ERJ-6RQFxxxV0
1/4 W, 5%	(.10 ~ .18Ω)	P(Value)PCT-ND	12.51	33.67	77.35	263.90	P(Value)PTR-ND	5,000	—	261.00/M	234.90/M	—	ERJ-8RSJxxxV
1/4 W, 5%	(.22 ~ 9.1Ω)	P(Value)PCT-ND	6.05	16.28	37.40	127.60	P(Value)PTR-ND	5,000	—	120.00/M	108.00/M	—	ERJ-8RQJxxxV
1/4 W, 1%	(.22 ~ 9.1Ω)	P(Value)RCT-ND	2.70	9.56	31.50	130.50	P(Value)RTR-ND	5,000	—	98.40/M	82.00/M	—	ERJ-8RQFxxxV
1/4 W, 5%	(.10 ~ .18Ω)	P(Value)SCT-ND	5.52	19.55	64.40	266.80	P(Value)STR-ND	5,000	—	211.20/M	176.00/M	—	ERJ-14RSJxxxU
1/4 W, 5%	(.22 ~ 9.1Ω)	P(Value)SCT-ND	3.42	12.11	39.90	165.30	P(Value)STR-ND	5,000	—	127.20/M	106.00/M	—	ERJ-14RQJxxxU
1/2 W, 5%	(.22 ~ 1.0Ω)	P(Value)AFCT-ND	5.61	19.87	65.45	271.15	P(Value)AFTR-ND	5,000	—	214.80/M	179.00/M	—	ERJ-12ZQJxxxU
1 W, 5%	(.10 ~ .18Ω)	PT(Value)UCT-ND	10.68	43.39	154.86	694.20	PT(Value)UTR-ND	4,000	591.75/M	—	—	499.70/M	ERJ-1TRSJxxxU
1 W, 5%	(.22 ~ 9.1Ω)	PT(Value)UCT-ND	8.99	31.84	104.90	434.57	PT(Value)UTR-ND	4,000	350.04/M	—	—	291.70/M	ERJ-1TRQJxxxU
1 W, 1%	(.22 ~ 9.1Ω)	PT(Value)YCT-ND	6.76	27.46	98.02	439.40	PT(Value)YTR-ND	4,000	371.25/M	—	—	313.50/M	ERJ-1TRQFxxxU

Panasonic SMD Thick Film Chip Resistors / Low Resistance Type

0603, 0805, 1206, 1210, 1812, 2010, 2512 — For Current Sensing Applications

Features: • Operating Temperature: ERJ-L: -55°C to 125°C, ERJ-M: -55 °C to 170°C (derating required above 70°C) • Resistance Range: • 1.0 to100mΩ



Package	Dimensions (mm) L	W	a	t	l
0603	1.60	0.80	0.30	0.45	1.00
0805	2.00	1.25	0.40	0.60	1.20
1206	3.20	1.60	0.50	0.60	2.20
1210	3.20	2.50	0.50	0.60	2.20
1812	4.50	3.20	0.50	0.60	3.50
2010	5.00	2.50	0.60	0.60	3.80
2512 (S Type)	6.40	3.20	1.00	0.80	4.40
2512 (T Type)	6.40	3.20	2.10	0.80	2.20
2512 (L Type)	6.40	3.20	0.65	1.10	5.10

Standard Resistor Values (mΩ) for 0603, 0805, 1206

Value (Mfg. Code)	Value (Mfg. Code)	Value (Mfg. Code)	Value (Mfg. Cod
47 (47M)	50 (50M)	75† (75M)	100 (10C)

† Panasonic part number is ERJ-LxxUJxxxV

Standard Resistor Values (mΩ) for 1210, 1812, 2010

Value (Mfg. Code)	Value (Mfg. Code)	Value (Mfg. Code)	Value (Mfg. Code)	Value (Mfg. C
20 (20M)	25† (25M)	39 (39M)	50 (50M)	100 (10C
22 (22M)	33 (33M)	47 (47M)	75† (75M)	

† Panasonic part number is ERJ-LxxUFxxxU

Standard Resistor Values (mΩ) for 2512

Value (Mfg. Code)	Value (Mfg. Code)	Value (Mfg. Code)	Value (Mfg. Code)	Value (Mfg. C
1.0 (1M0)	3.0 (3M0)	8.0 (8M0)	15 (15M)	47* (47M
1.5 (1M5)	4.0 (4M0)	10 (10M)	16 (16M)	50 (50M)
2.0 (2M0)	5.0 (5M0)	12 (12M)	20 (20M)	100 (10C

* Not available in 1% tolerance

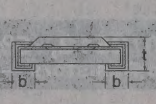
See below for complete part numbers when ordering.

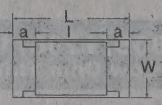
Description	Type	Value Range (mΩ)	Temperature Coefficient	Digi-Key Part No.	Cut Tape Pricing 10	50	200	Digi-Key Part No.	Tape and Reel Size	Pricing	Panasonic Part No.
0603, 1/10 W, 5%	L	47 ~ 100	±200ppm	P(Value)NJCT-ND	6.13	18.28	43.00	P(Value)NJTR-ND	5,000	136.50/M	ERJ-L03KJXXV
0805, 1/8 W, 5%	L	47 ~ 100	±100ppm	P(Value)NLCT-ND	6.70	19.98	47.00	P(Value)NLTR-ND	5,000	150.50/M	ERJ-L06KJXXV
1206, 1/4 W, 5%	L	47 ~ 100	±100ppm	P(Value)NPCT-ND	7.70	22.95	54.00	P(Value)NPTR-ND	5,000	175.00/M	ERJ-L08KJXXV
1210, 1/4 W, 1%	L	20 ~ 39 47 ~ 100	±300ppm ±100ppm	P(Value)NACT-ND	5.34	18.91	62.30	P(Value)NATR-ND	5,000	204.00/M	ERJ-L14KFXXV
1812, 1/2 W, 1%	L	20 ~ 39 47 ~ 100	±300ppm ±100ppm	P(Value)NBCT-ND	6.96	28.28	100.92	P(Value)NBTR-ND	5,000	382.50/M	ERJ-L12KFXXV
2010, 1/2 W, 1%	L	47 ~ 100	±100ppm	P(Value)NCCT-ND	6.96	28.28	100.92	P(Value)NCTR-ND	5,000	382.50/M	ERJ-L1DKFXXV
2512, 1 W, 5%	T	1.0 ~ 1.5 2.0	350 ±100ppm 100 ±50ppm	P(Value)TCT-ND	7.76	31.53	112.52	P(Value)TTR-ND	3,000	427.50/M	ERJ-M1WTJXXV
	S	3.0 ~ 4.0 5.0 ~ 20	±350ppm ±100ppm	P(Value)TCT-ND	7.76	31.53	112.52	P(Value)TTR-ND	3,000	427.50/M	ERJ-M1WSJXXV
	L	47 ~ 100	±100ppm	P(Value)TCT-ND	7.88	32.01	114.26	P(Value)TTR-ND	3,000	434.25/M	ERJ-L1WKJXXV
2512, 1 W, 1%	T	1.0 ~ 1.5 2.0 ~ 4.0	350 ±100ppm 100 ±50ppm	P(Value)NDCT-ND	9.58	38.92	138.91	P(Value)NDTR-ND	3,000	529.88/M	ERJ-M1WTFXXV
	S	3.0 ~ 4.0 5.0 ~ 20	±350ppm ±100ppm	P(Value)MCT-ND	8.16	33.15	118.32	P(Value)MTR-ND	3,000	450.00/M	ERJ-M1WSFXXV
	L	50 ~ 100	±100ppm	P(Value)MCT-ND	9.40	38.19	136.30	P(Value)MTR-ND	3,000	519.75/M	ERJ-L1WKFXXV

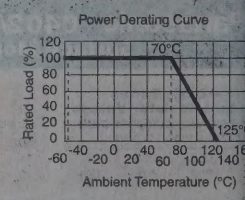
Panasonic Anti-Surge Thick Film Chip Resistors

Features:

- Operating Temperature: -55°C to 155°C
- Improved Anti-Surge characteristics compared to metal film resistors
- Metal glaze thick film resistive element and three layers of electrodes result in high reliability
- Suitable for both reflow soldering and flow soldering
- Thick film resistor with excellent Anti-Pulse characteristic and high rated power







Type	Dimensions (mm) L	W	a	b	t	l
0805	2.00	1.25	0.25	0.40	0.60	1.50
1206	3.20	1.60	0.40	0.50	0.60	2.24
1210	3.20	2.50	0.35	0.50	0.60	2.50

Type	Power Rating at 70°C (W)	Limiting Element Voltage (Max. RCWV)[1] (V)	Maximum Overload Voltage[2] (V)	Resistance Tolerance (%)	Resistance Range (Ω) min.	max.	Temperature Coefficient x10⁻⁶ °C (ppm/°C)	Standard Resistance Values
ERJP06	0.125	150	200	±5	10 33	30 1.0M	±300 ±200	E24 (3 digits)
ERJP08	0.25	200	400	±5	10	1.0M	±200	E24 (3 digits)
ERJP14	0.5	200	400	±5	1.0	1.0M	±200	E24 (3 digits)

(1) Rated Continuous Working Voltage (RCWV) shall be determined from RCWV = $\sqrt{\text{Power Rating x Resistance Values}}$, or Limiting Element Voltage (max. RCWV) listed above, whichever is less.
(2) Overload (Short-time Overload) Test Voltage (SOTV) shall be determined from SOTV = 2.5 x Power Rating or max. Overload Voltage listed above whichever is less.

Standard Resistor Values

See below for complete part numbers when ordering.

1.0	2.0	3.9	7.5	15	30	56	110	220	430	820	1.6K	3.3K	6.2K	12K	24K	47K	91K	180K	360K
1.1	2.2	4.3	8.2	16	33	62	120	240	470	910	1.8K	3.6K	6.8K	13K	27K	51K	100K	200K	390K
1.2	2.4	4.7	9.1	18	36	68	130	270	510	1.0K	2.0K	3.9K	7.5K	15K	30K	56K	110K	220K	430K
1.3	2.7	5.1	10	20	39	75	150	300	560	1.1K	2.2K	4.3K	8.2K	16K	33K	62K	120K	240K	470K
1.5	3.0	5.6	11	22	43	82	160	330	620	1.2K	2.4K	4.7K	9.1K	18K	36K	68K	130K	270K	510K
1.6	3.3	6.2	12	24	47	91	180	360	680	1.3K	2.7K	5.1K	10K	20K	39K	75K	150K	300K	560K
1.8	3.6	6.8	13	27	51	100	200	390	750	1.5K	3.0K	5.6K	11K	22K	43K	82K	160K	330K	620K

Description	Value Range (Ω)	Digi-Key Part No.	Cut Tape Pricing 10	50	200	1,000	Digi-Key Part No.	Tape and Reel Pricing 5,000	10,000	25,000	50,000	Panasonic Part No.
0805, 1/8 W, 5%	10 ~ 1.0M	P(Value)ADCT-ND	1.65	4.93	11.60	34.80	P(Value)ADTR-ND	26.60/M	22.80/M	20.90/M	19.00/M	ERJ-P06JXXV
1206, 1/4 W, 5%	10 ~ 1.0M	P(Value)ALCT-ND	2.01	5.99	14.10	42.30	P(Value)ALTR-ND	35.35/M	30.30/M	27.78/M	25.25/M	ERJ-P08JXXV
1210, 1/2 W, 5%	1.0 ~ 1.0M	P(Value)ASCT-ND	3.56	10.63	25.00	75.00	P(Value)ASTR-ND	73.50/M	63.00/M	57.75/M	42.00/M	ERJ-P14JXXV

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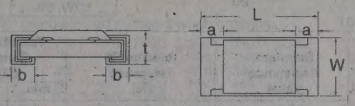
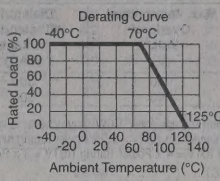
Panasonic Metal Film Thermosensitive Chip Resistors

res:

- ommended for temperature correction circuits
- perature coefficient value 1000 x 10^{-6}/°C /°C) to 4700 x 10^{-6}/°C (ppm/°C)
- k response to temperature change
- llent linear resistance value change in wide erature range (-40°C to +125°C)
- reliability, high density placing
- able for both reflow soldering and flow ering



Type	Dimensions (mm) L	W	a	b	t
0402	1.00	0.50	0.15	0.25	0.35
0603	1.60	0.80	0.30	0.30	0.45
0805	2.00	1.25	0.40	0.40	0.50



Standard Resistor Values (Ω)

See below for complete part numbers when ordering.

5.6	27	120	560	2.7K
6.8	33	150	680	3.3K
8.2	39	180	820	3.9K
10	47	220	1.0K	4.7K
12	56	270	1.2K	5.6K
15	68	330	1.5K	6.8K
18	82	390	1.8K	8.2K
22	100	470	2.2K	10K

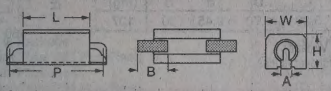
escription	TCR (ppm/°C)	Value Range (Ω)	TCR Tolerance	Digi-Key Part No.	Cut Tape Pricing 10	50	200	Digi-Key Part No.	Tape and Reel Pricing 5,000	10,000	25,000	30,000	Panasonic Part No.
, 1/32 W, 5%	+2700	47 ~ 1.0K	—	P(Value)CLCT-ND	4.12	14.60	48.09	P(Value)CLTR-ND	—	97.05/M	—	90.58/M	ERA-W27JXXXX
	+3300	22 ~ 390	—	P(Value)CMCT-ND	4.12	14.60	48.09	P(Value)CMTR-ND	—	97.05/M	—	90.58/M	ERA-W33JXXXX
, 1/16 W, 5%	+1500	10 ~ 10K	±200 x ppm/°C	P(Value)CFCT-ND	5.52	19.55	64.40	P(Value)CFTR-ND	146.08/M	132.00/M	123.20/M	—	ERA-V15JXXXV
	+2700	47 ~ 3.3K	±10%	P(Value)CGCT-ND	5.52	19.55	64.40	P(Value)CGTR-ND	146.08/M	132.00/M	123.20/M	—	ERA-V27JXXXV
	+3300	22 ~ 1.2K	±10%	P(Value)CHCT-ND	5.52	19.55	64.40	P(Value)CHTR-ND	146.08/M	132.00/M	123.20/M	—	ERA-V33JXXXV
	+3900	5.6 ~ 390	±10%	P(Value)CJCT-ND	5.52	19.55	64.40	P(Value)CJTR-ND	146.08/M	132.00/M	123.20/M	—	ERA-V39JXXXV
, 1/10 W, 5%	+1500	10 ~ 10K	±200 x ppm/°C	P(Value)CBCT-ND	5.52	19.55	64.40	P(Value)CBTR-ND	146.08/M	132.00/M	123.20/M	—	ERA-S15JXXXV
	+2700	47 ~ 4.7K	±10%	P(Value)CCCT-ND	5.52	19.55	64.40	P(Value)CCTR-ND	146.08/M	132.00/M	123.20/M	—	ERA-S27JXXXV
	+3300	22 ~ 1.8K	±10%	P(Value)CDCT-ND	5.52	19.55	64.40	P(Value)CDTR-ND	146.08/M	132.00/M	123.20/M	—	ERA-S33JXXXV
	+3900	5.6 ~ 470	±10%	P(Value)CECT-ND	5.52	19.55	64.40	P(Value)CETR-ND	146.08/M	132.00/M	123.20/M	—	ERA-S39JXXXV

Panasonic 1 & 2 Watt — 5% SMD Metal Film Fixed Resistors

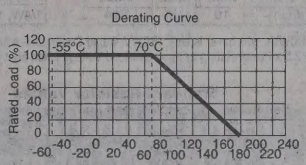
F

res:

- flammable nature
- reliability
- oved under the ISO system



Type	Dimensions (mm) P	L	W	H	A	B
Watt	12.5	9.0	5.6	5.0	1.5	3.0
Watt	15.0	12.0	6.4	5.8	1.5	4.0



Standard Resistor Values (Ω)

See below for complete part numbers when ordering.

.022	.082	.33	1.2	4.7
.027	.10	.39	1.5	5.6
.033	.12	.47	1.8	6.8
.039	.15	.56	2.2	8.2
.047	.18	.68	2.7	
.056	.22	.82	3.3	
.068	.27	1.0	3.9	

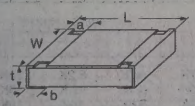
scription	Value Range (Ω)	Digi-Key Part No.	Cut Tape Pricing 10	50	200	Digi-Key Part No.	Pkg. Size	Tape and Reel Pricing 1,000	2,000	5,000	6,000	Panasonic Part No.
	.022 ~ .082	PRX1W(Value)CT-ND	55.99	150.66	346.12	PRX1W(Value)TR-ND	2,000	—	806.40/M	—	645.12/M	ERX-1HQJxxMH
Watt, 5%	.10 ~ .18	PRX1W(Value)CT-ND	38.13	102.59	235.69	PRX1W(Value)TR-ND	2,000	—	546.56/M	—	437.25/M	ERX-1HZJxxxH
	.22 ~ 8.2	PRX1W(Value)CT-ND	33.66	90.58	208.08	PRX1W(Value)TR-ND	2,000	—	481.60/M	—	385.28/M	ERX-1HJxxxH
	.022 ~ .082	PRX2W(Value)CT-ND	59.84	161.02	369.92	PRX2W(Value)TR-ND	1,000	862.40	—	689.92/M	—	ERX-2HQJxxMH
Watt, 5%	.10 ~ .18	PRX2W(Value)CT-ND	43.67	117.51	269.96	PRX2W(Value)TR-ND	1,000	627.20	—	501.76/M	—	ERX-2HZJxxxH
	.22 ~ 8.2	PRX2W(Value)CT-ND	38.13	102.59	235.69	PRX2W(Value)TR-ND	1,000	546.56	—	437.25/M	—	ERX-2HJxxxH

Panasonic ERA 0603/0805 .1% Metal Film Chip Resistors

Surface Mount — Available In 1/16 and 1/10 Watt

res:

- reliability
- TCR and current noise
- llent non-linearity



Type	Type (Power Rating)	Max. RCWV	Max. Overload Voltage	Dimensions (mm) L	W	t	a	b	Temperature Coefficient	Panasonic Part No.
0603	1/16 Watt	75V	150V	1.60	0.80	0.45	0.30	0.30	±25ppm/°C	ERA-3YE
0805	1/10 Watt	100V	200V	2.00	1.25	0.50	0.40	0.40	±25ppm/°C	ERA-6YE

Standard Resistor Values

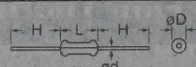
See below for complete part numbers when ordering.

150	220	330	470	680	1.0K	1.5K	2.2K	3.3K	4.7K	6.8K	10K	15K	22K	33K	47K	68K	100K
160	240	360	510	750	1.1K	1.6K	2.4K	3.6K	5.1K	7.5K	11K	16K	24K	36K	51K	75K	
180	270	390	560	820	1.2K	1.8K	2.7K	3.9K	5.6K	8.2K	12K	18K	27K	39K	56K	82K	
200	300	430	620	910	1.3K	2.0K	3.0K	4.3K	6.2K	9.1K	13K	20K	30K	43K	62K	91K	

escription	Value Range (Ω)	Digi-Key Part No.	Cut Tape Pricing 10	50	200	1,000	Digi-Key Part No.	Pkg. Size	Tape and Reel Pricing 5,000	10,000	25,000	50,000	Panasonic Part No.
, 1/16 W, .1%	100 ~ 33K	P(Value)YCT-ND	5.94	21.04	69.30	287.10	P(Value)YTR-ND	5,000	157.70/M	142.50/M	133.00/M	128.25/M	ERA-3YEBxxxV
, 1/10 W, .1%	100 ~ 100K	P(Value)ZCT-ND	6.24	22.10	72.80	301.60	P(Value)ZTR-ND	5,000	166.00/M	150.00/M	140.00/M	135.00/M	ERA-6YEBxxxV

Panasonic 5% Miniature Carbon Film Resistors

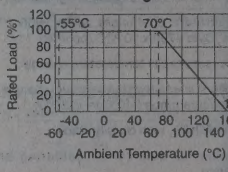
Features:
- High reliability using carbon film
- 52mm Axial taping style for automatic inserting machine
- 4 color code marking
- Uses UL 94 V-0 approved coating for flame retardant type
- Approved under the ISO 9001 system
- Reference Standard: IEC 60115-2, JIS C 5201-2
- Miniaturized version



Type	Dimensions (mm) L	D	d	H	M (t
1/4W, 5%	3.20	1.70	0.45	20 min.	
1/2W, 5%	6.35	2.30	0.60	20 min.	2

Type	Power Rating at 70°C (W)	Limiting Element Volt. (Max. RCWV)[1] (V)	Max. Overload Volt.[2] (V)	Max. Intermittent Overload Volt.[3] (V)	Dielectric Withstanding Voltage (VAC)	Standard Resistance Value	Resistance Tolerance (%)	Resistance Range (Ω) min.	max.
ERDS2T	0.25	250	500	750	300	E24	±5 (J)	0	2.2M
ERDS1T	0.5	300	600	750	500	E24	±5 (J)	1	3.3M

Power Derating Curve



(1) Rated Voltage = √Power Rating x Resistance Value or Limiting Element Voltage (max. RCWV), whichever is less. (RCWV: Rated Continuous working Voltage).
(2) Overload (Short-time Overload) Test Voltage (SOTV) shall be determined from SOTV = 2.5 x Power Rating or max. Overload Voltage listed above whichever is less.
(3) Intermittent Overload Test Voltage (IOTV) shall be determined from IOTV = 4 x Power Rating (IOTV = 3 x Power Rating for ERDS2 type) or max. Intermittent Overload Voltage listed above whichever is less.

Standard Resistor Values

See below for complete part numbers when ordering.

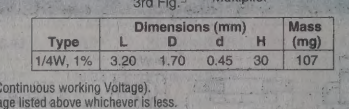
0.0‡	2.0	4.3	9.1	20	43	91	200	430	910	2.0K	4.3K	9.1K	20K	43K	91K	200K	430K	910K	2
1.0	2.2	4.7	10	22	47	100	220	470	1.0K	2.2K	4.7K	10K	22K	47K	100K	220K	470K	1.0M	2
1.1	2.4	5.1	11	24	51	110	240	510	1.1K	2.4K	5.1K	11K	24K	51K	110K	240K	510K	1.1M	2
1.2	2.7	5.6	12	27	56	120	270	560	1.2K	2.7K	5.6K	12K	27K	56K	120K	270K	560K	1.2M	2
1.3	3.0	6.2	13	30	62	130	300	620	1.3K	3.0K	6.2K	13K	30K	62K	130K	300K	620K	1.3M	3
1.5	3.3	6.8	15	33	68	150	330	680	1.5K	3.3K	6.8K	15K	33K	68K	150K	330K	680K	1.5M	3
1.6	3.6	7.5	16	36	75	160	360	750	1.6K	3.6K	7.5K	16K	36K	75K	160K	360K	750K	1.6M	
1.8	3.9	8.2	18	39	82	180	390	820	1.8K	3.9K	8.2K	18K	39K	82K	180K	390K	820K	1.8M	

* Only available in 1/2 Watt ‡ Not available in 1/2 Watt

Description	Value Range (Ω)	Digi-Key Part No.	Pricing 10	50	200	1,000	Digi-Key Part No.	Pkg. Size	Tape & Box Pricing 2,000	5,000	6,000	10,000	Panasonic Part No.
ERDS2T 1/4W, 5%	0.0-2.2M	P(Value)BACT-ND	.67	2.14	4.88	15.86	P(Value)BATB-ND	5,000	—	6.83/M	—	6.30/M	ERD-S2TJX
ERDS1T 1/2W, 5%	1.0-3.3M	P(Value)BBCT-ND	.95	3.03	6.92	22.49	P(Value)BBTB-ND	2,000	15.12/M	—	13.95/M	12.79/M	ERD-S1TJX

Panasonic 1% Miniature Metal Film Resistors

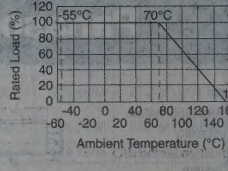
Features:
- Low T.C.R., low noise, high reliability
- Taping style for automatic inserting machine
- 5 color code marking
- Approved under the ISO 9001 system
- Reference Standard: IEC 60115-2, JIS C 5201-2



Type	Power Rating at 70°C (W)	Limiting Element Volt. (Max. RCWV)[1] (V)	Max. Overload Volt.[2] (V)	Dielectric Withstanding Voltage (V)	T.C.R. x10^{-6}/°C (ppm/°C)	Resistance Tolerance (%)	Resistance Range (Ω) min.	max.	Resistance Value
EROS2P	0.25	250	500	300	±50	F(±1)	10	1M	E24

Type	Dimensions (mm) L	D	d	H	Mass (mg)
1/4W, 1%	3.20	1.70	0.45	30	107

Power Derating Curve



(1) Rated Voltage = √Power Rating x Resistance Value or Limiting Element Voltage (max. RCWV), whichever is less. (RCWV: Rated Continuous working Voltage).
(2) Overload (Short-time Overload) Test Voltage (SOTV) shall be determined from SOTV = 2.5 x Power Rating or max. Overload Voltage listed above whichever is less.

Standard Resistor Values

See below for complete part numbers when ordering.

10.0	20.0	39.0	75.0	150	300	560	1.10K	2.20K	4.30K	8.20K	16.0K	33.0K	62.0K	120K	240K	470K	910K	
11.0	22.0	43.0	82.0	160	330	620	1.20K	2.40K	4.70K	9.10K	18.0K	36.0K	68.0K	130K	270K	510K	1.00M	
12.0	24.0	47.0	91.0	180	360	680	1.30K	2.70K	5.10K	10.0K	20.0K	39.0K	75.0K	150K	300K	560K		
13.0	27.0	51.0	100	200	390	750	1.50K	3.00K	5.60K	11.0K	22.0K	43.0K	82.0K	160K	330K	620K		
15.0	30.0	56.0	110	220	430	820	1.60K	3.30K	6.20K	12.0K	24.0K	47.0K	91.0K	180K	360K	680K		
16.0	33.0	62.0	120	240	470	910	1.80K	3.60K	6.80K	13.0K	27.0K	51.0K	100K	200K	390K	750K		
18.0	36.0	68.0	130	270	510	1.00K	2.00K	3.90K	7.50K	15.0K	30.0K	56.0K	110K	220K	430K	820K		

Description	Value Range (Ω)	Digi-Key Part No.	Pricing 10	50	200	1,000	Digi-Key Part No.	Pkg. Size	Tape & Box Pricing 5,000	10,000	50,000	100,000	Panasonic Part No.
EROS2P 1/4W, 1%	10.0-1.0M	P(Value)CACT-ND	1.71	4.95	13.05	33.75	P(Value)CATB-ND	5,000	18.75/M	16.00/M	13.00/M	11.00/M	ERO-S2PHFXX

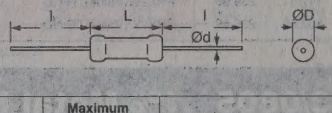
Panasonic 5% Metal Oxide Film Resistors

Now Available In Tape and Reel

Matsushita fixed metal oxide film resistors feature small sized dimensions and have higher power rating at the same size as the conventional type.

Features:
Flame retardancy of the exclusively formulated inorganic insulative material exhibits an equivalent performance requirements of UL-94 (VE-O) and when operated at a potential less than 16 times RCWV, Matsushita metal (oxide) film resistors never flame nor arc.

The coating and markings resist normal washing of solvents, such as Freon (TE, TMC, TF), trichloroethane.



Type	Maximum Working Voltage	Dimensions (mm) L	I	D	d
1W	350	9.0	30.0	2.8	0.65
2W	350	12.0	30.0	4.0	0.80
3W	350	15.0	38.0	5.5	0.80

Characteristics:

Temperature Coefficient	R, Wattage of 1, 2, 3 ±350ppm
Voltage Coefficient	25ppm/V Max.
Insulation Resist.	10,000 MΩ Min.
Temperature Cycling	±(1% + 0.05Ω) Max.
Short-time Overload	±(2% + 0.05Ω) Max.
Humidity (Steady State)	±(2% + 0.05Ω) Max.
Load Life in Humidity	±(5% + 0.05Ω) Max.
Load Life	±(5% + 0.05Ω) Max.
Resistance to Soldering Heat	±(1% + 0.05Ω) Max.
Vibration Low Frequency	±(1% + 0.05Ω) Max.
Thermal Shock	±(2% + 0.05Ω) Max.
Noise	1.0μV/V Max.

Standard Resistor Values

See below for complete part numbers when ordering.

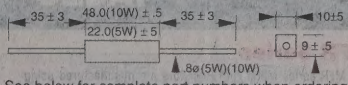
0.47	0.82	1.5	2.7	4.7	8.2	15	27	47	82	150	270	470	820	1.5K	2.7K	4.7K	8.2K	15K	27K	47K
0.51	0.91	1.6	3.0	5.1	9.1	16	30	51	91	160	300	510	910	1.6K	3.0K	5.1K	9.1K	16K	30K	51K
0.56	1.0	1.8	3.3	5.6	10	18	33	56	100	180	330	560	1.0K	1.8K	3.3K	5.6K	10K	18K	33K	56K
0.62	1.1	2.0	3.6	6.2	11	20	36	62	110	200	360	620	1.1K	2.0K	3.6K	6.2K	11K	20K	36K	62K
0.68	1.2	2.2	3.9	6.8	12	22	39	68	120	220	390	680	1.2K	2.2K	3.9K	6.8K	12K	22K	39K	68K
0.75	1.3	2.4	4.3	7.5	13	24	43	75	130	240	430	750	1.3K	2.4K	4.3K	7.5K	13K	24K	43K	75K

Description	Digi-Key Part No.	Pricing 1	5	100	1M	5M	10M
1 Watt, 5% Metal Oxide Film Resistors Bulk Package (0.47-68KΩ)	P(Value)W-1BK-ND (i.e., P20W-1BK-ND)	.23	.86	9.78	67.42	60.04/M	53.94/M
1 Watt, 5% Metal Oxide Film Resistors Tape and Reel (0.47-68KΩ)	P(Value)W-1TR-ND (i.e., P1.0KW-1TR-ND)	—	—	—	—	64.95/M	58.36/M
2 Watt, 5% Metal Oxide Film Resistors Bulk Package (0.47-100KΩ)	P(Value)W-2BK-ND (i.e., P20W-2BK-ND)	.28	1.03	13.26	81.18	72.24/M	64.80/M
2 Watt, 5% Metal Oxide Film Resistors Tape and Reel (0.47-100KΩ)	P(Value)W-2TR-ND (i.e., P1.0KW-2TR-ND)	283.22/3M		504.35/6M	906.29/12M	1762.34/27M	
3 Watt, 5% Metal Oxide Film Resistors Bulk Package (0.47-100KΩ)	P(Value)W-3BK-ND (i.e., P20W-3BK-ND)	.51	2.38	30.54	183.25	176.47/M	169.68/M
3 Watt, 5% Metal Oxide Film Resistors Tape and Reel (0.47-100KΩ)	P(Value)W-3TR-ND (i.e., P1.0KW-3TR-ND)	315.51/1,500		1123.69/6M	1766.83/10,500	3708.39/25,500	

AGEO 5 and 10 Watt Wirewound and Metal Oxide Film Rectangular Resistors 5%

Lead Type
rating Temperature
ge: −55° to 250°C

• Exceptionally small and sturdy; mechanically safe. Excellent electrical characteristics. • The materials used and the construction techniques ensure excellent flame resistance, arc resistance and moisture resistance as well as self-extinguishing capabilities. They will withstand the most rigorous loading test. • Applicable specifications: EIA RS-344 and EIA RC649.



t Standard Resistor Values — See below for complete part numbers when ordering.

0.62	1.2	2.2	3.9	6.8	12	22	39	68	120	220	390	680	1.2K
0.68	1.3	2.4	4.3	7.5	13	24	43	75	130	240	430	750	1.3K
0.75	1.5	2.7	4.7	8.2	15	27	47	82	150	270	470	820	1.5K
0.82	1.6	3.0	5.1	9.1	16	30	51	91	160	300	510	910	1.6K
0.91	1.8	3.3	5.6	10	18	33	56	100	180	330	560	1.0K	1.8K
1.0	2.0	3.6	6.2	11	20	36	62	110	200	360	620	1.1K	2.0K
1.1													

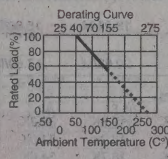
10 Watt Standard Resistor Values — See below for complete part numbers when ordering.

1.0	1.8	3.3	5.6	10	18	33	56	100	180	300	470	750	1.2K	2.0K
1.1	2.0	3.6	6.2	11	20	36	62	110	200	330	510	820	1.3K	2.2K
1.2	2.2	3.9	6.8	12	22	39	68	120	220	360	560	910	1.5K	2.4K
1.3	2.4	4.3	7.5	13	24	43	75	130	240	390	620	1.0K	1.6K	2.7K
1.5	2.7	4.7	8.2	15	27	47	82	150	270	430	680	1.1K	1.8K	3.0K
1.6	3.0	5.1	9.1	16	30	51	91	160						

ription	Digi-Key Part No.	Pricing 1	10	100	1M	5M	10M
tt, 5% Wirewound Rectangular **tors,** Bulk Package 0.30Ω to 180Ω	(Value)W-5-ND (i.e. 0.30W-5-ND)	.33	2.76	22.04	132.24	118.47/M	104.69/M
tt, 5% Metal Oxide Film Rectangular **tors,** Bulk Package 200Ω to 2.0KΩ	(Value)W-5-ND (i.e. 200W-5-ND)	.33	2.76	22.04	132.24	118.47/M	104.69/M
att, 5% Wirewound Rectangular **tors,** Bulk Package 1.0Ω to 270Ω	(Value)W-10-ND (i.e. 1.0W-10-ND)	.60	5.01	40.08	240.48	215.43/M	190.38/M
att, 5% Metal Oxide Film Rectangular **tors,** Bulk Package 300Ω to 3.0KΩ	(Value)W-10-ND (i.e. 300W-10-ND)	.60	5.01	40.08	240.48	215.43/M	190.38/M

cteristics

erature Coefficient	±300 PPM/°C
tion Resistance	100 MΩ
Life (1,000 hours)	±5% + 0.05Ω
-Time Overload	±2% + 0.05Ω
ctric Withstanding Volt	±2% + 0.05Ω
ure Resistance	±5% + 0.05Ω
k and Vitrate	±1% + 0.05Ω
of Soldering	±2% + 0.05Ω



Digi-Key® 5 Watt Resistor Assortment Kit

RS105-ND 0.30Ω-0.91Ω — 5 each 60 Resistors **$23.95**
RS205-ND 1.0Ω-9.1Ω — 4 each 96 Resistors **$32.95**
RS305-ND 10Ω-91Ω — 4 each 96 Resistors **$32.95**
RS405-ND 100Ω-2.0KΩ — 3 each 96 Resistors **$32.95**

Digi-Key® 10 Watt Resistor Assortment Kit

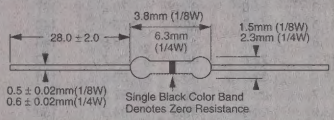
2 each of all 10 watt standard resistor values listed above. A total of 168 resistors.

RS110-ND **$72.95**

YAGEO Zerohm Jumper Wires

ations:
lly they are used for the following reasons:
lity to connect two points on a P.C. Board due to r circuit paths which must be crossed over.
fter-the-Fact design change that requires new point ections.
it tuning by changing point connections.

Specifications:
• Maximum Resistance: 0.004 ohm on 1/8 watt, 0.003 ohm on 1/4 watt • Typical Resistance: 0.002 ohm on both • Lead Material: tin-plated copper • Body Material: electrical grade, high performance molding compound • Min. Insulation Resistance — Dry: 10,000 megΩ, Wet: 100 megΩ • Min. Dielectric Withstanding Voltage — Atmospheric: 500V RMS, Reduced: 325V RMS • Insulation Flammability: resistor-insulation is self extinguishing within 10 seconds after externally applied flame is removed • Current Rating: 25 Amps at 25°C, derating to 0 Amps at 150°C.



scription	Digi-Key Part No.	Pricing 5	200	1M	5M	10M	50M
Watt, Zerohm Jumper, Bulk Package	0.0EBK-ND	.26	8.11	16.28	14.93/M	13.52/M	12.48/M
Watt, Zerohm Jumper, Tape/Reel (5M Pcs./Reel)	0.0ETR-ND	—	—	—	18.37/M	17.29/M	14.14/M
Watt, Zerohm Jumper, Bulk Package	0.0QBK-ND	.34	6.17	12.53	11.53/M	10.46/M	9.66/M
Watt, Zerohm Jumper, Tape/Reel (5M Pcs./Reel)	0.0QTR-ND	—	—	—	13.35/M	12.55/M	10.30/M

YAGEO 5% Carbon Film Resistors
Available In 1/6, 1/4 and 1/2 Watt

Standard Resistor Values
See below for complete part numbers when ordering.

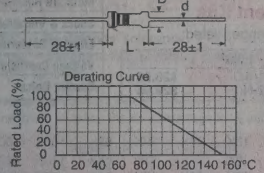
1.8	3.3	5.6	10	18	33	56	100	180	330	560	1.0K	1.8K	3.3K	5.6K	10K	18K	33K	56K	100K	180K	330K	560K	1.0M	1.8M	3.3M	5.6M	10M
2.0	3.6	6.2	11	20	36	62	110	200	360	620	1.1K	2.0K	3.6K	6.2K	11K	20K	36K	62K	110K	200K	360K	620K	1.1M	2.0M	3.6M	6.2M	
2.2	3.9	6.8	12	22	39	68	120	220	390	680	1.2K	2.2K	3.9K	6.8K	12K	22K	39K	68K	120K	220K	390K	680K	1.2M	2.2M	3.9M	6.8M	
2.4	4.3	7.5	13	24	43	75	130	240	430	750	1.3K	2.4K	4.3K	7.5K	13K	24K	43K	75K	130K	240K	430K	750K	1.3M	2.4M	4.3M	7.5M	
2.7	4.7	8.2	15	27	47	82	150	270	470	820	1.5K	2.7K	4.7K	8.2K	15K	27K	47K	82K	150K	270K	470K	820K	1.5K	2.7M	4.7M	8.2M	
3.0	5.1	9.1	16	30	51	91	160	300	510	910	1.6K	3.0K	5.1K	9.1K	16K	30K	51K	91K	160K	300K	510K	910K	1.6M	3.0M	5.1M	9.1M	

R Series

Type ower ating)	Dimensions (mm) L	D	d	Max. Working Voltage	Max. Overload Voltage	Dielectric Withstanding Voltage	Rated Ambient Temperature	Temperature Cycling	Resistance Range	Resistance Tolerance
Watt *	3.3 ± 0.4	1.8 ± 0.3	0.5 ± 0.05	150V	300V	300V	70°C	−55°C to 155°C	1.0Ω to 10 MΩ	±5%
Watt	6.3 ± 0.5	2.3 ± 0.3	0.6 ± 0.05	250V	500V	500V	70°C	−55°C to 155°C	1.0Ω to 10MΩ	±5%
Watt	9.0 ± 0.5	3.2 ± 0.5	0.6 ± 0.05	350V	700V	500V	70°C	−55°C to 155°C	1.0Ω to 10MΩ	±5%

res:
try's lowest cost!
ble in 1/6, 1/4,
att; packaged in
r tape/reel
ot 1/2 watt)
eds carbon comp
-11 performance
ard tolerance:

tional long-term
ty



cteristics: • Operating Temperature Range: -55°C to 155°C rability: 235°C for 5±0.5 seconds • Short Time Overload: 2.5 RCW V for 5 seconds • Resistance To Solvent: Trichroethane in. with ultrasonic • Pulse Overload: 4 times RCW V 10000 (1sec. on, 25 sec. off)

Description	Digi-Key Part No.	Pricing 5	200	1M	5M	10M	50M
1/6 Watt, 5% Carbon Film Resistors (* Power rating at 70°C = 1/6W) Bulk Package	(Value)EBK-ND (i.e. 1.0EBK-ND)	.28	4.70	13.63	12.22/M	11.28/M	10.34/M
1/6 Watt, 5% Carbon Film Resistors — Tape and Reel (* Power rating at 70°C = 1/6W) (5,000 pcs./reel— Order in multiples of 5,000)	(Value)ETR-ND (i.e. 1.0ETR-ND)	—	—	—	14.95/M	13.80/M	11.04/M
1/4 Watt, 5% Carbon Film Resistors Bulk Package	(Value)QBK-ND (i.e. 1.0QBK-ND)	.28	3.89	8.70	8.27/M	7.69/M	6.24/M
1/4 Watt, 5% Carbon Film Resistors — Tape and Reel (5,000 pcs./reel — Order in multiples of 5,000)	(Value)QTR-ND (i.e. 1.0QTR-ND)	—	—	—	8.94/M	8.25/M	6.60/M
1/2 Watt, 5% Carbon Film Resistors Bulk Package	(Value)H-ND (i.e. 1.0H-ND)	.23	3.36	10.92	10.08/M	9.24/M	8.40/M

"E" = Sixth Watt; "Q" = Quarter Watt; "H" = Half Watt. Please be sure to specify. Half watt available in bulk package only.

gi-Key® 1/6 Watt Resistor Assortment

0-ND 200 each of all std. values 5% 1/6 watt carbon film resistors eries 1.0Ω- 10MΩ (33,800 total pcs.) **$409.00**
-ND Set of 5 each of 73 standard 5% 1/6 watt carbon film rs in the series 1.0Ω, 1.2Ω, 1.5Ω, 1.8Ω, 2.2Ω, etc., through (365 total pieces) **$16.96**
ND Set of 5 each of the 72 standard 5% 1/6 watt carbon film rs in the series 1.1Ω, 1.3Ω, 1.6Ω, 2.0Ω, 2.4Ω, etc., through (360 total pieces) **$16.99**

Digi-Key® 1/4 Watt Resistor Assortment

RSQ200-ND 200 each of all std. values 5% 1/4 watt carbon film resistors in the series 1.0Ω - 10MΩ (33,800 total pcs.) **$239.00**
RS125-ND Set of 5 each of 73 standard 5% 1/4 watt carbon film resistors in the series 1.0Ω, 1.2Ω, 1.5Ω, 1.8Ω, 2.2Ω, etc., through 1.0 MΩ (365 total pieces) **$14.95**
RS225-ND Set of 5 each of the 72 standard 5% 1/4 watt carbon film resistors in the series 1.1Ω, 1.3Ω, 1.6Ω, 2.0Ω, 2.4Ω, etc., through 910kΩ (360 total pieces) **$14.95**

Digi-Key® 1/2 Watt Resistor Assortment

RSH200-ND 200 each of all std. values 5% 1/2 watt carbon film resistors in the series 1.0Ω - 10MΩ (33,800 total pcs.) **$335.00**
RS150-ND Set of 5 each of 73 standard 5% 1/2 watt carbon film resistors in the series 1.0Ω, 1.2Ω, 1.5Ω, 1.8Ω, 2.2Ω, etc. through 1.0MΩ (365 total pieces) **$16.95**
RS250-ND Set of 5 each of the 72 standard 5% 1/2 watt carbon film resistors in the series 1.1Ω, 1.3Ω, 1.6Ω, 2.0Ω, 2.4Ω, etc., through 910kΩ (360 total pieces) **$16.95**

YAGEO 1% Metal Film Fixed Resistors 1/4 Watt

MFR Series

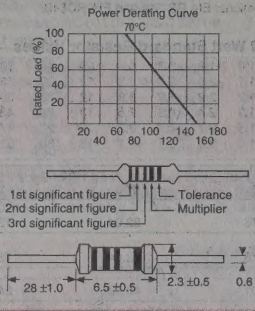
The MFR series Metal Film Resistors are manufactured using vacuum sputtering system to deposit multiple layers of mixed metals and passivative materials onto a carefully treated high grade ceramic substrate, the resistors are coated with layers of light-blue lacquer.

General Specifications:

Power Rating: 1/4 Watt. **Max. Working Voltage:** 250V. **Max. Overload Voltage:** 500V. **Rated Ambient Temperature:** 70°C. **Temperature Cycling:** –65°C to +150°C. **Resistance Range:** 10.0Ω to 1.00MΩ. **Resistance Tolerance:** ±1%.

Electrical Specifications:

All measurements are taken at +25°C at 1KHz and 65% relative humidity, unless stated otherwise. **Type:** MF-25 **Style:** RN-55 **Power Rating:** 1/4 Watt **Resistance Tolerance:** ±1% **Temperature Coefficient:** ±100PPM/°C



Characteristics

Temperature Cycling, -65°C ~ 150°C	(%)	±0.25
Low Temperature Operation, -65°C	(%)	±0.25
Short Time Overload	(%)	±0.20
Terminal Strength, 5 lb. pull	(%)	±0.20
Resistance to Soldering Heat, 350°C	(%)	±0.10
Moisture Resistance, Mil Std 202	(%)	±0.50
Life 1000 hrs. (Rated Power)	(%)	±0.50
Shock, 50G, 11ms	(%)	±0.20
Vibration-High Frequency, 10-2000Hz	(%)	±0.20
Insulation Resistance	(%)	=10^5Ω
Failure-Rate	(%)	10^-9/h

1% Metal Film Resistors

Digi-Key® Assortment Kits

35% SAVINGS Over Parts Purchased Separately

5 Each of Values 10Ω to 97.6
RS1X-ND

5 Each of Values 100Ω to 976
RS2X-ND

5 Each of Values 1.00KΩ to 9.
RS3X-ND

5 Each of Values 10.0KΩ to 97
RS4X-ND

5 Each of Values 100KΩ to 1.0
RS5X-ND

Description	Value Range	Digi-Key Part No.	Pricing 5	200	1M	5M	10M	50M	100M	500M	1,0
1/4 Watt, 1% Metal Film Resistors Bulk Package	10.0 ~ 1.00M Ω 10.0 ~ 1.0M Ω	(Value)XBK-ND (i.e. 10.0XBK-ND)	.54	8.27	21.38	18.24/M	15.68/M	12.54/M	—	—	
1/4 Watt, 1% Metal Film Resistors Order in multiples of 5,000 (5,000 pcs./reel)	10.0 ~ 1.00M Ω 10.0 ~ 1.00M Ω	(Value)XTR-ND (i.e. 10.0XTR-ND)	—	—	—	20.63/M	17.60/M	14.30/M	12.10/M	9.90/M	8.8

YAGEO Standard Resistor Values

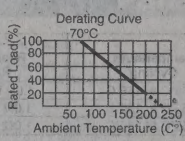
10.0	18.7	34.8	64.9	121	226	422	787	1.47K	2.74K	5.11K	9.53K	17.8K	33.2K	61.9K	115K	215K	402K	750
10.2	19.1	35.7	66.5	124	232	432	806	1.50K	2.80K	5.23K	9.76K	18.2K	34.0K	63.4K	118K	221K	412K	768
10.5	19.6	36.5	68.1	127	237	442	825	1.54K	2.87K	5.36K	10.0K	18.7K	34.8K	64.9K	121K	226K	422K	787
10.7	20.0	37.4	69.8	130	243	453	845	1.58K	2.94K	5.49K	10.2K	19.1K	35.7K	66.5K	124K	232K	432K	806
11.0	20.5	38.3	71.5	133	249	464	866	1.62K	3.01K	5.62K	10.5K	19.6K	36.5K	68.1K	127K	237K	442K	825
11.3	21.0	39.2	73.2	137	255	475	887	1.65K	3.09K	5.76K	10.7K	20.0K	37.4K	69.8K	130K	243K	453K	845
11.5	21.5	40.2	75.0	140	261	487	909	1.69K	3.16K	5.90K	11.0K	20.5K	38.3K	71.5K	133K	249K	464K	866
11.8	22.1	41.2	76.8	143	267	499	931	1.74K	3.24K	6.04K	11.3K	21.0K	39.2K	73.2K	137K	255K	475K	887
12.1	22.6	42.2	78.7	147	274	511	953	1.78K	3.32K	6.19K	11.5K	21.5K	40.2K	75.0K	140K	261K	487K	909
12.4	23.2	43.2	80.6	150	280	523	976	1.82K	3.40K	6.34K	11.8K	22.1K	41.2K	76.8K	143K	267K	499K	931
12.7	23.7	44.2	82.5	154	287	536	1.00K	1.87K	3.48K	6.49K	12.1K	22.6K	42.2K	78.7K	147K	274K	511K	953
13.0	24.3	45.3	84.5	158	294	549	1.02K	1.91K	3.57K	6.65K	12.4K	23.2K	43.2K	80.6K	150K	280K	523K	976
13.3	24.9	46.4	86.6	162	301	562	1.05K	1.96K	3.65K	6.81K	12.7K	23.7K	44.2K	82.5K	154K	287K	536K	1.0
13.7	25.5	47.5	88.7	165	309	576	1.07K	2.00K	3.74K	6.98K	13.0K	24.3K	45.3K	84.5K	158K	294K	549K	
14.0	26.1	48.7	90.9	169	316	590	1.10K	2.05K	3.83K	7.15K	13.3K	24.9K	46.4K	86.6K	162K	301K	562K	
14.3	26.7	49.9	93.1	174	324	604	1.13K	2.10K	3.92K	7.32K	13.7K	25.5K	47.5K	88.7K	165K	309K	576K	
14.7	27.4	51.1	95.3	178	332	619	1.15K	2.15K	4.02K	7.50K	14.0K	26.1K	48.7K	90.9K	169K	316K	590K	
15.0	28.0	52.3	97.6	182	340	634	1.18K	2.21K	4.12K	7.68K	14.3K	26.7K	49.9K	93.1K	174K	324K	604K	
15.4	28.7	53.6	100	187	348	649	1.21K	2.26K	4.22K	7.87K	14.7K	27.4K	51.1K	95.3K	178K	332K	619K	
15.8	29.4	54.9	102	191	357	665	1.24K	2.32K	4.32K	8.06K	15.0K	28.0K	52.3K	97.6K	182K	340K	634K	
16.2	30.1	56.2	105	196	365	681	1.27K	2.37K	4.42K	8.25K	15.4K	28.7K	53.6K	100K	187K	348K	649K	
16.5	30.9	57.6	107	200	374	698	1.30K	2.43K	4.53K	8.45K	15.8K	29.4K	54.9K	102K	191K	357K	665K	
16.9	31.6	59.0	110	205	383	715	1.33K	2.49K	4.64K	8.66K	16.2K	30.1K	56.2K	105K	196K	365K	681K	
17.4	32.4	60.4	113	210	392	732	1.37K	2.55K	4.75K	8.87K	16.5K	30.9K	57.6K	107K	200K	374K	698K	
17.8	33.2	61.9	115	215	402	750	1.40K	2.61K	4.87K	9.09K	16.9K	31.6K	59.0K	110K	205K	383K	715K	
18.2	34.0	63.4	118	221	412	768	1.43K	2.67K	4.99K	9.31K	17.4K	32.4K	60.4K	113K	210K	392K	732K	

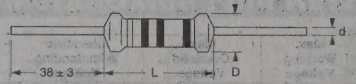
F

YAGEO 5% Metal Oxide Film Resistors

RSF Series

These Metal Oxide Resistors offer lower cost alternatives to Carbon Composition Resistors and General Purpose Metal Films. They can replace many low power General Purpose wirewound applications. These Metal Oxides meet overload tests in accordance with UL specification #1412 without producing a fire hazard. They withstand solvents in accordance with article Mil-Std-202E without producing mechanical or electrical damage.





Type	Max. Working Volt.	Dimensions (mm) L	D	d
1W	350	11.5 ± 1.0	4.5 ± 0.5	0.8 ± 0.05
2W	350	15.5 ± 1.0	5.0 ± 0.5	0.8 ± 0.05

Features: High surge/overload capability. Non-inductive design. Coating and marking resist Trichlorethelyne, Freon, and other cleaning agents. The RFS Series resistors are coated with layers of gray flame-proof lacquer.

Digi-Key® 1 and 2 Watt Resistor Assortment Kits

255 resistors per assortment. 5 each of the values in the ranges listed:

	0.47Ω - 56Ω	62Ω - 7.5KΩ	8.2KΩ - 1.0M	
1 Watt	RS101-ND	RS201-ND	RS301-ND	$26.95
2 Watt	RS102-ND	RS202-ND	RS302-ND	$29.95

Characteristics:

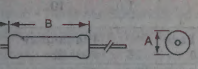
Temperature Coefficient	±300 PPM
Insulation Resist.	10,000 MΩ Min
Load Life (1,000 hours)	◂1% Typ. ±3%
Short-time Overload	±0.5% Max
Temp. Cycling	±0.5% Max
Moisture Resistance	±1.0% Max
Shock & Vibration	±0.2% Max
Effect of Soldering	±0.5% Max
Voltage Coefficient	.001%/V
Current Noise	◂.1μV/V

Standard Resistor Values — See below for complete part numbers when ordering.

0.47	0.82	1.5	2.7	4.3	6.8	11	18	30	47	75	120	200	330	510	820	1.3K	2.2K	3.6K	5.6K	9.1K	15K	24K	39K	62K	100K	160K	270K	430K
0.51	0.91	1.6	3.0	4.7	7.5	12	20	33	51	82	130	220	360	560	910	1.5K	2.4K	3.9K	6.2K	10K	16K	27K	43K	68K	110K	180K	300K	470K
0.56	1.0	1.8	3.3	5.1	8.2	13	22	36	56	91	150	240	390	620	1.0K	1.6K	2.7K	4.3K	6.8K	11K	18K	30K	47K	75K	120K	200K	330K	510K
0.62	1.1	2.0	3.6	5.6	9.1	15	24	39	62	100	160	270	430	680	1.1K	1.8K	3.0K	4.7K	7.5K	12K	20K	33K	51K	82K	130K	220K	360K	560K
0.68	1.2	2.2	3.9	6.2	10	16	27	43	68	110	180	300	470	750	1.2K	2.0K	3.3K	5.1K	8.2K	13K	22K	36K	56K	91K	150K	240K	390K	620K
0.75	1.3	2.4																											

Description	Digi-Key Part No.	Pricing 1	10	100	1M	5M	10M
1 Watt, 5% Metal Oxide Film Resistors Bulk Package (0.47-0.91Ω)	(Value)W-1-ND (i.e. 0.47W-1-ND)	.27	1.96	12.60	77.00	68.60/M	61.60/M
1 Watt, 5% Metal Oxide Film Resistors Bulk Package (1.0-1.0MΩ)	(Value)W-1-ND (i.e. 1.0W-1-ND)	.21	1.58	10.17	62.18	55.40/M	49.75/M
2 Watt, 5% Metal Oxide Film Resistors Bulk Package (0.47-0.91Ω)	(Value)W-2-ND (i.e. 0.47W-2-ND)	.29	2.10	13.50	82.50	73.50/M	66.00/M
2 Watt, 5% Metal Oxide Film Resistors Bulk Package (1.0-1.0MΩ)	(Value)W-2-ND (i.e. 1.0W-2-ND)	.23	1.70	10.90	66.63	59.37/M	53.31/M

cone Coated Wirewound Resistors – 1, 3, 5 Watt, 1%



Series	A ±.81mm	B ±.81mm	C	D
ALSR-1	2.79	9.78	.51	38.10
ALSR-3	5.08	13.46	.81	38.10
ALSR-5	7.92	23.80	.81	38.10

cal Specifications

Series	ALSR-1	ALSR-3, ALSR-5
Resistance Tolerance	±1%	±1%
ielectric Withstanding Voltage	500 VAC	1000 VAC
Short Time Overload	5 X rated wattage for 5 seconds	

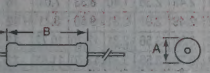
RESISTANCE VALUE CHART

.50	5.0	22	40	100	225	400	750	1.5K	3.5K	6.8K	20.0K
.75	7.5	25	47	120	250	470	800	1.8K	3.9K	7.5K	25.0K
1.0	10	27	50	125	270	500	820	2.0K	4.0K	8.0K	
1.5	12	30	56	150	300	560	900	2.2K	4.7K	8.2K	
2.0	15	33	68	180	330	600	1.0K	2.5K	5.0K	10.0K	
3.0	18	35	75	200	350	680	1.1K	2.7K	5.6K	12.5K	
4.0	20	39	82	220	390	700	1.2K	3.0K	6.0K	15.0K	

Resistance Range (Ohms)	Wattage	Digi-Key* Part No.	Price Each 1	10	25	50	100	Huntington Part No.
.10-.75	1	ALSR1F-(Value)-ND	1.98	1.77	—	1.50	1.10	ALSR-1-(Value)-1%
1.0-900	1	ALSR1F-(Value)-ND	1.95	1.74	—	1.47	1.08	ALSR-1-(Value)-1%
1.0K-3.0K	1	ALSR1F-(Value)-ND	2.02	1.80	—	1.52	1.12	ALSR-1-(Value)-1%
.10-900	3	ALSR3F-(Value)-ND	1.38	—	1.16	—	.97	ALSR-3-(Value)-1%
1.0K-2.7K	3	ALSR3F-(Value)-ND	1.38	—	1.16	—	.97	ALSR-3-(Value)-1%
3.0K-4.7K	3	ALSR3F-(Value)-ND	1.38	—	1.16	—	.97	ALSR-3-(Value)-1%
5.0K-10.0K	3	ALSR3F-(Value)-ND	1.38	—	1.16	—	.97	ALSR-3-(Value)-1%
.10-900	5	ALSR5F-(Value)-ND	1.35	—	1.14	—	.95	ALSR-5-(Value)-1%
1.0K-4.7K	5	ALSR5F-(Value)-ND	1.30	—	1.10	—	.91	ALSR-5-(Value)-1%
5.0K-8.2K	5	ALSR5F-(Value)-ND	1.30	—	1.10	—	.91	ALSR-5-(Value)-1%
10.0K-20.0K	5	ALSR5F-(Value)-ND	1.35	—	1.14	—	.95	ALSR-5-(Value)-1%
25.0K	5	ALSR5F-(Value)-ND	1.35	—	1.14	—	.95	ALSR-5-(Value)-1%

* For complete part number, substitute Digi-Key value (from Resistance Value Chart) for (Value).

cone Coated Wirewound Resistors – 1, 3, 5, 10 Watt, 5%



Series	A ±.81mm	B ±.81mm	C	D
ALSR-1	2.79	9.78	.51	38.10
ALSR-3	5.08	13.46	.81	38.10
ALSR-5	7.92	23.80	.81	38.10
ALSR-10	7.92	45.72	.81	38.10

cal Specifications:

Series	ALSR-1	ALSR-3	ALSR-5	ALSR-10
Resistance Tolerance	±5%	±5%	±5%	±5%
Power Rating	1 Watts at 25°C	3 Watts at 25°C	5 Watts at 25°C	10 Watts at 25°C
tric Withstanding Voltage	500 VAC	1000 VAC	1000 VAC	1000 VAC
Short Time Overload	5 X rated wattage for 5 seconds		10 X rated wattage for 5 seconds	

RESISTANCE VALUE CHART

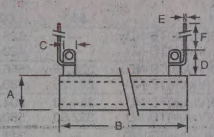
2.0	25	75	270	680	1.75K	4.0K	8.5K	20.0K
3.0	27	82	300	700	1.8K	4.5K	9.0K	22.0K
4.0	30	100	330	750	2.0K	4.7K	10.0K	22.5K
5.0	33	120	350	800	2.2K	5.0K	11.0K	25.0K
7.5	35	125	390	820	2.25K	5.6K	12.0K	
10	39	150	400	900	2.5K	6.0K	12.5K	
12	40	180	450	1.0K	2.7K	6.8K	13.5K	
15	47	200	470	1.1K	3.0K	7.0K	15.0K	
18	50	220	500	1.2K	3.3K	7.5K	16.0K	
20	56	225	560	1.25K	3.5K	8.0K	17.5K	
22	68	250	600	1.5K	3.9K	8.2K	18.0K	

Resistance Range (Ohms)	Wattage	Digi-Key* Part No.	Price Each 1	10	50	100	Huntington* Part No.
.10-.75	1	ALSR1J-(Value)-ND	1.63	1.45	1.23	.90	ALSR-1-(Value)
1.0-900	1	ALSR1J-(Value)-ND	1.59	1.43	1.21	.89	ALSR-1-(Value)
1.0K-5.6K	1	ALSR1J-(Value)-ND	1.85	1.66	1.40	1.03	ALSR-1-(Value)
6.0K-10.0K	1	ALSR1J-(Value)-ND	1.85	1.66	1.40	1.03	ALSR-1-(Value)
.10-900	3	ALSR3J-(Value)-ND	1.40	1.25	1.06	.78	ALSR-3-(Value)
1.0K-4.7K	3	ALSR3J-(Value)-ND	1.40	1.25	1.06	.78	ALSR-3-(Value)
5.0K-10.0K	3	ALSR3J-(Value)-ND	1.53	1.37	1.16	.85	ALSR-3-(Value)
.10-.75	5	ALSR5J-(Value)-ND	1.56	1.40	1.18	.87	ALSR-5-(Value)
1.0-7.5	5	ALSR5J-(Value)-ND	1.56	1.40	1.18	.87	ALSR-5-(Value)
10-2.7K	5	ALSR5J-(Value)-ND	1.56	1.40	1.18	.87	ALSR-5-(Value)
3.0K-4.7K	5	ALSR5J-(Value)-ND	1.56	1.40	1.18	.87	ALSR-5-(Value)
5.0K-9.0K	5	ALSR5J-(Value)-ND	1.56	1.40	1.18	.87	ALSR-5-(Value)
10.0K-22.5K	5	ALSR5J-(Value)-ND	1.56	1.40	1.18	.87	ALSR-5-(Value)
25.0K	5	ALSR5J-(Value)-ND	1.53	1.37	1.16	.85	ALSR-5-(Value)
.10-.75	10	ALSR10-(Value)-ND	1.98	1.77	1.50	1.10	ALSR-10-(Value)
1.0-680, 750-900	10	ALSR10-(Value)-ND	1.69	1.51	1.28	.94	ALSR-10-(Value)
1.0K-2.7K	10	ALSR10-(Value)-ND	1.82	1.63	1.38	1.01	ALSR-10-(Value)
3.0K-9.0K	10	ALSR10-(Value)-ND	2.11	1.89	1.60	1.17	ALSR-10-(Value)
10.0K-22.5K	10	ALSR10-(Value)-ND	2.31	2.06	1.74	1.28	ALSR-10-(Value)
25.0K	10	ALSR10-(Value)-ND	2.31	2.06	1.74	1.28	ALSR-10-(Value)

* For complete part number, substitute Digi-Key value (from Resistance Value Chart) for (Value).

F

eous Enamel Wirewound Power sistors – 8, 12 Watt



	A	B	C	D	E	F
5	7.94	25.40	4.76	11.11	.81	50.80
10	7.94	44.45	4.76	11.11	.81	50.80

cal Specifications:

Series	FVTS-5	FVTS-10
Resistance Tolerance	±5% 1Ω & above ±10% 1Ω & below	±5% 1Ω & above ±10% 1Ω & below
Power Rating	8 Watts at 25°C	12 Watts at 25°C
Dielectric Withstanding Voltage	1000 VAC	1000 VAC
ort Time Overload	5 X rated wattage for 5 seconds	10 X rated wattage for 5 seconds

RESISTANCE VALUE CHART

2.0	10	35	125	300	600	1.2K	2.5K	4.5K	7.5K	12.0K	40.0K
3.0	15	50	150	400	750	1.25K	3.0K	5.0K	8.0K	15.0K	50.0K
5.0	20	75	200	450	900	1.5K	3.5K	6.0K	9.0K	20.0K	
7.5	25	100	250	500	1.0K	2.0K	4.0K	7.0K	10.0K	25.0K	

Resistance Range (Ohms)	Wattage	Digi-Key* Part No.	Price Each 1	25	100	250	Huntington Part No.
5.0-900	8	FVTS5-(Value)-ND	2.53	2.17	1.66	1.48	FVTS-5-(Value)
1.0K-4.5K	8	FVTS5-(Value)-ND	2.67	2.28	1.75	1.56	FVTS-5-(Value)
5.0K-9.0K	8	FVTS5-(Value)-ND	2.81	2.40	1.84	1.64	FVTS-5-(Value)
10.0K	8	FVTS5-(Value)-ND	2.64	2.26	1.73	1.54	FVTS-5-(Value)
2.0-450	12	FVTS10-(Value)-ND	2.78	2.38	1.82	1.62	FVTS-10-(Value)
500-900	12	FVTS10-(Value)-ND	3.00	2.57	1.97	1.75	FVTS-10-(Value)
1.0K-5.0K, 7.5K-9.0K	12	FVTS10-(Value)-ND	3.25	2.78	2.13	1.89	FVTS-10-(Value)
10.0K-20.0K	12	FVTS10-(Value)-ND	3.52	3.01	2.31	2.05	FVTS-10-(Value)
25.0K	12	FVTS10-(Value)-ND	3.88	3.32	2.54	2.26	FVTS-10-(Value)
40.0K, 50.0K	12	FVTS10-(Value)-ND	4.95	4.23	3.24	2.88	FVTS-10-(Value)

* For complete part number, substitute Digi-Key value (from Resistance Value Chart) for (Value).

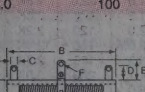
eous Enamel Wirewound Power sistors – 25, 50, 100, 225 Watt

TABLE AVT SERIES: • **Resistance Tolerance:** ±10%, wattage rating applied only when the sistance is in the circuit • **Dielectric Withstanding Voltage:** 1000VAC • **Short Time Overload:** s the rated wattage for 5 seconds

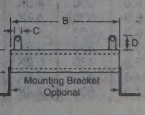
FVT SERIES: • **Resistance Tolerance:** ±5% above 1 ohm • **Dielectric Withstanding Voltage:** C • **Short Time Overload:** 10 times the rated wattage for 5 seconds

RESISTANCE VALUE CHART

.0	10	150	750	5.0K	50.0K
.0	25	200	1.0K	10.0K	
.0	50	250	2.5K	12.0K	
.0	100	500	4.0K	25.0K	



Series	A	B	C	D	E	F
AVT25	14.29	50.80	6.35	14.29	17.46	4.22
AVT50	14.29	101.60	6.35	14.29	17.46	4.22
AVT100	19.05	165.10	6.35	14.29	17.46	4.22
AVT200	28.58	266.70	7.94	15.88	22.23	4.22



Series	A	B	C	D
FVT25	14.29	50.80	6.35	14.29
FVT50	14.29	101.60	6.35	14.29
FVT100	19.05	165.10	6.35	14.29
FVT200	28.58	266.70	7.94	15.88

Resistance Range (Ohms)	Wattage	Digi-Key* Part No.	Price Each 1	10	25	100	Huntington Part No.
2.0-3.0	25	FVT25-(Value)-ND	3.31	—	2.40	1.89	FVT-25-(Value)
10, 25, 100	25	FVT25-(Value)-ND	3.28	—	2.38	1.87	FVT-25-(Value)
500-4.0K	25	FVT25-(Value)-ND	3.28	—	2.38	1.87	FVT-25-(Value)
5.0K	25	FVT25-(Value)-ND	3.54	—	2.57	2.02	FVT-25-(Value)
10.0K-12.0K	25	FVT25-(Value)-ND	3.77	—	2.73	2.15	FVT-25-(Value)
25.0K-50.0K	25	FVT25-(Value)-ND	4.76	—	3.45	2.71	FVT-25-(Value)
1.0-5.0	50	FVT50-(Value)-ND	4.79	—	3.47	2.73	FVT-50-(Value)
10-100, 500, 1.0K	50	FVT50-(Value)-ND	4.50	—	3.26	2.56	FVT-50-(Value)
5.0K	50	FVT50-(Value)-ND	4.79	—	3.47	2.73	FVT-50-(Value)
1.0, 2.0, 5.0	100	FVT100-(Value)-ND	8.21	—	5.95	4.67	FVT-100-(Value)
10, 50, 100, 250, 1.0K	100	FVT100-(Value)-ND	7.48	—	5.42	4.26	FVT-100-(Value)
1.0, 3.0, 5.0	225	FVT200-(Value)-ND	12.36	11.13	9.89	9.27	FVT-200-(Value)
10, 50, 100, 250, 500	225	FVT200-(Value)-ND	10.30	9.27	8.24	7.73	FVT-200-(Value)
1.0K	225	FVT200-(Value)-ND	10.30	9.27	8.24	7.73	FVT-200-(Value)
1.0, 3.0, 5.0	25	AVT25-(Value)-ND	5.63	5.18	4.28	3.60	AVT-25-(Value)
10-100, 250, 500	25	AVT25-(Value)-ND	4.65	4.28	3.54	2.98	AVT-25-(Value)
1.0-5.0	50	AVT50-(Value)-ND	6.58	6.05	5.00	4.21	AVT-50-(Value)
10-100, 500	50	AVT50-(Value)-ND	5.65	5.20	4.30	3.62	AVT-50-(Value)
1.0K	50	AVT50-(Value)-ND	5.93	5.46	4.51	3.80	AVT-50-(Value)
1.0, 2.0	100	AVT100-(Value)-ND	12.83	11.80	9.75	8.21	AVT-100-(Value)
10, 50, 100, 250	100	AVT100-(Value)-ND	9.48	8.72	7.21	6.07	AVT-100-(Value)
1.0K	100	AVT100-(Value)-ND	10.95	10.08	8.33	7.01	AVT-100-(Value)
1.0-5.0	225	AVT200-(Value)-ND	22.35	20.57	16.99	14.31	AVT-200-(Value)
10-500	225	AVT200-(Value)-ND	16.10	14.82	12.24	10.31	AVT-200-(Value)
1.0K	225	AVT200-(Value)-ND	16.90	15.55	12.85	10.82	AVT-200-(Value)
Mounting Bracket for 25/50W Res.		B1003-ND‡	.45	—	.35	.25	B1003-1
Mounting Bracket for 100W Res.		B1002-ND‡	.54	—	.42	.30	B1002-1
Mounting Bracket for 200W Res.		B1001-ND‡	.59	—	.46	.33	B1001-1

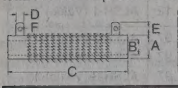
* For complete part number, substitute Digi-Key value (from Resistance Value Chart) for (Value).
‡ Requires 2 brackets per resistor

HUNTINGTON ELECTRIC, INC.

Edgewound Resistors – 300, 1000 Watt

HEI Edgewound Resistors are designed for applications demanding maximum power dissipation in minimum space. Edgewounds are constructed of special alloy resistance wire, crimped, and wound on edge. High quality ceramic cores are used with a coating of either vitreous enamel or silicone to provide heat sink for short term overloads and maximum dissipation.

Specifications: • **Dielectric Withstanding Voltage:** Measured from terminals to brackets, 1000 VAC • **Overload:** 10 X rated power for 5 seconds • **Tolerance:** ±10% • Wattage is based on 25°C free air rating.



Series	A	(Core) B	C	D	(Terminal) E	F
FVE-300	28.58	19.05	215.90	7.94	15.88	254.00 - 812.80
AVE-300	28.58	19.05	215.90	7.94	15.88	254.00 - 812.80
FSE-1000	63.50	44.45	381.00	12.70	15.88	6.35 - 508.00

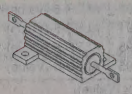
RESISTANCE VALUE CHART

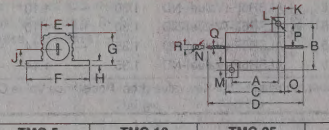
FVE-300 Fixed			AVE-300 Adj.				FSE-1000 Fixed	
.50	5.0	12	.10	.20	1.6	20	.25	3.5
1.2	8.0	16	.12	.80	8.0		.50	4.5
2.0	10	20	.16	1.0	16		1.0	10

Resistance Range (Ω)	Wattage	Digi-Key* Part No.	Price Each 1	10	25	Huntington* Part No.
.50 - 20	300	FVE300-(Value)-ND	16.48	14.81	12.54	FVE-300-(Value)
.10 - 20	300	AVE300-(Value)-ND	25.76	20.58	14.42	AVE-300-(Value)
.25 - 15	1000	FSE1000-(Value)-ND	51.50	46.35	—	FSE-1000-(Value
FVE-300 and AVE-300 Mounting Kit		K1016-ND	9.75/1			K1016
FSE-1000 Mounting Kit		K3003-ND	16.69/1			K3003

* For complete part number, substitute Digi-Key value (from Resistance Value Chart) for (Value).

Aluminum Housed Chassis Mount Resistors – 5, 10, 25, 50 Watt, 1% (Precision Power Wirewound)





HEI's high power aluminum housed resistors use centerless ground ceramic cores for uniform heat distrib Molded in a special high temperature material and mounted in an extruded aluminum finned housing, t designs provide maximum power dissipation and reliability. They have tinned copperweld leads for solder and meet or exceed MIL-R-18546, including "N" characteristic, and MIL-R-39009. **Specifications:** • P Rating: Based on full power operation at 25°C, and maximum hotspot 275°C. • Mounting on proper heat si follows: For 5 and 10 Watt – use 4" x 6" x 2" x .040" (101.60 x 152.40 x 50.80 x 1.02mm) aluminum chassis 25 and 50 Watt – use 5" x 7" x 2" x .040" (127.00 x 177.80 x 50.80 x 1.02mm) aluminum chassis.

Electrical Specifications:

Series	TMC-5	TMC-10	TMC-25	TMC-50
MIL-R-39009/MIL-R-18546	RER-60/RE-60	RER-65/RE-65	RER-70/RE-70	RER-75/RE-75
HEI Power	7.5 Watts	12.5 Watts	25 Watts	50 Watts
MIL Power	5 Watts	10 Watts	20 Watts	30 Watts
Working Voltage	160	265	550	1250
Dielectric Strength	1000 VAC	1000 VAC	2500 VAC	2500 VAC

Series	A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	Q AWG
TMC-5	11.40	12.57	16.03	30.15	8.86	16.79	8.51	1.91	3.81	2.24	2.49	2.36	1.40	8.33	7.01	16
TMC-10	14.40	16.00	19.84	36.50	11.30	20.70	10.54	2.16	5.08	2.62	2.49	2.97	2.31	9.50	8.71	12
TMC-25	18.39	19.96	27.76	50.80	13.84	27.81	14.61	2.41	6.86	4.62	3.30	3.56	2.31	12.70	10.72	12
TMC-50	39.83	21.56	50.77	72.21	16.00	29.34	16.00	2.41	7.87	5.23	3.30	3.56	2.31	12.70	11.51	12

RESISTANCE VALUE CHART

TMC-5			TMC-10			TMC-25			TMC-50			
.10	25	2.0K	.20	33	330	.10	20	500	.15	1.5	8.0	40	300
.50	30	10.0K	1.0	35	1.0K	1.0	25	1.0K	.20	2.0	10	50	500
1.0	100	15.0K	2.0	50	2.0K	2.0	40	2.0K	.25	2.5	12	75	1.0K
5.0	150		2.5	75	2.5K	3.0	100	3.0K	.30	3.3	16	100	1.5K
10	300		10	100	10.0K	12	200		.50	5.0	20	150	2.5K
12	390		25	300		15	300		1.0	6.0	30	250	5.0K

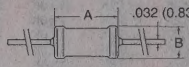
Resistance Range (Ohms)	Wattage	Digi-Key* Part No.	Price Each 1	10	50	100	250	Huntington* Part No.
.10-15.0K	5	TMC5-(Value)-ND	3.37	2.87	2.37	2.03	1.86	TMC-5-(Value)-1
.20-10.0K	10	TMC10-(Value)-ND	3.56	3.04	2.49	2.14	1.96	TMC-10-(Value)-
.10-3.0K	25	TMC25-(Value)-ND	4.98	4.25	3.49	2.99	2.76	TMC-25-(Value)-
.15-5.0K	50	TMC50-(Value)-ND	5.21	4.44	3.65	3.14	2.88	TMC-50-(Value)-

* For complete part number, substitute Digi-Key value (from Resistance Value Chart) for (Value).

F

Phoenix Passive Components

1% and 5% Cemented Wirewound Resistors



Type	A Max. (mm)	B Max. (r
PAC01	10	4.3
PAC03	17	5.5
PAC05	23	7.5
AC01	10	4.3
AC03	13	5.5
AC05	17	7.5
AC07	25	7.5

The resistor element is a resistive wire which is wound in a single layer on a ceramic rod. Metal caps are pressed over the ends of the rod. The ends of the resistance wire and the leads are connected to the caps by welding. Tinned copper-clad iron leads with poor heat conductivity are employed permitting the use of relatively short leads to obtain stable mounting without overheating the solder joint. The resistor is coated with a green silicon cement which is not resistant to aggressive fluxes. The coating is non-flammable, will not drip even at high overloads and is resistant to most commonly used cleaning solvents, in accordance with MIL-STD-202E, method 215 and IEC 60068-2-45.

Characteristics: PAC: • Resistance Tolerance: ±1% • Temperature Coefficient: ±100ppm/°C • Rated Dissipation at TAMB=25°C: 1W, 3W, 5W • Operating Temperature Range: -55°C to 200°C • Maximum Permissive Body Temperature: 275°C **AC:** • Resistance Tolerance: ±5% • Temperature Coefficient: <10Ω +600ppm/°C, >10Ω -80/+140ppm/°C • Rated Dissipation at TAMB=25°C: 1W, 3W, 5W, 7W • Operating Temperature Range: -40°C to 200°C • Maximum Permissive Body Temperature: 350°C

Value Range (Ohms)	Wattage	Res. Tol.	Digi-Key* Part No.	Pricing 5	200	500	Digi-Key* Part No.	Tape & Box Pricing 500	1,000	5,000	10,000	Phoenix Passive Compone Part No.
.10-.75, 1.0K-2.5K 1.0-910	1	1%	PPC1D(Value)CT-ND	13.68	208.80	288.00	PPC1D(Value)TB-ND	—	525.00	448.00/M	406.00/M	2306 327 5xxxx
			PPC1D(Value)CT-ND	11.02	168.20	232.00	PPC1D(Value)TB-ND	—	420.00	358.40/M	324.80/M	2306 327 5xxxx
.10-.75, 1.0K-3.9K-5.0K 1.0-910	3	1%	PPC3D(Value)CT-ND	16.91	258.10	—	PPC3D(Value)TB-ND	326.25	556.80	504.60/M	452.40/M	2306 327 1xxxx
			PPC3D(Value)CT-ND	14.63	223.30	—	PPC3D(Value)TB-ND	281.25	480.00	435.00/M	390.00/M	2306 327 1xxxx
.10-.75, 1.0K-10.0K 1.0-910	5	1%	PPC5D(Value)CT-ND	18.34	279.85	—	PPC5D(Value)TB-ND	354.38	604.80	548.10/M	491.40/M	2306 327 3xxxx
			PPC5D(Value)CT-ND	16.72	255.20	—	PPC5D(Value)TB-ND	322.50	550.40	498.80/M	447.20/M	2306 327 3xxxx
.10-.75, 1.0K 1.0-910, 1.1K-1.8K 2.0K-2.4K	1	5%	PPC1W(Value)CT-ND	8.27	126.15	174.00	PPC1W(Value)TB-ND	—	311.25	265.60/M	240.70/M	2306 328 33xxx
			PPC1W(Value)CT-ND	7.79	118.90	164.00	PPC1W(Value)TB-ND	—	292.50	249.60/M	226.20/M	2306 328 33xxx
			PPC1W(Value)CT-ND	8.46	129.05	178.00	PPC1W(Value)TB-ND	—	318.75	272.00/M	246.50/M	2306 328 33xxx
.10-.75 1.0-910 1.0K-5.0K	3	5%	PPC3W(Value)CT-ND	9.60	146.45	—	PPC3W(Value)TB-ND	181.88	310.40	281.30/M	252.20/M	2322 329 03xxx
			PPC3W(Value)CT-ND	9.12	139.20	—	PPC3W(Value)TB-ND	172.50	294.40	266.80/M	239.20/M	2322 329 03xxx
			PPC3W(Value)CT-ND	11.78	179.80	—	PPC3W(Value)TB-ND	225.00	384.00	348.00/M	312.00/M	2322 329 03xxx
.10-.75 1.0-1.0K 1.1K-10.0K	5	5%	PPC5W(Value)CT-ND	12.54	191.40	—	PPC5W(Value)TB-ND	240.00	409.60	371.20/M	332.80/M	2322 329 05xxx
			PPC5W(Value)CT-ND	9.79	149.35	—	PPC5W(Value)TB-ND	185.63	316.80	287.10/M	257.40/M	2322 329 05xxx
			PPC5W(Value)CT-ND	12.92	197.20	—	PPC5W(Value)TB-ND	247.50	422.40	382.80/M	343.20/M	2322 329 05xxx
.10-.75 1.0-910 1.0K-15.0K	7	5%	PPC7W(Value)CT-ND	16.63	253.75	—	PPC7W(Value)TB-ND	320.63	547.20	495.90/M	444.60/M	2322 329 07xxx
			PPC7W(Value)CT-ND	13.40	204.45	—	PPC7W(Value)TB-ND	256.88	438.40	397.30/M	356.20/M	2322 329 07xxx
			PPC7W(Value)CT-ND	17.29	263.90	—	PPC7W(Value)TB-ND	333.75	569.60	516.20/M	462.80/M	2322 329 07xxx

* For complete part number, substitute Digi-Key value (from Resistance Value Chart) for (Value).

1% PPC(X)D Resistance Values

1W			3W			5W			
.10	25.0	390	.10	25.0	390	.10	25.0	390	6.2K
.13	27.0	470	.13	27.0	470	.13	27.0	470	6.8K
.15	30.0	500	.15	30.0	500	.15	30.0	500	7.5K
.20	33.0	560	.20	33.0	560	.20	33.0	560	8.2K
.25	36.0	620	.25	36.0	620	.25	36.0	620	9.1K
.30	39.0	680	.30	39.0	680	.30	39.0	680	10.0K
.33	47.0	750	.33	47.0	750	.33	47.0	750	
.47	50.0	820	.47	50.0	820	.47	50.0	820	
.50	56.0	910	.50	56.0	910	.50	56.0	910	
.75	68.0	1.0K	.75	68.0	1.0K	.75	68.0	1.0K	
1.0	75.0	1.1K	1.0	75.0	1.1K	1.0	75.0	1.1K	
1.5	82.0	1.2K	1.5	82.0	1.2K	1.5	82.0	1.2K	
2.0	100	1.5K	2.0	100	1.5K	2.0	100	1.5K	
3.0	120	1.8K	3.0	120	1.8K	3.0	120	1.8K	
3.9	124	2.0K	3.9	124	2.0K	3.9	124	2.0K	
4.7	150	2.2K	4.7	150	2.2K	4.7	150	2.2K	
5.0	180	2.5K	5.0	180	2.5K	5.0	180	2.5K	
7.5	200		7.5	200	2.7K	7.5	200	2.7K	
10.0	220		10.0	220	3.0K	10.0	220	3.0K	
12.0	250		12.0	250	3.6K	12.0	250	3.6K	
15.0	270		15.0	270	3.9K	15.0	270	3.9K	
18.0	300		18.0	300	4.7K	18.0	300	4.7K	
20.0	330		20.0	330	5.0K	20.0	330	5.0K	
22.0	360		22.0	360		22.0	360	5.6K	

5% PPC(X)W Resistance Values

1W			3W			5W				7W		
.10	30.0	560	.10	30.0	560	.10	30.0	560	8.2K	.10	30.0	560
.13	33.0	620	.13	33.0	620	.13	33.0	620	9.1K	.13	33.0	620
.15	36.0	680	.15	36.0	680	.15	36.0	680	10.0K	.15	36.0	680
.20	39.0	750	.20	39.0	750	.20	39.0	750		.20	39.0	750
.24	43.0	820	.24	43.0	820	.24	43.0	820		.24	43.0	820
.30	47.0	910	.30	47.0	910	.30	47.0	910		.30	47.0	910
.33	50.0	1.0K	.33	50.0	1.0K	.33	50.0	1.0K		.33	50.0	1.0K
.47	56.0	1.1K	.47	56.0	1.1K	.47	56.0	1.1K		.47	56.0	1.1K
.50	68.0	1.2K	.50	68.0	1.2K	.50	68.0	1.2K		.50	68.0	1.2K
.75	75.0	1.5K	.75	75.0	1.5K	.75	75.0	1.5K		.75	75.0	1.5K
1.0	82.0	1.8K	1.0	82.0	1.8K	1.0	82.0	1.8K		1.0	82.0	1.8K
1.5	100	2.0K	1.5	100	2.0K	1.5	100	2.0K		1.5	100	2.0K
2.0	120	2.2K	2.0	120	2.2K	2.0	120	2.2K		2.0	120	2.2K
3.0	150	2.4K	3.0	150	2.4K	3.0	150	2.4K		3.0	150	2.4K
3.9	180		3.9	180	2.7K	3.9	180	2.7K		3.9	180	2.7K
4.7	200		4.7	200	3.0K	4.7	200	3.0K		4.7	200	3.0K
5.0	220		5.0	220	3.3K	5.0	220	3.3K		5.0	220	3.3K
7.5	240		7.5	240	3.6K	7.5	240	3.6K		7.5	240	3.6K
10.0	270		10.0	270	3.9K	10.0	270	3.9K		10.0	270	3.9K
12.0	300		12.0	300	4.3K	12.0	300	4.3K		12.0	300	4.3K
15.0	330		15.0	330	4.7K	15.0	330	4.7K		15.0	330	4.7K
18.0	360		18.0	360	5.0K	18.0	360	5.0K		18.0	360	5.0K
20.0	390		20.0	390		20.0	390	5.6K		20.0	390	5.6K
22.0	430		22.0	430		22.0	430	6.2K		22.0	430	6.2K
24.0	470		24.0	470		24.0	470	6.8K		24.0	470	6.8K
27.0	500		27.0	500		27.0	500	7.5K		27.0	500	7.5K

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OHMITE OX / OY Resistor Series - Ceramic Composition

tures: • Replaces 1 and 2 watt carbon composition resistors • Meets high energy sity demands • High peak power • 10% Tolerance.

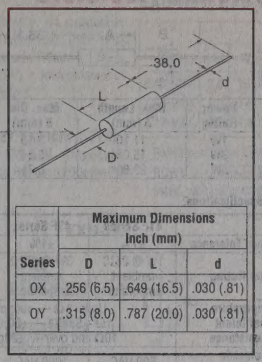
erial: • Terminals: Solder-coated axial leads • Coating: UL-94 V0 approved silicone.

ating: • Linear from 100% @ +70°C to 0% @ +200°C.

trical: • Resistance Tolerance: ±10% standard • Power Rating: Based on 70°C free air g • Temperature Coefficient: -1300 ±300ppm/°C • Dielectric Withstanding Voltage: VAC (750VAC for OY Series) • Joules Maximum (For a single impulse): 50 (80 for OY es)

esistance Range (Ohms)	Wattage	Joules Max.**	Digi-Key* Part No.	Price Each 1	100	1,000
3.3 - 100	1	50	OX(Code)-ND	.77	.62	.50
20 - 100K	1	50	OX(Code)-ND	.76	.61	.49
3.3 - 100	2	80	OY(Code)-ND	1.07	.86	.70
20 - 100K	2	80	OY(Code)-ND	1.00	.80	.65
0K - 1MEG	2	80	OY(Code)-ND	1.17	.93	.76

r complete part number, substitute the corresponding code from the Resistance Value Chart (Code). ** For a single impulse.



Series	Maximum Dimensions Inch (mm) D	L	d
OX	.256 (6.5)	.649 (16.5)	.030 (.81)
OY	.315 (8.0)	.787 (20.0)	.030 (.81)

RESISTANCE VALUE CHART

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
3.3 (33GK)	47 (470K)	680 (681K)	10K (103K)	150K (154K)
3.9 (39GK)	56 (560K)	820 (821K)	12K (123K)	180K (184K)
4.7 (47GK)	68 (680K)	1K (102K)	15K (153K)	220K (224K)
5.6 (56GK)	82 (820K)	1.2K (122K)	18K (183K)	270K (274K)
6.8 (68GK)	100 (101K)	1.5K (152K)	22K (223K)	330K (334K)
8.2 (82GK)	120 (121K)	1.8K (182K)	27K (273K)	390K (394K)
10 (100K)	150 (151K)	2.2K (222K)	33K (333K)	470K (474K)
12 (120K)	180 (181K)	2.7K (272K)	39K (393K)	560K (564K)
15 (150K)	220 (221K)	3.3K (332K)	47K (473K)	680K (684K)
18 (180K)	270 (271K)	3.9K (392K)	56K (563K)	820K (824K)
22 (220K)	330 (331K)	4.7K (472K)	68K (683K)	1MEG (105K)
27 (270K)	390 (391K)	5.6K (562K)	82K (823K)	
33 (330K)	470 (471K)	6.8K (682K)	100K (104K)	
39 (390K)	560 (561K)	8.2K (822K)	120K (124K)	

ittle Demon® Carbon Composition Molded Resistors

and OF Series - 5% Tolerance, OA Series - 10% Tolerance

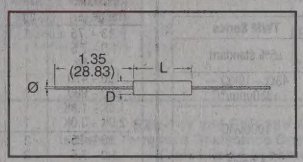
e Demons are small, reliable carbon composition stors with exceptional strength. They are made tough by olding process that combines the leads, insulation and stive element into an integrated unit. Along with their ll size, Little Demons perform with low noise, dissipate rapidly and offer high temperature stability.

r codes are readable even after prolonged use thanks very durable coating that resists abrasions and chipping nally associated with automatic insertion equipment.

Features: • Molded insulation for high dielectric strength • Rugged construction • High surge capabilities • Comparable to "Mil" RC07, RC20, and RC32 types

Material: • Terminals: Solder-coated copper lead • Body: Molded Phenolic

Electrical: • Tolerance: ±5% (OD/OF) ±10% (OA) • Derating: Linearly from 100% @ +70°C to 0% @ 130°C



Series	Maximum Dimensions Inch (mm) L	D	Ø
OD	0.276 (7.0)	0.098 (2.5)	.027 (.69)
OF	0.406 (10.3)	0.150 (3.8)	.029 (.75)
OA	0.591 (15.0)	0.236 (6.0)	.035 (.92)

RESISTANCE VALUE CHART 1/4W, 5%

e (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
(22GJ)	15 (150J)	120 (121J)	1.0K (102J)	10K (103J)	68K (683J)	560K (564J)
(24GJ)	18 (180J)	150 (151J)	1.2K (122J)	12K (123J)	75K (753J)	620K (624J)
(27GJ)	20 (200J)	180 (181J)	1.5K (152J)	15K (153J)	82K (823J)	680K (684J)
(30GJ)	22 (220J)	200 (201J)	1.8K (182J)	18K (183J)	100K (104J)	750K (754J)
(33GJ)	24 (240J)	220 (221J)	2.2K (222J)	20K (203J)	120K (124J)	820K (824J)
(36GJ)	27 (270J)	240 (241J)	2.4K (242J)	22K (223J)	150K (154J)	1.0M (105J)
(39GJ)	30 (300J)	270 (271J)	2.7K (272J)	24K (243J)	180K (184J)	1.5M (155J)
(43GJ)	33 (330J)	300 (301J)	3.0K (302J)	27K (273J)	200K (204J)	2.0M (205J)
(47GJ)	36 (360J)	330 (331J)	3.3K (332J)	30K (303J)	220K (224J)	2.4M (245J)
(51GJ)	39 (390J)	360 (361J)	3.6K (362J)	33K (333J)	270K (274J)	3.0M (305J)
(56GJ)	43 (430J)	390 (391J)	3.9K (392J)	36K (363J)	300K (304J)	3.6M (365J)
(62GJ)	47 (470J)	430 (431J)	4.3K (432J)	39K (393J)	330K (334J)	4.3M (435J)
(68GJ)	56 (560J)	470 (471J)	4.7K (472J)	43K (433J)	360K (364J)	4.7M (475J)
(75GJ)	62 (620J)	560 (561J)	5.6K (562J)	47K (473J)	390K (394J)	5.6M (565J)
(82GJ)	75 (750J)	620 (621J)	6.2K (622J)	51K (513J)	430K (434J)	
(10DJ)	82 (820J)	750 (751J)	7.5K (752J)	56K (563J)	470K (474J)	
(120J)	100 (101J)	820 (821J)	8.2K (822J)	62K (623J)	510K (514J)	

RESISTANCE VALUE CHART 1/2W, 5%

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
2.2 (22GJ)	18 (180J)	180 (181J)	1.8K (182J)	20K (203J)	150K (154J)	1.5M (155J)
2.4 (24GJ)	20 (200J)	200 (201J)	2.2K (222J)	22K (223J)	180K (184J)	2.0M (205J)
2.7 (27GJ)	22 (220J)	220 (221J)	2.4K (242J)	24K (243J)	200K (204J)	2.4M (245J)
3.0 (30GJ)	24 (240J)	240 (241J)	2.7K (272J)	27K (273J)	220K (224J)	3.0M (305J)
3.3 (33GJ)	27 (270J)	270 (271J)	3.0K (302J)	30K (303J)	270K (274J)	3.6M (365J)
3.6 (36GJ)	30 (300J)	300 (301J)	3.3K (332J)	33K (333J)	300K (304J)	4.3M (435J)
3.9 (39GJ)	33 (330J)	330 (331J)	3.6K (362J)	36K (363J)	330K (334J)	4.7M (475J)
4.3 (43GJ)	36 (360J)	360 (361J)	3.9K (392J)	39K (393J)	360K (364J)	5.6M (565J)
4.7 (47GJ)	39 (390J)	390 (391J)	4.3K (432J)	43K (433J)	390K (394J)	6.8M (685J)
5.1 (51GJ)	43 (430J)	430 (431J)	4.7K (472J)	47K (473J)	430K (434J)	7.5M (755J)
5.6 (56GJ)	47 (470J)	470 (471J)	5.6K (562J)	51K (513J)	470K (474J)	8.2M (825J)
6.2 (62GJ)	56 (560J)	560 (561J)	6.2K (622J)	56K (563J)	510K (514J)	10M (106J)
6.8 (68GJ)	62 (620J)	620 (621J)	7.5K (752J)	62K (623J)	560K (564J)	12M (126J)
7.5 (75GJ)	75 (750J)	750 (751J)	8.2K (822J)	68K (683J)	620K (624J)	15M (156J)
8.2 (82GJ)	82 (820J)	820 (821J)	10K (103J)	75K (753J)	680K (684J)	18M (186J)
10 (100J)	100 (101J)	1.0K (102J)	12K (123J)	82K (823J)	750K (754J)	20M (206J)
12 (120J)	120 (121J)	1.2K (122J)	15K (153J)	100K (104J)	820K (824J)	
15 (150J)	150 (151J)	1.5K (152J)	18K (183J)	120K (124J)	1.0M (105J)	

RESISTANCE VALUE CHART 1W, 10%

ue (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
(22GK)	27 (270K)	270 (271K)	2.7K (272K)	27K (273K)	270K (274K)
(27GK)	33 (330K)	330 (331K)	3.3K (332K)	33K (333K)	330K (334K)
(33GK)	39 (390K)	390 (391K)	3.9K (392K)	39K (393K)	390K (394K)
(47GK)	47 (470K)	470 (471K)	4.7K (472K)	47K (473K)	470K (474K)
(56GK)	56 (560K)	560 (561K)	5.6K (562K)	56K (563K)	560K (564K)
(68GK)	68 (680K)	680 (681K)	6.8K (682K)	68K (683K)	680K (684K)
(82GK)	82 (820K)	820 (821K)	8.2K (822K)	82K (823K)	820K (824K)
(100K)	100 (101K)	1.0K (102K)	10K (103K)	100K (104K)	1.0M (105K)
(120K)	120 (121K)	1.2K (122K)	12K (123K)	120K (124K)	
(150K)	150 (151K)	1.5K (152K)	15K (153K)	150K (154K)	
(180K)	180 (181K)	1.8K (182K)	18K (183K)	180K (184K)	
(220K)	220 (221K)	2.2K (222K)	22K (223K)	220K (224K)	

Resistance Range (Ohms)	Wattage	Tolerance	Digi-Key* Part No.	Price Each 1	100	500
2.2 - 5.6M	.25	5%	OD(Code)-ND	.42	.35	.32
2.2 - 20M	.50	5%	OF(Code)-ND	.54	.45	.41
2.2 - 1.0M	1	10%	OA(Code)-ND	1.92	1.75	1.58

* For complete part number, substitute the corresponding code from the Resistance Value Chart for (Code).

eramic Composition Resistors

"A" Series of non-inductive, ceramic composite stors are designed for a variety of applications re high energy handling capabilities are crucial. igned for use in motor drives, UPS and other er conversion systems, these resistors are ideal ny application which is subject to surges, high k power, impulse energy, or inrush current ng.

erial Specifications:

sistance Element: Bulk Ceramic

rminals: Solder coated radial leads (axial lead rsion available upon request)

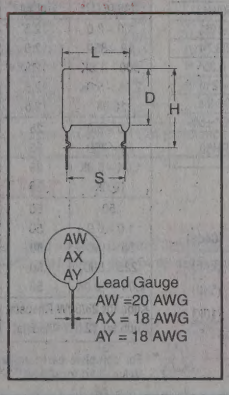
ating: UL94V0, solvent resistant epoxy

trical Specifications:

erance: ± 10% Standard

rating: Derates linearly from 100% @ 50°C to @ 150°C

mperature Rise: 100°C @ 100% rated power, °C ambient



Series	Dimensions - Inch (mm) L Max.	D Max.	H Max.	S Norm.
AW	.78 (20)	.51 (13)	.87 (22)	.69 (17.5)
AX	.59 (15)	.83 (21)	1.22 (31)	.49 (12.5)
AY	.98 (25)	.83 (21)	1.22 (31)	.89 (22.5)

RESISTANCE VALUE CHART

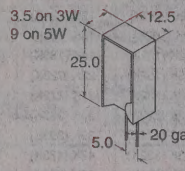
2.5W Value (Code)	3.5W Value (Code)	4.5W Value (Code)
4.7 (47G)	1.0 (10G)	2.2 (22G)
6.8 (68G)	2.2 (22G)	3.3 (33G)
10 (100)	3.3 (33G)	4.7 (47G)
15 (150)	4.7 (47G)	10 (100)
22 (220)	10 (100)	15 (150)
33 (330)	22 (220)	22 (220)
47 (470)	33 (330)	33 (330)
56 (560)	47 (470)	39 (390)
68 (680)	68 (680)	47 (470)
100 (101)	100 (101)	68 (680)
		100 (101)

Resistance Range (Ohms)	Wattage	Digi-Key* Part No.	Price Each 1	50	250
4.7 - 100	2.5W	AW(Code)K-ND	8.45	8.03	7.61
1.0 - 100	3.5W	AX(Code)K-ND	9.25	8.79	8.33
2.2 - 100	4.5W	AY(Code)K-ND	9.75	9.26	8.78

*For complete part number, substitute the corresponding code from Resistance Value Chart for (Code).

OHMITE

Ceramic Housed Radial Leaded Power Resistors



Dim. in mm

Resistor Series	Power Rating	Voltage	Element
TWW3	3W	250	Wire
TWW5	5W	350	Wire
TWM3	3W	250	Metal Oxide
TWM5	5W	350	Metal Oxide

The TWW/TWM Series radial lead power resistors offer significant board space savings over axial leaded products. Generated heat is also kept away from the circuit board. They are recommended for commercial applications requiring low cost.

Electrical Specifications:

	TWW Series	TWM Series
Resistance Tolerance	±5% standard	±5% standard
Temperature Coefficient	.1Ω ~ 20Ω — ±400ppm/°C 20Ω ~ 47Ω — ±350ppm/°C	43Ω ~ 10KΩ — ±350ppm/°C
Dielectric Withstanding Voltage	1000VAC	1000VAC
Short Time Overload	10 times rated wattage for 5 seconds	5 times rated wattage for 5 seconds

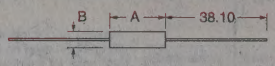
Resistance Range (Ω)	Wattage	Digi-Key* Part No.	Price Each 1	100	300
.10 ~ 39	3	TWW3J(Code)-ND	.42	.38	.32
.10 ~ 47	5	TWW5J(Code)-ND	.45	.41	.34
43 ~ 10K	3	TWM3J(Code)-ND	.42	.38	.32
56 ~ 10K	5	TWM5J(Code)-ND	.45	.41	.34

* For complete part number, substitute the corresponding code from the Resistance Value Chart for (Code).

RESISTANCE VALUE CHART

Value	(Code)	Value	(Code)	Value	(Code)
.10	(R10)	7.5	(7R5)	560	(560)
.15	(R15)	8.2	(8R2)	680	(680)
.20	(R20)	10	(10R)	750	(750)
.27	(R27)	15	(15R)	820	(820)
.30	(R30)	20	(20R)	1.0K	(1K0)
.33	(R33)	27	(27R)	1.5K	(1K5)
.39	(R39)	30	(30R)	2.0K	(2K0)
.43	(R43)	33	(33R)	2.7K	(2K7)
.47	(R47)	39	(39R)	3.0K	(3K0)
.56	(R56)	43	(43R)	3.3K	(3K3)
.68	(R68)	47	(47R)	3.9K	(3K9)
.75	(R75)	56	(56R)	4.3K	(4K3)
.82	(R82)	68	(68R)	4.7K	(4K7)
1.0	(1R0)	75	(75R)	5.6K	(5K6)
1.5	(1R5)	82	(82R)	6.8K	(6K8)
2.0	(2R0)	100	(100)	7.5K	(7K5)
2.7	(2R7)	150	(150)	8.2K	(8K2)
3.0	(3R0)	200	(200)	10K	(10K)
3.3	(3R3)	270	(270)		
3.9	(3R9)	300	(300)		
4.3	(4R3)	330	(330)		
4.7	(4R7)	390	(390)		
5.6	(5R6)	430	(430)		
6.8	(6R8)	470	(470)		

Silicone - Ceramic Conformal Wirewound Resistors



Resistor Series	Power Rating	Max. Length A (mm)	Max. Dia. B (mm)	Lead Dia. (mm)
41F	1W	11.10	3.18	.51
43F	3W	15.06	5.54	.81
45F	5W	23.80	8.71	1.02

Electrical Specifications:

	41F Series	43F Series	45F Series
Resistance Tolerance	±1%	±1%	±1%
Power Rating	1W @ 25°C ambient temperature	3W @ 25°C ambient temperature	5W @ 25°C ambient temperature
Temperature Coefficient of Resistance	Under 1Ω — ±90ppm/°C 1Ω ~ 9.99Ω — ±50ppm/°C 10Ω and over — ±20ppm/°C		
Dielectric Withstanding Voltage	500 VAC	1000 VAC	1000 VAC
Short Time Overload	5 times rated wattage for 5 seconds	5 times rated wattage for 5 seconds	10 times rated wattage for 5 seconds

Resistance Range (Ω)	Wattage	Digi-Key* Part No.	Price Each 1	25	100	250
.13 ~ .75	1	41F(Code)-ND	2.30	1.96	1.73	1.50
1.0 ~ 7.5	1	41F(Code)-ND	2.22	1.89	1.67	1.44
10 ~ 82	1	41F(Code)-ND	1.92	1.63	1.44	1.25
100 ~ 470	1	41F(Code)-ND	2.15	1.83	1.61	1.40
500 ~ 900	1	41F(Code)-ND	2.38	2.02	1.79	1.55
1.0K ~ 1.8K	1	41F(Code)-ND	2.71	2.30	2.03	1.76
2.0K ~ 3.0K	1	41F(Code)-ND	3.26	2.77	2.45	2.12
.10 ~ .75	3	43F(Code)-ND	1.76	1.50	1.32	1.14
1.0 ~ 7.5	3	43F(Code)-ND	1.40	1.19	1.05	.91
10 ~ 82	3	43F(Code)-ND	1.14	.97	.86	.74
100 ~ 900	3	43F(Code)-ND	1.04	.88	.78	.68
1.0K ~ 1.8K	3	43F(Code)-ND	1.19	1.01	.89	.77
2.0K ~ 2.7K	3	43F(Code)-ND	1.58	1.34	1.19	1.03
3.0K ~ 4.7K	3	43F(Code)-ND	1.91	1.62	1.43	1.24
5.0K ~ 6.8K	3	43F(Code)-ND	2.30	1.96	1.73	1.50
7.5K ~ 10.0K	3	43F(Code)-ND	2.38	2.02	1.79	1.55
.10 ~ .75	5	45F(Code)-ND	1.97	1.67	1.48	1.28
1.0 ~ 7.5	5	45F(Code)-ND	1.37	1.16	1.03	.89
10 ~ 82	5	45F(Code)-ND	1.19	1.01	.89	.77
100 ~ 900	5	45F(Code)-ND	1.14	.97	.86	.74
1.0K ~ 2.7K	5	45F(Code)-ND	1.32	1.12	.99	.86
3.0K ~ 6.8K	5	45F(Code)-ND	1.54	1.31	1.16	1.00
7.5K ~ 8.2K	5	45F(Code)-ND	2.02	1.72	1.52	1.31
10.0K ~ 15.0K	5	45F(Code)-ND	2.14	1.82	1.61	1.39
20.0K ~ 25.0K	5	45F(Code)-ND	2.65	2.25	1.99	1.72

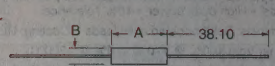
* For complete part number, substitute the corresponding code from the Resistance Value Chart for (Code).

RESISTANCE VALUE CHART (for Silicone and Vitreous Wirewound Resistors)

Value	(Code)	Value	(Code)	Value	(Code)	Value	(Code)	Value	(Code)	Value	(Code)
.10	(R10)	15	(15R)	120	(120)	600	(600)	2.7K	(2K7)	10.0K	(10K)
.13	(R13)	18	(18R)	125	(125)	680	(680)	3.0K	(3K0)	11.0K•	(11K)•
.15	(R15)	20	(20R)	150	(150)	700	(700)	3.3K•	(3K3)•	12.0K•	(12K)•
.20	(R20)	22	(22R)	180	(180)	750	(750)	3.5K	(3K5)	12.5K	(12K5)
.25	(R25)	25	(25R)	200	(200)	800	(800)	3.9K	(3K9)	13.5K•	(13K5)•
.30	(R30)	27	(27R)	220	(220)	820	(820)	4.0K	(4K0)	15.0K	(15K)
.33	(R33)	30	(30R)	225	(225)	900	(900)	4.5K•	(4K5)•	16.0K•	(16K)•
.50	(R50)	33	(33R)	250	(250)	1.0K	(1K0)	4.7K	(4K7)	17.5K•	(17K5)•
.75	(R75)	35	(35R)	270	(270)	1.1K	(1K1)	5.0K	(5K0)	18.0K•	(18K)•
1.0	(1R0)	39	(39R)	300	(300)	1.2K	(1K2)	5.6K	(5K6)	20.0K	(20K)
1.5	(1R5)	40	(40R)	330	(330)	1.25K•	(1K25)•	6.0K	(6K0)	22.0K•	(22K)•
2.0	(2R0)	47	(47R)	350	(350)	1.5K	(1K5)	6.8K	(6K8)	22.5K•	(22K5)•
3.0	(3R0)	50	(50R)	390	(390)	1.75K•	(1K75)•	7.0K•	(7K0)•	25.0K	(25K)
4.0	(4R0)	56	(56R)	400	(400)	1.8K	(1K8)	7.5K	(7K5)		
5.0	(5R0)	68	(68R)	450•	(450)•	2.0K	(2K0)	8.0K	(8K0)		
7.5	(7R5)	75	(75R)	470	(470)	2.2K	(2K2)	8.2K	(8K2)		
10	(10R)	82	(82R)	500	(500)	2.25K•	(2K25)•	8.5K•	(8K5)•		
12	(12R)	100	(100)	560	(560)	2.5K	(2K5)	9.0K•	(9K0)•		

• Value not available in Silicone-Ceramic Conformal

Vitreous Enamel Conformal Wirewound Resistors



Resistor Series	Power Rating	Max. Length A (mm)	Max. Dia. B (mm)	Lead Dia. (mm)
23J	3W	12.70	5.59	.81
25J	5W	25.40	7.01	.81
20J	10W	46.84	10.01	.81

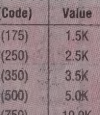
Electrical Specifications:

	23J Series	25J Series	20J Series
Resistance Tolerance	±5%	±5%	±5%
Power Rating	3W	5W	10W
Dielectric Withstanding Voltage	1000V	1000V	1000V
Short Time Overload	5 times rated wattage for 5 seconds	10 times rated wattage for 5 seconds	10 times rated wattage for 5 seconds

Resistance Range (Ω)	Wattage	Digi-Key* Part No.	Price Each 1	25	100	250
.15 ~ .75	3	23J(Code)-ND	1.86	1.58	1.39	1.2
1.0 ~ 7.5	3	23J(Code)-ND	1.22	1.04	.92	
10 ~ 82	3	23J(Code)-ND	1.09	.93	.82	
100 ~ 450	3	23J(Code)-ND	.99	.84	.74	
470 ~ 900	3	23J(Code)-ND	1.08	.92	.81	
1.0K ~ 4.7K	3	23J(Code)-ND	1.47	1.25	1.10	
5.0K ~ 7.0K	3	23J(Code)-ND	1.89	1.60	1.42	1.2
7.5K ~ 10.0K	3	23J(Code)-ND	2.19	1.86	1.64	1.4
.15 ~ .75	5	25J(Code)-ND	1.53	1.30	1.15	
1.0 ~ 7.5	5	25J(Code)-ND	1.47	1.25	1.10	
10 ~ 82	5	25J(Code)-ND	1.40	1.19	1.05	
100 ~ 470	5	25J(Code)-ND	1.15	.98	.86	
500 ~ 900	5	25J(Code)-ND	1.35	1.14	1.01	
1.0K ~ 4.7K	5	25J(Code)-ND	1.61	1.37	1.21	1.0
5.0K ~ 9.0K	5	25J(Code)-ND	2.03	1.73	1.52	1.3
10.0K ~ 15.0K	5	25J(Code)-ND	2.24	1.91	1.68	1.4
16.0K ~ 25.0K	5	25J(Code)-ND	2.65	2.25	1.99	1.7
.10 ~ .75	10	20J(Code)-ND	2.00	1.70	1.50	1.2
1.0 ~ 7.5	10	20J(Code)-ND	1.94	1.65	1.45	1.2
10 ~ 82	10	20J(Code)-ND	1.82	1.54	1.36	1.1
100 ~ 900	10	20J(Code)-ND	1.65	1.40	1.24	1.0
1.0K ~ 2.7K	10	20J(Code)-ND	1.98	1.68	1.48	1.2
3.0K ~ 4.7K	10	20J(Code)-ND	2.25	1.92	1.69	1.4
5.0K ~ 8.5K	10	20J(Code)-ND	2.58	2.19	1.94	1.6
10.0K ~ 22.5K	10	20J(Code)-ND	2.94	2.50	2.20	1.8
25.0K	10	20J(Code)-ND	3.32	2.82	2.49	2.0

Wirewound Rheostats

12.5, 25, and 50 Watt



† 12.5 watt uses knob **5151-ND**

†† 25 and 50 watt uses knob **5150-ND**

	RES	RHS	RJS
Wattage	12.5 W†	25W††	50W††
Res. Tolerance	±10%	±10%	±10%
Core Diameter (mm)	22.23	39.69	58.74
Shaft Diameter (mm)	3.18	6.35	6.35
Running Torque	1 ~ 6 in. oz.	.25 ~ .5 in. lb.	.25 ~ 2 in. lb.
Weight	.6 oz.	.19 lbs.	.32 lbs.
Rotation	300° ±5%	300° ±5%	300° ±5%
Memcor-Truohm Equivalent	RH12	RH25	RH50

RESISTANCE VALUE CHARTS

12.5 / 25 Watt

Value	(Code)	Value	(Code)	Value	(Code)	Value	(Code)
1.0	(1R0)	15	(15R)	175	(175)	1.5K	(1K5)
2.0	(2R0)	25	(25R)	250	(250)	2.5K	(2K5)
3.0	(3R0)	50	(50R)	350	(350)	3.5K	(3K5)
6.0	(6R0)	75	(75R)	500	(500)	5.0K	(5K0)
8.0	(8R0)	100	(100)	750	(750)	10.0K	(10K)
10	(10R)	125	(125)	1.0K	(1K0)		

50 Watt

Value	(Code)	Value	(Code)	Value	(Code)
.50	(R50)	125	(125)	2.5K	(2K5)
1.0	(1R0)	150	(150)	5.0K	(5K0)
6.0	(6R0)	225	(225)	10.0K	(10K)
35	(35R)	500	(500)		
50	(50R)	1.0K	(1K0)		

Resistance Range (Ω)	Wattage	Digi-Key* Part No.	Price Each 1	10	100	25
1.0 ~ 8.0	12.5	RES(Code)-ND†	22.06	19.86	15.44	14.2
10 ~ 350	12.5	RES(Code)-ND†	20.91	18.82	14.64	13.5
500 ~ 1.5K	12.5	RES(Code)-ND†	21.47	19.32	15.03	13.9
2.5K ~ 5.0K	12.5	RES(Code)-ND†	22.85	20.56	15.99	14.8
10.0K	12.5	RES(Code)-ND†	24.68	22.22	17.29	16.0
1.0 ~ 8.0	25	RHS(Code)-ND††	23.49	21.14	16.44	—
10 ~ 750	25	RHS(Code)-ND††	23.49	21.14	16.44	—
1.0K ~ 5.0K	25	RHS(Code)-ND††	24.30	21.87	17.01	—
10.0K	25	RHS(Code)-ND††	26.36	23.72	18.45	—
.50	50	RJS(Code)-ND††	35.59	32.03	24.91	21.3
1.0 ~ 6.0	50	RJS(Code)-ND††	31.78	28.60	22.25	19.0
35 ~ 150	50	RJS(Code)-ND††	27.81	25.02	19.47	16.6
225 ~ 500	50	RJS(Code)-ND††	26.72	24.05	18.71	16.0
1.0K ~ 10.0K	50	RJS(Code)-ND††	29.21	26.29	20.45	17.5
Knob for 25/50W Rheostat		5150-ND	6.55	4.59	—	—
Knob for 12.5W Rheostat		5151-ND	4.75	3.33	—	—

* For complete part number, substitute the corresponding code from the Resista Value Chart for (Code).

More Product Available Online: www.digikey.com
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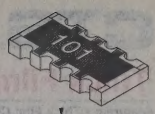
Panasonic® Surface Mount Chip Resistor Arrays



URES:

Density: • 2 resistors in 0.8mm x 0.6mm size (EXB-14V) • 2 resistors in 1.6mm x 1.6mm size (EXB-V4V) • 4 resistors in m x 1.6mm size (EXB-V8V) • 2 resistors in 1.0mm x 1.0mm size (EXB-24V) • 4 resistors in 1.4mm x 0.6mm size (EXB-18V) sistors in 2.0mm x 1.0mm size (EXB-28V) • 4 resistors in 2.0mm x 1.0mm size (EXB-N8V) • 2 resistors in 1.6mm x 1.6mm EXB-34V) • 4 resistors in 3.2mm x 1.6mm size (EXB-38V) • 8 resistors in 3.8mm x 1.6mm size (EXB-2HV) • Improvement of ment efficiency: Placement efficiency of Chip Resistor Array is two or four times that of discrete chip resistors.

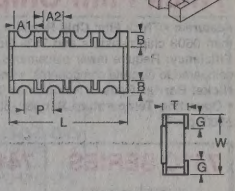
CIFICATIONS:

istance Tolerance: J: ±5% • Power Rating at 70°C: 1/16W per element; 1/32W for EXB-14V, EXB-28V, EXB-N8V and EXB- • Maximum Rated Continuous Working Voltage ‡: 50V; 25V for EXB-2HV; 12.5V for EXB-14V and EXB-18V • Maximum oad Voltage: 100V; 50V for EXB-2HV; 25V for EXB-14V and EXB-18V • Temperature Characteristic Range: ±200ppm/°C erating Temperature Range: -55°C ~ 125°C

EXB-N8V, EXB-V4V and EXB-V8V

Type	Dimensions (mm) L	W	T	A1	A2	B	P	G	Weight (g/M pcs.)
EXB-N8V	2.0	1.0	0.45	0.3	0.3	0.2	0.5	0.30	3.0
EXB-V4V	1.6	1.6	0.60	0.6	—	0.3	0.8	0.45	5.0
EXB-V8V	3.2	1.6	0.60	0.6	0.6	0.3	0.8	0.45	10

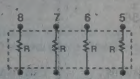
‡ Rated continuous working voltage (RCWV) shall be determined from RCWV = √(Power Rating x Resistance Value), or maximum RCWV listed, whichever is less.



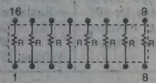
Isolated Terminals

g. 1 — Resistors

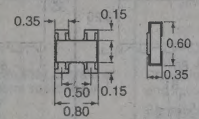
g. 2 — Resistors



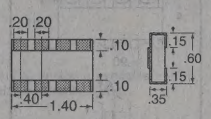
g. 3 — Resistors



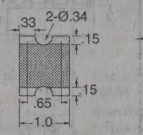
EXB-14V



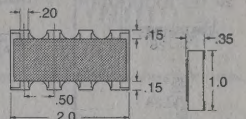
EXB-18V



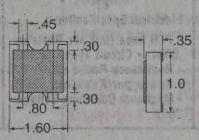
EXB-24V



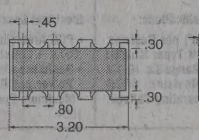
EXB-28V



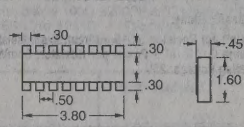
EXB-34V



EXB-38V



EXB-2HV



Dim. in mm

EXB-V4V, EXB-V8V, EXB-24V, EXB-34V and EXB-38V Isolated Terminals Resistance Codes (E12 Values) (Value listed in ohms)

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
.0 (000)	3R9 (3R9)	27 (270)	470 (471)	8.2K (822)	150K (154)
.0 (1R0)	4R3 (4R3)	33 (330)	560 (561)	10K (103)	180K (184)
.1 (1R1)	4R7 (4R7)	39 (390)	680 (681)	12K (123)	220K (224)
.2 (1R2)	5R1 (5R1)	47 (470)	820 (821)	15K (153)	270K (274)
.3 (1R3)	5R6 (5R6)	56 (560)	1.0K (102)	18K (183)	330K (334)
.5 (1R5)	6R2 (6R2)	68 (680)	1.2K (122)	22K (223)	390K (394)
.6 (1R6)	6R8 (6R8)	82 (820)	1.5K (152)	27K (273)	470K (474)
.8 (1R8)	7R5 (7R5)	100 (101)	1.8K (182)	33K (333)	560K (564)
.0 (2R0)	8R2 (8R2)	120 (121)	2.2K (222)	39K (393)	680K (684)
.2 (2R2)	9R1 (9R1)	150 (151)	2.7K (272)	47K (473)	820K (824)
.4 (2R4)	10 (100)	180 (181)	3.3K (332)	56K (563)	1M (105)
.7 (2R7)	12 (120)	220 (221)	3.9K (392)	68K (683)	
.0 (3R0)	15 (150)	270 (271)	4.7K (472)	82K (823)	
.3 (3R3)	18 (180)	330 (331)	5.6K (562)	100K (104)	
.6 (3R6)	22 (220)	390 (391)	6.8K (682)	120K (124)	

EXB-2HV Series Isolated Terminals Resistance Codes (E12 Values) (Value listed in ohms)

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
.0 (000)	10 (100)	120 (121)	1.5K (152)	18K (183)	220K (224)
.0 (1R0)	12 (120)	150 (151)	1.8K (182)	22K (223)	270K (274)
.2 (1R2)	15 (150)	180 (181)	2.2K (222)	27K (273)	330K (334)
.5 (1R5)	18 (180)	220 (221)	2.7K (272)	33K (333)	390K (394)
.8 (1R8)	22 (220)	270 (271)	3.3K (332)	39K (393)	470K (474)
.2 (2R2)	27 (270)	330 (331)	3.9K (392)	47K (473)	560K (564)
.7 (2R7)	33 (330)	390 (391)	4.7K (472)	56K (563)	680K (684)
.3 (3R3)	39 (390)	470 (471)	5.6K (562)	68K (683)	820K (824)
.9 (3R9)	47 (470)	560 (561)	6.8K (682)	82K (823)	1M (105)
.7 (4R7)	56 (560)	680 (681)	8.2K (822)	100K (104)	
.6 (5R6)	68 (680)	820 (821)	10K (103)	120K (124)	
.8 (6R8)	82 (820)	1.0K (102)	12K (123)	150K (154)	
.2 (8R2)	100 (101)	1.2K (122)	15K (153)	180K (184)	

EXB-14V and EXB-18V Series Isolated Terminals Resistance Codes (E12 Values) (Value listed in ohms)

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
0.0 (000)	47 (470)	270 (271)	1.5K (152)	8.2K (822)	47K (473)	270K (274)
10 (100)	56 (560)	330 (331)	1.8K (182)	10K (103)	56K (563)	330K (334)
12 (120)	68 (680)	390 (391)	2.2K (222)	12K (123)	68K (683)	390K (394)
15 (150)	82 (820)	470 (471)	2.7K (272)	15K (153)	82K (823)	470K (474)
18 (180)	100 (101)	560 (561)	3.3K (332)	18K (183)	100K (104)	560K (564)
22 (220)	120 (121)	680 (681)	3.9K (392)	22K (223)	120K (124)	680K (684)
27 (270)	150 (151)	820 (821)	4.7K (472)	27K (273)	150K (154)	820K (824)
33 (330)	180 (181)	1.0K (102)	5.6K (562)	33K (333)	180K (184)	1M (105)
39 (390)	220 (221)	1.2K (122)	6.8K (682)	39K (393)	220K (224)	

EXB-28V and EXB-N8V Series Isolated Terminals Resistance Codes (E24 Values) (Value listed in ohms)

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
0.0 (000)	6.8 (6R8)	51 (510)	390 (391)	3.0K (302)	22K (223)	160K (164)
1.0 (1R0)	7.5 (7R5)	56 (560)	430 (431)	3.3K (332)	24K (243)	180K (184)
1.1 (1R1)	8.2 (8R2)	62 (620)	470 (471)	3.6K (362)	27K (273)	200K (204)
1.2 (1R2)	9.1 (9R1)	68 (680)	510 (511)	3.9K (392)	30K (303)	220K (224)
1.3 (1R3)	10 (100)	75 (750)	560 (561)	4.3K (432)	33K (333)	240K (244)
1.5 (1R5)	11 (110)	82 (820)	620 (621)	4.7K (472)	36K (363)	270K (274)
1.6 (1R6)	12 (120)	91 (910)	680 (681)	5.1K (512)	39K (393)	300K (304)
1.8 (1R8)	13 (130)	100 (101)	750 (751)	5.6K (562)	43K (433)	330K (334)
2.0 (2R0)	15 (150)	110 (111)	820 (821)	6.2K (622)	47K (473)	360K (364)
2.2 (2R2)	16 (160)	120 (121)	910 (911)	6.8K (682)	51K (513)	390K (394)
2.4 (2R4)	18 (180)	130 (131)	1.0K (102)	7.5K (752)	56K (563)	430K (434)
2.7 (2R7)	20 (200)	150 (151)	1.1K (112)	8.2K (822)	62K (623)	470K (474)
3.0 (3R0)	22 (220)	160 (161)	1.2K (122)	9.1K (912)	68K (683)	510K (514)
3.3 (3R3)	24 (240)	180 (181)	1.3K (132)	10K (103)	75K (753)	560K (564)
3.6 (3R6)	27 (270)	200 (201)	1.5K (152)	11K (113)	82K (823)	620K (624)
3.9 (3R9)	30 (300)	220 (221)	1.6K (162)	12K (123)	91K (913)	680K (684)
4.3 (4R3)	33 (330)	240 (241)	1.8K (182)	13K (133)	100K (104)	750K (754)
4.7 (4R7)	36 (360)	270 (271)	2.0K (202)	15K (153)	110K (114)	820K (824)
5.1 (5R1)	39 (390)	300 (301)	2.2K (222)	16K (163)	120K (124)	910K (914)
5.6 (5R6)	43 (430)	330 (331)	2.4K (242)	18K (183)	130K (134)	1M (105)
6.2 (6R2)	47 (470)	360 (361)	2.7K (272)	20K (203)	150K (154)	

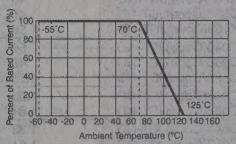
lg.	No. of Resistors	Resistor Value Range§	Digi-Key Part No.	Cut Tape Pricing 10	100	500	1,000	Digi-Key* Part No.	Tape & Reel Pricing 5,000	10,000	20,000	Panasonic* Part No.
2	4	E24	Y10(Code)CT-ND	.44	3.85	13.75	23.65	Y10(Code)TR-ND	—	10.00/M	—	EXB-N8V□□□JX
1	2	E12	Y2(Code)CT-ND	.48	4.20	15.00	25.80	Y2(Code)TR-ND	17,00/M	16.00/M	—	EXB-V4V□□□JV
2	4	E12	Y4(Code)CT-ND	.80	7.00	25.00	43.00	Y4(Code)TR-ND	28.00/M	26.00/M	—	EXB-V8V□□□JV
1	2	E12	Y3(Code)CT-ND	1.46	12.81	45.75	78.69	Y3(Code)TR-ND	—	51.00/M	48.00/M	EXB-14V□□□JX
2	4	E12	Y6(Code)CT-ND	2.38	20.83	74.38	127.93	Y6(Code)TR-ND	—	83.00/M	—	EXB-18V□□□JX
1	2	E12	Y5(Code)CT-ND	1.00	8.75	31.25	53.75	Y5(Code)TR-ND	—	34.00/M	33.00/M	EXB-24V□□□JX
2	4	E24	Y7(Code)CT-ND	1.00	8.75	31.25	53.75	Y7(Code)TR-ND	—	34.00/M	33.00/M	EXB-28V□□□JX
1	2	E12	Y8(Code)CT-ND	.42	3.68	13.13	22.58	Y8(Code)TR-ND	15.00/M	14.00/M	—	EXB-34V□□□JV
2	4	E12	Y9(Code)CT-ND	.31	2.73	9.75	16.77	Y9(Code)TR-ND	11.00/M	10.00/M	—	EXB-38V□□□JV
3	8	E12	Y1(Code)CT-ND	1.80	15.75	56.25	96.75	Y1(Code)TR-ND	61.00/M	59.00/M	—	EXB-2HV□□□JV

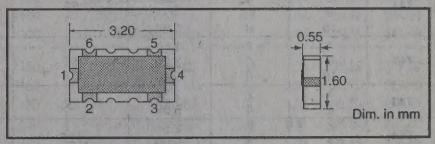
complete part number, substitute the corresponding resistance Code. § E24 Resistance Values are available for other series. Please call Digi-Key for details.

F Jumper Chip Resistor

IFICATIONS:

ation (2.5GHz): -40dB maximum • Return Loss (2.5GHz): -20dB maximum • Rated Current: 1A (derating for jumpers operated in ambient temperatures above 70°C, rated current shall be derated in accordance derating curve chart • Number of Terminals: 6 perature Range: -55°C ~ 125°C





Resistance (-4 Terminal)	Insertion Loss (2.5GHz)	Digi-Key Part No.	Cut Tape Pricing 10	100	500	1,000	Digi-Key Part No.	Tape & Reel Pricing 5,000	10,000	15,000	25,000	50,000	Panasonic Part No.
50mΩ max.	-0.5dB max.	P0.0NCT-ND	2.41	20.06	80.25	133.75	P0.0NTR-ND	89.00/M	74.00/M	69.00/M	67.00/M	63.00/M	EXB-D6JP000A

CTS

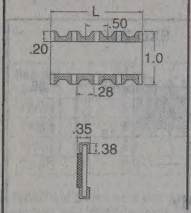
Thick Film Chip Resistor Arrays

Features: • **Thick Film Chip Resistor Arrays High Density Packaging:** 30% less space per resistor than 0603 chip resistors and 75% less space per resistor than 0805 chip resistors • **Placement Efficiency:** Require fewer placements than discrete components, larger overall size eases handling compared to discrete components • **Low Profile:** Suitable for PCMCIA applications • **Solder Coated Nickel Barrier Pads** • **Resistance Tolerance Standard:** ±5% or .5 ohms, whichever is greater • **Operating Temperature Range:** -55°C to +125°C • **Temperature Coefficient (TCR) Standard:** ±200ppm/°C

Environmental Performance Specifications

Test	Max. Delta R 741	Max. Delta R 742-746	Test Description
Thermal Cycle	1.0%	1.0%	5 Cycles -55°C to 125°C
Short Time Overload	2.5%	1.0%	2 1/2 x Rated voltage. 5 sec. (or max voltage)
Moisture Resistance	5.0%	2.0%	240 hours .1 rated load, -10°C +65°C, 90%RH
High Temperature Exposure	1.0%	1.0%	1000 hours. no load @ 125°C
Load Life	5.0%	2.0%	1000 hours @ 70°C, rated load
Resistance to Solder Heat	2.0%	1.0%	10 seconds @ 260°C solder
Resistance to Leach	—	—	120 seconds @ 260°C solder
Resistance to Solvents	—	—	Isopropyl alcohol, Freon TMC
Solderability	—	—	RMA flux, 230°C, 5 seconds dip, 95% coverage

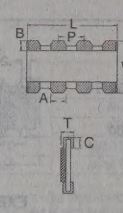
741C SERIES



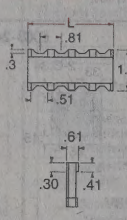
Electrical Specifications:

• **PCB Area (in²) per Resistor:** .0015 • **Circuit Type:** Isolated • **Resistance Range Ω:** 10-1M • **Power per Resistor:** 63mW • **Maximum Operating Voltage:** 25V

741X SERIES



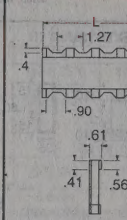
742 SERIES



Electrical Specifications:

• **PCB Area (in²) per Resistor:** .0037 • **Circuit Type:** Isolated • **Resistance Range Ω:** 10-1M • **Power per Resistor:** .063W • **Maximum Operating Voltage:** 50V

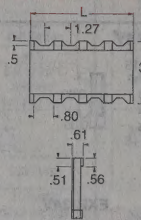
743 SERIES



Electrical Specifications:

• **PCB Area (in²) per Resistor:** .0071 • **Circuit Type:** Isolated • **Resistance Range Ω:** 10-1M • **Power per Resistor:** .100W • **Maximum Operating Voltage:** 100V

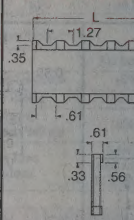
744 SERIES



Electrical Specifications:

• **PCB Area (in²) per Resistor:** .0094 • **Circuit Type:** Isolated • **Resistance Range Ω:** 10-1M • **Power per Resistor:** .125W • **Maximum Operating Voltage:** 200V

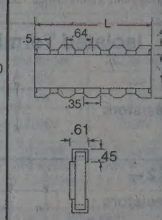
745 SERIES



Electrical Specifications:

• **PCB Area (in²) per Resistor:** .0058 • **Circuit Type:** Bussed • **Resistance Range Ω:** 100-100K • **Power per Resistor:** .063W • **Maximum Operating Voltage:** 50V

746 SERIES

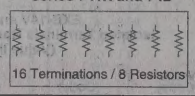


Electrical Specifications:

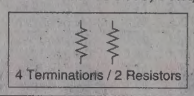
• **PCB Area (in²) per Resi** .0013 • **Circuit Type:** Bu • **Resistance Range Ω:** 100K • **Power per Resis** .031W • **Maximum Opera Voltage:** 25V

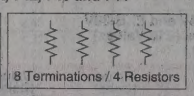
Series	Dimensions - mm W	P	T	A	B	C
741X043	1.0	.65	.35	.33	.20	.38
741X083	1.0	.50	.35	.20	.20	.38
741C083	1.0	.50	.35	.28	.20	.38
741X163	1.6	.50	.45	.30	.30	.90

Series 741X and 742

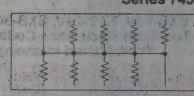

16 Terminations / 8 Resistors

Series 741C, 741X, 742, 743 and 744


4 Terminations / 2 Resistors


8 Terminations / 4 Resistors

Series 745 and 746


10 Terminations / 8 Resistors

F

Resistance Values 741C083 Series Chip Arrays

All values listed in ohms

Value (Code)	Value (Code)	Value (Code)	Value (Code)
10 (100)	120 (121)	2.7K (272)	51K (513)
12 (120)	150 (151)	3.3K (332)	56K (563)
15 (150)	220 (221)	3.9K (392)	68K (683)
18 (180)	270 (271)	4.7K (472)	100K (104)
22 (220)	330 (331)	5.1K (512)	180K (184)
27 (270)	390 (391)	5.6K (562)	220K (224)
33 (330)	470 (471)	8.2K (822)	270K (274)
39 (390)	510 (511)	10K (103)	330K (334)
47 (470)	560 (561)	15K (153)	470K (474)
51 (510)	680 (681)	18K (183)	510K (514)
56 (560)	1K (102)	22K (223)	1M (105)
68 (680)	1.5K (152)	27K (273)	
82 (820)	1.8K (182)	33K (333)	
100 (101)	2.2K (222)	47K (473)	

Resistance Values 741X043, 741X083, 741X163 Series Chip Arrays

All values listed in ohms

Value (Code)	Value (Code)	Value (Code)
10 (100)	56 (560)	4.7K (472)
22 (220)	100 (101)	10K (103)
33 (330)	1K (102)	47K (473)

Resistance Values 742C043, 742C163, 743C043, 744C043 Series Chip Arrays

All values listed in ohms

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code
22 (220)	220 (221)	2.2K (222)	22K (223)	220K (224)
33 (330)	330 (331)	3.3K (332)	33K (333)	330K (334)
47 (470)	470 (471)	4.7K (472)	47K (473)	470K (474)
100 (101)	1K (102)	10K (103)	100K (104)	1MEG (105)

Resistance Values 742C083, 743C083, 744C083 Series Chip Arrays

All values listed in ohms

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Cod
10 (100)	68 (680)	470 (471)	3.3K (332)	22K (223)	150K (154
12 (120)	82 (820)	510 (511)	3.9K (392)	27K (273)	180K (184
15 (150)	100 (101)	560 (561)	4.7K (472)	33K (333)	220K (224
18 (180)	110 (111)	680 (681)	5.1K (512)	39K (393)	270K (274
22 (220)	120 (121)	820 (821)	5.6K (562)	47K (473)	330K (334
27 (270)	150 (151)	1K (102)	6.8K (682)	51K (513)	390K (394
33 (330)	180 (181)	1.2K (122)	8.2K (822)	56K (563)	470K (474
39 (390)	220 (221)	1.5K (152)	10K (103)	68K (683)	510K (514
47 (470)	270 (271)	1.8K (182)	12K (123)	82K (823)	560K (564
51 (510)	330 (331)	2.2K (222)	15K (153)	100K (104)	680K (684
56 (560)	390 (391)	2.7K (272)	18K (183)	120K (124)	820K (824
					1MEG (105

Resistance Values 745 Series Chip Arrays

All values listed in ohms

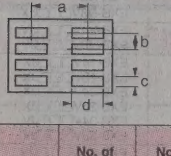
Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Cod
100 (101)	680 (681)	2.2K (222)	10K (103)	47K (473)	330K (334
150 (151)	470 (471)	3.3K (332)	15K (153)	68K (683)	470K (474
220 (221)	1K (102)	4.7K (472)	22K (223)	100K (104)	
330 (331)	1.5K (152)	6.8K (682)	33K (333)	220K (224)	

Resistance Values 746 Series Chip Arrays

All values listed in ohms

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Cod
100 (101)	330 (331)	1.5K (152)	3.3K (332)	15K (153)	47K (473)
150 (151)	470 (471)	2.2K (222)	4.7K (472)	22K (223)	100K (104
220 (221)	1K (102)	2.7K (272)	10K (103)	33K (333)	

Land Pattern



Series	Dimensions - mm a	b	c	d
741	1.14	.50	.25	.61
742	1.80	.80	.50	.90
743	1.90	1.27	.80	1.20
744	3.00	1.27	.80	1.30
745	3.00	1.27	.80	1.30
746	1.52	.64	.35	.80

Series	No. of Term.	No. of Res.	Dim. "L" (mm)	Resistor † Power Rating (mW@70°C)	Digi-Key* Part No.	Cut Tape Pricing 10	100	1,000	Digi-Key* Part No.	Tape & Reel Pricing 4,000	5,000	10,00
741	4	2	1.0	63	741X043(Code)JCT-ND	.42	3.30	28.20	741X043(Code)JTR-ND	—	—	21.00/
	8	4	2.0		741X083(Code)JCT-ND	.46	3.58	30.55	741X083(Code)JTR-ND	—	—	23.00/
	8	4	2.0		741C083(Code)JCT-ND	.46	3.58	30.55	741C083(Code)JTR-ND	—	—	23.00/
	16	8	3.80		741X163(Code)JCT-ND	1.58	12.38	105.75	741X163(Code)JTR-ND	—	90.00/M	79.00/
742	4	2	1.60	63	742C043(Code)JCT-ND	.56	4.40	37.60	742C043(Code)JTR-ND	—	32.00/M	28.00/
	8	4	3.20		742C083(Code)JCT-ND	.42	3.31	28.20	742C083(Code)JTR-ND	—	24.00/M	21.00/
	16	8	6.40		742C163(Code)JCT-ND	1.75	13.75	117.50	742C163(Code)JTR-ND	100.00/M	—	—
743	4	2	2.54	100	743C043(Code)JCT-ND	1.33	10.45	89.30	743C043(Code)JTR-ND	76.00/M	—	—
	8	4	5.08		743C083(Code)JCT-ND	1.61	12.70	108.10	743C083(Code)JTR-ND	92.00/M	—	—
744	4	2	2.54	125	744C043(Code)JCT-ND	1.33	10.45	89.30	744C043(Code)JTR-ND	76.00/M	—	—
	8	4	5.08		744C083(Code)JCT-ND	1.61	12.70	108.10	744C083(Code)JTR-ND	92.00/M	—	—
745	10	8	6.40	63	745C101(Code)JCT-ND	2.10	16.50	141.00	745C101(Code)JTR-ND	120.00/M	—	—
746	10	8	3.30	31	746X101(Code)JCT-ND	1.12	8.80	75.20	746X101(Code)JTR-ND	—	64.00/M	56.00/

* For complete part number, substitute the corresponding resistance code (listed above) for Code.

†***Note:*** Total Rated Package Power equals total number of resistors times rated Power per Resistor.

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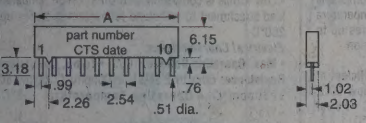
CTS

esistor Networks

OVER 1,500 VALUES AVAILABLE

50 SERIES
ngle-In-Line

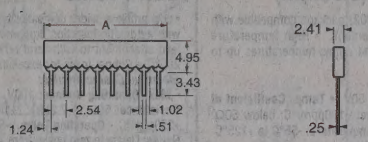


olid ceramic networks are more efficient because they operate at wer temperatures. This translates into long term reliability in a sistor network.

pecifications:
Resistance Values: 22Ω through 1 MegΩ • **Resistance olerance:** ±2% • **Temperature Coefficient:** ±100PPM/°C typical

eatures:
Low-profile construction • Excellent power dissipation • High liability • Alumina substrate

770 SERIES
Single-In-Line Conformal

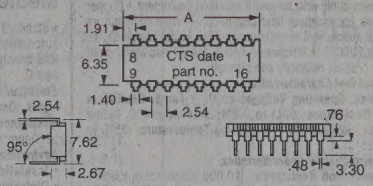


Standard Products 770 series is available in 6, 8, and 10 pin sizes, and in many available resistance values.

Specifications:
• **Resistance Values:** 22Ω through 1 MegΩ • **Resistance Tolerance:** ±2% • **Temperature Coefficient:** ±100PPM/°C typical

Features:
• High reliability resistors • Low-profile construction • .100" lead spacing • High reliability • Alumina substrate

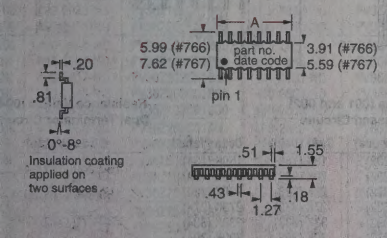
760/761 SERIES
Dual-In-Line



Requires 30% less board space than molded networks of the same power rating.

Specifications:
• **Resistance Range:** 22Ω through 1 MegΩ • **Resistance Tolerance:** Standard: ±2% • **Max. Operating Voltage:** 50V not to exceed rated power • **Temp. Coefficient:** 100Ω through 1 MegΩ ±100PPM/°C typical, Below 100Ω ±200PPM/°C typical • **Operating Temp. Range:** –55°C to 125°C • **Storage Temp. Range:** –55°C to 125°C • **Dielectric Strength:** 100V

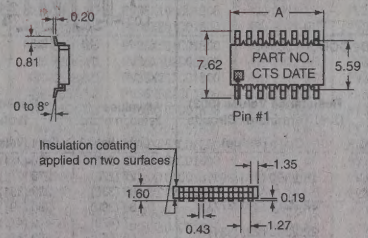
66/767 SERIES
ual-In-Line Surface Mount



in cover coating generates higher power ratings. Thin proprietary over protection keeps resistors near the surface, allowing the umina substrate to act as a heat sink. That means higher power tings than molded networks.

pecifications:
Resistance Values: 22Ω through 1 MegΩ • **Resistance olerance:** ±2%. • **Temperature Coefficient:** ±100PPM/°C typical

768 SERIES
Dual-In-Line Surface Mount



Medium body, small outline products. Low profile — board to network clearance of 0.005"/0.010".

Specifications:
• **Resistance Range:** Standard: 10Ω to 1MegΩ • **Resistance Tolerance:** Standard: ±2% or 0.5Ω (whichever is greater) • **Max. Operating Voltage:** 50V not to exceed rated power • **Temp. Coefficient:** Standard: 100Ω to 1 MegΩ ±100PPM/°C typical, 10Ω to 99Ω ±200PPM/°C typical • **Operating Temp. Range:** -55°C to 125°C • **Dielectric Strength:** 100VAC

Fig. 1 - Bussed

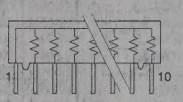


Fig. 2 - Isolated

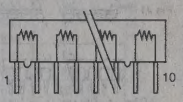


Fig. 3 - Dual Term

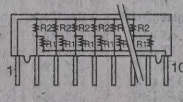


Fig. 4 - Bussed

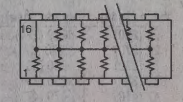


Fig. 5 - Isolated

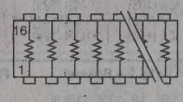
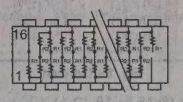


Fig. 6 - Dual Term



AVAILABLE VALUES
(listed in ohms)

Isolated and Bussed Circuits

56	180	470	1.2K	3.3K	8.2K	22K	68K	220K	680K
68	200	510	1.5K	3.9K	10K	27K	82K	270K	820K
82	220	560	1.8K	4.7K	12K	33K	100K	330K	1 Meg
100	270	680	2K	5.1K	15K	39K	120K	390K	
120	330	820	2.2K	5.6K	18K	47K	150K	470K	
150	390	1K	2.7K	6.8K	20K	56K	180K	560K	

AVAILABLE VALUES
(listed in ohms)

750 and 770 SERIES
Dual Terminator Circuits

81/130
121/195
162/260
180/390
220/330
330/390

AVAILABLE VALUES
(listed in ohms)

760/761 SERIES
Dual Terminator Circuits

180/390
220/270
220/330
330/390
680/1.5K
1.5K/3.3K

AVAILABLE VALUES
(listed in ohms)

766/767 and 768 SERIES
Dual Terminator Circuits

180/390
220/330
330/390
330/470

es	Fig.	No. of Pins	No. of Res.	Dim. "A" (mm)	Resistor Power Rating (mW@70°C)	Digi-Key* Part No.	Pricing 1	10	100	1,000
	1	6	5	14.68	250	750-61-R(Value)-ND	.91	7.95	62.43	454.00
	1	8	7	19.76	250	750-81-R(Value)-ND	1.05	9.17	72.05	524.00
	1	10	9	24.84	250	750-101-R(Value)-ND	1.25	10.92	85.80	624.00
	2	6	3	14.68	400	750-63-R(Value)-ND	.91	7.95	62.43	454.00
	2	8	4	19.76	400	750-83-R(Value)-ND	1.05	9.17	72.05	524.00
	2	10	5	24.84	400	750-103-R(Value)-ND	1.25	10.92	85.80	624.00
	3	8	12	19.76	250	750-85-R(Value)-ND	1.41	12.36	97.08	706.00
	3	10	16	24.84	250	750-105-R(Value)-ND	1.70	14.91	117.15	852.00
	1	6	5	15.19	100	770-61-R(Value)-ND	.21	1.76	13.20	88.00
	1	8	7	20.27	100	770-81-R(Value)-ND	.28	2.36	17.70	118.00
	1	10	9	25.35	100	770-101-R(Value)-ND	.30	2.63	20.63	150.00
	2	6	3	15.19	200	770-63-R(Value)-ND	.21	1.76	13.20	88.00
	2	8	4	20.27	200	770-83-R(Value)-ND	.28	2.36	17.70	118.00
	2	10	5	25.35	200	770-103-R(Value)-ND	.30	2.63	20.63	150.00
	3	8	12	20.27	100	770-85-R(Value)-ND	.57	4.84	36.30	242.00
	3	10	16	25.35	100	770-105-R(Value)-ND	.54	4.76	37.40	272.00
	4	14	13	19.05	150	760-1-R(Value)-ND	.98	8.13	68.25	422.50
	4	16	15	21.59	150	761-1-R(Value)-ND	1.00	9.16	83.25	499.50
/	5	14	7	19.05	300	760-3-R(Value)-ND	.98	8.13	68.25	422.50
	5	16	8	21.59	300	761-3-R(Value)-ND	1.00	9.16	83.25	499.50
	6	14	24	19.05	150	760-5-R(Value)-ND	1.35	11.28	94.71	586.30
	6	16	28	21.59	150	761-5-R(Value)-ND	1.38	12.62	114.75	688.50

Series	Fig.	No. of Pins	No. of Res.	Dim. "A" (mm)	Resistor Power Rating (mW@70°C)	Digi-Key* Part No.	Pricing 1	10	100	1,000
766	4	14	13	8.64	80	766-141-R(Value)-ND	1.22	9.72	68.04	421.20
	4	16	15	9.91	80	766-161-R(Value)-ND	1.22	9.72	68.04	421.20
	4	14	7	8.64	160	766-143-R(Value)-ND	1.22	9.72	68.04	421.20
	5	16	8	9.91	160	766-163-R(Value)-ND	1.22	9.72	68.04	421.20
	6	14	24	8.64	80	766-145-R(Value)-ND	1.43	11.40	79.80	494.00
	6	16	28	9.91	80	766-165-R(Value)-ND	1.43	11.40	79.80	494.00
767	4	14	13	9.91	100	767-141-R(Value)-ND	.66	5.25	36.75	227.50
	4	16	15	11.18	100	767-161-R(Value)-ND	.66	5.25	36.75	227.50
	5	14	7	9.91	200	767-143-R(Value)-ND	.66	5.25	36.75	227.50
	5	16	8	11.18	200	767-163-R(Value)-ND	.66	5.25	36.75	227.50
	6	14	24	9.91	100	767-145-R(Value)-ND	.71	5.64	39.48	244.40
	6	16	28	11.18	100	767-165-R(Value)-ND	.71	5.64	39.48	244.40
768	4	14	13	9.91	130	768-141-R(Value)-ND	.66	5.25	36.75	227.50
	4	16	15	11.18	150	768-161-R(Value)-ND	.66	5.25	36.75	227.50
	5	14	7	9.91	130	768-143-R(Value)-ND	.66	5.25	36.75	227.50
	5	16	8	11.18	150	768-163-R(Value)-ND	.66	5.25	36.75	227.50
	6	14	24	9.91	130	768-145-R(Value)-ND	.71	5.64	39.48	244.40
	6	16	28	11.18	150	768-165-R(Value)-ND	.71	5.64	39.48	244.40

complete part number, substitute the corresponding value from above chart in (Value).

4100R Series
4116R

Thick Film Molded DIPs

• Compatible with automatic insertion equipment • Copper leads for excellent heat dissipation • High temperature lead attachment to withstand reflow solder temperatures up to 260°C • Trifurcated Krimp-Joint™ lead attachment for product reliability and strength

Electrical Characteristics:

• **Max. Operating Voltage:** 100V. • **Temp. Coefficient of Resistance:** 50Ω to 2.2MΩ: ±100ppm/°C, below 50Ω: ±250ppm°C. • **Operating Temperature:** -55°C to +125°C

Environmental Characteristics:

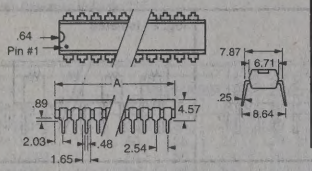
• **Insulation Resistance:** 10,000 megohms minimum • **Dielectric Withstanding Voltage:** 200 VRMS • **Lead Solderability/Solvent Resistance:** Meet requirements of MIL-R-83401

Physical Characteristics:

• **Flammability:** Conforms to UL94V-0 • **Lead Frame Material:** Copper (OLIN 194) 90/10 electroplate • **Body Material:** Novolac Epoxy

Resistance Tolerance:

• **Isolated/Bussed:** Below 50 ohms ±1 ohms; Above 50 ohms ±2% • **Dual Terminated:** Below 100 ohms ±2 ohms; Above 100 ohms ±2%



4800P Series
4816P

Thick Film Surface Mount Medium Body (5.59mm)

• Standard E.I.A. (SOGN-0002) package compatible with automatic placement equipment. • High temperature lead attachment to withstand reflow temperatures up to 260°C.

Electrical Characteristics:

• **Max. Operating Voltage:** 50V • **Temp. Coefficient of Resistance:** 50Ω and above: ±100ppm/°C; below 50Ω: ±250ppm°C • **Operating Temperature:** -55°C to +125°C

Environmental Characteristics:

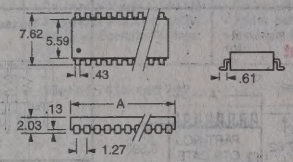
• **Insulation Resistance:** 10,000 megohms minimum. • **Dielectric Withstanding Voltage:** 200 VRMS • **Lead Solderability/Solvent Resistance:** Meet requirements of MIL-R-83401

Physical Characteristics:

• **Flammability:** Conforms to UL94V-0 • **Lead Frame Material:** Copper (OLIN 194) 60/40 solder dip • **Body Material:** Novolac Epoxy

Resistance Tolerance:

• **Isolated/Bussed:** Below 50 ohms ±1 ohms; Above 50 ohms ±2% • **Dual Terminated:** Below 100 ohms ±2 ohms; Above 100 ohms ±2%



4300R Series
4306R, 4308R and 4310R

Thick Film Molded SIPs, Low Profile

• Low profile provides compatibility with DIPs • Compatible with automatic insertion equipment • High temperature lead attachment to withstand reflow temperatures up to 260°C • Copper leads for excellent heat dissipation

Electrical Characteristics:

• **Max. Operating Voltage:** 100V • **Temp. Coefficient of Resistance:** 50Ω to 2.2MΩ: ±100ppm/°C; below 50Ω: ±250ppm°C • **Operating Temp.:** -55°C to +125°C • **Power Rating:** Derate to zero power from + 70°C to +125°C

Environmental Characteristics:

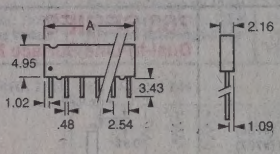
• **Insulation Resistance:** 10,000 megohms minimum • **Dielectric Withstanding Voltage:** 200 VRMS • **Lead Solderability/Solvent Resistance:** Meet requirements of MIL-R-83401

Physical Characteristics:

• **Flammability:** Conforms to UL94V-0 • **Lead Frame Material:** Copper (OLIN 194) 90/10 plated • **Body Material:** Novolac Epoxy

Resistance Tolerance:

• **Isolated/Bussed:** Below 50 ohms ±1 ohms; Above 50 ohms ±2% • **Dual Terminated:** Below 100 ohms ±2 ohms; Above 100 ohms ±2%



4600X Series
4606X, 4608X and 4610X

Thick Film Conformal SIPs, Low Profile

• Low Profile is compatible with DIPs • High temperature lead attachment to withstand reflow temperatures up to 260°C

Electrical Characteristics:

• **Max. Operating Voltage:** 100V • **Temp. Coefficient of Resistance:** 50Ω to 2.2MΩ: ±100ppm/°C, below 50Ω: ±250ppm°C • **Operating Temperature:** -55°C to +125°C

Environmental Characteristics:

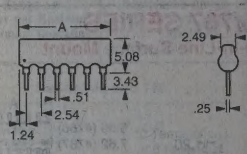
• **Insulation Resistance:** 10,000 megohms minimum • **Dielectric Withstanding Voltage:** 200 VRMS • **Lead Solderability/Solvent Resistance:** Meet requirements of MIL-R-83401

Physical Characteristics:

• **Flammability:** Conforms to UL94V-0 • **Lead Frame Material:** Copper (OLIN 194) 60/40 solder dip • **Body Material:** Epoxy resin/anhydride disphenol A

Resistance Tolerance:

• **Isolated/Bussed:** Below 50 ohms ±1 ohms; Above 50 ohms ±2% • **Dual Terminated:** Below 100 ohms ±2 ohms; Above 100 ohms ±2%



F

All values listed in ohms.

Resistance Values (001 and 002) Isolated and Bussed Circuits

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
22 (220)	220 (221)	2K (202)	18K (183)	150K (154)
27 (270)	270 (271)	2.2K (222)	20K (203)	180K (184)
33 (330)	330 (331)	2.7K (272)	22K (223)	220K (224)
39 (390)	390 (391)	3.3K (332)	27K (273)	270K (274)
47 (470)	470 (471)	3.9K (392)	33K (333)	330K (334)
56 (560)	560 (561)	4.7K (472)	39K (393)	390K (394)
68 (680)	680 (681)	5.6K (562)	47K (473)	470K (474)
82 (820)	820 (821)	6.8K (682)	56K (563)	560K (564)
100 (101)	1K (102)	8.2K (822)	68K (683)	680K (684)
120 (121)	1.2K (122)	10K (103)	82K (823)	820K (824)
150 (151)	1.5K (152)	12K (123)	100K (104)	1M (105)
180 (181)	1.8K (182)	15K (153)	120K (124)	

Resistance Values (003) Dual Terminator Circuits

Code (Value)
180/390 (181/391)
220/270 (221/271)
220/330 (221/331)
330/390 (331/391)
330/470 (331/471)
3K/6.2K (302/622)

All values listed in ohms.

Resistance Values (001 and 002) Isolated and Bussed Circuits

Code (Value)	Code (Value)	Code (Value)	Code (Value)	Code (Value)
22 (220)	220 (221)	2K (202)	18K (183)	150K (154)
27 (270)	270 (271)	2.2K (222)	20K (203)	180K (184)
33 (330)	330 (331)	2.7K (272)	22K (223)	220K (224)
39 (390)	390 (391)	3.3K (332)	27K (273)	270K (274)
47 (470)	470 (471)	3.9K (392)	33K (333)	330K (334)
56 (560)	560 (561)	4.7K (472)	39K (393)	390K (394)
68 (680)	680 (681)	5.6K (562)	47K (473)	470K (474)
82 (820)	820 (821)	6.8K (682)	56K (563)	560K (564)
100 (101)	1K (102)	8.2K (822)	68K (683)	680K (684)
120 (121)	1.2K (122)	10K (103)	82K (823)	820K (824)
150 (151)	1.5K (152)	12K (123)	100K (104)	1M (105)
180 (181)	1.8K (182)	15K (153)	120K (124)	

Resistance Values (004) Dual Terminator Circuits

Code (Value)
160/240 (161/241)
180/390 (181/391)
220/270 (221/271)
220/330 (221/331)
330/390 (331/391)
330/470 (331/471)
3K/6.2K (302/622)

Fig. 1 – Isolated

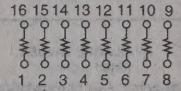


Fig. 2 – Bussed

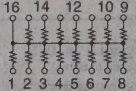


Fig. 3 – Dual Term

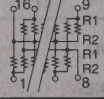


Fig. 4 – Dual Term

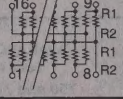


Fig. 5 – Isolated

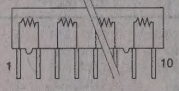


Fig. 6 – Bussed

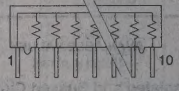
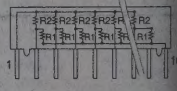


Fig. 7 – Dual Term



Series	Fig.	No. of Pins	No. of Res.	Dim. "A" (mm)	Element Power Rating (W @ 70°C)	Digi-Key* Part No.	Pricing 1	10	50	100	500	1,000	Bourns* Part No.
4100	1	16	8	21.97	.25	4116R-1-(Code)-ND	.60	5.27	22.10	37.78	157.41	264.00	4116R-1-(Code)
	2	16	15	21.97	.125	4116R-2-(Code)-ND	.60	5.27	22.10	37.78	157.41	264.00	4116R-2-(Code)
	3	16	28	21.97	.125	4116R-3-(Code)/(Code)-ND	1.27	11.28	47.32	80.89	337.04	566.00	4116R-3-(Code)/(Code)
4300	6	6	5	14.83	.20	4306R-1-(Code)-ND	.47	4.19	17.55	30.00	125.00	210.00	4306R-101-(Code)
	5	6	3	14.83	.30	4306R-2-(Code)-ND	.47	4.19	17.55	30.00	125.00	210.00	4306R-102-(Code)
	7	6	8	14.83	.20	4306R-4-(Code)/(Code)-ND	.67	5.89	24.70	42.22	175.93	296.00	4306R-104-(Code)/(Code)
	6	8	7	19.91	.20	4308R-1-(Code)-ND	.54	4.81	20.15	34.44	143.52	241.00	4308R-101-(Code)
	5	8	4	19.91	.30	4308R-2-(Code)-ND	.54	4.81	20.15	34.44	143.52	241.00	4308R-102-(Code)
	7	8	12	19.91	.20	4308R-4-(Code)/(Code)-ND	.74	6.51	27.30	46.67	194.44	327.00	4308R-104-(Code)/(Code)
	6	10	9	24.99	.20	4310R-1-(Code)-ND	.65	5.74	24.05	41.11	171.30	288.00	4310R-101-(Code)
	5	10	5	24.99	.30	4310R-2-(Code)-ND	.65	5.74	24.05	41.11	171.30	288.00	4310R-102-(Code)
	7	10	16	24.99	.20	4310R-4-(Code)/(Code)-ND	.88	7.75	32.50	55.56	231.48	389.00	4310R-104-(Code)/(Code)
4600	6	6	5	15.19	.20	4606X-1-(Code)-ND	.25	2.23	9.36	16.00	66.67	112.00	4606X-101-(Code)
	5	6	3	15.19	.30	4606X-2-(Code)-ND	.25	2.23	9.36	16.00	66.67	112.00	4606X-102-(Code)
	7	6	8	15.19	.20	4606X-4-(Code)/(Code)-ND	.53	4.65	19.50	33.33	138.89	233.00	4606X-104-(Code)/(Code)
	6	8	7	20.27	.20	4608X-1-(Code)-ND	.32	2.79	11.70	20.00	83.33	140.00	4608X-101-(Code)
	5	8	4	20.27	.30	4608X-2-(Code)-ND	.32	2.79	11.70	20.00	83.33	140.00	4608X-102-(Code)
	7	8	12	20.27	.20	4608X-4-(Code)/(Code)-ND	.63	5.58	23.40	40.00	166.67	280.00	4608X-104-(Code)/(Code)
	6	10	9	25.35	.20	4610X-1-(Code)-ND	.39	3.41	14.30	24.44	101.85	171.00	4610X-101-(Code)
	5	10	5	25.35	.30	4610X-2-(Code)-ND	.39	3.41	14.30	24.44	101.85	171.00	4610X-102-(Code)
	7	10	16	25.35	.20	4610X-4-(Code)/(Code)-ND	.70	6.20	26.00	44.44	185.19	311.00	4610X-104-(Code)/(Code)
4800	1	16	8	12.45	.160	4816P-1-(Code)-ND	1.12	9.92	41.60	71.00	300.00	500.00	4816P-T01-(Code)
	2	16	15	12.45	.080	4816P-2-(Code)-ND	1.12	9.92	41.60	71.00	300.00	500.00	4816P-T02-(Code)
	4	16	28	12.45	.080	4816P-3-(Code)/(Code)-ND	1.75	15.50	65.00	110.94	468.75	781.00	4816P-T03-(Code)/(Code)

* For complete part number, substitute the corresponding resistance code (listed above) for Value.

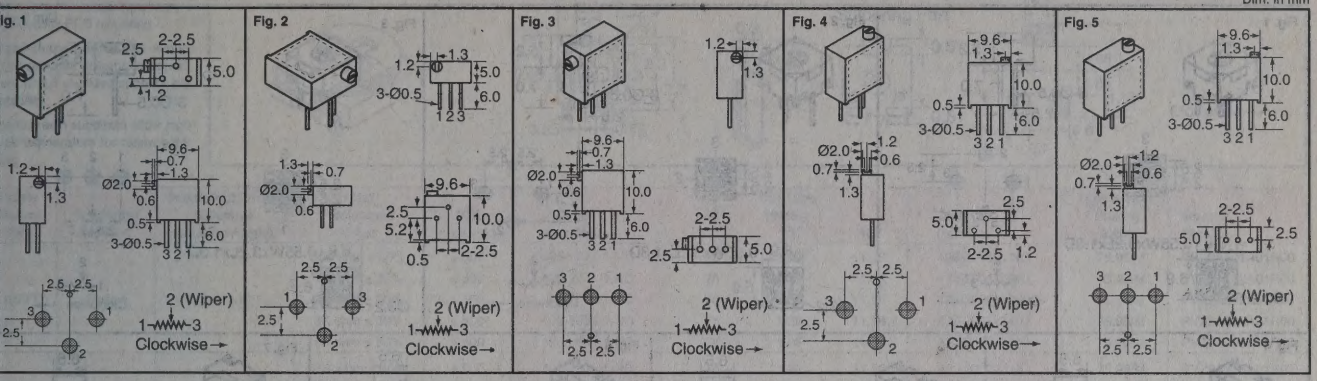
Sealed Multi-Turn Trimmer Potentiometers

V36 Series

Features: • 25-turns, cermet, square, 9.5mm package • Compatible with ultrasonic cleaning • Clutch mechanism prevents excessive wiper rotation • RoHS Compliant

Specifications: • Power Rating: 0.5W (70°C) • Soldering Method: Flow/Soldering Iron • Number of Turns: 25 • TCR (ppm/°C): ±100

Dim. in mm



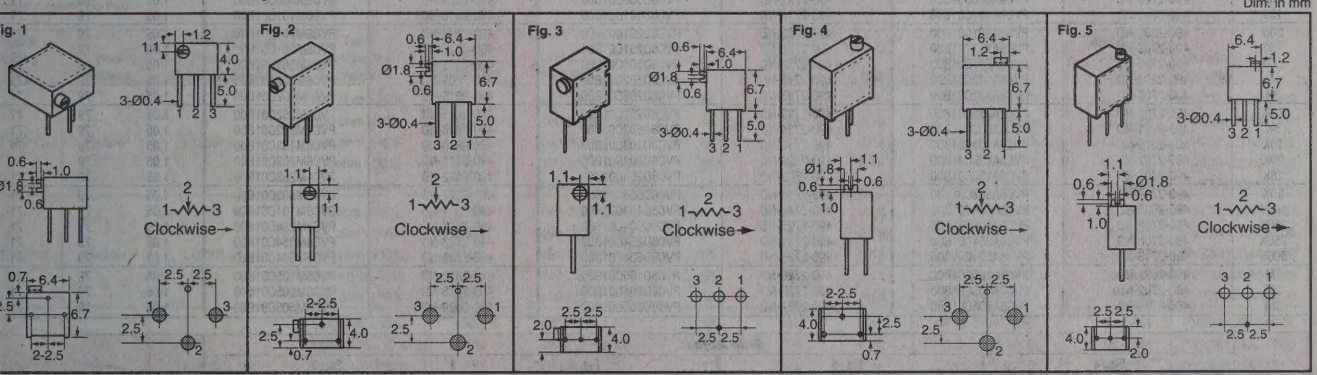
	Side Adjust						Top Adjust					
	Fig. 1		Fig. 2		Fig. 3		Fig. 4		Fig. 5			
ms	Digi-Key Part No.	Murata Part No.	Digi-Key Part No.	Murata Part No.	Digi-Key Part No.	Murata Part No.	Digi-Key Part No.	Murata Part No.	Digi-Key Part No.	Murata Part No.	Price Each 1	10	100
10	490-2929-ND	PV36Z100C01B00	490-2853-ND	PV36P100C01B00	490-2891-ND	PV36X100C01B00	490-2910-ND	PV36Y100C01B00	490-2872-ND	PV36W100C01B00	.85	.78	.55
20	490-2935-ND	PV36Z200C01B00	490-2859-ND	PV36P200C01B00	490-2897-ND	PV36X200C01B00	490-2916-ND	PV36Y200C01B00	490-2878-ND	PV36W200C01B00	.85	.78	.55
50	490-2943-ND	PV36Z500C01B00	490-2867-ND	PV36P500C01B00	490-2905-ND	PV36X500C01B00	490-2924-ND	PV36Y500C01B00	490-2886-ND	PV36W500C01B00	.85	.78	.55
00	490-2930-ND	PV36Z101C01B00	490-2854-ND	PV36P101C01B00	490-2892-ND	PV36X101C01B00	490-2911-ND	PV36Y101C01B00	490-2873-ND	PV36W101C01B00	.85	.78	.55
00	490-2936-ND	PV36Z201C01B00	490-2860-ND	PV36P201C01B00	490-2898-ND	PV36X201C01B00	490-2917-ND	PV36Y201C01B00	490-2879-ND	PV36W201C01B00	.85	.78	.55
00	490-2944-ND	PV36Z501C01B00	490-2868-ND	PV36P501C01B00	490-2906-ND	PV36X501C01B00	490-2925-ND	PV36Y501C01B00	490-2887-ND	PV36W501C01B00	.85	.78	.55
1K	490-2931-ND	PV36Z102C01B00	490-2855-ND	PV36P102C01B00	490-2893-ND	PV36X102C01B00	490-2912-ND	PV36Y102C01B00	490-2874-ND	PV36W102C01B00	.85	.78	.55
2K	490-2937-ND	PV36Z202C01B00	490-2861-ND	PV36P202C01B00	490-2899-ND	PV36X202C01B00	490-2918-ND	PV36Y202C01B00	490-2880-ND	PV36W202C01B00	.85	.78	.55
5K	490-2945-ND	PV36Z502C01B00	490-2869-ND	PV36P502C01B00	490-2907-ND	PV36X502C01B00	490-2926-ND	PV36Y502C01B00	490-2888-ND	PV36W502C01B00	.85	.78	.55
0K	490-2932-ND	PV36Z103C01B00	490-2856-ND	PV36P103C01B00	490-2894-ND	PV36X103C01B00	490-2913-ND	PV36Y103C01B00	490-2875-ND	PV36W103C01B00	.85	.78	.55
0K	490-2938-ND	PV36Z203C01B00	490-2862-ND	PV36P203C01B00	490-2900-ND	PV36X203C01B00	490-2919-ND	PV36Y203C01B00	490-2881-ND	PV36W203C01B00	.85	.78	.55
5K	490-2941-ND	PV36Z253C01B00	490-2865-ND	PV36P253C01B00	490-2903-ND	PV36X253C01B00	490-2922-ND	PV36Y253C01B00	490-2884-ND	PV36W253C01B00	.85	.78	.55
0K	490-2946-ND	PV36Z503C01B00	490-2870-ND	PV36P503C01B00	490-2908-ND	PV36X503C01B00	490-2927-ND	PV36Y503C01B00	490-2889-ND	PV36W503C01B00	.85	.78	.55
0K	490-2933-ND	PV36Z104C01B00	490-2857-ND	PV36P104C01B00	490-2895-ND	PV36X104C01B00	490-2914-ND	PV36Y104C01B00	490-2876-ND	PV36W104C01B00	.85	.78	.55
0K	490-2939-ND	PV36Z204C01B00	490-2863-ND	PV36P204C01B00	490-2901-ND	PV36X204C01B00	490-2920-ND	PV36Y204C01B00	490-2882-ND	PV36W204C01B00	.85	.78	.55
50K	490-2942-ND	PV36Z254C01B00	490-2866-ND	PV36P254C01B00	490-2904-ND	PV36X254C01B00	490-2923-ND	PV36Y254C01B00	490-2885-ND	PV36W254C01B00	.85	.78	.55
00K	490-2947-ND	PV36Z504C01B00	490-2871-ND	PV36P504C01B00	490-2909-ND	PV36X504C01B00	490-2928-ND	PV36Y504C01B00	490-2890-ND	PV36W504C01B00	.85	.78	.55
M	490-2934-ND	PV36Z105C01B00	490-2858-ND	PV36P105C01B00	490-2896-ND	PV36X105C01B00	490-2915-ND	PV36Y105C01B00	490-2877-ND	PV36W105C01B00	.85	.78	.55
2M	490-2940-ND	PV36Z205C01B00	490-2864-ND	PV36P205C01B00	490-2902-ND	PV36X205C01B00	490-2921-ND	PV36Y205C01B00	490-2883-ND	PV36W205C01B00	.85	.78	.55

V37 Series

Features: • High Resolution, 12-turns cermet • Small size • Compatible with ultrasonic cleaning • Clutch mechanism prevents excessive wiper rotation • RoHS Compliant

Specifications: • Power Rating: 0.25 (85°C) • Soldering Method: Flow/Soldering Iron • Number of Turns: 12 • TCR (ppm/°C): ±100

Dim. in mm



	Side Adjust						Top Adjust					
	Fig. 1		Fig. 2		Fig. 3		Fig. 4		Fig. 5			
ms	Digi-Key Part No.	Murata Part No.	Digi-Key Part No.	Murata Part No.	Digi-Key Part No.	Murata Part No.	Digi-Key Part No.	Murata Part No.	Digi-Key Part No.	Murata Part No.	Price Each 1	10	100
10	490-2948-ND	PV37P100C01B00	490-2986-ND	PV37X100C01B00	490-3024-ND	PV37Z100C01B00	490-2967-ND	PV37W100C01B00	490-3005-ND	PV37Y100C01B00	1.61	1.46	1.03
20	490-2954-ND	PV37P200C01B00	490-2992-ND	PV37X200C01B00	490-3030-ND	PV37Z200C01B00	490-2973-ND	PV37W200C01B00	490-3011-ND	PV37Y200C01B00	1.61	1.46	1.03
50	490-2962-ND	PV37P500C01B00	490-3000-ND	PV37X500C01B00	490-3038-ND	PV37Z500C01B00	490-2981-ND	PV37W500C01B00	490-3019-ND	PV37Y500C01B00	1.61	1.46	1.03
00	490-2949-ND	PV37P101C01B00	490-2987-ND	PV37X101C01B00	490-3025-ND	PV37Z101C01B00	490-2968-ND	PV37W101C01B00	490-3006-ND	PV37Y101C01B00	1.61	1.46	1.03
00	490-2955-ND	PV37P201C01B00	490-2993-ND	PV37X201C01B00	490-3031-ND	PV37Z201C01B00	490-2974-ND	PV37W201C01B00	490-3012-ND	PV37Y201C01B00	1.61	1.46	1.03
00	490-2963-ND	PV37P501C01B00	490-3001-ND	PV37X501C01B00	490-3039-ND	PV37Z501C01B00	490-2982-ND	PV37W501C01B00	490-3020-ND	PV37Y501C01B00	1.61	1.46	1.03
1K	490-2950-ND	PV37P102C01B00	490-2988-ND	PV37X102C01B00	490-3026-ND	PV37Z102C01B00	490-2969-ND	PV37W102C01B00	490-3007-ND	PV37Y102C01B00	1.61	1.46	1.03
2K	490-2956-ND	PV37P202C01B00	490-2994-ND	PV37X202C01B00	490-3032-ND	PV37Z202C01B00	490-2975-ND	PV37W202C01B00	490-3013-ND	PV37Y202C01B00	1.61	1.46	1.03
5K	490-2964-ND	PV37P502C01B00	490-3002-ND	PV37X502C01B00	490-3040-ND	PV37Z502C01B00	490-2983-ND	PV37W502C01B00	490-3021-ND	PV37Y502C01B00	1.61	1.46	1.03
0K	490-2951-ND	PV37P103C01B00	490-2989-ND	PV37X103C01B00	490-3027-ND	PV37Z103C01B00	490-2970-ND	PV37W103C01B00	490-3008-ND	PV37Y103C01B00	1.61	1.46	1.03
0K	490-2957-ND	PV37P203C01B00	490-2995-ND	PV37X203C01B00	490-3033-ND	PV37Z203C01B00	490-2976-ND	PV37W203C01B00	490-3014-ND	PV37Y203C01B00	1.61	1.46	1.03
5K	490-2960-ND	PV37P253C01B00	490-2998-ND	PV37X253C01B00	490-3036-ND	PV37Z253C01B00	490-2979-ND	PV37W253C01B00	490-3017-ND	PV37Y253C01B00	1.61	1.46	1.03
0K	490-2965-ND	PV37P503C01B00	490-3003-ND	PV37X503C01B00	490-3041-ND	PV37Z503C01B00	490-2984-ND	PV37W503C01B00	490-3022-ND	PV37Y503C01B00	1.61	1.46	1.03
0K	490-2952-ND	PV37P104C01B00	490-2990-ND	PV37X104C01B00	490-3028-ND	PV37Z104C01B00	490-2971-ND	PV37W104C01B00	490-3009-ND	PV37Y104C01B00	1.61	1.46	1.03
0K	490-2958-ND	PV37P204C01B00	490-2996-ND	PV37X204C01B00	490-3034-ND	PV37Z204C01B00	490-2977-ND	PV37W204C01B00	490-3015-ND	PV37Y204C01B00	1.61	1.46	1.03
50K	490-2961-ND	PV37P254C01B00	490-2999-ND	PV37X254C01B00	490-3037-ND	PV37Z254C01B00	490-2980-ND	PV37W254C01B00	490-3018-ND	PV37Y254C01B00	1.61	1.46	1.03
00K	490-2966-ND	PV37P504C01B00	490-3004-ND	PV37X504C01B00	490-3042-ND	PV37Z504C01B00	490-2985-ND	PV37W504C01B00	490-3023-ND	PV37Y504C01B00	1.61	1.46	1.03
M	490-2953-ND	PV37P105C01B00	490-2991-ND	PV37X105C01B00	490-3029-ND	PV37Z105C01B00	490-2972-ND	PV37W105C01B00	490-3010-ND	PV37Y105C01B00	1.61	1.46	1.03
2M	490-2959-ND	PV37P205C01B00	490-2997-ND	PV37X205C01B00	490-3035-ND	PV37Z205C01B00	490-2978-ND	PV37W205C01B00	490-3016-ND	PV37Y205C01B00	1.61	1.46	1.03

Sealed Single-Turn Trimmer Potentiometers - PVC6 Series

Features: • Enlarged rotor provides superior adjustability • 11-scales are easy to see adjustment position • Colored rotor provides superior adjustability • Funnel shape rotor allows for in-process automatic adjustment and it provides superior adjustability • RoHS Compliant

Specifications: • Power Rating: 0.5 (70°C) • Soldering Method: Flow/Soldering Iron • Number of Turns: 1 (240° ± 5°) • TCR (ppm/°C): ± 100

Dim in mm

Fig. 1

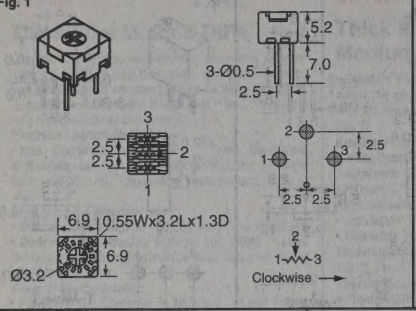


Fig. 2

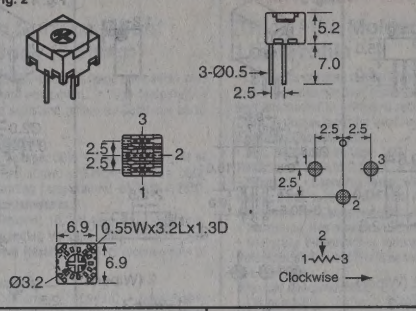


Fig. 3

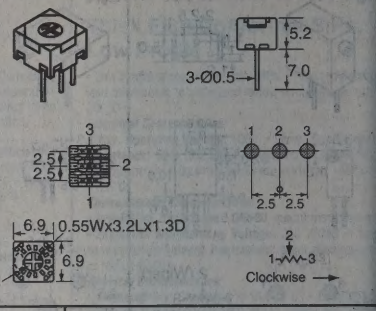


Fig. 4

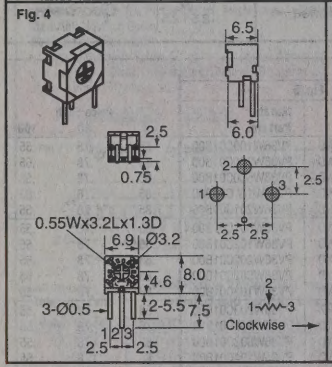


Fig. 5

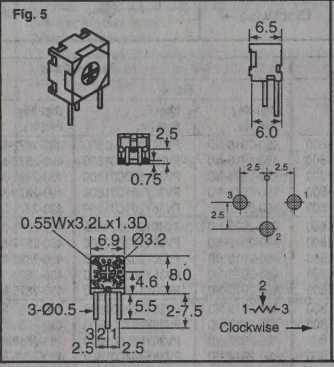


Fig. 6

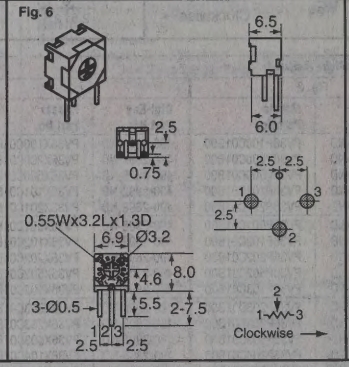
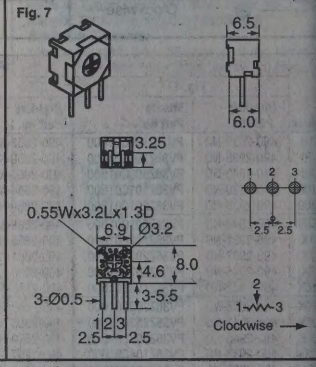


Fig. 7



Top Adjust

Ohms	Fig. 1 Digi-Key Part No.	Fig. 1 Murata Part No.	Fig. 2 Digi-Key Part No.	Fig. 2 Murata Part No.	Fig. 3 Digi-Key Part No.	Fig. 3 Murata Part No.	Price Each 1	10	100
10	490-2692-ND	PVC6A100C01B00	490-2715-ND	PVC6D100C01B00	490-2807-ND	PVC6M100C01B00	1.05	.79	.71
20	490-2698-ND	PVC6A200C01B00	490-2721-ND	PVC6D200C01B00	490-2813-ND	PVC6M200C01B00	1.05	.79	.71
25	490-2704-ND	PVC6A250C01B00	490-2727-ND	PVC6D250C01B00	490-2819-ND	PVC6M250C01B00	1.05	.79	.71
50	490-2709-ND	PVC6A500C01B00	490-2732-ND	PVC6D500C01B00	490-2824-ND	PVC6M500C01B00	1.05	.79	.71
100	490-2693-ND	PVC6A101C01B00	490-2716-ND	PVC6D101C01B00	490-2808-ND	PVC6M101C01B00	1.05	.79	.71
200	490-2699-ND	PVC6A201C01B00	490-2722-ND	PVC6D201C01B00	490-2814-ND	PVC6M201C01B00	1.05	.79	.71
250	490-2705-ND	PVC6A251C01B00	490-2728-ND	PVC6D251C01B00	490-2820-ND	PVC6M251C01B00	1.05	.79	.71
500	490-2710-ND	PVC6A501C01B00	490-2733-ND	PVC6D501C01B00	490-2825-ND	PVC6M501C01B00	1.05	.79	.71
1K	490-2694-ND	PVC6A102C01B00	490-2717-ND	PVC6D102C01B00	490-2809-ND	PVC6M102C01B00	1.05	.79	.71
2K	490-2700-ND	PVC6A202C01B00	490-2723-ND	PVC6D202C01B00	490-2815-ND	PVC6M202C01B00	1.05	.79	.71
2.5K	490-2706-ND	PVC6A252C01B00	490-2729-ND	PVC6D252C01B00	490-2821-ND	PVC6M252C01B00	1.05	.79	.71
5K	490-2711-ND	PVC6A502C01B00	490-2734-ND	PVC6D502C01B00	490-2826-ND	PVC6M502C01B00	1.05	.79	.71
10K	490-2695-ND	PVC6A103C01B00	490-2718-ND	PVC6D103C01B00	490-2810-ND	PVC6M103C01B00	1.05	.79	.71
20K	490-2701-ND	PVC6A203C01B00	490-2724-ND	PVC6D203C01B00	490-2816-ND	PVC6M203C01B00	1.05	.79	.71
25K	490-2707-ND	PVC6A253C01B00	490-2730-ND	PVC6D253C01B00	490-2822-ND	PVC6M253C01B00	1.05	.79	.71
50K	490-2712-ND	PVC6A503C01B00	490-2735-ND	PVC6D503C01B00	490-2827-ND	PVC6M503C01B00	1.05	.79	.71
100K	490-2696-ND	PVC6A104C01B00	490-2719-ND	PVC6D104C01B00	490-2811-ND	PVC6M104C01B00	1.05	.79	.71
200K	490-2702-ND	PVC6A204C01B00	490-2725-ND	PVC6D204C01B00	490-2817-ND	PVC6M204C01B00	1.05	.79	.71
250K	490-2708-ND	PVC6A254C01B00	490-2731-ND	PVC6D254C01B00	490-2823-ND	PVC6M254C01B00	1.05	.79	.71
500K	490-2713-ND	PVC6A504C01B00	490-2736-ND	PVC6D504C01B00	490-2828-ND	PVC6M504C01B00	1.05	.79	.71
1M	490-2697-ND	PVC6A105C01B00	490-2720-ND	PVC6D105C01B00	490-2812-ND	PVC6M105C01B00	1.05	.79	.71
2M	490-2703-ND	PVC6A205C01B00	490-2726-ND	PVC6D205C01B00	490-2818-ND	PVC6M205C01B00	1.05	.79	.71
5M	490-2714-ND	PVC6A505C01B00	490-2737-ND	PVC6D505C01B00	490-2829-ND	PVC6M505C01B00	1.05	.79	.71

Side Adjust

Ohms	Fig. 4 Digi-Key Part No.	Fig. 4 Murata Part No.	Fig. 5 Digi-Key Part No.	Fig. 5 Murata Part No.	Fig. 6 Digi-Key Part No.	Fig. 6 Murata Part No.	Fig. 7 Digi-Key Part No.	Fig. 7 Murata Part No.	Price Each 1	10	100
10	490-2738-ND	PVC6E100C01B00	490-2761-ND	PVC6G100C01B00	490-2784-ND	PVC6H100C01B00	490-2830-ND	PVC6Q100C01B00	1.05	.79	.71
20	490-2744-ND	PVC6E200C01B00	490-2767-ND	PVC6G200C01B00	490-2790-ND	PVC6H200C01B00	490-2836-ND	PVC6Q200C01B00	1.05	.79	.71
25	490-2750-ND	PVC6E250C01B00	490-2773-ND	PVC6G250C01B00	490-2796-ND	PVC6H250C01B00	490-2842-ND	PVC6Q250C01B00	1.05	.79	.71
50	490-2755-ND	PVC6E500C01B00	490-2778-ND	PVC6G500C01B00	490-2801-ND	PVC6H500C01B00	490-2847-ND	PVC6Q500C01B00	1.05	.79	.71
100	490-2739-ND	PVC6E101C01B00	490-2762-ND	PVC6G101C01B00	490-2785-ND	PVC6H101C01B00	490-2831-ND	PVC6Q101C01B00	1.05	.79	.71
200	490-2745-ND	PVC6E201C01B00	490-2768-ND	PVC6G201C01B00	490-2791-ND	PVC6H201C01B00	490-2837-ND	PVC6Q201C01B00	1.05	.79	.71
250	490-2751-ND	PVC6E251C01B00	490-2774-ND	PVC6G251C01B00	490-2797-ND	PVC6H251C01B00	490-2843-ND	PVC6Q251C01B00	1.05	.79	.71
500	490-2756-ND	PVC6E501C01B00	490-2779-ND	PVC6G501C01B00	490-2802-ND	PVC6H501C01B00	490-2848-ND	PVC6Q501C01B00	1.05	.79	.71
1K	490-2740-ND	PVC6E102C01B00	490-2763-ND	PVC6G102C01B00	490-2786-ND	PVC6H102C01B00	490-2832-ND	PVC6Q102C01B00	1.05	.79	.71
2K	490-2746-ND	PVC6E202C01B00	490-2769-ND	PVC6G202C01B00	490-2792-ND	PVC6H202C01B00	490-2838-ND	PVC6Q202C01B00	1.05	.79	.71
2.5K	490-2752-ND	PVC6E252C01B00	490-2775-ND	PVC6G252C01B00	490-2798-ND	PVC6H252C01B00	490-2844-ND	PVC6Q252C01B00	1.05	.79	.71
5K	490-2757-ND	PVC6E502C01B00	490-2780-ND	PVC6G502C01B00	490-2803-ND	PVC6H502C01B00	490-2849-ND	PVC6Q502C01B00	1.05	.79	.71
10K	490-2741-ND	PVC6E103C01B00	490-2764-ND	PVC6G103C01B00	490-2787-ND	PVC6H103C01B00	490-2833-ND	PVC6Q103C01B00	1.05	.79	.71
20K	490-2747-ND	PVC6E203C01B00	490-2770-ND	PVC6G203C01B00	490-2793-ND	PVC6H203C01B00	490-2839-ND	PVC6Q203C01B00	1.05	.79	.71
25K	490-2753-ND	PVC6E253C01B00	490-2776-ND	PVC6G253C01B00	490-2799-ND	PVC6H253C01B00	490-2845-ND	PVC6Q253C01B00	1.05	.79	.71
50K	490-2758-ND	PVC6E503C01B00	490-2781-ND	PVC6G503C01B00	490-2804-ND	PVC6H503C01B00	490-2850-ND	PVC6Q503C01B00	1.05	.79	.71
100K	490-2742-ND	PVC6E104C01B00	490-2765-ND	PVC6G104C01B00	490-2788-ND	PVC6H104C01B00	490-2834-ND	PVC6Q104C01B00	1.05	.79	.71
200K	490-2748-ND	PVC6E204C01B00	490-2771-ND	PVC6G204C01B00	490-2794-ND	PVC6H204C01B00	490-2840-ND	PVC6Q204C01B00	1.05	.79	.71
250K	490-2754-ND	PVC6E254C01B00	490-2777-ND	PVC6G254C01B00	490-2800-ND	PVC6H254C01B00	490-2846-ND	PVC6Q254C01B00	1.05	.79	.71
500K	490-2759-ND	PVC6E504C01B00	490-2782-ND	PVC6G504C01B00	490-2805-ND	PVC6H504C01B00	490-2851-ND	PVC6Q504C01B00	1.05	.79	.71
1M	490-2743-ND	PVC6E105C01B00	490-2766-ND	PVC6G105C01B00	490-2789-ND	PVC6H105C01B00	490-2835-ND	PVC6Q105C01B00	1.05	.79	.71
2M	490-2749-ND	PVC6E205C01B00	490-2772-ND	PVC6G205C01B00	490-2795-ND	PVC6H205C01B00	490-2841-ND	PVC6Q205C01B00	1.05	.79	.71
5M	490-2760-ND	PVC6E505C01B00	490-2783-ND	PVC6G505C01B00	490-2806-ND	PVC6H505C01B00	490-2852-ND	PVC6Q505C01B00	1.05	.79	.71

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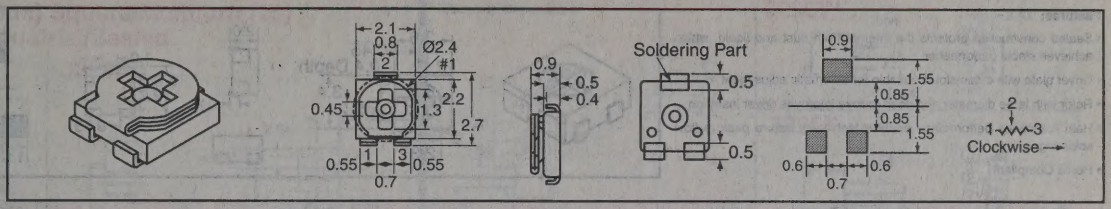
SMD Open Type Trimmer Potentiometers 2mm PVZ2 Series

Dim. in mm

atures:
old plated termination achieve a gh density PCB mounting
ross-shaped driver slot allows r in-process automatic adjust- ent and it provides superior ad- stability
pecial resin substrate allow high eak temperature for reflow sold- ing



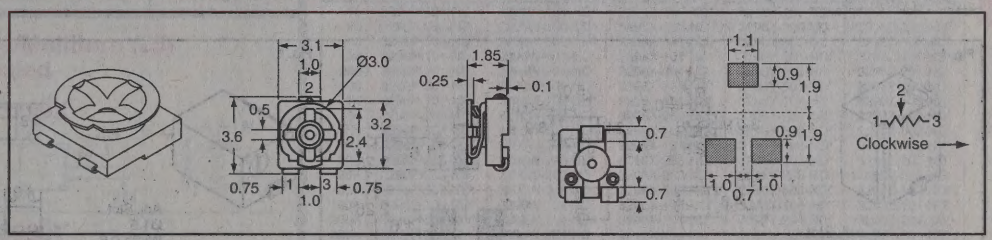
Power Rating (W)	Soldering Method	Number of Turns (Effective Rotation Angle)	Total Resistance Value	TCR (ppm/°C)	Digi-Key Part No.	Cut Tape Pricing 5	10	100	Digi-Key Part No.	Tape & Reel Pricing 3,000	Murata Part No.
			500 ohm ± 30%	± 500	490-2041-1-ND	.76	1.28	11.18	490-2041-2-ND	75.96/M	PVZ2A501A01R00
			1K ohm ± 30%	± 500	490-2031-1-ND	.76	1.28	11.18	490-2031-2-ND	75.96/M	PVZ2A102A01R00
1(50°C)	Reflow	1 (240°±10°)	2K ohm ± 30%	± 500	490-2035-1-ND	.76	1.28	11.18	490-2035-2-ND	75.96/M	PVZ2A202A01R00
			3K ohm ± 30%	± 500	490-2038-1-ND	.76	1.28	11.18	490-2038-2-ND	75.96/M	PVZ2A302A01R00
			5K ohm ± 30%	± 500	490-2042-1-ND	.76	1.28	11.18	490-2042-2-ND	75.96/M	PVZ2A502A01R00
			10K ohm ± 30%	± 500	490-2032-1-ND	.76	1.28	11.18	490-2032-2-ND	75.96/M	PVZ2A103A01R00
			20K ohm ± 30%	± 500	490-2036-1-ND	.76	1.28	11.18	490-2036-2-ND	75.96/M	PVZ2A203A01R00
1(50°C)	Reflow	1 (240°±10°)	30K ohm ± 30%	± 500	490-2039-1-ND	.76	1.28	11.18	490-2039-2-ND	75.96/M	PVZ2A303A01R00
			50K ohm ± 30%	± 500	490-2043-1-ND	.76	1.28	11.18	490-2043-2-ND	75.96/M	PVZ2A503A01R00
			100K ohm ± 30%	± 500	490-2033-1-ND	.76	1.28	11.18	490-2033-2-ND	75.96/M	PVZ2A104A01R00
			200K ohm ± 30%	± 500	490-2037-1-ND	.76	1.28	11.18	490-2037-2-ND	75.96/M	PVZ2A204A01R00
			300K ohm ± 30%	± 500	490-2040-1-ND	.76	1.28	11.18	490-2040-2-ND	75.96/M	PVZ2A304A01R00
1(50°C)	Reflow	1 (240°±10°)	500K ohm ± 30%	± 500	490-2044-1-ND	.76	1.28	11.18	490-2044-2-ND	75.96/M	PVZ2A504A01R00
			1M ohm ± 30%	± 500	490-2034-1-ND	.76	1.28	11.18	490-2034-2-ND	75.96/M	PVZ2A105A01R00

MD Open Type Trimmer Potentiometers 3mm PVZ3 Series

Dim. in mm

F

tures:
xcellent solderability characteristics are achieved a special plating techniques on each termination
pecially designed substrate prevents wicking of x onto the top of the part body
nlarged bottom termination enhance soldering rength while reducing the necessary land area quired promoting high-density PCB mounting
nnel shaped adjustment slot allows for in-process tomatic adjustment
andard position of driver plate is adjusted at the nter
oducts meets Pb-free

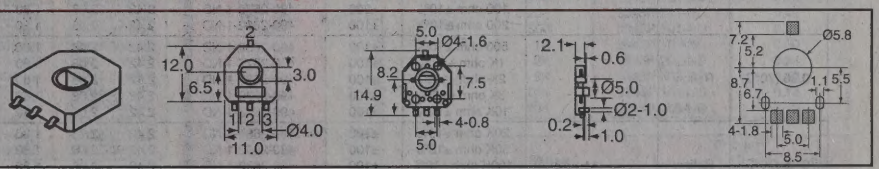


Power Rating (W)	Soldering Method	Number of Turns (Effective Rotation Angle)	Total Resistance Value	TCR (ppm/°C)	Digi-Key Part No.	Cut Tape Pricing 5	10	100	Digi-Key Part No.	Tape & Reel Pricing 2,000	Murata Part No.
			200 ohm ±30%	±500	490-2018-1-ND	.55	.94	8.16	490-2018-2-ND	55.42/M	PVZ3A201A01R00
			300 ohm ±30%	±500	490-2023-1-ND	.55	.94	8.16	490-2023-2-ND	55.42/M	PVZ3A301A01R00
1 (50°C)	Reflow	1 (230° ±10°)	500 ohm ±30%	±500	490-2027-1-ND	.55	.94	8.16	490-2027-2-ND	55.42/M	PVZ3A501A01R00
			1K ohm ±30%	±500	490-2014-1-ND	.55	.94	8.16	490-2014-2-ND	55.42/M	PVZ3A102A01R00
			2K ohm ±30%	±500	490-2019-1-ND	.55	.94	8.16	490-2019-2-ND	55.42/M	PVZ3A202A01R00
			3K ohm ±30%	±500	490-2024-1-ND	.55	.94	8.16	490-2024-2-ND	55.42/M	PVZ3A302A01R00
			5K ohm ±30%	±500	490-2028-1-ND	.55	.94	8.16	490-2028-2-ND	55.42/M	PVZ3A502A01R00
1 (50°C)	Reflow	1 (230° ±10°)	10K ohm ±30%	±500	490-2015-1-ND	.55	.94	8.16	490-2015-2-ND	55.42/M	PVZ3A103A01R00
			20K ohm ±30%	±500	490-2020-1-ND	.55	.94	8.16	490-2020-2-ND	55.42/M	PVZ3A203A01R00
			30K ohm ±30%	±500	490-2025-1-ND	.55	.94	8.16	490-2025-2-ND	55.42/M	PVZ3A303A01R00
			50K ohm ±30%	±500	490-2029-1-ND	.55	.94	8.16	490-2029-2-ND	55.42/M	PVZ3A503A01R00
			100K ohm ±30%	±500	490-2016-1-ND	.55	.94	8.16	490-2016-2-ND	55.42/M	PVZ3A104A01R00
1 (50°C)	Reflow	1 (230° ±10°)	200K ohm ±30%	±500	490-2021-1-ND	.55	.94	8.16	490-2021-2-ND	55.42/M	PVZ3A204A01R00
			300K ohm ±30%	±500	490-2026-1-ND	.55	.94	8.16	490-2026-2-ND	55.42/M	PVZ3A304A01R00
			500K ohm ±30%	±500	490-2030-1-ND	.55	.94	8.16	490-2030-2-ND	55.42/M	PVZ3A504A01R00
			1M ohm ±30%	±500	490-2017-1-ND	.55	.94	8.16	490-2017-2-ND	55.42/M	PVZ3A105A01R00
1 (50°C)	Reflow	1 (230° ±10°)	2M ohm ±30%	±500	490-2022-1-ND	.55	.94	8.16	490-2022-2-ND	55.42/M	PVZ3A205A01R00

ngle Sensing Potentiometer SMD Dust-Proof Type 12mm PVS1 Series

Dim. in mm

tures:
ust-proof construction
ompliant to high peak temperature reflow soldering
xcellent resistance materials and high reliability wiper achieves M cycles
formation thru-hole rotor enables to select any kind of gear shape
tra-thin size (2.1mm height)
old plated terminals without lead

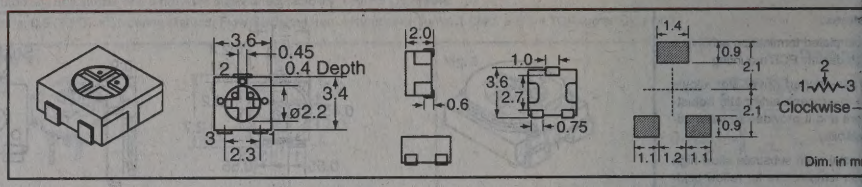


Total Resistance Value	Linearity (%)	Effective Rotational Angle	TCR	Rotational Life	Digi-Key Part No.	Pricing 1	10	100	Murata Part No.
0k ohm ±30%	±2	333.3° (Ref.)	±500 ppm/°C	1M cycles	490-2400-ND	1.18	10.77	100.40	SV01A103AEA01B00

SMD Sealed Type Trimmer Potentiometers 3mm - PVG3 Series

Features:

- Sealed construction protects the internal from dust and liquid, which achieves stable performance
- Driver plate with cross-slot is suitable for automatic adjustment
- Rotor with large diameter and deep groove improves driver insertion
- Heat resistance performance enables high temperature peak re-flow soldering
- RoHS Compliant



Power Rating (W)	Soldering Method	Number of Turns (Effective Rotation Angle)	Total Resistance Value	TCR (ppm/°C)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 1,000	Murata Part No.
0.25 (70°C)	Reflow	1 (210° ±10)	10 ohm ±20%	±250	490-2641-1-ND	.80	.68	.59	490-2641-2-ND	399.51	PVG3A100C01R0
			20 ohm ±20%	±250	490-2647-1-ND	.80	.68	.59	490-2647-2-ND	399.51	PVG3A200C01R0
			50 ohm ±20%	±250	490-2653-1-ND	.80	.68	.59	490-2653-2-ND	399.51	PVG3A500C01R0
			100 ohm ±20%	±250	490-2642-1-ND	.80	.68	.59	490-2642-2-ND	399.51	PVG3A101C01R0
			200 ohm ±20%	±100	490-2648-1-ND	.80	.68	.59	490-2648-2-ND	399.51	PVG3A201C01R0
0.25 (70°C)	Reflow	1 (210° ±10)	500 ohm ±20%	±100	490-2654-1-ND	.80	.68	.59	490-2654-2-ND	399.51	PVG3A501C01R0
			1K ohm ±20%	±100	490-2643-1-ND	.80	.68	.59	490-2643-2-ND	399.51	PVG3A102C01R0
			2K ohm ±20%	±100	490-2649-1-ND	.80	.68	.59	490-2649-2-ND	399.51	PVG3A202C01R0
			5K ohm ±20%	±100	490-2655-1-ND	.80	.68	.59	490-2655-2-ND	399.51	PVG3A502C01R0
			10K ohm ±20%	±100	490-2644-1-ND	.80	.68	.59	490-2644-2-ND	399.51	PVG3A103C01R0
0.25 (70°C)	Reflow	1 (210° ±10)	20K ohm ±20%	±100	490-2650-1-ND	.80	.68	.59	490-2650-2-ND	399.51	PVG3A203C01R0
			50K ohm ±20%	±100	490-2656-1-ND	.80	.68	.59	490-2656-2-ND	399.51	PVG3A503C01R0
			100K ohm ±20%	±100	490-2645-1-ND	.80	.68	.59	490-2645-2-ND	399.51	PVG3A104C01R0
			200K ohm ±20%	±100	490-2651-1-ND	.80	.68	.59	490-2651-2-ND	399.51	PVG3A204C01R0
			500K ohm ±20%	±100	490-2657-1-ND	.80	.68	.59	490-2657-2-ND	399.51	PVG3A504C01B0
0.25 (70°C)	Reflow	1 (210° ±10)	1M ohm ±20%	±100	490-2646-1-ND	.80	.68	.59	490-2646-2-ND	399.51	PVG3A105C01R0
			2M ohm ±20%	±100	490-2652-1-ND	.80	.68	.59	490-2652-2-ND	399.51	PVG3A205C01R0

F

SMD Sealed Type Trimmer Potentiometers Multi-Turn - PVG5 Series

Features: • High resolution resulting from 11-turns design enables precise adjustment • Compatible with VPS reflow soldering method • Compatible with ultrasonic cleaning • Clutch mechanism prevents excessive w rotation • RoHS Compliant

Fig. 1

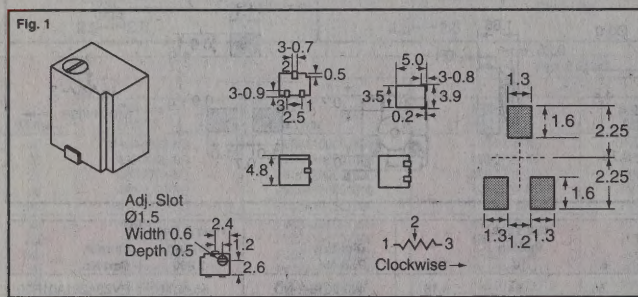


Fig. 2

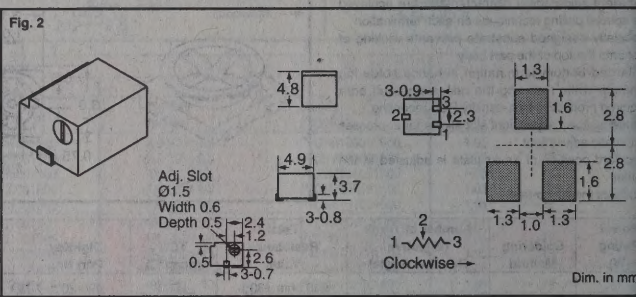


Fig.	Power Rating (W)	Soldering Method	Number of Turns (Effective Rotation Angle)	Total Resistance Value	TCR (ppm/°C)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Size	Pricing	Murata Part No.
1	0.25 (70°C)	Reflow	11	10 ohm ±10%	±200	490-2658-1-ND	2.42	2.08	1.80	490-2658-2-ND	250	311.00	PVG5A100C01R0
				20 ohm ±10%	±200	490-2664-1-ND	2.42	2.08	1.80	490-2664-2-ND	250	311.00	PVG5A200C01R0
				50 ohm ±10%	±200	490-2670-1-ND	2.19	1.88	1.63	490-2670-2-ND	250	281.88	PVG5A500C01R0
				100 ohm ±10%	±200	490-2659-1-ND	2.42	2.08	1.80	490-2659-2-ND	250	311.00	PVG5A101C01R0
				200 ohm ±10%	±100	490-2665-1-ND	2.42	2.08	1.80	490-2665-2-ND	250	311.00	PVG5A201C01R0
	0.25 (70°C)	Reflow	11	500 ohm ±10%	±100	490-2671-1-ND	2.42	2.08	1.80	490-2671-2-ND	250	311.00	PVG5A501C01R0
				1K ohm ±10%	±100	490-2660-1-ND	2.42	2.08	1.80	490-2660-2-ND	250	311.00	PVG5A102C01R0
				2K ohm ±10%	±100	490-2666-1-ND	2.42	2.08	1.80	490-2666-2-ND	250	311.00	PVG5A202C01R0
				5K ohm ±10%	±100	490-2672-1-ND	2.42	2.08	1.80	490-2672-2-ND	250	311.00	PVG5A502C01R0
				10K ohm ±10%	±100	490-2661-1-ND	2.42	2.08	1.80	490-2661-2-ND	250	311.00	PVG5A103C01R0
	0.25 (70°C)	Reflow	11	20K ohm ±10%	±100	490-2667-1-ND	2.42	2.08	1.80	490-2667-2-ND	250	311.00	PVG5A203C01R0
				50K ohm ±10%	±100	490-2673-1-ND	2.42	2.08	1.80	490-2673-2-ND	250	311.00	PVG5A503C01R0
				100K ohm ±10%	±100	490-2662-1-ND	2.42	2.08	1.80	490-2662-2-ND	250	311.00	PVG5A104C01R0
				200K ohm ±10%	±100	490-2668-1-ND	2.42	2.08	1.80	490-2668-2-ND	250	311.00	PVG5A204C01R0
				500K ohm ±10%	±100	490-2674-1-ND	2.42	2.08	1.80	490-2674-2-ND	250	311.00	PVG5A504C01R0
	0.25 (70°C)	Reflow	11	1M ohm ±10%	±100	490-2663-1-ND	2.42	2.08	1.80	490-2663-2-ND	250	311.00	PVG5A105C01R0
				2M ohm ±10%	±100	490-2669-1-ND	2.42	2.08	1.80	490-2669-2-ND	250	311.00	PVG5A205C01R0
2	0.25 (70°C)	Reflow	11	10 ohm ±10%	±200	490-2675-1-ND	2.42	2.08	1.80	490-2675-2-ND	500	621.99	PVG5H100C01R0
				20 ohm ±10%	±200	490-2681-1-ND	2.42	2.08	1.80	490-2681-2-ND	500	621.99	PVG5H200C01R0
				50 ohm ±10%	±200	490-2687-1-ND	2.19	1.88	1.63	490-2687-2-ND	500	563.76	PVG5H500C01R0
				100 ohm ±10%	±200	490-2676-1-ND	2.42	2.08	1.80	490-2676-2-ND	500	621.99	PVG5H101C01R0
				200 ohm ±10%	±100	490-2682-1-ND	2.42	2.08	1.80	490-2682-2-ND	500	621.99	PVG5H201C01R0
	0.25 (70°C)	Reflow	11	500 ohm ±10%	±100	490-2688-1-ND	2.42	2.08	1.80	490-2688-2-ND	500	621.99	PVG5H501C01R0
				1K ohm ±10%	±100	490-2677-1-ND	2.42	2.08	1.80	490-2677-2-ND	500	621.99	PVG5H102C01R0
				2K ohm ±10%	±100	490-2683-1-ND	2.42	2.08	1.80	490-2683-2-ND	500	621.99	PVG5H202C01R0
				5K ohm ±10%	±100	490-2689-1-ND	2.42	2.08	1.80	490-2689-2-ND	500	621.99	PVG5H502C01R0
				10K ohm ±10%	±100	490-2678-1-ND	2.42	2.08	1.80	490-2678-2-ND	500	621.99	PVG5H103C01R0
	0.25 (70°C)	Reflow	11	20K ohm ±10%	±100	490-2684-1-ND	2.42	2.08	1.80	490-2684-2-ND	500	621.99	PVG5H203C01R0
				50K ohm ±10%	±100	490-2690-1-ND	2.42	2.08	1.80	490-2690-2-ND	500	621.99	PVG5H503C01R0
				100K ohm ±10%	±100	490-2679-1-ND	2.42	2.08	1.80	490-2679-2-ND	500	621.99	PVG5H104C01R0
				200K ohm ±10%	±100	490-2685-1-ND	2.42	2.08	1.80	490-2685-2-ND	500	621.99	PVG5H204C01R0
				500K ohm ±10%	±100	490-2691-1-ND	2.42	2.08	1.80	490-2691-2-ND	500	621.99	PVG5H504C01R0
	0.25 (70°C)	Reflow	11	1M ohm ±10%	±100	490-2680-1-ND	2.42	2.08	1.80	490-2680-2-ND	500	621.99	PVG5H105C01R0
				2M ohm ±10%	±100	490-2686-1-ND	2.42	2.08	1.80	490-2686-2-ND	500	621.99	PVG5H205C01R0

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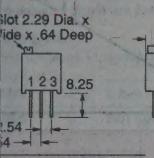
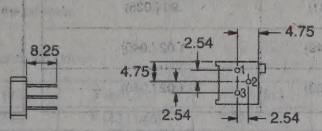
BOURNS Trimmer Potentiometers

RIES 3/8" (9.52mm) Square/Multiturn (25) 2 Cermet/Industrial/Sealed

2W



3292P



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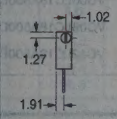
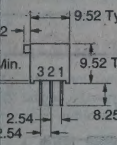
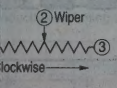






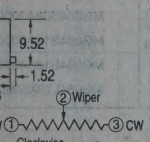
Resistance Tolerance: ±10% std. **Insulation Resistance:** 500vdc. 1,000 megohms min. **Effective Travel:** 25 turns nom. **Power Rating** (400 volts max.): 85°C — 0.5 watt; 150°C — 0 watt. **Temperature Range:** –65°C to +150°C. **Temperature Coefficient:** ±100 ppm/°C. **Load Life:** 1,000 hours 0.5 watt @ 85°C (2% ΔTR; CRV, 3% or 3 ohms, whichever is greater). **Rotational Life:** 200 cycles (2% ΔTR; CRV, 3% or 3 ohms, whichever is greater). **Torque:** 5.0 oz-in. max. **Mechanical Stops:** Wiper idles.

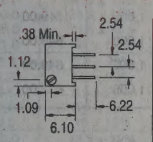
Res. (Ohms)	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.
100	3292P-101-ND	3292W-101-ND	3292X-101-ND
200	3292P-201-ND	3292W-201-ND	3292X-201-ND
500	3292P-501-ND	3292W-501-ND	3292X-501-ND
1K	3292P-102-ND	3292W-102-ND	3292X-102-ND
2K	3292P-202-ND	3292W-202-ND	3292X-202-ND
5K	3292P-502-ND	3292W-502-ND	3292X-502-ND
10K	3292P-103-ND	3292W-103-ND	3292X-103-ND
20K	3292P-203-ND	3292W-203-ND	3292X-203-ND
50K	3292P-503-ND	3292W-503-ND	3292X-503-ND
100K	3292P-104-ND	3292W-104-ND	3292X-104-ND
200K	3292P-204-ND	3292W-204-ND	3292X-204-ND
500K	3292P-504-ND	3292W-504-ND	3292X-504-ND
1M	3292P-105-ND	3292W-105-ND	3292X-105-ND

Series	Pricing 1	10	50
3292P/3292W/3292X	15.51	141.00	606.30

RIES 3/8" (9.52mm) Square/Multiturn (25) 9 Cermet/Industrial/Sealed

9





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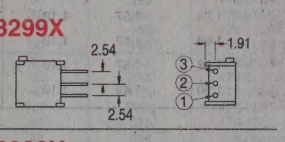

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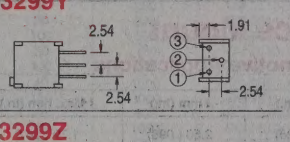
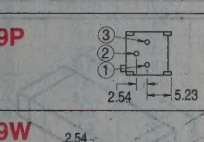


9P



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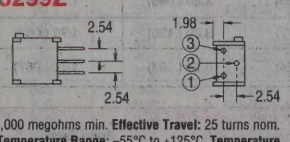
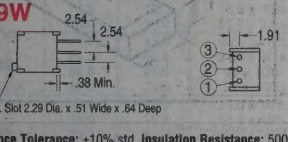


9W



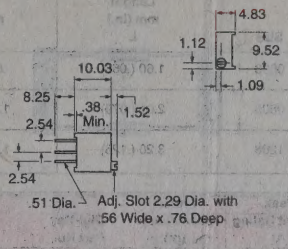
Resistance Tolerance: ±10% std. **Insulation Resistance:** 500vdc. 1,000 megohms min. **Effective Travel:** 25 turns nom. **Rating** (300 volts max.): 70°C — 0.5 watt; 125°C — 0 watt. **Temperature Range:** –55°C to +125°C. **Temperature ent:** ±100ppm/°C. **Load Life:** 1,000 hours 0.5 watt @ 70°C (3% ΔTR; CRV, 3% or 3 ohms, whichever is greater). **al Life:** 200 cycles (4% ΔTR; CRV, 3% or 3 ohms, whichever is greater). **Torque:** 3.0 oz-in. max. **Mechanical** Viper idles.

s. ms)	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.
10	3299P-100-ND	3299W-100-ND	3299X-100-ND	3299Y-100-ND	3299Z-100-ND
20	3299P-200-ND	3299W-200-ND	3299X-200-ND	3299Y-200-ND	3299Z-200-ND
50	3299P-500-ND	3299W-500-ND	3299X-500-ND	3299Y-500-ND	3299Z-500-ND
00	3299P-101-ND	3299W-101-ND	3299X-101-ND	3299Y-101-ND	3299Z-101-ND
00	3299P-201-ND	3299W-201-ND	3299X-201-ND	3299Y-201-ND	3299Z-201-ND
00	3299P-501-ND	3299W-501-ND	3299X-501-ND	3299Y-501-ND	3299Z-501-ND
K	3299P-102-ND	3299W-102-ND	3299X-102-ND	3299Y-102-ND	3299Z-102-ND
2K	3299P-202-ND	3299W-202-ND	3299X-202-ND	3299Y-202-ND	3299Z-202-ND
5K	3299P-502-ND	3299W-502-ND	3299X-502-ND	3299Y-502-ND	3299Z-502-ND
0K	3299P-103-ND	3299W-103-ND	3299X-103-ND	3299Y-103-ND	3299Z-103-ND
0K	3299P-203-ND	3299W-203-ND	3299X-203-ND	3299Y-203-ND	3299Z-203-ND
5K	3299P-253-ND	3299W-253-ND	—	3299Y-253-ND	3299Z-253-ND
0K	3299P-503-ND	3299W-503-ND	3299X-503-ND	3299Y-503-ND	3299Z-503-ND
0K	3299P-104-ND	3299W-104-ND	3299X-104-ND	3299Y-104-ND	3299Z-104-ND
0K	3299P-204-ND	3299W-204-ND	3299X-204-ND	3299Y-204-ND	3299Z-204-ND
0K	3299P-254-ND	3299W-254-ND	3299X-254-ND	3299Y-254-ND	3299Z-254-ND
0K	3299P-504-ND	3299W-504-ND	3299X-504-ND	3299Y-504-ND	3299Z-504-ND
M	3299P-105-ND	3299W-105-ND	3299X-105-ND	3299Y-105-ND	3299Z-105-ND
M	3299P-205-ND	3299W-205-ND	3299X-205-ND	3299Y-205-ND	3299Z-205-ND
M	3299P-505-ND	3299W-505-ND	3299X-505-ND	3299Y-505-ND	3299Z-505-ND

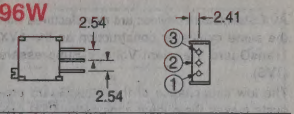
Series	Pricing 1	10	50
3299P/3299Z	3.14	28.50	122.55
3299W/3299X/3299Y	2.92	26.50	113.95

SERIES 3296 3/8" (9,52mm) Square/Multiturn (25) Cermet/Industrial/Sealed

Common Dimensions



3296W



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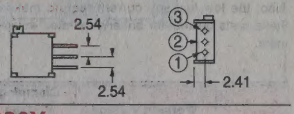

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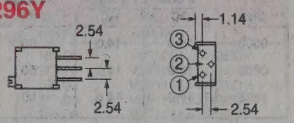

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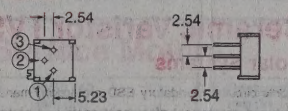
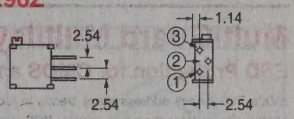


3296Z



Resistance Tolerance: ±10% std. **Insulation Resistance:** 500vdc. 1,000 megohms min. **Effective Travel:** 25 turns nom. **Power Rating** (300 volts max.): 70°C — 0.5 watt; 125°C — 0 watt. **Temperature Range:** -55°C to +125°C. **Temperature Coefficient:** ±100 ppm/°C. **Load Life:** 1,000 hours 0.5 watt @ 70°C (3% ΔTR; CRV, 3% or 3 ohms, whichever is greater). **Rotational Life:** 200 cycles (4% ΔTR; CRV, 3% or 3 ohms, whichever is greater). **Torque:** 3.0 oz-in. max. **Mechanical Stops:** Wiper idles.

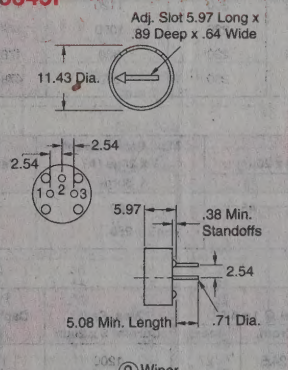
Res. (Ohms)	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.
10	3296P-100-ND*	3296W-100-ND*	3296X-100-ND*	3296Y-100-ND*	—
20	3296P-200-ND	3296W-200-ND	3296X-200-ND	3296Y-200-ND	3296Z-200-ND
50	3296P-500-ND*	3296W-500-ND*	3296X-500-ND*	3296Y-500-ND*	3296Z-500-ND*
100	3296P-101-ND*	3296W-101-ND*	3296X-101-ND*	3296Y-101-ND*	3296Z-101-ND*
200	3296P-201-ND	3296W-201-ND	3296X-201-ND	3296Y-201-ND	3296Z-201-ND
500	3296P-501-ND*	3296W-501-ND*	3296X-501-ND*	3296Y-501-ND*	3296Z-501-ND*
1K	3296P-102-ND*	3296W-102-ND*	3296X-102-ND*	3296Y-102-ND*	3296Z-102-ND*
2K	3296P-202-ND*	3296W-202-ND*	3296X-202-ND*	3296Y-202-ND*	3296Z-202-ND*
5K	3296P-502-ND*	3296W-502-ND*	3296X-502-ND*	3296Y-502-ND*	3296Z-502-ND*
10K	3296P-103-ND*	3296W-103-ND*	3296X-103-ND*	3296Y-103-ND*	3296Z-103-ND*
20K	3296P-203-ND*	3296W-203-ND*	3296X-203-ND*	3296Y-203-ND*	3296Z-203-ND*
25K	3296P-253-ND	3296W-253-ND	3296X-253-ND	3296Y-253-ND	3296Z-253-ND
50K	3296P-503-ND*	3296W-503-ND*	3296X-503-ND*	3296Y-503-ND*	3296Z-503-ND*
100K	3296P-104-ND*	3296W-104-ND*	3296X-104-ND*	3296Y-104-ND*	3296Z-104-ND*
200K	3296P-204-ND*	3296W-204-ND*	3296X-204-ND*	3296Y-204-ND*	3296Z-204-ND*
250K	3296P-254-ND	3296W-254-ND	3296X-254-ND	3296Y-254-ND	3296Z-254-ND
500K	3296P-504-ND*	3296W-504-ND*	3296X-504-ND*	3296Y-504-ND*	3296Z-504-ND*
1M	3296P-105-ND*	3296W-105-ND*	3296X-105-ND*	3296Y-105-ND*	3296Z-105-ND*
2M	3296P-205-ND*	3296W-205-ND*	3296X-205-ND*	3296Y-205-ND*	3296Z-205-ND*
5M	3296P-505-ND	3296W-505-ND	3296X-505-ND	—	3296Z-505-ND

Series	Pricing 1	10	50
3296P/3296Z	2.70	24.50	105.35
3296W/3296X/3296Y	2.50	22.75	97.83

* 3296☐ -KIT-ND *Digi-Key® Series 3296 Trimmer Potentiometer Kit*
5 each of values denoted in series (75 total pieces). Notebook style case and bin storage guide included. For complete number, substitute corresponding letter (P,W,X,Y,Z) for ☐.....**$139.00**

SERIES 3345 1/2" (12.70mm) Round/Single-Turn Wirewound/Industrial/Sealed

3345P



• Industrial wirewound. • 1.0 watt power rating at 70°C. **Resistance Tolerance:** ±5% std. **Adjustment Angle:** 280° nom. **Power Rating:** 70°C — 1 watt; 150°C — 0 watt. **Temperature Range:** –55°C to +150°C. **Temperature Coefficient:** ±50ppm/°C. **Load Life:** 1,000 hours 1 watt @ 70°C. **Rotational Life:** 200 cycles (2% ΔTR; ENR, 500 ohms). **Mechanical Angle:** 310° nom. **Torque:** 5.0 oz-in. max. **Stop Strength:** 15 oz-in. min.

Res. (Ohms)	Digi-Key* Part No.	Nominal Resolution (Percent)
50	3345P-500-ND	0.58
100	3345P-101-ND	0.49
200	3345P-201-ND	0.49
500	3345P-501-ND	0.38
1K	3345P-102-ND	0.30
2K	3345P-202-ND	0.24
5K	3345P-502-ND	0.18
10K	3345P-103-ND	0.14
20K	3345P-203-ND	0.13

Series	Pricing 1	10	50
3345P	9.54	86.75	373.03

* 3345P-KIT-ND *Digi-Key® Series 3345 Trimmer Potentiometers Kit* 5 each of all values (45 total pieces). Notebook style case and bin storage guide included.....**$199.95**

F

Static Guard Multilayer Ceramic Varistor TVS Surface Mount

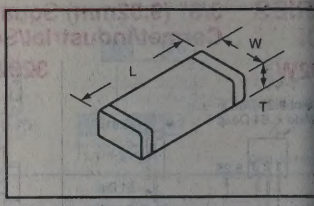
ESD Protection for CMOS and Bi-Polar Systems

AVX StaticGuard devices are manufactured with the same multilayer construction as the AVX TransGuard Transient Voltage Suppressers (TVS).

The low capacitance of the StaticGuard products makes them ideal choices for ESD protection on high speed data lines.

Also, the low leakage current feature makes these parts optimal for battery operated equipment.

Size	Length mm (in.) L	Width mm (in.) W	Max. Thickness mm (in.) T
0603	1.60 (.063)	.80 (.031)	.90 (.035)
0805	2.01 (.079)	1.25 (.049)	1.02 (.040)
1206	3.20 (.126)	1.60 (.063)	1.02 (.040)



Size	Working Voltage DC	Working Voltage AC	Clamping Voltage (V)	Peak Current Rating (A)	Typical Capacitance (pf)	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Tape & Reel* Size	Tape & Reel* Pricing	AVX Part No.
0603	18.0	14.0	50	30	50	478-2503-1-ND	.35	.33	.25	1,000	135.00	VC06LC18X500D
0805	18.0	14.0	50	30	80	478-2515-1-ND	.33	.31	.24	1,000	128.00	VC08LC18A500D
1206	18.0	14.0	50	30	200	478-2530-1-ND	.37	.35	.26	1,000	143.00	VC12LC18A500D

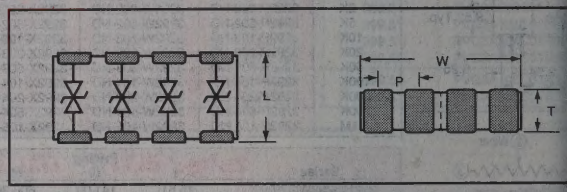
*For Tape and Reel Part Number, change -1-ND to -2-ND

MultiGuard Multilayer Ceramic Varistor TVS Arrays

ESD Protection for CMOS and Bi-Polar Systems

AVX's TVS Arrays address many trends in today's electronic circuits: mandatory ESD protection, mandatory EMI control, signal integrity improvement, PCB downsizing, reduced component placement costs and protection from induced slow speed transient voltages and currents. MultiGuard products offer numerous advantages which include a faster turn-on time (<1nS), repetitive strike capability and space savings.

Size	L mm (in.)	W mm (in.)	T Max. mm (in.)	P mm (in.)
0612	1.60 (.063)	3.20 (.126)	1.22 (.048)	0.76 (.030)



Size	Working Voltage DC	Working Voltage AC	Break-down Voltage	Peak Current Rating (A)	Typical Capacitance (pf)	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Tape & Reel* Size	Tape & Reel* Pricing	AVX Part No.
0612	5.6	4.0	8.5 ± 20%	30	825	478-2541-1-ND	1.68	1.57	1.18	1,000	649.00	MG064S05A150D
	9.0	6.4	12.7 ± 15%	30	550	478-2481-1-ND	1.68	1.57	1.18	1,000	649.00	MG064S09A200D
	14.0	10.0	19.5 ± 12%	30	425	478-2542-1-ND	1.68	1.57	1.18	1,000	649.00	MG064S14A300D
	18.0	14.0	25.5 ± 10%	15	120	478-2543-1-ND	1.68	1.57	1.18	1,000	649.00	MG064S18A400D
	≤18.0	≤14.0	N/A	20	75	478-2480-1-ND	1.60	1.49	1.12	1,000	617.00	MG064L18X500D

*For Tape and Reel Part Number, change -1-ND to -2-ND

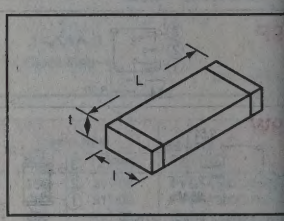
Medium Power Multilayer Varistor TVS Surface Mount

ESD and EMI Protection Devices for Standard, Telecom and Automotive Applications

AVX's TVS devices address many trends in today's electronic circuits: ESD protection, EMI control, signal integrity improvement, PCB downsizing, reduced component placement costs and protection from induced slow speed transient voltages and currents.

Specifications: • Storage Temperature: -55°C ~ 125°C • Operating Temperature: -55°C ~ 125°C

Size	L mm (in.)	I mm (in.)	t Max. mm (in.)
1210	3.20 (.126)	2.50 (.098)	1.70 (.067)
1812	4.50 (.177)	3.20 (.126)	1.70 (.067)
2220	5.70 (.224)	5.00 (.197)	1.70 (.067)



Standard Series

Size	Operating Voltage (Vdc)	Vnominal @ 1mA DC min.	Vnominal @ 1mA DC Nom.	Vnominal @ 1mA DC max.	Max. Peak Current 8 x 20µs	Typical Capacitance @ 1Khz/.5Vrms (pf)	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Tape & Reel* Size	Tape & Reel* Pricing	AVX Part No.
1210	18	21.5	24	26.5	500	3000	478-2536-1-ND	.83	.77	.59	2,000	320.00/M	VJ13MC0180K
	26	29.7	33	36.3	300	1120	478-2537-1-ND	.83	.77	.59	2,000	320.00/M	VJ13MC0260K
	30	35	39	43	220	1020	478-2538-1-ND	.83	.77	.59	2,000	320.00/M	VJ13MC0300K
	48	54.5	60.5	66.5	220	800	478-2539-1-ND	.83	.77	.59	2,000	320.00/M	VJ13MC0480K
	60	67	75	83	250	600	478-2540-1-ND	.83	.77	.59	2,000	320.00/M	VJ13MC0600K

Telecom Series

Size	Operating Voltage Vrms	Operating Voltage Vdc	Vclamp (8 x 20µs) Vp	Vclamp (8 x 20µs) ip	Max. Peak Current 8 x 20µs (A) 1 Surge	Typical Capacitance (pF)	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Tape & Reel* Size	Tape & Reel* Pricing	AVX Part No.
1812	60	85	200	45	400	400	478-2531-1-ND	1.05	.98	.74	1,250	405.00/M	VC14MT0600KE
	95	125	270	45	250	250	478-2532-1-ND	1.05	.98	.74	1,000	405.00	VC14MT0950KE

Automotive Series

Size	Operating Voltage Vrms	Operating Voltage Vdc	Vnominal @ 1mA DC min.	Vnominal @ 1mA DC Nom.	Vnominal @ 1mA DC max.	Max. Peak Current 8 x 20µs	Typical Capacitance (pF)	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Tape & Reel* Size	Tape & Reel* Pricing	AVX Part No.
2220	14	16	22	24.5	27	1200	11000	478-2533-1-ND	1.23	1.14	.86	1,250	473.00/M	VC15MA016
	14	16	22	24.5	27	1200	16000	478-2535-1-ND	1.40	1.30	.98	1,250	540.00/M	VC15PA016
	30	34	42.3	47	51.7	1200	4000	478-2534-1-ND	1.23	1.14	.86	1,250	473.00/M	VC15MA034

*For Tape and Reel Part Number, change -1-ND to -2-ND

More Product Available Online: www.digikey.com

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TransFeed Multilayer Ceramic Varistor TVS

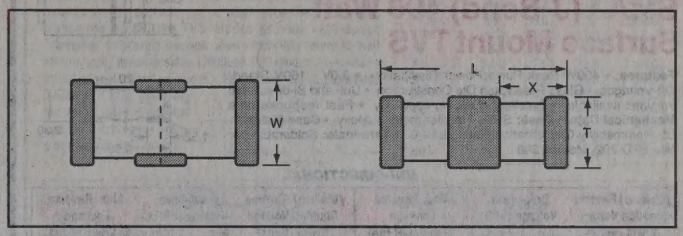
TVS Protection and EMI Attenuation in a Single Chip

s combined the best electrical characteristics of its TransGuard TVS and its Feedthru Capacitors. ngle chip for state-of-the-art overvoltage circuit protection and EMI reduction over a broad range of cies.

que combination of multilayer ceramic construction in a feedthru configuration gives the circuit r a single 0805 chip that responds to transient events faster than any TVS device on the market nd provides significant EMI attenuation when in the off-state.

Applications:

rint ID Circuit • Magnetic Field Circuit • LCD Dashboard Driver



Size	L mm (in.)	W mm (in.)	T mm (in.)	X mm (in.)
0805	2.01 (.079)	1.25 (.049)	1.143 (.045)	1.02 (.040)

e	Working Voltage DC	Working Voltage AC	Break-down Voltage	Peak Current Rating (A)	Typical Capacitance (pf)	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Tape & Reel* Size	Tape & Reel* Pricing	AVX Part No.
	5.6	4.0	8.5 ± 20%	30	800	478-2544-1-ND	.48	.45	.34	1,000	185.00	V2F105A150Y2EDP
	5.6	4.0	8.5 ± 20%	120	2500	478-2482-1-ND	.72	.67	.51	1,000	277.00	V2F105C150Y1FDP
	14.0	10.0	18.5 ± 12%	30	300	478-2483-1-ND	.48	.45	.34	1,000	185.00	V2F114A300Y2EDP
5	14.0	10.0	18.5 ± 12%	120	900	478-2484-1-ND	.72	.67	.51	1,000	277.00	V2F114C300Y1FDP
	18.0	13.0	25.5 ± 10%	30	200	478-2485-1-ND	.48	.45	.34	1,000	185.00	V2F118A400Y2EDP
	18.0	13.0	25.5 ± 10%	120	500	478-2486-1-ND	.72	.67	.51	1,000	277.00	V2F118C400Y1FDP

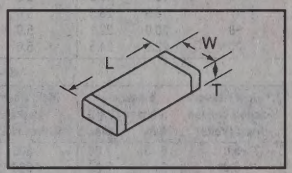
pe and Reel Part Number, change -1-ND to -2-ND

nsGuard Multilayer Ceramic Varistor TVS Surface Mount

X TransGuard Transient Voltage Suppressors ith unique high-energy multilayer construction nts state-of-the-art overvoltage circuit protec-

ic multilayer construction provides protection ltage transients caused by ESD, lightning, nductive switching etc.

Size	Length (L) mm (in.)	Width (W) mm (in.)	Max. Thickness (T) mm (in)
0402	1.00 (.040)	.50 (.020)	.60 (.024)
0603	1.60 (.063)	.80 (.031)	.90 (.035)
0805	2.01 (.079)	1.25 (.049)	1.02 (.040)
1206	3.20 (.126)	1.60 (.063)	1.02 (.040)
1210	3.20 (.126)	2.49 (.098)	1.70 (.067)



ze	Working Voltage DC	Working Voltage AC	Break-down Voltage	Peak Current Rating (A)	Typical Capacitance (pf)	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Tape & Reel* Size	Tape & Reel* Pricing	AVX Part No.
	5.6	4.0	8.5 ± 20%	20	175	478-2545-1-ND	.32	.30	.23	10,000	122.00/M	VC040205X150WP
02	14.0	10.0	18.5 ± 12%	20	100	478-2497-1-ND	.32	.30	.23	10,000	122.00/M	VC040214X300WP
	18.0	13.0	25.5 ± 10%	20	65	478-2546-1-ND	.32	.30	.23	10,000	122.00/M	VC040218X400WP
	3.3	2.3	5.0 ± 20%	30	1450	478-2498-1-ND	.39	.36	.27	1,000	149.00	VC060303A100DP
	14.0	10.0	18.5 ± 12%	30	350	478-2499-1-ND	.39	.36	.27	1,000	149.00	VC060314A300DP
03	18.0	13.0	25.5 ± 10%	30	150	478-2500-1-ND	.39	.36	.27	1,000	149.00	VC060318A400DP
	26.0	18.0	34.5 ± 10%	30	155	478-2501-1-ND	.39	.36	.27	1,000	149.00	VC060326A580DP
	30.0	21.0	41 ± 10%	30	125	478-2502-1-ND	.39	.36	.27	1,000	149.00	VC060330A650DP
	3.3	2.3	5.0 ± 20%	40	1400	478-2504-1-ND	.42	.39	.30	1,000	162.00	VC080503A100DP
	3.3	2.3	5.0 ± 20%	120	5000	478-2505-1-ND	.61	.57	.43	1,000	236.00	VC080503C100DP
05	5.6	4.0	8.5 ± 20%	40	1100	478-2506-1-ND	.39	.36	.27	1,000	149.00	VC080505A150DP
	5.6	4.0	8.5 ± 20%	120	3000	478-2507-1-ND	.46	.43	.32	1,000	176.00	VC080505C150DP
	12.0	8.5	16 ± 15%	40	525	478-2508-1-ND	.39	.36	.27	1,000	149.00	VC080512A250DP
	14.0	10.0	18.5 ± 12%	40	325	478-2509-1-ND	.39	.36	.27	1,000	149.00	VC080514A300DP
	14.0	10.0	18.5 ± 12%	120	900	478-2510-1-ND	.46	.43	.32	1,000	176.00	VC080514C300DP
05	18.0	13.0	25.5 ± 10%	30	225	478-2511-1-ND	.39	.36	.27	1,000	149.00	VC080518A400DP
	18.0	13.0	25.5 ± 10%	100	550	478-2512-1-ND	.46	.43	.32	1,000	176.00	VC080518C400DP
	26.0	18.0	34.5 ± 10%	30	120	478-2513-1-ND	.40	.38	.29	1,000	155.00	VC080526A580DP
	26.0	18.0	34.5 ± 10%	100	250	478-2514-1-ND	.46	.43	.32	1,000	176.00	VC080526C580DP
	5.6	4.0	8.5 ± 20%	40	1200	478-2516-1-ND	.53	.49	.37	1,000	203.00	VC120605A150DP
	5.6	4.0	8.5 ± 20%	150	3000	478-2517-1-ND	.70	.65	.49	1,000	270.00	VC120605D150DP
06	14.0	10.0	18.5 ± 12%	40	600	478-2518-1-ND	.53	.49	.37	1,000	203.00	VC120614A300DP
	14.0	10.0	18.5 ± 12%	150	1050	478-2519-1-ND	.70	.65	.49	1,000	270.00	VC120614D300DP
	18.0	13.0	25.5 ± 10%	30	350	478-2520-1-ND	.53	.49	.37	1,000	203.00	VC120618A400DP
	18.0	13.0	25.5 ± 10%	150	900	478-2521-1-ND	.70	.65	.49	1,000	270.00	VC120618D400DP
	26.0	18.0	34.5 ± 10%	120	500	478-2522-1-ND	.70	.65	.49	1,000	270.00	VC120626D580DP
06	30.0	21.0	41 ± 10%	120	400	478-2523-1-ND	.70	.65	.49	1,000	270.00	VC120630D650DP
	48.0	34.0	62 ± 10%	100	225	478-2524-1-ND	.70	.65	.49	1,000	270.00	VC120648D101DP
	18.0	13.0	25.5 ± 10%	500	3100	478-2525-1-ND	1.09	1.01	.76	1,000	419.00	VC121018J390DP
	26.0	18.0	34.5 ± 10%	300	2150	478-2526-1-ND	.95	.88	.67	1,000	365.00	VC121026H560DP
10	30.0	21.0	39.0 ± 10%	280	1975	478-2527-1-ND	.95	.88	.67	1,000	365.00	VC121030H620DP
	48.0	34.0	62 ± 10%	250	500	478-2528-1-ND	.95	.88	.67	1,000	365.00	VC121048H101DP
	60.0	42.0	76 ± 10%	250	400	478-2529-1-ND	.95	.88	.67	1,000	365.00	VC121060J121DP

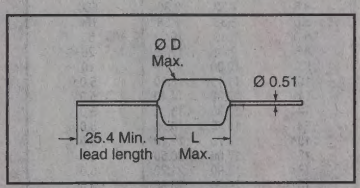
pe and Reel Part Number, change -1-ND to -2-ND

nsGuard Multilayer Ceramic Varistor TVS Axial Lead

X TransGuard Transient Voltage Suppressors ith unique high-energy multilayer construction nts state-of-the-art overvoltage circuit protec-

ic multilayer construction provides protection ltage transients caused by ESD, lightning, nductive switching etc.

Size	Max. Length (L) mm (in.)	Max. Diameter (D) mm (in.)
1000	4.32 (.170)	2.54 (.100)
2000	4.83 (.190)	3.56 (.140)

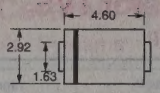


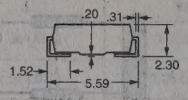
Working Voltage DC	Working Voltage AC	Break-down Voltage	Peak Current Rating (A)	Typical Capacitance (pf)	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Tape & Reel* Size	Tape & Reel* Pricing	AVX Part No.
5.6	4.0	8.5 ±20%	40	1000	478-2487-1-ND	.36	.32	.29	1,000	216.00	VA100005A150DL
5.6	4.0	8.5 ± 20%	150	2800	478-2488-1-ND	.41	.36	.33	1,000	243.00	VA100005D150DL
14.0	10.0	18.5 ± 12%	40	325	478-2489-1-ND	.36	.32	.29	1,000	216.00	VA100014A300DL
14.0	10.0	18.5 ± 12%	150	1100	478-2490-1-ND	.41	.36	.33	1,000	243.00	VA100014D300DL
18.0	13.0	25.5 ± 10%	40	350	478-2491-1-ND	.36	.32	.29	1,000	216.00	VA100018A400DL
18.0	13.0	25.5 ± 10%	150	900	478-2492-1-ND	.41	.36	.33	1,000	243.00	VA100018D400DL
26.0	18.0	34.5 ± 10%	120	650	478-2493-1-ND	.41	.36	.33	1,000	243.00	VA100026D580DL
30.0	21.0	41.0 ±10%	120	550	478-2494-1-ND	.41	.36	.33	1,000	243.00	VA100030D650DL
48.0	34.0	62.0 ± 10%	100	200	478-2495-1-ND	.41	.36	.33	1,000	243.00	VA100048D101DL
60.0	42.0	76.0 ± 10%	300	400	478-2496-1-ND	.56	.50	.45	1,000	338.00	VA200060K121DL

pe and Reel Part Number, change -1-ND to -2-ND

DIODES INCORPORATED

SMAJ (J-Bend) 400 Watt Surface Mount TVS





Features: • 400W Peak Pulse Power Dissipation • 5.0V - 150V Stand-Off Voltages • Glass Passivated Die Construction • Uni- and Bi-directional versions available • Excellent clamping capability • Fast response time **Mechanical Data:** • **Case:** SMA, Transfer molded epoxy • **Case Material:** UL Flammability Classification Rating 94V-0 • **Terminals:** Solderable per MIL-STD-202, Method 208

UNI-DIRECTIONAL

(Value) Reverse Standoff Voltage Vrwm (Volts)	Breakdown Voltage (VBR) Min.	Max.	Max. Reverse Leakage @ Vrwm IR (µA)	(Value) Reverse Standoff Voltage Vrwm (Volts)	Breakdown Voltage (VBR) Min.	Max.	Max. Reverse Leakage @ Vrwm IR (µA)
5.0	6.40	7.00	800	22	24.4	26.9	5.0
6.0	6.67	7.37	800	24*	26.7	29.5	5.0
6.5	7.22	7.98	500	26	28.9	25.3	5.0
7.0*	7.78	8.60	200	28	31.1	34.4	5.0
7.5	8.33	9.21	100	30	33.3	36.8	5.0
8.0	8.89	9.83	50	33	36.7	40.6	5.0
8.5	9.44	10.4	10	36	40.0	44.2	5.0
10*	11.1	12.3	5.0	43	47.8	52.8	5.0
11	12.2	13.5	5.0	60	66.7	73.7	5.0
12	13.3	14.7	5.0	70*	77.8	86.0	5.0
14	15.6	17.2	5.0	85	94.4	104	5.0
15	16.7	18.5	5.0	100	111	123	5.0
17	18.9	20.9	5.0	110	122	135	5.0
18	20.0	22.1	5.0	120	133	147	5.0
20*	22.2	24.5	5.0	150	167	185	5.0

BI-DIRECTIONAL

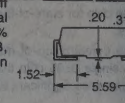
(Value) Reverse Standoff Voltage Vrwm (Volts)	Breakdown Voltage (VBR) Min.	Max.	Max. Reverse Leakage @ Vrwm IR (µA)	(Value) Reverse Standoff Voltage Vrwm (Volts)	Breakdown Voltage (VBR) Min.	Max.	Max. Reverse Leakage @ Vrwm IR (µA)
5.0	6.40	7.00	800	18	20.0	22.1	5.0
6.0*	6.67	7.37	800	20	22.2	24.5	5.0
6.5	7.22	7.98	500	22	24.4	26.9	5.0
7.0	7.78	8.60	200	24	26.7	29.5	5.0
8.0	8.89	9.83	50	26	28.9	25.3	5.0
8.5	9.44	10.4	10	28	31.1	34.4	5.0
10	11.1	12.3	5.0	30	33.3	36.8	5.0
11	12.2	13.5	5.0	33	36.7	40.6	5.0
12	13.3	14.7	5.0	36	40.0	44.2	5.0
13	14.4	15.9	5.0	40	44.4	49.1	5.0
14	15.6	17.2	5.0	43	47.8	52.8	5.0
15*	16.7	18.5	5.0	75	83.3	92.1	5.0
16*	17.8	19.7	5.0	78	86.7	95.8	5.0
17	18.9	20.9	5.0				

* Denotes available Lead Free/RoHS Compliant values

Description	Voltage Range (Value) See Chart	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 5,000
Uni-Directional	5.0 - 150	SMAJ(Value)ADICT-ND	.68	.55	.41	SMAJ(Value)ADITR-ND	217.00/M
	7.0 - 70	SMAJ(Value)A-FDICT-ND◊	.77	.62	.46	SMAJ(Value)A-FDITR-ND◊	230.00/M
Bi-Directional	5.0 - 78	SMAJ(Value)CADICT-ND	.76	.61	.46	SMAJ(Value)CADITR-ND	242.00/M
	6.0 - 16	SMAJ(Value)CA-FDICT-ND◊	.86	.69	.52	SMAJ(Value)CA-FDITR-ND◊	257.00/M

◊ ***NEW!*** Lead Free/RoHS Compliant

SMBJ (J-Bend) 600 Watt Surface Mount TVS



Features: • 600W Peak Pulse Power Dissipation • 5.0V - 170V Stand-Off Voltages • Glass Passivated Die Construction • Uni- and Bi-directional versions available • Excellent clamping capability • Fast response time • 100% tested at rated peak pulse power **Mechanical Data:** • **Case:** SMB, Transfer molded epoxy • **Case Material:** UL Flammability Classification Rating 94V-0 • **Terminals:** Solderable per MIL-STD-202, Method 208

UNI-DIRECTIONAL

(Value) Reverse Standoff Voltage Vrwm (Volts)	Breakdown Voltage (VBR) Min.	Max.	Max. Reverse Leakage @ Vrwm IR (µA)	(Value) Reverse Standoff Voltage Vrwm (Volts)	Breakdown Voltage (VBR) Min.	Max.	Max. Le @ Vrw
5.0*	6.40	7.23	800	28	31.10	35.80	
6.0	6.67	7.67	800	30	33.30	38.30	
6.5	7.22	9.14	1000	33	36.70	42.20	
7.0	7.78	8.95	200	36	40.00	46.00	
7.5	8.33	9.58	100	40	44.40	51.10	
8.5	9.44	10.82	10	43	47.80	54.90	
9.0	10.00	11.50	5.0	48	53.30	61.30	
10	11.1	12.8	5.0	54	60.00	69.00	
11	12.20	14.40	5.0	58	64.40	74.60	
12	13.3	15.3	5.0	64	71.10	81.80	
13	14.4	16.5	5.0	70	77.80	89.50	
14	15.60	17.90	5.0	78	86.70	99.70	
15	16.7	19.2	5.0	85	94.40	108.20	
16	17.80	20.50	5.0	100	111.0	128.00	
17	18.9	21.7	5.0	110	122.0	140.00	
18	20.0	24.4	5.0	120	133.0	153.00	
22	24.40	28.00	5.0	130	144.0	165.50	
20	22.2	25.5	5.0	150	167.0	192.50	
24	26.7	30.7	5.0	160	178.0	205.00	
26	28.9	35.3	5.0	170	189.0	217.50	

BI-DIRECTIONAL

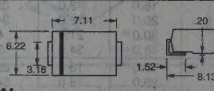
(Value) Reverse Standoff Voltage Vrwm (Volts)	Breakdown Voltage (VBR) Min.	Max.	Max. Reverse Leakage @ Vrwm IR (µA)	(Value) Reverse Standoff Voltage Vrwm (Volts)	Breakdown Voltage (VBR) Min.	Max.	Max. Le @ Vrw
5.0	6.40	7.23	800	28	31.10	35.80	
6.0	6.67	7.67	800	30	33.30	38.30	
6.5	7.22	9.14	1000	33	36.70	42.20	
7.0	7.78	8.95	200	36	40.00	46.00	
7.5	8.33	9.58	100	40	44.40	51.10	
8.0	8.89	10.23	50	45	50.00	57.50	
8.5	9.44	10.82	10	51	56.70	65.20	
9.0	10.00	11.50	5.0	54	60.00	69.00	
10	11.1	12.8	5.0	58	64.40	74.60	
11	12.20	14.40	5.0	60*	66.70	76.70	
12	13.3	15.3	5.0	64	71.10	81.80	
13	14.4	16.5	5.0	70	77.80	89.50	
14*	15.60	17.90	5.0	75	83.30	95.80	
15	16.7	19.2	5.0	78*	86.70	99.70	
16	17.80	20.50	5.0	85	94.40	108.20	
17	18.9	21.7	5.0	90	100.0	115.50	
18	20.0	24.4	5.0	100	111.0	128.00	
20	22.2	25.5	5.0	110	122.0	140.00	
22	24.40	28.00	5.0	150	167.0	192.50	
24	26.7	30.7	5.0	160	178.0	205.00	
26*	28.90	33.20	5.0	170	189.0	217.50	

* Denotes available Lead Free/RoHS Compliant values

Description	Volt. Range (Value) See Chart	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Ta
Uni-Directional	5.0 - 170	SMBJ(Value)ADICT-ND	.89	.71	.54	SMBJ(Value)ADITR-ND	
	5.0	SMBJ(Value)A-FDICT-ND◊	1.01	.88	.68	SMBJ(Value)A-FDITR-ND◊	
Bi-Directional	5.0 - 170	SMBJ(Value)CADICT-ND	.96	.76	.58	SMBJ(Value)CADITR-ND	
	14 - 78	SMBJ(Value)CA-FDICT-ND◊	1.09	.95	.73	SMBJ(Value)CA-FDITR-ND◊	

◊ ***NEW!*** Lead Free/RoHS Compliant

SMCJ (J-Bend) 1500 Watt Surface Mount TVS



Features: • 1500W Peak Pulse Power Dissipation • 5.0V - 170V Stand-Off Voltages • Glass Passivated Die Construction • Uni- and Bi-directional versions available • Excellent clamping capability • Fast response time **Mechanical Data:** • **Case:** SMC, Transfer molded epoxy • **Case Material:** UL Flammability Classification Rating 94V-0 • **Terminals:** Solderable per MIL-STD-202, Method 208

UNI-DIRECTIONAL

(Value) Reverse Standoff Voltage Vrwm (Volts)	Breakdown Voltage (VBR) Min.	Max.	Max. Reverse Leakage @ Vrwm IR (µA)	(Value) Reverse Standoff Voltage Vrwm (Volts)	Breakdown Voltage (VBR) Min.	Max.	Max. Reverse Leakage @ Vrwm IR (µA)
5.0	6.40	7.25	1000	30	33.30	38.30	5.0
6.0	6.67	7.67	1000	33	36.70	42.20	5.0
6.5	7.22	8.30	500	36	40.00	46.00	5.0
7.5	8.33	9.58	100	40*	44.40	51.10	5.0
8.0	8.89	10.23	50	43*	47.80	54.90	5.0
8.5	9.44	10.82	20	45	50.00	57.50	5.0
9.0	10.00	11.50	10	51†	56.70	65.20	5.0
10	11.10	12.80	5.0	54	60.00	69.00	5.0
11	12.20	14.40	5.0	60	66.70	76.70	5.0
12	13.30	15.30	5.0	64*	71.10	81.80	5.0
13	14.40	16.50	5.0	70	77.80	89.50	5.0
15*	16.70	19.20	5.0	75	83.30	95.80	5.0
16	17.80	20.50	5.0	78	86.70	99.70	5.0
17	18.90	21.70	5.0	85	94.40	108.20	5.0
18	20.00	23.30	5.0	100	111.00	128.00	5.0
20*	22.20	25.50	5.0	110	122.00	140.50	5.0
22	24.40	28.00	5.0	130	144.00	165.50	5.0
24	26.70	30.70	5.0	150	167.00	192.50	5.0
26	28.90	33.20	5.0	160	178.00	205.00	5.0
28	31.10	35.80	5.0	170	189.00	217.50	5.0

BI-DIRECTIONAL

(Value) Reverse Standoff Voltage Vrwm (Volts)	Breakdown Voltage (VBR) Min.	Max.	Max. Reverse Leakage @ Vrwm IR (µA)	(Value) Reverse Standoff Voltage Vrwm (Volts)	Breakdown Voltage (VBR) Min.	Max.	Max. Le @ Vrw
5.0	6.40	7.25	1000	24	26.70	30.70	
6.0	6.67	7.67	1000	28	31.10	35.80	
6.5	7.22	8.30	500	30	33.30	38.30	
7.5	8.33	9.58	100	33	36.70	42.20	
8.0	8.89	10.23	50	36*	40.00	46.00	
8.5	9.44	10.82	20	40	44.40	51.10	
9.0	10.00	11.50	10	43	47.80	54.90	
10	11.10	12.80	5.0	45*	50.00	57.50	
11	12.20	14.40	5.0	48	53.30	61.30	
12	13.30	15.30	5.0	51	56.70	65.20	
13	14.40	16.50	5.0	54	60.00	69.00	
14	15.60	17.90	5.0	58	64.40	74.60	
15*	16.70	19.20	5.0	70	77.80	89.50	
16	17.80	20.50	5.0	75	83.30	95.80	
17	18.90	21.70	5.0	78	86.70	99.70	
18	20.00	23.30	5.0	85	94.40	108.20	
20	22.20	25.50	5.0	170	189.00	217.50	

* Denotes available Lead Free/RoHS Compliant values † Only available in Lead Free/RoHS Compliant

Description	Voltage Range (Value) See Chart	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Prici 3,00
1500 Watt Uni-Directional	5.0 - 170	SMCJ(Value)ADICT-ND	1.25	.99	.76	SMCJ(Value)ADITR-ND	494.00
	15 - 64	SMCJ(Value)A-FDICT-ND◊	1.43	1.24	.95	SMCJ(Value)A-FDITR-ND◊	505.00
1500 Watt Bi-Directional	5.0 - 170	SMCJ(Value)CADICT-ND	1.39	1.10	.84	SMCJ(Value)CADITR-ND	546.00
	15 - 45	SMCJ(Value)CA-FDICT-ND◊	1.58	1.37	1.05	SMCJ(Value)CA-FDITR-ND◊	559.00

◊ ***NEW!*** Lead Free/RoHS Compliant

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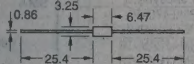


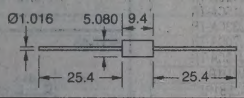
(Value) Nom. Breakdown Voltage	Reverse Standoff Voltage V_R (Volts)	Breakdown Voltage V_{BR} (V) @ I_T Min.	Max.	Max. Reverse Leakage I_R @ V_R (µA)
6.8	5.8	6.45	7.14	1000.0
7.5	6.4	7.13	7.88	500.0
9.1	7.78	8.65	9.55	50.0
10	8.55	9.5	10.5	10.0
12	10.2	11.40	12.6	5.0
13	11.1	12.4	13.7	5.0
15	12.8	14.3	15.8	5.0
16	13.6	15.2	16.8	5.0
18	15.3	17.1	18.9	5.0
20	17.1	19.0	21.0	5.0
24	20.5	22.8	25.2	5.0
27	23.1	25.7	28.4	5.0
30	25.6	28.5	31.5	5.0
33	28.2	31.4	34.7	5.0
68	58.1	64.6	71.4	5.0

iption	Voltage Range (Value) See Chart	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 5,000
ectional	6.8 - 68	P6KE(Value)ALFCT-ND	.33	.30	.25	P6KE(Value)ALFTR-ND*	124.50/M
ctional	6.8 - 68	P6KE(Value)CALFCT-ND	.37	.34	.28	P6KE(Value)CALFTR-ND	139.50/M

piece Tape and Reel for values 6.8, 15 and 68 **RoHS Compliant**

KE Series – 1500 Watt Axial TVS

s:
passivated junction • Low clamping factor rectional and bi-directional • 100% surge tested ed



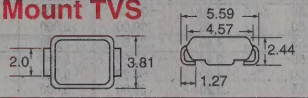
(Value) Nom. Breakdown Voltage	Reverse Standoff Voltage V_R (Volts)	Breakdown Voltage V_{BR} (V) @ I_T Min.	Max.	Max. Reverse Leakage I_R @ V_R (µA)
6.8*	5.8	6.45	7.14	1000.0
7.5	6.4	7.13	7.88	500.0
10	8.55	9.5	10.5	10.0
15	12.8	14.3	15.8	5.0
30	25.6	28.5	31.5	5.0

ption	Voltage Range (Value) See Chart	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 1,500
ectional	6.8 - 30	1.5KE(Value)ALFCT-ND	.59	.53	.45	1.5KE(Value)ALFTR-ND	220.50/M
ctional	6.8 - 30	1.5KE(Value)CALFCT-ND	.65	.59	.49	1.5KE(Value)CALFTR-ND	243.00/M

0 piece Tape and Reel **RoHS Compliant**

BJ Series – 600 Watt Surface Mount TVS

s:
passivated junction • Uni-directional and bi-directional • Jedec designed to meet SM assembly needs • Low lead inductance surge tested



ription	Voltage Range (Value) See Chart	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 3,000
d Unidirectional	5.0 - 36	SMBJ(Value)ALFCT-ND	.36	.33	.27	SMBJ(Value)ALFTR-ND	135.00/M
d Bidirectional	5.0 - 36	SMBJ(Value)CALFCT-ND	.40	.36	.30	SMBJ(Value)CALFTR-ND	150.00/M

Compliant

yristors – BOD™

e Thyristor Suppression Devices (SiBOD™ Avalanche s) offer the highest quality and performance for on of sensitive telecommunications circuitry.

row-bar" potentially dangerous transients – switching o ground and dissipating the voltage to zero. This h handles more energy than TVS diode "clamping".

1
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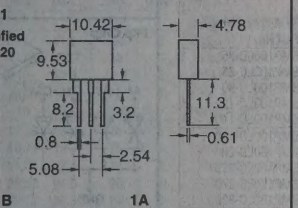
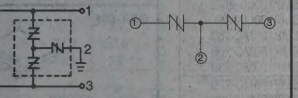


B 1A



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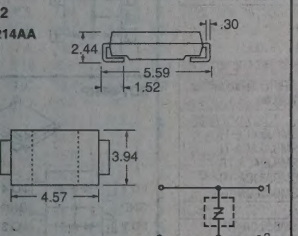
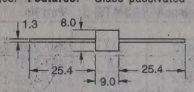
214AA



5KP Series – 5000 Watt Axial TVS

When no problems exist, TVS diodes are invisible to the circuits they're protecting. But when potentially damaging transients occur, the TVS diodes provide high-speed "clamping" to prevent damage- after which they return to their electronically invisible state. Littelfuse TVS diodes are available in industry-standard packages. **Features:** • Glass passivated junction • Low clamping factor • Uni-directional and bi-directional • 100% surge tested • UL listed



(Value) Nom. Breakdown Voltage	Reverse Standoff Voltage V_R (Volts)	Breakdown Voltage V_{BR} (V) @ I_T Min.	Max.	Max. Reverse Leakage I_R @ V_R (µA)
5.0	5.0	6.40	7.00	5000.0
6.0	6.0	6.67	7.37	5000.0
10	10.0	11.1	12.3	15.0
15	15.0	16.7	18.5	10.0
24	24.0	26.7	29.5	10.0
30	30.0	33.3	36.8	10.0
33	33.0	36.7	40.6	10.0
36	36.0	40.0	44.2	10.0
40	40.0	44.4	49.1	10.0
43	43.0	47.8	52.8	10.0
70	70.0	77.0	86.0	10.0

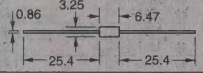
Description	Tol.	Voltage Range (Value) See Chart	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T & R Pricing 1,000
Unidirectional	5%	5.0 - 70.0	5KP(Value)ALFCT-ND	3.24	2.92	2.44	5KP(Value)ALFTR-ND	1216.50
Bidirectional	10%	5.0	5KP5.0CLFCT-ND*	3.46	3.12	2.60	5KP5.0CLFTR-ND*	1039.20
Bidirectional	5%	6.0 - 70.0	5KP(Value)CALFCT-ND	3.57	3.22	2.68	5KP(Value)CALFTR-ND	1338.00

* 800 piece Tape and Reel **RoHS Compliant**

SA Series – 500 Watt Axial TVS

RoHS Compliant

Improved 500W TVS diodes that can handle 1.0 watt steady state with improved reverse leakage characteristics. 100% surge tested. Use for applications requiring surge protection of sensitive electronic components. Marking: Cathode band – positive terminal (Uni-directional only); device code and logo.



(Value) Nom. Breakdown Voltage	Reverse Standoff Voltage V_R (Volts)	Breakdown Voltage V_{BR} (V) @ I_T Min.	Max.	Max. Reverse Leakage I_R @ V_R (µA)
5.0	5.0	6.40	7.00	600.0
6.8	6.0	6.67	7.37	600.0
12	12.0	13.3	14.7	3.0
15	15.0	16.7	18.5	3.0
16	16.0	17.8	19.7	3.0
33	33.0	36.7	40.6	3.0

Description	Voltage Range (Value) See Chart	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 4,000
Unidirectional	5.0 - 33	SA(Value)ALFCT-ND	.39	.35	.30	SA(Value)ALFTR-ND*	130.95/M
Bidirectional	6.0 - 33	SA(Value)CALFCT-ND	.43	.39	.33	SA(Value)CALFTR-ND§	160.50/M

*5000 piece Tape and Reel for values 6.0, 16 and 33 §5000 piece Tape and Reel for SA15CALFTR-ND

(Value) Reverse Standoff Voltage V_R (Volts)	Breakdown Volt. V_{BR} (V) @ I_T Min.	Max.	(Value) Reverse Standoff Voltage V_R (Volts)	Breakdown Volt. V_{BR} (V) @ I_T Min.	Max.
5.0	6.40	7.25	15	16.70	19.20
6.0	6.67	7.67	18	20.00	23.30
6.5	7.22	8.30	20	22.20	25.50
7.0	7.78	8.95	22	24.40	28.00
7.5	8.33	9.58	24	26.70	30.70
10	11.10	12.80	26	28.90	33.20
12	13.30	15.30	28	31.10	35.80
13	14.40	16.50	30	33.30	38.30
14	15.60	17.90	33	36.70	42.20
			36	40.00	46.00

Fig.	Package	Reverse Standoff Voltage (V_R)	Maximum Breakover Voltage (V_{BO})@I_{BO}	Peak Pulse Current (A)	Minimum Holding Current (I_H)	Digi-Key Part No.	1	10	100	500	Littelfuse Part No.
1A	TO-220	25	40	100	150	CR0602AA-ND	1.33	1.18	1.07	.89	CR0602AA
		25	40	150	150	CR0602AB-ND	1.47	1.31	1.18	.98	CR0602AB
		25	40	200	150	CR0602AC-ND	1.63	1.45	1.31	1.09	CR0602AC
1A	TO-220	65	95	100	150	CR1602AA-ND	1.33	1.18	1.07	.89	CR1602AA
		65	95	150	150	CR1602AB-ND	1.47	1.31	1.18	.98	CR1602AB
		65	95	200	150	CR1602AC-ND	1.63	1.45	1.31	1.09	CR1602AC
1A	TO-220	140	180	100	150	CR3002AA-ND	1.33	1.18	1.07	.89	CR3002AA
		140	180	150	150	CR3002AB-ND	1.47	1.31	1.18	.98	CR3002AB
		140	180	200	150	CR3002AC-ND	1.63	1.45	1.31	1.09	CR3002AC
1A	TO-220	275	350	100	150	CR6002AA-ND	1.33	1.18	1.07	.89	CR6002AA
		275	350	150	150	CR6002AB-ND	1.47	1.31	1.18	.98	CR6002AB
		275	350	200	150	CR6002AC-ND	1.63	1.45	1.31	1.09	CR6002AC
1B	TO-220	130	180	50	150	CR1553AA-ND	1.76	1.57	1.41	1.18	CR1553AA
		130	180	100	150	CR1553AB-ND	2.03	1.81	1.63	1.36	CR1553AB
		130	180	500	150	CR1553AC-ND	2.35	2.09	1.88	1.57	CR1553AC
1B	TO-220	200	270	50	150	CR2353AA-ND	1.76	1.57	1.41	1.18	CR2353AA
		200	270	100	150	CR2353AB-ND	2.03	1.81	1.63	1.36	CR2353AB
		200	270	500	150	CR2353AC-ND	2.35	2.09	1.88	1.57	CR2353AC
1B	TO-220	270	350	100	150	CR3203AA-ND	1.76	1.57	1.41	1.18	CR3203AA
		270	350	150	150	CR3203AB-ND	2.03	1.81	1.63	1.36	CR3203AB
		270	350	200	150	CR3203AC-ND	2.35	2.09	1.88	1.57	CR3203AC

Fig.	Package	Rev. Standoff Voltage (V_R)	Max. Breakover Volt. (V_{BO})@I_{BO}	Peak Pulse Current (A)	Min. Holding Current (I_H)	Digi-Key Part No.	1	10	100	500	Digi-Key Part No.	T & R Pricing 3,000
2	DO-214AA	140	180	100	150	CR1500SACT-ND	1.05	.84	.63	.42	CR1500SATR-ND	273.00/M
		140	180	150	150	CR1500SBCT-ND	1.25	1.00	.75	.50	CR1500SBTR-ND	323.70/M
		140	180	200	150	CR1500SCCT-ND	1.33	1.07	.80	.54	CR1500SCTR-ND	345.80/M
2	DO-214AA	190	260	100	150	CR2300SACT-ND	1.05	.84	.63	.42	CR2300SATR-ND	273.00/M
		190	260	150	150	CR2300SBCT-ND	1.25	1.00	.75	.50	CR2300SBTR-ND	323.70/M
		190	260	200	150	CR2300SCCT-ND	1.33	1.07	.80	.54	CR2300SCTR-ND	345.80/M
2	DO-214AA	25	40	100	150	CR0300SACT-ND	1.05	.84	.63	.42	—	—
		25	40	150	150	CR0300SBCT-ND	1.25	1.00	.75	.50	CR0300SBTR-ND	323.70/M
		25	40	200	150	CR0300SCCT-ND	1.33	1.07	.80	.54	CR0300SCTR-ND	345.80/M
2	DO-214AA	320	400	100	150	CR3500SACT-ND	1.05	.84	.63	.42	CR3500SATR-ND	273.00/M
		320	400	150	150	CR3500SBCT-ND	1.25	1.00	.75	.50	CR3500SBTR-ND	323.70/M
		320	400	200	150	CR3500SCCT-ND	1.33	1.07	.80	.54	CR3500SCTR-ND	345.80/M
2	DO-214AA	58	77	100	150	CR0640SACT-ND	1.05	.84	.63	.42	CR0640SATR-ND	273.00/M
		58	77	150	150	CR0640SBCT-ND	1.25	1.00	.75	.50	CR0640SBTR-ND	323.70/M
		58	77	200	150	CR0640SCCT-ND	1.33	1.07	.80	.54	CR0640SCTR-ND	345.80/M
2	DO-214AA	65	88	100	150	CR0720SACT-ND	1.05	.84	.63	.42	CR0720SATR-ND	273.00/M
		65	88	150	150	CR0720SBCT-ND	1.25	1.00	.75	.50	CR0720SBTR-ND	323.70/M
		65	88	200	150	CR0720SCCT-ND	1.33	1.07	.80	.54	CR0720SCTR-ND	345.80/M
2	DO-214AA	220	300	100	150	CR2600SACT-ND	1.05	.84	.63	.42	—	—
		220	300	150	150	CR2600SBCT-ND	1.25	1.00	.75	.50	CR2600SBTR-ND	323.70/M
		220	300	200	150	CR2600SCCT-ND	1.33	1.07	.80	.54	CR2600SCTR-ND	345.80/M
2	DO-214AA	275	350	100	150	CR3100SACT-ND	1.05	.84	.63	.42	—	—
		275	350	150	150	CR3100SBCT-ND	1.25	1.00	.75	.50	CR3100SBTR-ND	323.70/M
		275	350	200	150	CR3100SCCT-ND	1.33	1.07	.80	.54	CR3100SCTR-ND	345.80/M

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Transient Voltage Suppressors

Transil™ Series

Package	Pw (W)	Breakdown Voltage Minimum	Nominal	Maximum	VRM (V)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Tape and Reel† Size	Pricing	STMicroelectronics Part No.
Bi-Directional												
DO-201	1500	380	400	420	342	497-2909-1-ND*	1.65	14.30	110.00	600	298.80	1.5KE400CA
CB429	1500	6.45	6.8	7.14	5.8	497-3751-1-ND*	.79	6.30	47.25	600	194.40	1.5KE6V8A
DO-15	600	44.7	47	49.4	40.2	497-4288-1-ND ***NEW!***	.55	4.25	30.60	6,000	136.00/M	P6KE47CARL
		143	150	158	128	497-4285-1-ND ***NEW!***	.50	4.00	30.00	6,000	140.00/M	P6KE150CARL
SMA	400	13.3	—	—	12	497-2996-1-ND	.68	5.40	40.50	5,000	203.00/M	SMAJ12CA-TR
		16.7	—	—	15	497-2997-1-ND	.50	4.00	30.00	5,000	140.00/M	SMAJ15CA-TR
		36.7	—	—	33	497-2998-1-ND	.65	5.00	36.00	5,000	160.00/M	SMAJ33CA-TR
		44.4	—	—	40	497-3718-1-ND	.55	4.25	30.60	5,000	136.00/M	SMAJ40CA-TR
		77.8	—	—	70	497-4291-1-ND ***NEW!***	.50	4.00	30.00	5,000	140.00/M	SMAJ70CA-TR
SMB	600	—	—	—	22	497-3719-1-ND	1.08	7.80	60.00	2,500	342.00/M	SMP100-LC-25
		—	—	—	15	497-3721-1-ND	1.43	12.35	95.00	2,500	505.00/M	SMP75-8
		—	—	—	6	497-3720-1-ND	1.31	11.38	87.50	2,500	466.00/M	SMP100-LC-8
		—	—	—	133	497-3722-1-ND	.95	7.56	56.70	2,500	299.00/M	SMTPA100
		—	—	—	240	497-3723-1-ND	.86	6.84	51.30	2,500	271.00/M	SMTPA180
		—	—	—	360	497-3724-1-ND	.99	7.92	55.00	2,500	314.00/M	SMTPA270
	600	6.45	6.8	7.14	5.8	497-2995-1-ND	.55	3.96	29.70	2,500	165.00/M	SM6T6V8CA
		14.3	15	15.8	12.8	497-2994-1-ND	.55	4.40	33.00	2,500	165.00/M	SM6T15CA
		20.9	22	23.1	18.8	497-3507-1-ND	1.08	8.64	64.80	2,500	342.00/M	SM6T22CA
		11.1	—	—	10	497-3000-1-ND	.99	7.92	59.40	5,000	297.00/M	SMBJ10CA-TR
	600	13.3	—	—	12	497-3002-1-ND	.55	4.25	30.60	2,500	145.00/M	SMBJ12CA-TR
		16.7	—	—	15	497-3004-1-ND	.55	4.25	30.60	2,500	145.00/M	SMBJ15CA-TR
		36.7	—	—	33	497-3005-1-ND	.55	4.25	30.60	2,500	145.00/M	SMBJ33CA-TR
		77.8	—	—	70	497-3770-1-ND	.50	4.00	30.00	2,500	150.00/M	SMBJ70CA-TR
SMC	1500	20	—	—	18	497-4295-1-ND ***NEW!***	.90	7.20	54.00	2,500	285.00/M	SMCJ18CA-TR
8-SOIC A	300	6.51	—	—	5.0	497-3407-1-ND	1.98	16.50	138.60	2,500	858.00/M	ITA6V1U1RL
8-SOIC B	150	25	—	30	24	497-2488-1-ND	1.43	12.35	95.00	2,500	505.00/M	ESDA25B1RL
8-SOIC C	300	6.5	—	—	5.0	497-3408-1-ND	1.98	16.50	138.60	2,500	858.00/M	ITA6V5B1RL
		18	—	—	15	497-3405-1-ND	1.98	16.50	138.60	2,500	858.00/M	ITA18B1RL
		25	—	—	24	497-2686-5-ND‡	1.98	16.50	138.60	—	—	ITA25B1
		25	—	—	24	497-3406-1-ND	1.98	16.50	138.60	2,500	858.00/M	ITA25B1RL
Flip Chip	50	14.2	—	18	12	497-3784-1-ND	.68	5.40	40.50	5,000	203.00/M	ESDA14V2-4BF2
Uni-Directional												
R6	5000	16.6	—	—	15	497-4189-1-ND ***NEW!***	2.10	17.50	147.00	1,000	945.00	BZW50-15RL
DO-15	400	53.2	—	—	47.8	497-4188-1-ND ***NEW!***	.39	3.00	21.60	6,000	96.00/M	BZW04-48RL
	600	31.4	33	24.7	28.2	497-4287-1-ND ***NEW!***	.50	4.00	30.00	6,000	140.00/M	P6KE33ARL
		237	250	263	213	497-4286-1-ND ***NEW!***	.50	4.00	30.00	6,000	140.00/M	P6KE250ARL
SOT-23	300	6.1	—	7.2	5.25	497-2930-1-ND	.55	4.40	33.00	3,000	165.00/M	ESDA6V1L
SMA	400	6.4	—	—	5.0	497-2999-1-ND	.55	3.40	25.50	5,000	136.00/M	SMAJ5.0A-TR
		47.8	—	—	43	497-4290-1-ND ***NEW!***	.50	4.00	30.00	5,000	140.00/M	SMAJ43A-TR
		64.4	—	—	58	497-3508-1-ND	.65	5.20	39.00	5,000	182.00/M	SMAJ58A-TR
		111	—	—	100	497-4289-1-ND ***NEW!***	.50	4.00	30.00	5,000	140.00/M	SMAJ100A-TR
SMB	600	6.7	—	—	6.0	497-3006-1-ND	.65	5.00	36.00	2,500	170.00/M	SMBJ6.0A-TR
		7.2	—	—	6.5	497-3007-1-ND	.65	5.00	36.00	2,500	170.00/M	SMBJ6.5A-TR
		13.3	—	—	12	497-3001-1-ND	.65	5.00	36.00	2,500	170.00/M	SMBJ12A-TR
		16.7	—	—	15	497-3003-1-ND	.65	5.00	36.00	2,500	170.00/M	SMBJ15A-TR
		17.8	—	—	16	497-4293-1-ND ***NEW!***	.50	4.00	30.00	2,500	150.00/M	SMBJ16A-TR
		77.8	—	—	70	497-4294-1-ND ***NEW!***	.50	4.00	30.00	2,500	150.00/M	SMBJ70A-TR
		171	—	—	154	497-4292-1-ND ***NEW!***	.50	4.00	30.00	2,500	150.00/M	SMBJ154A-TR
		17.1	18	18.9	15.3	497-3717-1-ND	.55	4.40	33.00	2,500	165.00/M	SM6T18CA
		28.5	30	31.5	25.6	497-3506-1-ND	1.13	9.75	75.00	2,500	399.00/M	SM6HT30A
SMC	1500	6.7	—	—	6.0	497-4296-1-ND ***NEW!***	.90	7.20	54.00	2,500	285.00/M	SMCJ6.0A-TR
		11.4	12	12.6	10.2	497-3715-1-ND	1.39	12.03	92.50	2,500	492.00/M	SM15T12A
		37.1	39	41.0	33.3	497-3716-1-ND	.95	7.56	56.70	2,500	299.00/M	SM15T39A
8-SOIC A	200	6.1	—	7.2	5.0	497-3403-5-ND‡	1.24	10.73	82.50	—	—	ESDA6V1U1
	200	6.1	—	7.2	5.0	497-3711-1-ND	1.05	9.10	70.00	2,500	372.00/M	ESDA6V1U1RL
SOT-665	30	6.1	—	7.2	3.0	497-3785-1-ND	.60	4.80	36.00	3,000	180.00/M	ESDALC6V1P5
SOT-666IP	30	6.1	—	7.2	3.0	497-3404-1-ND	.52	4.00	28.80	3,000	136.00/M	ESDALC6V1P6

* For Tape and Box Part Number change 1-ND to 3-ND. † For Tape and Reel Part Number change 1-ND to 2-ND. ‡ Tube

NEW! Transient Surge Arrestors - Trisil™ Series - SMB Package

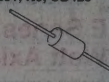
V_{BR} @ I_R Maximum (V)	(µA)	I_{RM} @ V_{RM} Maximum (µA)	(V)	Dynamic V_{BO} Maximum (V)	I_{PP} @ 10/1000µs	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 2,500	STMicroelectronics Part No.
35	5	2	32	55	100	497-4093-1-ND	.98	8.45	65.00	497-4093-2-ND	346.00/M	SMP100LC-35
65	5	2	55	85	100	497-4096-1-ND	.98	8.45	65.00	497-4096-2-ND	346.00/M	SMP100LC-65
90	5	2	81	120	100	497-4097-1-ND	.98	8.45	65.00	497-4097-2-ND	346.00/M	SMP100LC-90
120	5	2	108	155	100	497-4087-1-ND	1.08	8.64	64.80	497-4087-2-ND	342.00/M	SMP100LC-120
140	5	2	126	180	100	497-4088-1-ND	1.08	8.64	64.80	497-4088-2-ND	342.00/M	SMP100LC-140
160	5	2	144	205	100	497-4089-1-ND	1.08	8.64	64.80	497-4089-2-ND	342.00/M	SMP100LC-160
200	5	2	180	255	100	497-4090-1-ND	1.08	8.64	64.80	497-4090-2-ND	342.00/M	SMP100LC-200
230	5	2	207	295	100	497-4091-1-ND	1.08	8.64	64.80	497-4091-2-ND	342.00/M	SMP100LC-230
270	5	2	243	345	100	497-4092-1-ND	1.08	8.64	64.80	497-4092-2-ND	342.00/M	SMP100LC-270
320	5	2	290	400	100	497-4297-1-ND	1.08	8.64	64.80	497-4297-2-ND	342.00/M	SMP100LC-320
360	5	2	325	460	100	497-4094-1-ND	.90	7.80	60.00	497-4094-2-ND	319.00/M	SMP100LC-360
400	5	2	360	540	100	497-4095-1-ND	1.08	8.64	64.80	497-4095-2-ND	319.00/M	SMP100LC-400
160	5	2	144	205	100	497-4298-1-ND	1.08	8.64	64.80	497-4298-2-ND	342.00/M	SMP100MC-160
200	5	2	180	255	100	497-4299-1-ND	1.08	8.64	64.80	497-4299-2-ND	342.00/M	SMP100MC-200
230	5	2	207	295	100	497-4300-1-ND	1.08	8.64	64.80	497-4300-2-ND	342.00/M	SMP100MC-230
270	5	2	243	345	100	497-4301-1-ND	1.08	8.64	64.80	497-4301-2-ND	342.00/M	SMP100MC-270
270	50	2	243	345	80	497-4302-1-ND	1.08	8.64	64.80	497-4302-2-ND	342.00/M	SMP80MC-270

Transient Voltage Suppressors - SMB Package

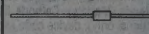
V_{BR} @ I_R Minimum (V)	(mA)	I_{RM} @ V_{RM} Maximum (µA)	(V)	V_{CL} @ I_{PP} 10/1000µs Max. (V)	(A)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 2,500	STMicroelectronics Part No.
600 Watts, Bi-Directional												
6.4	10	800	5.0	9.2	68	497-3145-1-ND	.99	7.92	59.40	497-3145-2-ND	314.00/M	SMBJ5.0CA-TR
7.2	10	500	6.5	11.2	56	497-3146-1-ND	.99	7.92	59.40	497-3146-2-ND	314.00/M	SMBJ6.5CA-TR
26.7	1	1	24	38.9	16	497-3141-1-ND	.55	4.25	30.60	497-3141-2-ND	145.00/M	SMBJ24CA-TR
33.3	1	1	30	48.4	13	497-3142-1-ND	.48	3.42	25.65	497-3142-2-ND	143.00/M	SMBJ30CA-TR
64.4	1	1	58	93.6	6.7	497-3143-1-ND	.55	4.25	30.60	497-3143-2-ND	145.00/M	SMBJ58CA-TR
600 Watts, Uni-Directional												
6.4	10	800	5.0	9.2	68	497-3144-1-ND	.55	4.25	30.60	497-3144-2-ND	145.00/M	SMBJ5.0A-TR
20	1	1	18	29.2	21.5	497-3139-1-ND	.45	3.60	27.00	497-3139-2-ND	170.00/M	SMBJ18A-TR
26.7	1	1	24	38.9	16	497-3140-1-ND	.45	3.60	27.00	497-3140-2-ND	170.00/M	SMBJ24A-TR

Dimensio

DO-201, R6, CB429



DO-15 ***NEW!***



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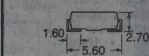

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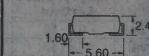

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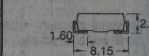

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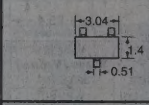
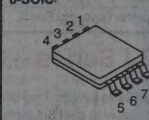
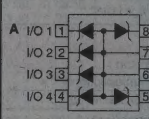
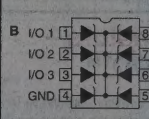
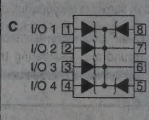


8-SOIC

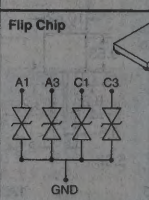








Flip Chip



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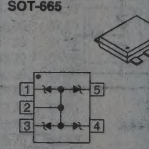

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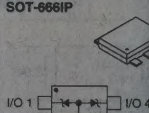

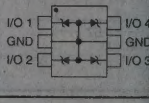

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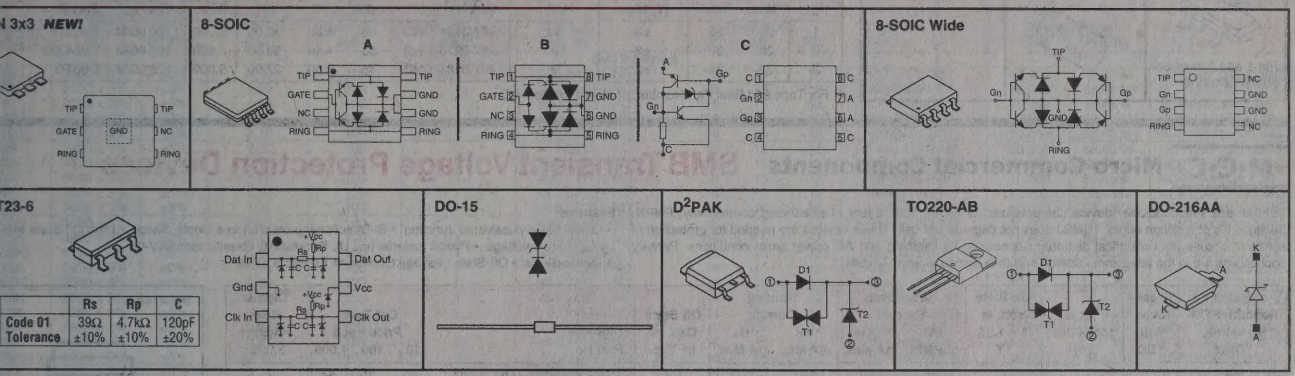
Transient Voltage Suppressors

plication Specific TVS



	Rs	Rp	C
Code 01	39Ω	4.7kΩ	120pF
Tolerance	±10%	±10%	±20%

kage	Description	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Size	Pricing	STMicroelectronics Part No.
N 3x3	Programmable TVS for SLIC Protection	497-4233-1-ND NEW!	1.50	1.25	1.05	497-4233-2-ND NEW!	3,000	650.00/M	LCP152DEERL
DIC A	Programmable TVS for SLIC Protection	497-3781-1-ND	1.05	.91	.70	497-3781-2-ND	2,500	372.00/M	LCP1521SRL
DIC B	Programmable TVS for SLIC Protection	497-2458-1-ND	1.59	1.33	1.12	497-2458-2-ND	2,500	689.00/M	LCP1511DRL
DIC C	Overvoltage and Overcurrent Protection for Telecom Line	497-3780-1-ND	2.04	1.70	1.43	497-3780-2-ND	2,500	884.00/M	LCP3121RL
C Wide	Protection IC for Ringing SLICS	497-2558-5-ND‡	2.70	2.35	1.75	—	—	—	LCP02-150B1
T23-6	EMI Filter and Line Termination for PS/2 Mouse or Keyboard Ports	497-3712-1-ND	1.73	1.50	1.15	497-3712-2-ND	3,000	667.00/M	KBMF01SC6
O-15	TVS 160V/700V	497-3138-1-ND	.90	.72	.54	497-3138-3-ND *	1,000	310.00	PKC-136
PAK	Reversed Battery and Overvoltage Protection	497-2554-5-ND‡	2.70	2.25	1.89	—	—	—	RB040-40G
	Reversed Battery and Overvoltage Protection	497-3714-1-ND	2.70	2.25	1.89	497-3714-2-ND	1,000	1215.00	RB040-40G-TR
20-AB	Reversed Battery and Overvoltage Protection	497-2550-5-ND‡	2.25	1.88	1.58	—	—	—	RB040-40T
216AA	Low Forward Voltage TVS: Transky™	497-3509-1-ND	.94	.82	.63	497-3509-2-ND	12,000	313.00/M	SMTY18AM

o Pack ‡ Tube

G

Semiconductor™

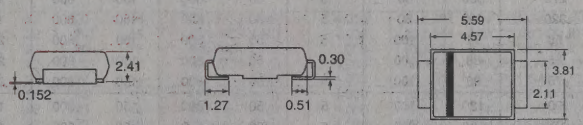
Transient Voltage Suppressors

Dimensions in mm

0 Watt SMB Surface Mount TVS

fication Features: • Peak Power — 600 Watts @ 1ms • Low Leakage < 5μA above 10V • Re- e Time is Typically < 1ns

anical Characteristics: • **Case:** Thermosetting plastic • **Finish:** Corrosion resistant • **Mounting on:** Any • **Bi-Directional:** Polarity band will not be indicated • **Uni-Directional:** Cathode indicated by y band.



Breakdown Voltage V_{BR} Min.	Nom.	Max.	V_{RWM} Min. (V)	I_R @ V_{RWM} (μA)	Digi-Key Part No.	Cut Tape Pricing 10	100	250	Tape and Reel Pricing* 2,500
					600 Watts, Bi-Directional				
11	11.6	9.4	5	P6SMB11CAT3OSCT-ND	3.69	27.69	55.38	138.00/M
11.69	12.27	10	5	1SMB10CAT3OSCT-ND	3.69	27.69	55.38	138.00/M
12	12.6	10.2	5	P6SMB12CAT3OSCT-ND	3.69	27.69	55.38	138.00/M
14.00	14.7	12	5	1SMB12CAT3OSCT-ND	3.69	27.69	55.38	138.00/M
15	15.8	12.8	5	P6SMB15CAT3OSCT-ND	3.69	27.69	55.38	138.00/M
17.58	18.5	15	5	1SMB15CAT3OSCT-ND	3.69	27.69	55.38	138.00/M
18.74	19.7	16	5	1SMB16CAT3OSCT-ND	3.69	27.69	55.38	138.00/M
21.06	22.1	18	5	1SMB18CAT3OSCT-ND	3.69	27.69	55.38	138.00/M
23.37	24.5	20	5	1SMB20CAT3OSCT-ND	3.69	27.69	55.38	138.00/M
28.11	29.5	24	5	1SMB24CAT3OSCT-ND	3.69	27.69	55.38	138.00/M
33	34.7	28.2	5	P6SMB33CAT3OSCT-ND	3.69	27.69	55.38	138.00/M
35.06	36.8	30	5	1SMB30CAT3OSCT-ND	3.69	27.69	55.38	138.00/M
36	37.8	30.8	5	P6SMB36CAT3OSCT-ND	3.69	27.69	55.38	138.00/M
42.11	44.2	36	5	1SMB36CAT3OSCT-ND	3.69	27.69	55.38	138.00/M
					600 Watts, Uni-Directional				
6.7	7.0	5.0	800	1SMB5.0AT3OSCT-ND	2.80	21.00	42.00	119.00/M
6.8	7.14	5.8	5	P6SMB6.8AT3OSCT-ND	3.04	22.77	45.54	129.00/M
7.02	7.37	6.0	800	1SMB6.0AT3OSCT-ND	2.80	21.00	42.00	119.00/M
7.6	7.98	6.5	500	1SMB6.5AT3OSCT-ND	2.80	21.00	42.00	119.00/M
8.19	8.6	7.0	500	1SMB7.0AT3OSCT-ND	2.80	21.00	42.00	119.00/M
9.92	10.4	8.5	10	1SMB8.5AT3OSCT-ND	2.80	21.00	42.00	119.00/M
11.7	12.3	10	5	1SMB10AT3OSCT-ND	2.80	21.00	42.00	119.00/M
13	13.7	11.1	5	P6SMB13AT3OSCT-ND	3.04	22.77	45.54	129.00/M
14	14.7	12	5	1SMB12AT3OSCT-ND	2.80	21.00	42.00	119.00/M
15	15.8	12.8	5	P6SMB15AT3OSCT-ND	3.04	22.77	45.54	129.00/M
15.15	15.9	13	5	1SMB13AT3OSCT-ND	2.80	21.00	42.00	119.00/M
16	16.8	13.6	5	P6SMB16AT3OSCT-ND	3.69	27.69	55.38	138.00/M
17.6	18.5	15	5	1SMB15AT3OSCT-ND	2.80	21.00	42.00	119.00/M
18	18.9	15.3	5	P6SMB18AT3OSCT-ND	3.69	27.69	55.38	138.00/M
18.75	19.7	16	5	1SMB16AT3OSCT-ND	2.80	21.00	42.00	119.00/M
20	21	17.1	5	P6SMB20AT3OSCT-ND	3.04	22.77	45.54	129.00/M

Breakdown Voltage V_{BR} Min.	Nom.	Max.	V_{RWM} Min. (V)	I_R @ V_{RWM} (μA)	Digi-Key Part No.	Cut Tape Pricing 10	100	250	Tape and Reel Pricing* 2,500
20.0	21.05	22.1	18	5	1SMB18AT3OSCT-ND	2.80	21.00	42.00	119.00/M
20.9	22	23.1	18.8	5	P6SMB22AT3OSCT-ND	3.04	22.77	45.54	129.00/M
22.2	23.35	24.5	20	5	1SMB20AT3OSCT-ND	2.80	21.00	42.00	119.00/M
24.4	25.65	26.9	22	5	1SMB22AT3OSCT-ND	2.80	21.00	42.00	119.00/M
25.7	27	28.4	23.1	5	P6SMB27AT3OSCT-ND	3.04	22.77	45.54	129.00/M
26.7	28.1	29.5	24	5	1SMB24AT3OSCT-ND	2.80	21.00	42.00	119.00/M
28.5	30	31.5	25.6	5	P6SMB30AT3OSCT-ND	3.04	22.77	45.54	129.00/M
28.9	30.4	31.9	26	5	1SMB26AT3OSCT-ND	2.80	21.00	42.00	119.00/M
31.1	32.75	34.4	28	5	1SMB28AT3OSCT-ND	2.80	21.00	42.00	119.00/M
31.4	33	34.7	28.2	5	P6SMB33AT3OSCT-ND	3.04	22.77	45.54	129.00/M
33.3	35.05	36.8	30	5	1SMB30AT3OSCT-ND	2.80	21.00	42.00	119.00/M
34.2	36	37.8	30.8	5	P6SMB36AT3OSCT-ND	3.04	22.77	45.54	129.00/M
36.7	38.65	40.6	33	5	1SMB33AT3OSCT-ND	2.80	21.00	42.00	119.00/M
37.1	39	41	33.3	5	P6SMB39AT3OSCT-ND	3.04	22.77	45.54	129.00/M
40.0	42.1	44.2	36	5	1SMB36AT3OSCT-ND	2.80	21.00	42.00	119.00/M
40.9	43	45.2	36.8	5	P6SMB43AT3OSCT-ND	3.04	22.77	45.54	129.00/M
44.4	46.75	49.1	40	5	1SMB40AT3OSCT-ND	2.80	21.00	42.00	119.00/M
47.8	50.3	52.8	43	5	1SMB43AT3OSCT-ND	2.80	21.00	42.00	119.00/M
48.5	51	53.6	43.6	5	P6SMB51AT3OSCT-ND	3.04	22.77	45.54	129.00/M
56.7	59.7	62.7	51	5	1SMB51AT3OSCT-ND	2.80	21.00	42.00	119.00/M
58.9	62	65.1	53	5	P6SMB62AT3OSCT-ND	3.04	22.77	45.54	129.00/M
64.4	67.8	71.2	58	5	1SMB58AT3OSCT-ND	2.80	21.00	42.00	119.00/M
64.6	68	71.4	58.1	5	P6SMB68AT3OSCT-ND	3.04	22.77	45.54	129.00/M
66.7	70.2	73.7	60	5	1SMB60AT3OSCT-ND	2.80	21.00	42.00	119.00/M
77.8	81.9	86	70	5	1SMB70AT3OSCT-ND	2.80	21.00	42.00	119.00/M
94.4	99.2	104	85	5	1SMB85AT3OSCT-ND	3.04	22.77	45.54	129.00/M
133	140	147	120	5	1SMB120AT3OSCT-ND	3.27	24.51	49.02	139.00/M
143	150	158	128	5	P6SMB150AT3OSCT-ND	3.27	24.51	49.02	139.00/M
152	160	168	136	5	P6SMB160AT3OSCT-ND	3.27	24.51	49.02	139.00/M
189	199	209	170	5	1SMB170AT3OSCT-ND	3.27	24.51	49.02	139.00/M
190	200	210	171	5	P6SMB200AT3OSCT-ND	3.27	24.51	49.02	139.00/M

* For Tape and Reel Part Number change CT-ND to TR-ND.

Diacs

Fig. 1 — SOT-23	Fig. 2 — MINIMELF	Fig. 3 — DO-35
Pin 1 and 3 must be shorted together		

Fig.	$V_{(BO)}$ (V) Min.	$V_{(BO)}$ (V) Max.	$V_{(BO)}$ Symmetry (V) Max.	Dynamic Breakback Voltage (V)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Tape & Reel † Size	Pricing	STMicroelectro Part No.
1	28	36	±3	10	497-3148-1-ND	.60	4.80	36.00	3,000	180.00/M	SMDB3
2	28	36	±3	5	497-3275-1-ND	.55	4.40	33.00	2,500	165.00/M	TMMDB3
3	30	34	±2	9	497-3134-1-ND	.45	3.60	27.00	5,000	126.00/M	DB3TG

† For Tape and Reel Part Number, change 1-ND to 2-ND

·M·C·C· Micro Commercial Components — SMB Transient Voltage Protection Devices

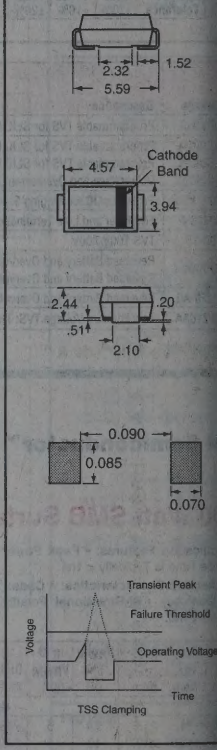
TSMBJ is a semiconductor device characterized of having four layers of alternating conductivity: PNPN. Because it's of a silicon origin, TSMBJ does not degrade per use. These devices are needed for protection of sensitive circuits from electrical disturbances caused by lightning and AC power cross conditions. Primary applications are in the telecommunication and data communication circuits.

Features:
• Oxide-Glass passivated Junction • Bi-Directional protection in a single device • High Off-State imped
Low On-State voltage • Plastic material has UL flammability classification 94V-0
Specifications: • Off-State Leakage Current @ V_{DRM}: 5 I_{DRM}

Rated Repetitive Off-State Volt. V_{DRM}	Break-over Volt. V_{BO}	I_{pp} @ 10/1000us (A)	On-State Volt. @ I_T = 1.0A V_T	Breakover Current I_{BO-} mA Min.	I_{BO+} mA Max.	Holding Current I_{H-} mA Min.	I_{H+} mA Max.	Off-State Cap. C_J pF Typ.	Digi-Key Part No.	Cut Tape Price Each 10	100	1,000	Tape & Reel Pricing† 3,000
58	77	50	5	50	800	150	800	100	TSMBJ0305C064MSCT-ND	.90	.72	.54	—
65	88	50	5	50	800	150	800	100	TSMBJ0305C072MSCT-ND	.90	.72	.54	—
75	98	50	5	50	800	150	800	100	TSMBJ0306CMSCT-ND	.90	.72	.54	—
90	130	50	5	50	800	150	800	60	TSMBJ0306CMSCT-ND	.90	.72	.54	—
120	160	50	5	50	800	150	800	60	TSMBJ0309C130MSCT-ND	.90	.72	.54	—
140	180	50	5	50	800	150	800	60	TSMBJ0310CMSCT-ND	.90	.72	.54	—
160	220	50	5	50	800	150	800	60	TSMBJ0312CMSCT-ND	.90	.72	.54	—
190	265	50	5	50	800	150	800	40	TSMBJ0316CMSCT-ND	.90	.72	.54	—
220	300	50	5	50	800	150	800	40	TSMBJ0318CMSCT-ND	.90	.72	.54	—
275	350	50	5	50	800	150	800	40	TSMBJ0322CMSCT-ND	.90	.72	.54	—
320	400	50	5	50	800	150	800	40	TSMBJ0324CMSCT-ND	.90	.72	.54	—
58	77	80	5	50	800	150	800	140	TSMBJ0505C064MSCT-ND	.90	.72	.54	—
65	88	80	5	50	800	150	800	140	TSMBJ0505C072MSCT-ND	.90	.72	.54	—
75	98	80	5	50	800	150	800	140	TSMBJ0506CMSCT-ND	.90	.72	.54	—
90	130	80	5	50	800	150	800	90	TSMBJ0507CMSCT-ND	.90	.72	.54	360.00/M
120	160	80	5	50	800	150	800	90	TSMBJ0509C130MSCT-ND	.90	.72	.54	—
140	180	80	5	50	800	150	800	90	TSMBJ0510CMSCT-ND	.90	.72	.54	—
160	220	80	5	50	800	150	800	90	TSMBJ0512CMSCT-ND	.90	.72	.54	—
190	265	80	5	50	800	150	800	60	TSMBJ0516CMSCT-ND	.90	.72	.54	—
220	300	80	5	50	800	150	800	60	TSMBJ0518CMSCT-ND	.90	.72	.54	—
275	350	80	5	50	800	150	800	60	TSMBJ0522CMSCT-ND	.90	.72	.54	—
320	400	80	5	50	800	150	800	60	TSMBJ0524CMSCT-ND	.90	.72	.54	—
58	77	100	5	50	800	150	800	200	TSMBJ1005C064MSCT-ND	1.75	1.40	1.05	—
65	88	100	5	50	800	150	800	200	TSMBJ1005C072MSCT-ND	1.75	1.40	1.05	—
75	98	100	5	50	800	150	800	200	TSMBJ1006CMSCT-ND	1.75	1.40	1.05	—
90	130	100	5	50	800	150	800	120	TSMBJ1007CMSCT-ND	1.75	1.40	1.05	—
120	160	100	5	50	800	150	800	120	TSMBJ1009C130MSCT-ND	1.75	1.40	1.05	—
140	180	100	5	50	800	150	800	120	TSMBJ1010CMSCT-ND	1.75	1.40	1.05	—
160	220	100	5	50	800	150	800	120	TSMBJ1012CMSCT-ND	1.75	1.40	1.05	—
220	300	100	5	50	800	150	800	80	TSMBJ1018CMSCT-ND	1.75	1.40	1.05	700.00/M
275	350	100	5	50	800	150	800	80	TSMBJ1022CMSCT-ND	1.75	1.40	1.05	700.00/M
320	400	100	5	50	800	150	800	80	TSMBJ1024CMSCT-ND	1.75	1.40	1.05	—

† For Tape and Reel Part Number, change CT-ND to TR-ND.

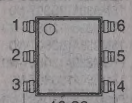
DO-214AA

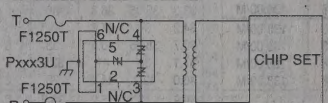


TECCOR — The New Standard in Thyristors for Electronic Equipment

Littelfuse® — Preliminary Balanced Line Protector

General Description:
Balanced Protector is designed to offer customers a surface mount alternative to our traditional modified TO-220 package. Based on a 6-pin SOIC package, Balanced Protector is built using patented "Y" (US Patent 4,905,119) configuration and are available in surge current ratings of up to 500A.





Series	I_{pp} 2 x 10µs (A)	I_{pp} 8 x 20µs (A)	I_{pp} 10 x 160µs (A)	I_{pp} 10 x 560µs (A)	I_{pp} 10 x 1000µs (A)	I^2t 60Hz (A)	di (A
C	500	400	200	150	100	50	5

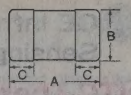
V_{DRM} (V)	V_S (V)	V_T (V)	I_S (mA)	I_H (mA)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T & R Pricin 1,500
130	180	8	800	150	P1553UCRPCT-ND	4.24	3.85	3.47	P1553UCRPTR-ND	2002.00/M
150	210	8	800	150	P1803UCRPCT-ND	4.24	3.85	3.47	P1803UCRPTR-ND	2002.00/M
170	250	8	800	150	P2103UCRPCT-ND	4.24	3.85	3.47	P2103UCRPTR-ND	2002.00/M
200	270	8	800	150	P2353UCRPCT-ND	4.24	3.85	3.47	P2353UCRPTR-ND	2002.00/M
230	300	8	800	150	P2703UCRPCT-ND	4.24	3.85	3.47	P2703UCRPTR-ND	2002.00/M
270	350	8	800	150	P3203UCRPCT-ND	4.24	3.85	3.47	P3203UCRPTR-ND	2002.00/M
300	400	8	800	150	P3403UCRPCT-ND	4.24	3.85	3.47	P3403UCRPTR-ND	2002.00/M
420	600	8	800	150	P5103UCRPCT-ND	4.24	3.85	3.47	P5103UCRPTR-ND	2002.00/M

More Product Available Online: www.digikey.com
Toll-Free: 1-800-344-4539 • Phone: 218-681-6674 • Fax: 218-681-3380

SMD NTC Thermistors

Features: • Excellent solderability and high stability in environment • Long time aging stability • High accuracy in resistance and B-constant • Reflow soldering possible • Lead is not contained in the product • Operating Temperature Range -40°C to 125°C

Dimensions (mm)	0402	0603	0805
A	1.0	1.6	2.0
B	0.5	0.8	1.25
C	0.25	0.6	0.7



istance °C) Ω	B-Constant (25-50°C) (K)	Toler-ence (@25°C)	Max. Operating Current (25°C) (mA)	Rated Electric Power (25°C) (mW)	Typical Dissipation Constant (25°C) (mW/°C)	Digi-Key Part No.	Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Size	Pricing	Murata Part No.
						0402 Series							
22	3100 ± 3%	±5%	6.70	100	1	490-2408-1-ND	.16	.15	.12	490-2408-2-ND	10,000	58.43/M	NCP15XC220J03RC
33	3100 ± 3%	±5%	5.50	100	1	490-2409-1-ND	.16	.15	.12	490-2409-2-ND	10,000	58.43/M	NCP15XC330J03RC
47	3100 ± 3%	±5%	4.60	100	1	490-2410-1-ND	.16	.15	.12	490-2410-2-ND	10,000	58.43/M	NCP15XC470J03RC
68	3100 ± 3%	±5%	3.80	100	1	490-2411-1-ND	.16	.15	.12	490-2411-2-ND	10,000	58.43/M	NCP15XC680J03RC
100	3250 ± 3%	±5%	3.10	100	1	490-2412-1-ND	.16	.15	.12	490-2412-2-ND	10,000	58.43/M	NCP15XF101J03RC
150	3250 ± 3%	±5%	2.50	100	1	490-2413-1-ND	.16	.15	.12	490-2413-2-ND	10,000	58.43/M	NCP15XF151J03RC
220	3500 ± 3%	±5%	2.10	100	1	490-2415-1-ND	.16	.15	.12	490-2415-2-ND	10,000	58.43/M	NCP15XM221J03RC
330	3500 ± 3%	±5%	1.70	100	1	490-2416-1-ND	.16	.15	.12	490-2416-2-ND	10,000	58.43/M	NCP15XM331J03RC
470	3650 ± 3%	±5%	1.40	100	1	490-2419-1-ND	.16	.15	.12	490-2419-2-ND	10,000	58.43/M	NCP15XQ471J03RC
680	3650 ± 3%	±5%	1.20	100	1	490-2420-1-ND	.16	.15	.12	490-2420-2-ND	10,000	58.43/M	NCP15XQ681J03RC
1.0K	3650 ± 3%	±5%	1.00	100	1	490-2418-1-ND	.16	.15	.12	490-2418-2-ND	10,000	58.43/M	NCP15XQ102J03RC
1.5K	3950 ± 3%	±5%	0.81	100	1	490-2421-1-ND	.16	.15	.12	490-2421-2-ND	10,000	58.43/M	NCP15XW152J03RC
2.2K	3950 ± 3%	±5%	0.67	100	1	490-2423-1-ND	.16	.15	.12	490-2423-2-ND	10,000	58.43/M	NCP15XW222J03RC
3.3K	3950 ± 3%	±5%	0.55	100	1	490-2425-1-ND	.16	.15	.12	490-2425-2-ND	10,000	58.43/M	NCP15XW332J03RC
4.7K	3500 ± 3%	±5%	0.46	100	1	490-2417-1-ND	.14	.13	.10	490-2417-2-ND	10,000	51.59/M	NCP15XM472J03RC
6.8K	3950 ± 3%	±5%	0.38	100	1	490-2426-1-ND	.16	.15	.12	490-2426-2-ND	10,000	58.43/M	NCP15XW682J03RC
10K	3380 ± 3%	±5%	0.31	100	1	490-2414-1-ND	.14	.13	.10	490-2414-2-ND	10,000	51.59/M	NCP15XH103J03RC
15K	3950 ± 3%	±5%	0.25	100	1	490-2422-1-ND	.16	.15	.12	490-2422-2-ND	10,000	58.43/M	NCP15XW153J03RC
22K	3950 ± 3%	±5%	0.21	100	1	490-2424-1-ND	.16	.15	.12	490-2424-2-ND	10,000	58.43/M	NCP15XW223J03RC
33K	4050 ± 3%	±5%	0.17	100	1	490-2401-1-ND	.16	.15	.12	490-2401-2-ND	10,000	58.43/M	NCP15WB333J03RC
47K	4050 ± 3%	±5%	0.14	100	1	490-2402-1-ND	.14	.13	.10	490-2402-2-ND	10,000	51.59/M	NCP15WB473J03RC
68K	4150 ± 3%	±5%	0.12	100	1	490-2403-1-ND	.16	.15	.12	490-2403-2-ND	10,000	58.43/M	NCP15WD683J03RC
00K	4250 ± 3%	±5%	0.10	100	1	490-2404-1-ND	.14	.13	.10	490-2404-2-ND	10,000	51.59/M	NCP15WF104J03RC
50K	4500 ± 3%	±5%	0.08	100	1	490-2405-1-ND	.16	.15	.12	490-2405-2-ND	10,000	58.43/M	NCP15WM154J03RC
220K	4500 ± 3%	±5%	0.06	100	1	490-2406-1-ND	.16	.15	.12	490-2406-2-ND	10,000	58.43/M	NCP15WM224J03RC
470K	4500 ± 3%	±5%	0.04	100	1	490-2407-1-ND	.16	.15	.12	490-2407-2-ND	10,000	58.43/M	NCP15WM474J03RC
						0603 Series							
100	3250 ± 3%	±5%	3.10	100	1	490-2434-1-ND	.18	.16	.13	490-2434-2-ND	4,000	68.70/M	NCP18XF101J03RB
150	3250 ± 3%	±5%	2.50	100	1	490-2435-1-ND	.18	.16	.13	490-2435-2-ND	4,000	68.70/M	NCP18XF151J03RB
220	3500 ± 3%	±5%	2.10	100	1	490-2437-1-ND	.18	.16	.13	490-2437-2-ND	4,000	68.70/M	NCP18XM221J03RB
330	3500 ± 3%	±5%	1.70	100	1	490-2438-1-ND	.18	.16	.13	490-2438-2-ND	4,000	68.70/M	NCP18XM331J03RB
470	3650 ± 3%	±5%	1.40	100	1	490-2441-1-ND	.18	.16	.13	490-2441-2-ND	4,000	68.70/M	NCP18XQ471J03RB
680	3650 ± 3%	±5%	1.2	100	1	490-2442-1-ND	.18	.16	.13	490-2442-2-ND	4,000	68.70/M	NCP18XQ681J03RB
1.0K	3650 ± 3%	±5%	1.00	100	1	490-2440-1-ND	.18	.16	.13	490-2440-2-ND	4,000	68.70/M	NCP18XQ102J03RB
1.5K	3950 ± 3%	±5%	0.81	100	1	490-2443-1-ND	.18	.16	.13	490-2443-2-ND	4,000	68.70/M	NCP18XW152J03RB
2.2K	3950 ± 3%	±5%	0.67	100	1	490-2445-1-ND	.18	.16	.13	490-2445-2-ND	4,000	68.70/M	NCP18XW222J03RB
3.3K	3950 ± 3%	±5%	0.55	100	1	490-2447-1-ND	.18	.16	.13	490-2447-2-ND	4,000	68.70/M	NCP18XW332J03RB
4.7K	3500 ± 3%	±5%	0.46	100	1	490-2439-1-ND	.16	.15	.12	490-2439-2-ND	4,000	61.35/M	NCP18XM472J03RB
6.8K	3950 ± 3%	±5%	0.38	100	1	490-2448-1-ND	.18	.16	.13	490-2448-2-ND	4,000	68.70/M	NCP18XW682J03RB
10K	3380 ± 3%	±5%	0.31	100	1	490-2436-1-ND	.16	.15	.12	490-2436-2-ND	4,000	61.35/M	NCP18XH103J03RB
15K	3950 ± 3%	±5%	0.25	100	1	490-2444-1-ND	.18	.16	.13	490-2444-2-ND	4,000	68.70/M	NCP18XW153J03RB
22K	3950 ± 3%	±5%	0.21	100	1	490-2446-1-ND	.18	.16	.13	490-2446-2-ND	4,000	68.70/M	NCP18XW223J03RB
33K	4050 ± 3%	±5%	0.17	100	1	490-2427-1-ND	.18	.16	.13	490-2427-2-ND	4,000	68.70/M	NCP18WB333J03RB
47K	4050 ± 3%	±5%	0.14	100	1	490-2428-1-ND	.16	.15	.12	490-2428-2-ND	4,000	61.35/M	NCP18WB473J03RB
68K	4150 ± 3%	±5%	0.12	100	1	490-2429-1-ND	.18	.16	.13	490-2429-2-ND	4,000	68.70/M	NCP18WD683J03RB
00K	4250 ± 3%	±5%	0.10	100	1	490-2430-1-ND	.16	.15	.12	490-2430-2-ND	4,000	61.35/M	NCP18WF104J03RB
50K	4500 ± 3%	±5%	0.08	100	1	490-2431-1-ND	.18	.16	.13	490-2431-2-ND	4,000	68.70/M	NCP18WM154J03RB
220K	4500 ± 3%	±5%	0.06	100	1	490-2432-1-ND	.18	.16	.13	490-2432-2-ND	4,000	68.70/M	NCP18WM224J03RB
470K	4500 ± 3%	±5%	0.04	100	1	490-2433-1-ND	.18	.16	.13	490-2433-2-ND	4,000	68.70/M	NCP18WM474J03RB
						0805 Series							
220	3500 ± 3%	±5%	3.00	200	2	490-2452-1-ND	.22	.20	.16	490-2452-2-ND	4,000	82.95/M	NCP21XM221J03RA
470	3650 ± 3%	±5%	2.00	200	2	490-2455-1-ND	.22	.20	.16	490-2455-2-ND	4,000	82.95/M	NCP21XQ471J03RA
1.0K	3650 ± 3%	±5%	1.40	200	2	490-2454-1-ND	.22	.20	.16	490-2454-2-ND	4,000	82.95/M	NCP21XQ102J03RA
2.2K	3950 ± 3%	±5%	0.90	200	2	490-2458-1-ND	.22	.20	.16	490-2458-2-ND	4,000	82.95/M	NCP21XW222J03RA
4.7K	3500 ± 3%	±5%	0.65	200	2	490-2453-1-ND	.22	.20	.16	490-2453-2-ND	4,000	82.95/M	NCP21XM472J03RA
10K	3900 ± 3%	±5%	0.44	200	2	490-2456-1-ND	.22	.20	.16	490-2456-2-ND	4,000	82.95/M	NCP21XV103J03RA
15K	3950 ± 3%	±5%	0.36	200	2	490-2457-1-ND	.22	.20	.16	490-2457-2-ND	4,000	82.95/M	NCP21XW153J03RA
22K	3950 ± 3%	±5%	0.30	200	2	490-2459-1-ND	.22	.20	.16	490-2459-2-ND	4,000	82.95/M	NCP21XW223J03RA
33K	4050 ± 3%	±5%	0.24	200	2	490-2449-1-ND	.22	.20	.16	490-2449-2-ND	4,000	82.95/M	NCP21WB333J03RA
47K	4050 ± 3%	±5%	0.20	200	2	490-2450-1-ND	.22	.20	.16	490-2450-2-ND	4,000	82.95/M	NCP21WB473J03RA
00K	4250 ± 3%	±5%	0.14	200	2	490-2451-1-ND	.22	.20	.16	490-2451-2-ND	4,000	82.95/M	NCP21WF104J03RA

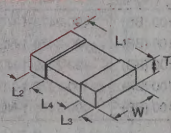
Surface Mount NTC Chip Thermistors (0603 and 0805 Size)

BC COMPONENTS

0603 and 0805 chip thermistors have a negative temperature coefficient and nickel barrier contacts. The e has no marking.

lications: • Temperature compensation, sensing and protection in: battery chargers, consumer pment, and office equipment

ures: • High accuracy over wide ranges of operating temperature (-40°C to 150°C) • Suitable for wave low soldering • High sensitivity • Taped on reel



Size Code	Dimensions (mm) L1	W	T Min.	T Max.	L2 and L3	L4 Min.
A	1.6 ±0.15	0.8 ±0.15	0.5	1.0	0.2	0.4
B	2.0 ±0.2	1.25 ±0.2	0.5	1.25	0.5 ±0.25	0.5

ize ode	Res. @ 25°C	Tol. @ 25°C	B Value/B Tolerance @ B25/85	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 4,000	BC Components Part No.
				0603 Size						
	4.7kΩ	±3%	3830K±1%	BC1543CT-ND*	.57	.50	.40	BC1543TR-ND*	213.00/M	2322 615 36472
	10kΩ	±3%	3590K±1%	BC1544CT-ND*	.57	.50	.40	BC1544TR-ND*	213.00/M	2322 615 36103
	68kΩ	±3%	3985K±1%	BC1547CT-ND*	.62	.55	.43	BC1547TR-ND*	232.20/M	2322 615 36683
	100kΩ	±3%	4090K±1%	BC1548CT-ND*	.57	.50	.40	BC1548TR-ND*	213.00/M	2322 615 36104
A	4.7kΩ	±5%	3830K±1%	BC1538CT-ND*	.44	.39	.31	BC1538TR-ND*	165.00/M	2322 615 33472
	10kΩ	±5%	3590K±1%	BC1539CT-ND*	.44	.39	.31	BC1539TR-ND*	165.00/M	2322 615 33103
	15kΩ	±5%	3600K±1%	BC1540CT-ND*	.59	.52	.41	BC1540TR-ND*	220.50/M	2322 615 33153
	47kΩ	±5%	3960K±1%	BC1541CT-ND*	.59	.52	.41	—	—	2322 615 33473
	100kΩ	±5%	4090K±1%	BC1542CT-ND*	.59	.52	.41	BC1542TR-ND*	220.50/M	2322 615 33104
				0805 Size						
	2.2kΩ	±5%	3680K±3%	BC1514CT-ND	.41	.36	.29	BC1514TR-ND	153.00/M	2322 615 53222
	4.7kΩ	±5%	3560K±1%	BC1516CT-ND	.41	.36	.29	BC1516TR-ND	153.00/M	2322 615 53472
	10kΩ	±5%	3620K±1%	BC1518CT-ND	.41	.36	.29	BC1518TR-ND	153.00/M	2322 615 53103
	15kΩ	±5%	3528K±1%	BC1519CT-ND	.41	.36	.29	BC1519TR-ND	153.00/M	2322 615 53153
B	22kΩ	±5%	3930K±1.5%	BC1520CT-ND	.41	.36	.29	BC1520TR-ND	153.00/M	2322 615 53223
	33kΩ	±5%	3960K±3%	BC1521CT-ND	.41	.36	.29	BC1521TR-ND	153.00/M	2322 615 53333
	47kΩ	±5%	4090K±1.5%	BC1522CT-ND	.41	.36	.29	BC1522TR-ND	153.00/M	2322 615 53473
	68kΩ	±5%	3740K±3%	BC1523CT-ND	.41	.36	.29	BC1523TR-ND	153.00/M	2322 615 53683

03 Size Code A have NiSn terminations.

GE Infrastructure Sensing

NTC Thermistors

THERMAL AND ELECTRICAL PROPERTIES:

Dissipation Constant: (Still Air) 1 mW°C., (Stirred Oil) 8 mW°C.

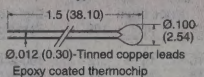
Thermal Time Constant: (Still Air) 10 Seconds, (Stirred Oil) 1 Second.

Maximum Power Rating: .075 Watts (Derated from 100% at 25°C to 0% at 100°C.

Type EC95 and Type DC95 Thermistors may be used at temperatures as low as -80°C and as high as 150°C, however, best over-all stability is achieved with exposure or storage temperatures lower than 105°C.

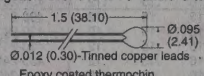
Thermometrics Type C100 Thermochips are low cost, epoxy coated chip thermistors which represent the highest level of thermistor technology. Thermometrics exclusive "state of the art" materials processing techniques have been proven through extensive field use and long term testing to provide stable, rugged, easy handling thermistors suitable for applications in the temperature range of -80°C to 150°C. Best stability is achieved at temperatures not exceeding 105°C.

Type C100



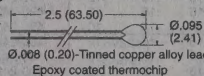
Epoxy coated thermochip

Type DC95 Thermistors are designed to be interchangeable over 0°C to 70° and 0°C to 100°C.



Epoxy coated thermochip

Type EC95 Thermistors are designed to be interchangeable over -20°C to 50°C and 0°C to 70°C.



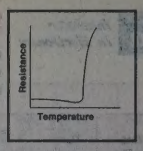
Epoxy coated thermochip

Res. @ 25°C (Ω)	Res. Ratio†	Digi Key Part No.	Price Each 1	10	100	250	GE Infrastructure Part No.
10K	9.06	235-1001-ND	8.94	7.05	5.59	4.14	C100F103G
10K	9.06	235-1002-ND	6.40	5.04	4.00	2.96	C100F103J
10K	7.60	235-1003-ND	6.40	5.04	4.00	2.96	C100Y103J
10K	9.06	235-1004-ND	9.40	7.41	5.88	4.35	DC95F103W
2K	9.06	235-1005-ND	9.40	7.41	5.88	4.35	DC95F202W
2252	9.06	235-1006-ND	9.40	7.41	5.88	4.35	DC95F232W
5K	9.06	235-1007-ND	9.40	7.41	5.88	4.35	DC95F502W
100K	10.45	235-1008-ND	9.40	7.41	5.88	4.35	DC95G104W
50K	10.45	235-1009-ND	9.40	7.41	5.88	4.35	DC95G503W
10K	9.06	235-1010-ND	9.40	7.41	5.88	4.35	EC95F103W
2K	9.06	235-1011-ND	5.52	4.35	3.45	2.56	EC95F202W
3K	9.06	235-1012-ND	9.40	7.41	5.88	4.35	EC95F302W
100K	10.45	235-1013-ND	9.40	7.41	5.88	4.35	EC95G104W
50K	10.45	235-1014-ND	9.40	7.41	5.88	4.35	EC95G503W
30K	8.69	235-1015-ND	9.40	7.41	5.88	4.35	EC95H303W

† 0°C/50°C Ratio

G

PTC Thermistors



PTC (Positive Temperature Coefficient) Thermistors are thermally sensitive resistors made of polycrystalline ceramic materials. They are characterized by an extremely large resistance change in a small temperature span.

- All PTC resistances ±30% at 25°C
- Tolerance on transition temperature is ±7°C

Oper. Volt.	R @ 25°C (Ω)	Transition Temp.	D.C.†	Dim. A (mm)	Digi-Key Part No.	Price Each 1	10	100
12	1	120°C	14.0	15.24	235-1129-ND	3.11	2.80	2.2
12	2	120°C	14.0	15.24	235-1130-ND	3.11	2.80	2.2
12	10	110°C	7.0	8.89	235-1131-ND	2.65	2.39	1.8
12	25	110°C	7.0	8.89	235-1132-ND	2.65	2.39	1.8
25	50	30°C	7.0	7.62	235-1120-ND*	2.65	2.39	1.8
25	50	40°C	7.0	7.62	235-1121-ND*	2.65	2.39	1.8
25	50	50°C	7.0	7.62	235-1122-ND*	2.65	2.39	1.8
25	50	60°C	7.0	7.62	235-1123-ND*	2.65	2.39	1.8
25	50	70°C	7.0	8.89	235-1124-ND	2.65	2.39	1.8
25	50	80°C	7.0	8.89	235-1125-ND	2.65	2.39	1.8
25	50	90°C	7.0	8.89	235-1126-ND	2.65	2.39	1.8
25	50	100°C	7.0	7.62	235-1127-ND*	2.65	2.39	1.8
25	50	110°C	7.0	7.62	235-1128-ND*	2.65	2.39	1.8
50	5	65°C	14.0	15.24	235-1133-ND	3.11	2.80	2.2
50	10	110°C	10.0	11.43	235-1134-ND	3.40	3.06	2.4
50	50	110°C	12.0	11.43	235-1135-ND	3.11	2.80	2.2
50	200	110°C	9.0	10.16	235-1136-ND	3.40	3.06	2.4
120	10	120°C	20.0	20.32	235-1137-ND	3.98	3.58	2.8
120	20	120°C	18.0	16.51	235-1138-ND	3.19	2.87	2.2
120	25	60°C	15.0	15.24	235-1139-ND	3.19	2.87	2.2
120	50	120°C	12.0	12.70	235-1140-ND	3.11	2.80	2.2
240	40	110°C	18.0	16.51	235-1141-ND	3.40	3.06	2.4
240	50	65°C	17.0	15.24	235-1142-ND	3.40	3.06	2.4
240	50	110°C	18.0	16.51	235-1143-ND	3.40	3.06	2.4
240	100	120°C	18.0	16.51	235-1144-ND	3.40	3.06	2.4
240	1500	100°C	12.0	8.89	235-1145-ND	3.44	3.06	2.4
480	1000	100°C	18.0	19.05	235-1146-ND	3.98	3.58	2.8
480	2000	100°C	15.0	13.97	235-1147-ND	3.11	2.80	2.2
480	5000	100°C	12.0	8.89	235-1148-ND	3.40	3.06	2.4

† D.C. – Dissipation Constant (MW/°C)

* **KCPTC1-KIT-ND** ***Digi-Key® PTC Thermistors Kits*** 2 each of all values denoted (12 total pieces) Notebook style storage case and bin storage guide included. ..... $

muRata *Innovator in Electronics*

Murata Electronics

POSISTOR® Circuit Protection for Overcurrent Protection 24V Series Chip Type

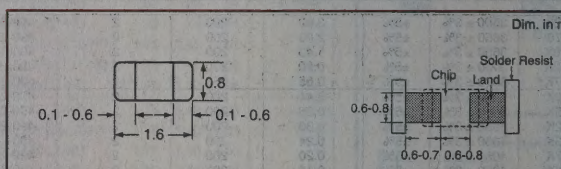
Overcurrent Protection device with resettable function suitable for current limiting resistor.

This product is chip type PTC thermistor for overcurrent protection.

Suitable for counter-measure for short circuit testing in portable equipment and current limiting resistor.

Features:

- Rapid operation to protect the circuit in an overcurrent condition abnormality such as a short circuit
- By removing the overcurrent condition, these products automatically return to the inital condition and can be used repeatedly
- Automatically return to the initial condition and can be used repeatedly
- Stable resistance after operation due to ceramic PTC
- 0603 SMD type for reflow soldering
- Lead is not contained in the terminations



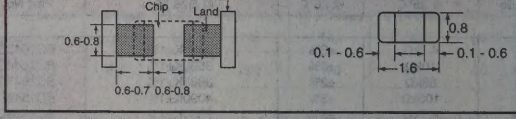
Maximum Voltage (V)	Non-operating Current at 60°C (mA)	Operating Current at -10°C (mA)	Maximum Current (mA)	Resistance (at 25°C) (ohm)	Curie Point (°C)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Size	Pricing	Murata Part No.
24	7	25	60	470±20%	100 (BB)	490-2473-1-ND	.36	.32	.25	490-2473-2-ND	4,000	136.20/M	PRG18BB471MB
	10	35	130	220±20%	100 (BB)	490-2470-1-ND	.36	.32	.25	490-2470-2-ND	4,000	136.20/M	PRG18BB221MB
	15	55	300	100±20%	100 (BB)	490-2469-1-ND	.36	.32	.25	490-2469-2-ND	4,000	136.20/M	PRG18BB101MB
	20	75	630	47±20%	100 (BB)	490-2472-1-ND	.36	.32	.25	490-2472-2-ND	4,000	136.20/M	PRG18BB470MB
	25	85	900	33±20%	100 (BB)	490-2471-1-ND	.36	.32	.25	490-2471-2-ND	4,000	136.20/M	PRG18BB330MB

POSISTOR® Circuit Protection for Overheat Sensing Chip Type

This chip PTC Thermistor is reflow soldering SMD type for overheat sensing for power transistors, power diodes and power ICs in hybrid circuits.

Features:

• Excellent thermal response because of no coating • Solid-state construction provides excellent mechanical vibration and impact resistance • Contact-less operation provides prolonged service life and noiseless operation • Lead is not contained in the terminations



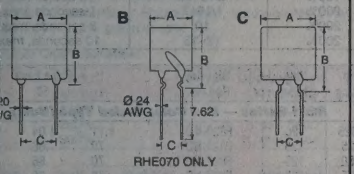
Sensing Temp. (@ 4.7k ohm) (°C)	Maximum Voltage (V)	Resistance (@ 25°C) (ohm)	Operating Temp. Range	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 4,000	Murata Part No.
65±5	32	470±50%	-20°C ~ 80°C	490-2468-1-ND	.42	.38	.30	490-2468-2-ND	159.15/M	PRF18BG471QB1F
75±5	32	470±50%	-20°C ~ 90°C	490-2467-1-ND	.42	.38	.30	490-2467-2-ND	159.15/M	PRF18BF471QB1F
85±5	32	470±50%	-20°C ~ 100°C	490-2466-1-ND	.42	.38	.30	490-2466-2-ND	159.15/M	PRF18BE471QB1F
95±5	32	470±50%	-20°C ~ 110°C	490-2465-1-ND	.42	.38	.30	490-2465-2-ND	159.15/M	PRF18BD471QB1F
105±5	32	470±50%	-20°C ~ 120°C	490-2464-1-ND	.42	.38	.30	490-2464-2-ND	159.15/M	PRF18BC471QB1F
115±5	32	470±50%	-20°C ~ 130°C	490-2463-1-ND	.42	.38	.30	490-2463-2-ND	159.15/M	PRF18BB471QB1F
125±5	32	470±50%	-20°C ~ 140°C	490-2462-1-ND	.42	.38	.30	490-2462-2-ND	159.15/M	PRF18BA471QB1F
135±5	32	470±50%	-20°C ~ 150°C	490-2460-1-ND	.42	.38	.30	490-2460-2-ND	159.15/M	PRF18AR471QB1F
145±5	32	470±50%	-20°C ~ 160°C	490-2461-1-ND	.42	.38	.30	490-2461-2-ND	159.15/M	PRF18AS471QB1F

PolySwitch® Resettable Devices

...itch resettable devices protect electrical and electronic circuits against excessive current, voltage, and temperature. ...witching, the PolySwitch device is latched into its high-resistance, protective state by the small, sustained self-...g current. The device will reset only after it has cooled and the fault condition has been corrected, thus avoiding ...ous cycling that could cause circuit damage. The device requires no manual resetting or replacement.

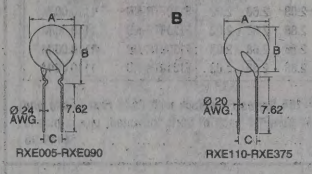
Definitions: • **Maximum Voltage:** The highest voltage the device can withstand (in its tripped state) without damage. • **Hold Current:** The maximum continuous current that will not cause the device to trip at 20°C. • **Trip Current:** The minimum continuous current that will cause the device to trip at 20°C. • **Maximum Current:** The largest fault current, at rated voltage, the device can interrupt without being damaged. **Maximum R:** Maximum non-tripped resistance of the device.

...1 — RGE and RHE Series



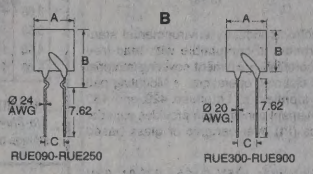
...s product series can be used in a wide variety of automotive, ...nputer and general electronics applications. The RGE devices ...ure high current carrying capability (up to 13 amps) in a small ...kage with fast trip times.

Fig. 2 — RXE Series



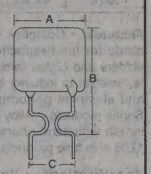
These products function as the general purpose line of circuit protection devices and are well suited for power supplies, alarm systems, speakers, motors and many other applications. The RXE series range in hold currents from .05 to 3.75 amps and complement the RUE devices by providing a higher voltage rating.

Fig. 3 — RUE Series



These devices are also designed to be used in a wide variety of general electronics applications. They complement the RXE series by providing a smaller form factor with lower resistance and higher hold current capability (up to 9 amps).

Fig. 4 — RTE Series



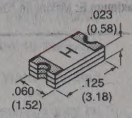
RTE series polyswitches are specifically designed for IEEE-1394 applications.

Max. Volt.	Rated Current (20°C) (amps) Hold	Trip	Max. Current (Amp)	Initial Resistance RMin. (Ω)	RMax. (Ω)	Recognized By	Dimensions Inches (mm) A	B	C	Digi-Key Part No.	Price Each 1	10	100	Raychem Part No.
							RGE Series							
16	3.00	5.10	100	0.038	0.0653	UL, TUV, CSA	0.28 (7.1)	0.43 (11.0)	0.23 (5.8)	RGE300-ND	.61	.56	.51	RGE300
16	4.00	6.80	100	0.021	0.0393	UL, TUV, CSA	0.35 (8.9)	0.50 (12.8)	0.23 (5.8)	RGE400-ND	.62	.58	.52	RGE400
16	5.00	8.50	100	0.015	0.0236	UL, TUV, CSA	0.41 (10.4)	0.56 (14.3)	0.23 (5.8)	RGE500-ND	.64	.59	.54	RGE500
16	6.00	10.20	100	0.010	0.0191	UL, TUV, CSA	0.42 (10.7)	0.67 (17.1)	0.23 (5.8)	RGE600-ND	.68	.63	.57	RGE600
16	7.00	11.90	100	0.0077	0.0134	UL, TUV, CSA	0.44 (11.2)	0.78 (19.7)	0.23 (5.8)	RGE700-ND	.72	.66	.60	RGE700
16	8.00	13.60	100	0.0056	0.0116	UL, TUV, CSA	0.50 (12.7)	0.82 (20.9)	0.23 (5.8)	RGE800-ND	.77	.71	.65	RGE800
16	9.00	15.30	100	0.0047	0.0093	UL, TUV, CSA	0.55 (14.0)	0.85 (21.7)	0.23 (5.8)	RGE900-ND	.85	.78	.71	RGE900
16	10.00	17.00	100	0.0040	0.0072	UL, TUV, CSA	0.65 (16.5)	0.99 (25.2)	0.23 (5.8)	RGE1000-ND	.95	.88	.80	RGE1000
16	11.00	18.70	100	0.0037	0.0063	UL, TUV, CSA	0.69 (17.5)	1.02 (26.0)	0.23 (5.8)	RGE1100-ND	1.04	.96	.87	RGE1100
16	12.00	20.40	100	0.0033	0.0060	UL, TUV, CSA	0.69 (17.5)	1.10 (27.94)	0.43 (10.9)	RGE1200-ND	1.12	1.03	.94	RGE1200
16	14.00	23.80	100	0.0026	0.0045	UL, TUV, CSA	0.925 (23.6)	1.10 (27.94)	0.43 (10.9)	RGE1400-ND	1.21	1.11	1.01	RGE1400
							RHE Series							
16	0.7	1.4	40	0.300	0.546	UL, TUV, CSA	0.27 (6.86)	0.425 (10.8)	0.23 (5.8)	RHE070-ND	.55	.51	.46	RHE070
16	4.0	7.0	100	0.018	0.029	UL, TUV, CSA	0.45 (11.4)	0.71 (18.0)	0.23 (5.8)	RHE400-ND	.68	.63	.57	RHE400
16	4.5	7.8	100	0.022	0.036	UL, TUV, CSA	0.41 (10.4)	0.61 (15.6)	0.23 (5.8)	RHE450-ND	.70	.65	.59	RHE450
16	6.0	10.8	100	0.013	0.022	UL, TUV, CSA	0.44 (11.2)	0.83 (21.0)	0.23 (5.8)	RHE600-ND	.76	.70	.64	RHE600
16	6.5	12.0	100	0.011	0.018	UL, TUV, CSA	0.50 (12.7)	0.88 (22.2)	0.23 (5.8)	RHE650-ND	.80	.74	.67	RHE650
16	7.5	13.1	100	0.0094	0.0153	UL, TUV, CSA	0.55 (14.0)	0.93 (23.5)	0.23 (5.8)	RHE750-ND	.88	.81	.74	RHE750
16	10.0	18.5	100	0.0062	0.0105	UL, TUV, CSA	0.69 (17.5)	1.04 (26.5)	0.43 (10.9)	RHE1000-ND	1.10	1.01	.92	RHE1000
16	13.0	24.0	100	0.0041	0.0069	UL, TUV, CSA	0.925 (23.5)	1.13 (28.7)	0.43 (10.9)	RHE1300-ND	1.30	1.20	1.09	RHE1300
16	15.0	28.0	100	0.0032	0.0061	UL, TUV, CSA	0.925 (23.5)	1.13 (28.7)	0.43 (10.9)	RHE1500-ND	1.39	1.28	1.16	RHE1500
							RXE Series							
60	0.05	0.10	40	7.3	11.1	UL, TUV, CSA	0.32 (8.0)	0.33 (8.3)	0.23 (5.8)	RXE005-ND	.44	.41	.37	RXE005
60	0.10	0.20	40	2.5	4.50	UL, TUV, CSA	0.29 (7.4)	0.46 (11.6)	0.23 (5.8)	RXE010-ND	.45	.41	.38	RXE010
60	0.17	0.34	40	3.3	5.21	UL, TUV, CSA	0.29 (7.4)	0.50 (12.7)	0.23 (5.8)	RXE017-ND	.45	.42	.38	RXE017
72	0.20	0.40	40	1.83	2.75	UL, TUV, CSA	0.29 (7.4)	0.46 (11.7)	0.23 (5.8)	RXE020-ND	.46	.43	.39	RXE020
72	0.25	0.50	40	1.25	1.95	UL, TUV, CSA	0.29 (7.4)	0.50 (12.7)	0.23 (5.8)	RXE025-ND	.47	.43	.39	RXE025
72	0.30	0.60	40	0.88	1.33	UL, TUV, CSA	0.29 (7.4)	0.50 (12.7)	0.23 (5.8)	RXE030-ND	.47	.44	.40	RXE030
72	0.40	0.80	40	0.55	0.86	UL, TUV, CSA	0.30 (7.6)	0.53 (13.5)	0.23 (5.8)	RXE040-ND	.48	.44	.40	RXE040
72	0.50	1.00	40	0.50	0.77	UL, TUV, CSA	0.31 (7.9)	0.54 (13.7)	0.23 (5.8)	RXE050-ND	.48	.45	.41	RXE050
72	0.65	1.30	40	0.31	0.48	UL, TUV, CSA	0.37 (9.40)	0.57 (14.5)	0.23 (5.8)	RXE065-ND	.49	.46	.41	RXE065
72	0.75	1.50	40	0.25	0.40	UL, TUV, CSA	0.40 (10.2)	0.60 (15.2)	0.23 (5.8)	RXE075-ND	.50	.47	.42	RXE075
72	0.90	1.80	40	0.20	0.31	UL, TUV, CSA	0.44 (11.2)	0.62 (15.8)	0.23 (5.8)	RXE090-ND	.53	.49	.44	RXE090
72	1.10	2.20	40	0.15	0.25	UL, TUV, CSA	0.50 (12.8)	0.69 (17.5)	0.23 (5.8)	RXE110-ND	.55	.51	.46	RXE110
72	1.35	2.70	40	0.12	0.19	UL, TUV, CSA	0.57 (14.5)	0.75 (19.1)	0.23 (5.8)	RXE135-ND	.58	.54	.49	RXE135
72	1.60	3.20	40	0.09	0.14	UL, TUV, CSA	0.64 (16.3)	0.82 (20.8)	0.23 (5.8)	RXE160-ND	.61	.57	.51	RXE160
72	1.85	3.70	40	0.08	0.12	UL, TUV, CSA	0.69 (17.5)	0.88 (22.4)	0.23 (5.8)	RXE185-ND	.69	.64	.58	RXE185
72	2.50	5.00	40	0.05	0.08	UL, TUV, CSA	0.82 (20.8)	1.00 (25.4)	0.43 (10.9)	RXE250-ND	.68	.63	.57	RXE250
72	3.00	6.00	40	0.04	0.06	UL, TUV, CSA	0.94 (23.9)	1.13 (28.6)	0.43 (10.9)	RXE300-ND	.72	.67	.61	RXE300
72	3.75	7.50	40	0.03	0.05	UL, TUV, CSA	1.07 (27.2)	1.25 (31.8)	0.43 (10.9)	RXE375-ND	.75	.69	.63	RXE375
							RUE Series							
30	0.90	1.80	40	0.070	0.12	UL, TUV, CSA	0.29 (7.4)	0.48 (12.2)	0.23 (5.8)	RUE090-ND	.48	.45	.41	RUE090
30	1.10	2.20	40	0.050	0.10	UL, TUV, CSA	0.29 (7.4)	0.56 (14.2)	0.23 (5.8)	RUE110-ND	.49	.46	.41	RUE110
30	1.35	2.70	40	0.040	0.08	UL, TUV, CSA	0.35 (8.9)	0.53 (13.5)	0.23 (5.8)	RUE135-ND	.50	.47	.42	RUE135
30	1.60	3.20	40	0.030	0.07	UL, TUV, CSA	0.35 (8.9)	0.60 (15.2)	0.23 (5.8)	RUE160-ND	.53	.49	.44	RUE160
30	1.85	3.70	40	0.030	0.06	UL, TUV, CSA	0.40 (10.2)	0.62 (15.7)	0.23 (5.8)	RUE185-ND	.56	.52	.47	RUE185
30	2.50	5.00	40	0.020	0.04	UL, TUV, CSA	0.45 (11.4)	0.72 (18.3)	0.23 (5.8)	RUE250-ND	.61	.57	.51	RUE250
30	3.00	6.00	40	0.020	0.05	UL, TUV, CSA	0.45 (11.4)	0.65 (16.5)	0.23 (5.8)	RUE300-ND	.67	.62	.56	RUE300
30	4.00	8.00	40	0.010	0.03	UL, TUV, CSA	0.55 (14.0)	0.76 (19.3)	0.23 (5.8)	RUE400-ND	.73	.67	.61	RUE400
30	5.00	10.00	40	0.010	0.03	UL, TUV, CSA	0.55 (14.0)	0.95 (24.1)	0.43 (10.9)	RUE500-ND	.79	.73	.66	RUE500
30	6.00	12.00	40	0.005	0.02	UL, TUV, CSA	0.65 (16.5)	0.95 (24.1)	0.43 (10.9)	RUE600-ND	.82	.75	.68	RUE600
30	7.00	14.00	40	0.005	0.02	UL, TUV, CSA	0.75 (19.1)	1.02 (25.9)	0.43 (10.9)	RUE700-ND	.86	.79	.72	RUE700
30	8.00	16.00	40	0.005	0.013	UL, TUV, CSA	0.85 (21.6)	1.12 (28.4)	0.43 (10.9)	RUE800-ND	.89	.82	.75	RUE800
30	9.00	18.00	40	0.005	0.01	UL, TUV, CSA	0.95 (24.1)	1.14 (29.0)	0.43 (10.9)	RUE900-ND	.95	.88	.80	RUE900
							RTE Series							
33	1.20	2.30	40	0.074	0.12	UL, TUV, CSA	0.29 (7.4)	0.48 (12.2)	0.23 (5.8)	RTE120-ND	.51	.47	.43	RTE120
33	1.20	2.30	40	0.074	0.12	UL, TUV, CSA	0.29 (7.4)	0.48 (12.2)	0.23 (5.8)	RTE120TR-ND		915.00/3,000		RTE120-2
33	1.35	2.50	40	0.059	0.10	UL, TUV, CSA	0.29 (7.4)	0.56 (14.2)	0.23 (5.8)	RTE135-ND	.52	.48	.44	RTE135
33	1.35	2.50	40	0.059	0.10	UL, TUV, CSA	0.29 (7.4)	0.56 (14.2)	0.23 (5.8)	RTE135TR-ND		930.00/3,000		RTE135-2
33	1.90	3.00	40	0.045	0.063	UL, TUV, CSA	0.35 (8.9)	0.53 (13.5)	0.23 (5.8)	RTE190-ND	.60	.55	.50	RTE190
33	1.90	3.00	40	0.045	0.063	UL, TUV, CSA	0.35 (8.9)	0.53 (13.5)	0.23 (5.8)	RTE190TR-ND		1053.00/3,000		RTE190-2

Littelfuse®

"1206" (3216) *Lead-Free* Slimline™ Very Fast Acting Thin-Film 0466 Series

% Amp Rating	Opening Time at 25°C
100%	4 hours, min.
200%	5 sec., max.
300%	0.2 sec., max.



Features: • Complies with electronic industry environmental standards for lead reduction • Product is compatible with lead-free solders and higher temperature profiles • Element covering material is resistant to industry standard cleaning operations • Mounting pad and electrical performance is identical to Littelfuse 429 and 433 Series products • Alloy based element construction provides superior inrush withstand characteristics (I^2t) over ceramic or glass based 1206 chip fuse products

Specifications: • **Voltage Ratings:** 125V (.125~.375A), 63V (.500~2.0A), 32V (2.5A, 3.0), 24V (4~10A) • **Operating Temperature:** -55°C~90°C • **Interrupting Ratings:** 0.125~.375A (50A at 125V AC/DC), 0.5~2A (50A at 63V AC/DC), 2.5~3A (50A at 32V AC/DC), 4~10A (35A at 24V AC/DC) • **Construction Material:** Body: Advanced High Temperature Substrate, Terminations: Copper/Nickel/100% Tin, Element Cover Coat: Conformal Coating

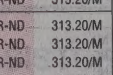
Tape and Reel Specifications:
8mm Tape and Reel per EIA-RS481-2 (IEC 286, part 3)

Amp Rating	Marking Code	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 5,000
0466 Series — Very Fast-Acting							
.125	B	F1450CT-ND*	.81	.76	.57	F1450TR-ND	313.20/M
.2	C	F1451CT-ND*	.81	.76	.57	F1451TR-ND	313.20/M
.25	D	F1452CT-ND*	.81	.76	.57	F1452TR-ND	313.20/M
.375	E	F1453CT-ND*	.81	.76	.57	F1453TR-ND	313.20/M
.5	F	F1454CT-ND*	.81	.76	.57	F1454TR-ND	313.20/M
.75	G	F1455CT-ND*	.81	.76	.57	F1455TR-ND	313.20/M
1	H	F1456CT-ND*	.81	.76	.57	F1456TR-ND	313.20/M
1.25	J	F1465CT-ND*	.81	.76	.57	F1465TR-ND	313.20/M
1.5	K	F1462CT-ND*	.81	.76	.57	F1462TR-ND	313.20/M
1.75	L	F1466CT-ND*	.81	.76	.57	F1466TR-ND	313.20/M
2	N	F1457CT-ND*	.81	.76	.57	F1457TR-ND	313.20/M
2.5	O	F1464CT-ND*	.81	.76	.57	F1464TR-ND	313.20/M
3	P	F1458CT-ND*	.81	.76	.57	F1458TR-ND	313.20/M
4	S	F1459CT-ND*	.81	.76	.57	F1459TR-ND	313.20/M
5	T	F1460CT-ND*	.81	.76	.57	F1460TR-ND	313.20/M

• **466-KIT-ND Digi-Key® 466 Series Fuse** *Very Fast Acting Slim Line™ Lead Free* 10 each of parts indicated, plus a plastic storage box **$89.95**

SMF Omni-Blok® Fuse Block with Nano²® Very Fast Acting and Slo-Blo® Fuses

The SMF Omni-Blok® Fuseholder permits quick and easy replacement of Nano²® SMF surface mount fuses. The fuse block and pre-installed fuse combination can be placed on the PC board in one efficient manufacturing operation.



Specifications: • **Electrical:** 10A, 125V • **Molded Parts:** Thermoplastic (94V0) • **Ambient Temperature:** -55°C~125°C • **Soldering Parameters:** Infrared: 445°F (230°C), 30 sec. • **Packaging:** 16mm wide Tape and Reel per EIA Standard 481. Installed fuses have silver plated end caps, installed to accommodate solder reflow process. Use 451 Series Fast Acting Fuse with tin/lead alloy plated end caps for replacement purposes of the 154 Series product. Use 452 Series Slo-Blo® Fuse with tin/lead alloy plated end caps for replacement purposes of the 154xxxT Series.

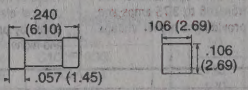
Amp Rating	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 1,500
154 Series – Very Fast Acting						
.250	F1219CT-ND	2.62	2.44	1.84	F1219TR-ND	1010.00/M
.500	F1220CT-ND*	2.62	2.44	1.84	F1220TR-ND	1010.00/M
.750	F1221CT-ND*	2.22	2.07	1.56	F1221TR-ND	857.00/M
1.00	F1222CT-ND*	2.22	2.07	1.56	F1222TR-ND	857.00/M
1.50	F1223CT-ND*	2.22	2.07	1.56	F1223TR-ND	857.00/M
2.00	F1224CT-ND*	2.22	2.07	1.56	F1224TR-ND	857.00/M
2.50	F1225CT-ND*	2.22	2.07	1.56	F1225TR-ND	857.00/M
3.00	F1226CT-ND*	2.22	2.07	1.56	F1226TR-ND	857.00/M
4.00	F1227CT-ND*	2.22	2.07	1.56	F1227TR-ND	857.00/M
5.00	F1228CT-ND*	2.22	2.07	1.56	F1228TR-ND	857.00/M
7.00	F1229CT-ND	2.22	1.59	1.56	F1229TR-ND	857.00/M
8.00	F1239CT-ND	2.22	1.59	1.56	F1239TR-ND	857.00/M
10.00	F1251CT-ND	2.38	1.70	1.67	F1251TR-ND	986.00/M

Amp Rating	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 1,500
154xxxT Series – Slo-Blo®						
.375	F1300CT-ND	3.27	3.04	2.29	F1300TR-ND	1260.00/M
.500	F1301CT-ND*	3.27	3.04	2.29	F1301TR-ND	1260.00/M
.750	F1302CT-ND*	2.88	2.68	2.02	F1302TR-ND	1110.00/M
1.00	F1303CT-ND*	2.88	2.68	2.02	F1303TR-ND	1110.00/M
1.50	F1304CT-ND*	2.88	2.68	2.02	F1304TR-ND	1110.00/M
2.00	F1305CT-ND*	2.88	2.68	2.02	F1305TR-ND	1110.00/M
2.50	F1306CT-ND*	2.88	2.68	2.02	F1306TR-ND	1110.00/M
3.00	F1307CT-ND*	2.88	2.68	2.02	F1307TR-ND	1110.00/M
3.50	F1308CT-ND	2.88	2.68	2.02	F1308TR-ND	1110.00/M
4.00	F1309CT-ND*	2.88	2.68	2.02	F1309TR-ND	1110.00/M
5.00	F1310CT-ND*	2.88	2.68	2.02	F1310TR-ND	1110.00/M

• **154-KIT-ND Digi-Key® 154 Series Fuseblock with Fuse** *Fast Acting and Slo-Blo® Surface Mount Nano²®* 5 each of parts indicated, plus a plastic storage box **$149.95**

Nano²® SMF Very Fast-Acting and Slo-Blo® Fuses

1~5 Amp R451 Series



Nano²® Surface Mount Fuses incorporate proven Picofuse performance and dependability in a flat top design which permits efficient pick and place assembly. • **Recommended Soldering Parameters:** *Infrared Reflow* for 30 sec. is 500°F (260°C) for Very Fast-Acting; 445°F (230°C) for Slo-Blo®. *Wave Solder* is 500°F (260°C) for 10 seconds for Very Fast-Acting; 500°F (260°C) for 3 seconds maximum for Slo-Blo®. • **Construction Materials:** Body is ceramic, Caps are tin-lead alloy plated brass. • **Operating Temperature Range:** -55°C~125°C. • **Voltage Rating:** 125V, 65V: F1155 and F1151

Fast Acting			Slo-Blo®	
Rating	Amps	Blow Time	Rating	Blow Time (Min. / Max.)
100%	1/16~15	4 hours min.	100%	4 hrs. min.
200%	1/16~10	5 sec., max.	200%	1 sec. / 60 sec.
200%	12~15	20 sec., max.	300%	0.2 / 3 sec.
			800%	0.02 / 0.1 sec.

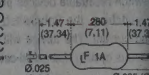
Amp Rating	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 1,000
R451 Series - Very Fast Acting						
.250	F1140CT-ND*	1.01	.94	.71	F1140TR-ND*	419.00
.375	F1152CT-ND	1.01	.94	.71	F1152TR-ND	419.00
.500	F1141CT-ND*	1.01	.94	.71	F1141TR-ND*	419.00
.750	F1142CT-ND*	1.01	.94	.71	F1142TR-ND*	419.00
1.000	F1143CT-ND*	1.01	.94	.71	F1143TR-ND*	419.00
1.250	F2252CT-ND	1.01	.94	.71	F2252TR-ND	419.00
1.500	F1144CT-ND*	1.01	.94	.71	F1144TR-ND*	419.00
1.600	F2253CT-ND	1.01	.94	.71	F2253TR-ND	419.00
2.000	F1145CT-ND*	1.01	.94	.71	F1145TR-ND*	419.00
2.500	F1146CT-ND*	1.01	.94	.71	F1146TR-ND*	419.00
3.000	F1147CT-ND*	1.01	.94	.71	F1147TR-ND*	419.00
3.150	F2254CT-ND	1.01	.94	.71	F2254TR-ND	419.00
3.500	F1153CT-ND	1.01	.94	.71	F1153TR-ND	419.00
4.000	F1148CT-ND*	1.01	.94	.71	F1148TR-ND*	419.00
5.000	F1149CT-ND*	1.01	.94	.71	F1149TR-ND*	419.00
6.300	F2255CT-ND	1.01	.94	.71	F2255TR-ND	419.00
7.000	F1154CT-ND	1.01	.94	.71	F1154TR-ND	419.00
8.000	F2256CT-ND	1.01	.94	.71	F2256TR-ND	419.00
10.000	F1150CT-ND*	1.60	1.49	1.13	F1150TR-ND*	664.00
12.000	F1155CT-ND	1.60	1.49	1.13	F1155TR-ND	664.00
15.000	F1151CT-ND	1.60	1.49	1.13	F1151TR-ND	664.00
R452 Series – Slo-Blo®						
0.375	F1340CT-ND	1.33	1.24	.94	F1340TR-ND	552.00
0.500	F1341CT-ND	1.33	1.24	.94	F1341TR-ND	552.00
0.750	F1342CT-ND	1.33	1.24	.94	F1342TR-ND	552.00
1.000	F1343CT-ND	1.33	1.24	.94	F1343TR-ND	552.00
1.500	F1344CT-ND	1.33	1.24	.94	F1344TR-ND	552.00
2.000	F1345CT-ND	1.33	1.24	.94	F1345TR-ND	552.00
2.500	F1346CT-ND	1.33	1.24	.94	F1346TR-ND	552.00
3.000	F1347CT-ND	1.33	1.24	.94	F1347TR-ND	552.00
3.500	F1348CT-ND	1.33	1.24	.94	F1348TR-ND	552.00
4.000	F1349CT-ND	1.33	1.24	.94	F1349TR-ND	552.00
5.000	F1350CT-ND	1.33	1.24	.94	F1350TR-ND	552.00

• **SMF-KIT-ND** *Digi-Key® Nano²® SMF R451 Series/Pico SMD R459 Series Fuse Kit* 5 each of *Nano²® SMF Fuses* parts indicated and 5 each of *Pico SMD Very Fast-Acting and Slo-Blo® Fuses* **$99.95**

PICO II™ 125 Volt Very Fast-Acting Pico Fuses

1~5 Amp QPL

Patents: U.S. Patent #2,385,281 **Construction Materials:** Body:UL94V0 epoxy coating, green **Ratings:** 300 amps at rated voltage VDC 50A VAC **Operating Temperature:** -55°C~125°C **Specifications:** Taped Spacing 2.062" (52.4mm)



Electrical Characteristics:

Rating	Amperage	Blow Time
100%	1/16~15	4 hours, min.
200%	1/16~7	1 seconds, max.
200%	10	3 seconds, max.
200%	12~15	10 seconds, max.

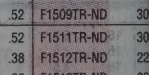
Amp Rating	Volt. Rating	Digi-Key Part No.	Price Each 1	10	1
R251 Series — Non Color-Coded Type (Bulk)					
.0625	125	F820-ND	1.11	1.04	
.125	125	F821-ND*	.70	.66	
.250	125	F822-ND	.70	.66	
.375	125	F823-ND	.70	.66	
.500	125	F824-ND*	.70	.66	
.630	125	F1510-ND	.65	.61	
.750	125	F825-ND*	.52	.49	
1.000	125	F826-ND*	.52	.49	
1.500	125	F827-ND*	.52	.49	
2.000	125	F828-ND*	.52	.49	
2.500	125	F829-ND	.52	.49	
3.000	125	F830-ND*	.52	.49	
3.500	125	F831-ND	.52	.49	
4.000	125	F832-ND*	.52	.49	
5.000	125	F833-ND*	.52	.49	
7.000	125	F834-ND	.52	.49	
10.000	125	F835-ND	.52	.49	
12.000	32	F836-ND	.70	.66	
15.000	32	F837-ND	.70	.66	

Amp. Rating	Volt. Rating	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T Pr 1,
R251 Series — Non Color-Coded Type (Cut Tape and Tape Reel)							
.0625	125	F1505CT-ND	1.07	.77	.75	F1505TR-ND	44
.125	125	F1506CT-ND	.73	.53	.52	F1506TR-ND	30
.250	125	F1507CT-ND	.73	.53	.52	F1507TR-ND	30
.375	125	F1508CT-ND	.73	.53	.52	F1508TR-ND	30
.500	125	F1509CT-ND	.73	.53	.52	F1509TR-ND	30
.630	125	F1511CT-ND	.73	.53	.52	F1511TR-ND	30
.750	125	F1512CT-ND	.54	.39	.38	F1512TR-ND	22
1.000	125	F1513CT-ND	.54	.39	.38	F1513TR-ND	22
1.500	125	F1514CT-ND	.54	.39	.38	F1514TR-ND	22
2.000	125	F1515CT-ND	.54	.39	.38	F1515TR-ND	22
2.500	125	F1516CT-ND	.54	.39	.38	F1516TR-ND	22
3.000	125	F1517CT-ND	.54	.39	.38	F1517TR-ND	22
3.500	125	F1518CT-ND	.54	.39	.38	F1518TR-ND	22
4.000	125	F1519CT-ND	.54	.39	.38	F1519TR-ND	22
5.000	125	F1520CT-ND	.54	.39	.38	F1520TR-ND	22
7.000	125	F1521CT-ND	.54	.39	.38	F1521TR-ND	22
10.000	125	F1522CT-ND	.54	.39	.38	F1522TR-ND	22
12.000	32	F1523CT-ND	.73	.53	.52	F1523TR-ND	30
15.000	32	F1524CT-ND	.73	.53	.52	F1524TR-ND	30

Slo-Blo® Pico Fuses

1~5 Amp

Construction Materials: Body-UL94V0 epoxy coating, gold. Leads-solder coated copper wire. **Operating Temperature Range:** -55°C~125°C.



Electrical Characteristics:

Rating	Blow Time	Rating	Blow Time
100%	4 hrs., min.	200%	60 sec., ma
300%	3 sec., max.	800%	0.1 sec., ma

Amp Rating	Digi-Key Part No.	Cut Tape Price Each 1	10	Digi-Key Part No.	T&R Pricin 4,00
473 Series - Non-Color Coded Type					
.500	F1200CT-ND*	1.93	1.80	F1200TR-ND	745.0
.750	F1201CT-ND*	1.93	1.80	F1201TR-ND	745.0
1.000	F1202CT-ND*	1.93	1.80	F1202TR-ND	745.0
1.500	F1203CT-ND*	1.93	1.80	F1203TR-ND	745.0
2.000	F1204CT-ND*	1.93	1.80	F1204TR-ND	745.0
2.500	F1205CT-ND	1.93	1.80	F1205TR-ND	745.0
3.000	F1206CT-ND*	1.93	1.80	F1206TR-ND	745.0
3.500	F1207CT-ND*	1.93	1.80	F1207TR-ND	745.0
4.000	F1208CT-ND*	1.93	1.80	F1208TR-ND	745.0
5.000	F1209CT-ND*	1.93	1.80	F1209TR-ND	745.0
7.000	F2257CT-ND	1.93	1.80	F2257TR-ND	745.2

• **251-473-KIT-ND Digi-Key® 251 Series Fuse** *Very Fast Acting* and *Series Fuse Slo-Blo® Axial Pico II™* 5 each of parts indicated, plastic s box not included. ..... $

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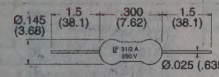
Littelfuse®

ICO II™ 250 Volt Very Fast-cting Pico Fuses



errupting Rating: 50 Amperes at 250 VAC
nstruction Materials: Encapsulated, epoxy-coated body; solder ated copper leads; green in color

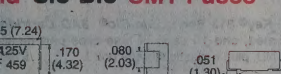
ctrical Characteristics:

% Amp. Rating	Opening Time (Min./Max.)
100%	4 hours, min.
200%	1 sec. max.
300%	0.1 sec. max.

Amp. Rating	Volt. Rating	Digi-Key Part No.	Price Each 1	10	100
263 Series					
.062	250	F880-ND	2.44	2.27	1.71
.125	250	F881-ND	1.94	1.81	1.36
.250	250	F882-ND	1.94	1.81	1.36
.375	250	F883-ND	1.94	1.81	1.36
.500	250	F884-ND	1.94	1.81	1.36
.750	250	F885-ND	1.60	1.49	1.13
1.00	250	F886-ND	1.60	1.49	1.13
1.50	250	F887-ND	1.60	1.49	1.13
2.00	250	F888-ND	1.60	1.49	1.13
2.50	250	F889-ND	1.60	1.49	1.13
3.00	250	F890-ND	1.60	1.49	1.13
3.50	250	F891-ND	1.60	1.49	1.13
4.00	250	F892-ND	1.60	1.49	1.13
5.00	250	F893-ND	1.60	1.49	1.13

co SMD Very Fast-Acting nd Slo-Blo®SMT Fuses

1-5 Amp R460 Series



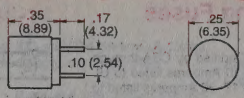
A Case Code 7343 Laser etched for ease of identification.
Operating Temperature: -55°C~125°C • **Soldering Methods:** *rared Reflow* is 500°F (260°C) maximum temperature for Very st-Acting; 446°F (230°C) maximum temperature for Slo-Blo®. *Thru wave soldering* is 500°F (260°C),10 seconds maximum. • **Voltage ting:** 125

Rating	Fast-Acting Blow Time	Slo-Blo® Blow Time
100%	4 hrs. min.	4 hrs., min.
200%	1 sec. max.	60 sec., max.
300%	—	3 sec., max.
800%	—	0.1 sec. max.

mp. ting	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T&R Pricing 500
R459 Series – Very Fast-Acting						
.25	F1160CT-ND	1.28	1.19	.90	F1160TR-ND	293.00
250	F1161CT-ND	.92	.86	.65	F1161TR-ND	211.00
375	F1162CT-ND•	1.28	1.19	.90	F1162TR-ND•	293.00
500	F1163CT-ND•	.95	.89	.67	F1163TR-ND•	217.50
750	F1164CT-ND•	.95	.89	.67	F1164TR-ND•	217.50
000	F1165CT-ND•	.95	.89	.67	F1165TR-ND•	217.50
500	F1166CT-ND•	.95	.89	.67	F1166TR-ND•	217.50
000	F1167CT-ND•	.95	.89	.67	F1167TR-ND•	217.50
500	F1168CT-ND•	.95	.89	.67	F1168TR-ND•	217.50
000	F1169CT-ND•	.95	.89	.67	F1169TR-ND•	217.50
500	F1170CT-ND•	.95	.89	.67	F1170TR-ND•	217.50
000	F1171CT-ND•	.95	.89	.67	F1171TR-ND•	217.50
000	F1172CT-ND•	.95	.89	.67	F1172TR-ND•	217.50
R460 Series – Slo-Blo®						
375	F1180CT-ND•	2.02	1.88	1.42	F1180TR-ND•	461.50
500	F1181CT-ND•	2.02	1.88	1.42	F1181TR-ND•	461.50
750	F1182CT-ND	2.02	1.88	1.42	F1182TR-ND	461.50
000	F1183CT-ND•	2.02	1.88	1.42	F1183TR-ND•	461.50
500	F1184CT-ND•	2.02	1.88	1.42	F1184TR-ND•	461.50
000	F1185CT-ND•	2.02	1.88	1.42	F1185TR-ND•	461.50
500	F1186CT-ND	2.02	1.88	1.42	F1186TR-ND	461.50
000	F1187CT-ND•	2.02	1.88	1.42	F1187TR-ND•	461.50
500	F1188CT-ND	2.02	1.88	1.42	F1188TR-ND	461.50
000	F1189CT-ND•	2.02	1.88	1.42	F1189TR-ND•	461.50
000	F1190CT-ND•	2.02	1.88	1.42	F1190TR-ND•	461.50

MF-KIT-ND ***Digi-Key® Pico SMD R451 Series/Nano² SMF R459 ries Fuse Kit*** 5 each of ***Pico SMD Fuses*** parts indicated and 5 ch of ***Nano² SMF Very Fast-Acting and SloBlo® Fuses***.... **$99.95**

Microfuse Very Fast-Acting Type



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Approvals: Recognized under the Components Program of Underwriters Laboratories and Certified by CSA
Operating Temperature Range: -55°C~85°C

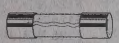
Electrical Characteristics:

Rating	Amperage	Opening Time
100%	1/500 — 5	4 hrs., min.
200%	1/500 — 3/10	5 sec., max.
200%	4/10 — 5	2 sec., max.

Amp. Rating	Volt. Rating	Digi-Key Part No.	Price Each 1	100	250
273 Series — Fast-Acting Type					
.031	125	F854-ND	23.37	19.13	17.00
.050	125	F855-ND	4.06	3.33	2.96
.100	125	F857-ND	4.01	3.29	2.92
.125	125	F858-ND	4.01	3.29	2.92
.200	125	F859-ND	6.22	5.09	4.53
.250	125	F860-ND	4.01	3.29	2.92
.300	125	F861-ND	4.01	3.29	2.92
.400	125	F862-ND	4.01	3.29	2.92
.500	125	F863-ND	4.01	3.29	2.92
.600	125	F864-ND	6.22	5.09	4.53
.700	125	F865-ND	6.22	5.09	4.53
.750	125	F866-ND	4.06	3.33	2.96
1.000	125	F868-ND	4.01	3.29	2.92
1.500	125	F869-ND	4.01	3.29	2.92
2.000	125	F870-ND	4.01	3.29	2.92
3.000	125	F871-ND	4.01	3.29	2.92
4.000	125	F872-ND	4.01	3.29	2.92
5.000	125	F873-ND	4.01	3.29	2.92

Metric (5x20mm) Fuses

Fast-Acting High Breaking Capacity 216 Series
Fast-Acting 217 Series
Slo-Blo® 218 Series



Electrical Characteristics:

Amp. (%)	216 Series .05~3.15A	216 Series 4~10A	217 Series .032~.100A	217 Series .125~10A	218 Series .032~.100A	218 Series .125~10A
150	60 min. minimum	60 min. minimum	60 min. minimum	60 min. minimum	60 min. minimum	60 min. minimum
210	30 min. maximum	30 min. maximum	30 min. maximum	30 min. maximum	2 min. maximum	2 min. maximum
275	0.01~2 sec.	0.01~3 sec.	0.01~0.5 sec.	0.05~2 sec.	0.2~10 sec.	0.6~10 sec.
400	0.003~0.3 sec.	0.003~0.3 sec.	0.003~0.1 sec.	0.01~0.3 sec.	0.04~3 sec.	0.15~3 sec.
1000	0.02 sec. maximum	0.02 sec. maximum	0.02 sec. maximum	0.02 sec maximum	0.01~0.3 sec.	0.02~0.3 sec.

Approvals:
216 Series: SEMKO approved thru 6.3 Amperes; UL and CSA recognized. BSI 1~6.3 Amperes, VDE approved .050~6.3 Amperes
217 Series: SEMKO, VDE approved thru 6.3 Amperes; BSI approved .4~6.3 Amperes; UL and CSA recognized to 6.3 Amperes only.
218 Series: SEMKO,VDE approved thru 6.3 Amperes; BSI approved .05~6.3 Amperes; UL and CSA recognized.

Interrupting Capacity:
216 Series: 1500 Amperes
217 Series: 35 Amperes or 10 x rated current, whichever is greater
218 Series: 35 Amperes or 10 x rated current, whichever is greater.

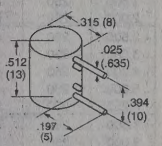
Amp. Rating	Volt. Rating	Digi-Key Part No.	Price Each 5	100	250
216 Series — Fast-Acting High Breaking Capacity; Ceramic Body					
.050	250	F900-ND•	1.50	1.13	1.00
.080	250	F902-ND	1.50	1.13	1.00
.100	250	F903-ND•	1.20	.90	.80
.125	250	F904-ND•	1.20	.90	.80
.160	250	F905-ND	1.20	.90	.80
.200	250	F906-ND	1.20	.90	.80
.250	250	F907-ND•	1.20	.90	.80
.315	250	F908-ND•	1.20	.90	.80
.400	250	F909-ND	1.20	.90	.80
.500	250	F910-ND•	1.20	.90	.80
.630	250	F911-ND•	1.20	.90	.80
.800	250	F912-ND•	1.20	.90	.80
1.000	250	F913-ND•	1.20	.90	.80
1.250	250	F914-ND•	1.20	.90	.80
1.600	250	F915-ND	1.20	.90	.80
2.000	250	F916-ND•	1.20	.90	.80
2.500	250	F917-ND•	1.20	.90	.80
3.150	250	F918-ND•	1.20	.90	.80
4.000	250	F919-ND•	1.20	.90	.80
5.000	250	F920-ND•	1.20	.90	.80
6.300	250	F921-ND•	1.20	.90	.80
8.000	250	F922-ND•	1.50	1.13	1.00
10.000	250	F923-ND•	1.50	1.13	1.00
217 Series — Fast-Acting Type					
.032	250	F930-ND	1.44	1.08	.96
.040	250	F931-ND	1.44	1.08	.96
.050	250	F932-ND	1.44	1.08	.96
.063	250	F933-ND	1.44	1.08	.96
.080	250	F934-ND	1.44	1.08	.96
.100	250	F935-ND§	1.44	1.08	.96
.125	250	F936-ND§	1.44	1.08	.96
.160	250	F937-ND	.85	.64	.57
.200	250	F938-ND	.85	.64	.57
.250	250	F939-ND§	.85	.64	.57
.315	250	F940-ND§	.85	.64	.57
.400	250	F941-ND	.85	.64	.57
.500	250	F942-ND§	.26	.20	.18
.630	250	F943-ND§	.26	.20	.18
.800	250	F944-ND§	.26	.20	.18
1.000	250	F945-ND§	.26	.20	.18
1.250	250	F946-ND§	.26	.20	.18
1.600	250	F947-ND§	.26	.20	.18
2.000	250	F948-ND§	.26	.20	.18
2.500	250	F949-ND§	.26	.20	.18
3.150	250	F950-ND§	.26	.20	.18
4.000	250	F951-ND§	.26	.20	.18
5.000	250	F952-ND§	.26	.20	.18
6.300	250	F953-ND§	.26	.20	.18
8.000	250	F954-ND§	.97	.73	.65
10.000	250	F955-ND§	.97	.73	.65
218 Series — Slo-Blo® Type					
.032	250	F960-ND	1.93	1.45	1.29
.040	250	F961-ND	1.93	1.45	1.29
.050	250	F962-ND	1.93	1.45	1.29
.063	250	F963-ND	1.93	1.45	1.29
.080	250	F964-ND	1.93	1.45	1.29
.100	250	F965-ND†	1.13	.85	.75
.125	250	F966-ND†	1.13	.85	.75
.160	250	F967-ND	1.13	.85	.75
.200	250	F968-ND	1.13	.85	.75
.250	250	F969-ND†	1.13	.85	.75
.315	250	F970-ND†	1.13	.85	.75
.400	250	F971-ND	1.13	.85	.75
.500	250	F972-ND†	.78	.58	.52
.630	250	F973-ND†	.78	.58	.52
.800	250	F974-ND†	.78	.58	.52
1.000	250	F975-ND†	.78	.58	.52
1.250	250	F976-ND†	.78	.58	.52
1.600	250	F977-ND†	.78	.58	.52
2.000	250	F978-ND†	.78	.58	.52
2.500	250	F979-ND†	.78	.58	.52
3.150	250	F980-ND†	.78	.58	.52
4.000	250	F981-ND†	.78	.58	.52
5.000	250	F982-ND†	.78	.58	.52
6.300	250	F983-ND†	.78	.58	.52
8.000	250	F984-ND†	1.21	.91	.81
10.000	250	F985-ND†	1.21	.91	.81
15.000	250	F2229-ND	1.21	.91	.81

• **216-KIT-ND Digi-Key® 216 Series Fuse** ***Fast Acting High Breaking Capacity*** 5 each of parts indicated, plus a plastic storage box..... **$159.97**

§ **217-KIT-ND Digi-Key® 217 Series Fuse** ***Fast Acting*** 5 each of parts indicated, plus a plastic storage box..... **$39.95**

† **218-KIT-ND Digi-Key® 218 Series Fuse** ***Slo-Blo*** 5 each of parts indicated, plus a plastic storage box..... **$59.95**

Safe-T-Plus Fuses



• Designed to allow equipment to meet "Intrinsically Safe" certification for applications in gas plants, petrochemical and processing industries where there is a danger of gas explosion from faulty circuits. • Hermetically sealed.
Voltage Rating: 125V. **Interrupting Ratings:** 50 Amperes at 125 VAC; 300 Amperes at 125 VDC

Agency Approvals:
Meets CENELEC EN50 014 to 039 and IEC 60079-11 and BASEEFA BS 5501, part 7.

Electrical Characteristics:

% Amp. Rating	Opening Time
100%	4 hours, min.
200%	5 seconds, max.

Amp. Rating	Volt. Drop	Digi-Key Part No.	Price Each 1	100	250
259 Series					
.062	2.1	F1311-ND	4.62	2.74	2.43
.125	1.3	F1312-ND	4.86	2.88	2.56
.250	0.83	F1313-ND	4.86	2.88	2.56
.375	0.81	F1314-ND	4.86	2.88	2.56
.500	0.78	F1315-ND	4.86	2.88	2.56
.750	0.23	F1316-ND	4.86	2.88	2.56
1.000	0.24	F1317-ND	4.86	2.88	2.56

Schedule of Limitations:
1. The fuse must be so mounted that creepage and clearance distances meet the requirements of Table 2 of EN50020 :1977 or Table 4 of EN500020: 1994 (equivalent to IEC 60079-11 4th Edition 1999).
2. When used in intrinsically safe apparatus it will be necessary to determine a surface temperature classification for the fuse.

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Littelfuse®

3AB Ceramic Body Fast-Acting Fuses

Dimensions: Diameter: 1/4" (6.35mm); Length: 1-1/4" (31.75mm).
Approvals: Listed by UL and Certified by CSA through 15 Amperes at 250 VAC / 125 VDC. Recognized under the Components Program of U.L. from 20~30 Amperes, certified by CSA at 20 Amperes and approved by METI from 10~30 Amperes.

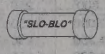
Electrical Characteristics:

Rating	Amperage	Blow Time
110%	1/8 ~ 30	4 hrs., min.
135%	1/8 ~ 30	1 hr., max.
200%	1/8 ~ 12	15 sec., max.
	15 ~ 30	360 sec., max.

Amp. Rating	Volt. Rating	Digi-Key Part No.	Price Each 5	100	250
314 Series — Cartridge Type					
.125	250	F150-ND	1.17	.88	.78
.250	250	F151-ND	.81	.61	.54
.500	250	F153-ND	.81	.61	.54
1.000	250	F155-ND	.76	.57	.51
2.000	250	F156-ND	.76	.57	.51
3.000	250	F157-ND	.76	.57	.51
4.000	250	F158-ND	.76	.57	.51
5.000	250	F159-ND	.72	.54	.48
6.000	250	F160-ND	.72	.54	.48
7.000	250	F161-ND	.72	.54	.48
8.000	250	F162-ND	.72	.54	.48
10.000	250	F163-ND	.72	.54	.48
12.000	250	F164-ND	.72	.54	.48
15.000	250	F165-ND	.72	.54	.48
20.000	250	F166-ND	1.07	.80	.71
25.000	125	F167-ND	1.07	.80	.71
30.000	125	F168-ND	1.07	.80	.71

3AB Ceramic Body Slo-Blo® Fuses

Dimensions: Diameter: 1/4" (6.35mm); Length: 1-1/4" (31.75mm)
Patents: U.S. Patents #4,409,729 and #4,445,106
Approvals: Certified by CSA from .250~30 Amperes. Recognized under the component program of Underwriters Laboratories for 12~30 Amperes. Listed by Underwriters Laboratories from .250~10 Amperes.

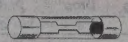


Electrical Characteristics:

Rating	Blow Time
110%	4 hrs., min.
135%	1 hr., max.
200%	5 sec., min.

Amp. Rating	Volt. Rating	Digi-Key Part No.	Price Each 5	100	250
326 Series — Cartridge Type					
.0312	250	F451-ND	2.80	2.10	1.87
.100	250	F453-ND	1.90	1.43	1.27
.125	250	F454-ND	1.90	1.43	1.27
.250	250	F459-ND	1.82	1.36	1.21
.375	250	F461-ND	1.82	1.36	1.21
.500	250	F463-ND	1.82	1.36	1.21
.750	250	F466-ND	1.82	1.36	1.21
1.000	250	F468-ND	1.82	1.36	1.21
1.500	250	F471-ND	1.82	1.36	1.21
2.000	250	F473-ND	1.82	1.36	1.21
2.500	250	F474-ND	1.27	.95	.85
3.000	250	F476-ND	1.27	.95	.85
4.000	250	F478-ND	1.27	.95	.85
5.000	250	F479-ND	1.27	.95	.85
6.250	250	F480-ND	1.27	.95	.85
7.000	250	F481-ND	1.27	.95	.85
8.000	250	F482-ND	1.27	.95	.85
10.000	250	F483-ND	1.27	.95	.85
12.000	250	F484-ND	1.27	.95	.85
15.000	250	F485-ND	1.27	.95	.85
20.000	250	F486-ND	1.27	.95	.85
25.000	125	F487-ND	1.27	.95	.85
30.000	125	F488-ND	1.27	.95	.85

3AG Low Voltage Normal-Blow Fuses



Dimensions: Dia.: 1/4" (6.35mm); Length: 1-1/4" (31.75mm)
Approvals: Listed by UL and Certified by CSA through 30 Amperes
Design Standards: UL Standard 275.

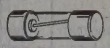
Electrical Characteristics:

Rating	Blow Time
110%	4 hrs., min.
135%	1 hr., max.
200%	10 sec., max.

Amp. Rating	Volt. Rating	Digi-Key Part No.	Price Each 5	100	250
311 Series — Normal-Blow Type					
6.000	32	F2237-ND	.28	.21	.18
7.000	32	F2238-ND	.28	.21	.18
35.000	32	F144-ND	.28	.21	.18

3AG Glass Body Fast-Acting Fuses

Approvals:
Listed by UL and Certified by CSA through 30 Amperes. .010~10 Amperes listed to UL 248-14 (UL 198-G) 12~30 Amperes listed to UL 275.
Dimensions:
312 Series: Diameter: 1/4" (6.35mm); Length: 1-1/4" (31.75mm). **318 Series:** Diameter: .275" (6.99mm); Length: 1.275" (32.39mm); Pigtail Diameter: .032" (.81mm); Pigtail Length: 1.50" (38.10mm); Pigtail Material: Solder-coated copper.



Electrical Characteristics:

Rating	Blow Time
110%	4 hrs., min.
135%	1 hr., max.
200%	5 sec., max.

Amp. Rating	Volt. Rating	Digi-Key Part No.	Price Each 5	100	250
312 Series — Cartridge Type					
.010	250	F100-ND	7.03	5.27	4.69
.031	250	F101-ND•	7.03	5.27	4.69
.062	250	F102-ND•	.83	.63	.56
.100	250	F103-ND•	.83	.63	.56
.125	250	F104-ND•	.83	.63	.56
.150	250	F105-ND	.83	.63	.56
.175	250	F106-ND•	.83	.63	.56
.200	250	F108-ND•	.83	.63	.56
.250	250	F109-ND•	.51	.39	.34
.300	250	F110-ND•	.51	.39	.34
.375	250	F111-ND•	.51	.39	.34
.500	250	F112-ND•	.36	.27	.24
.600	250	F113-ND•	.36	.27	.24
.750	250	F114-ND•	.36	.27	.24
1.000	250	F115-ND•	.23	.17	.15
1.250	250	F116-ND•	.23	.17	.15
1.500	250	F117-ND•	.23	.17	.15
1.600	250	F118-ND•	.23	.17	.15
1.750	250	F2241-ND•	.23	.17	.15
1.800	250	F2242-ND•	.23	.17	.15
2.250	250	F2243-ND•	.23	.17	.15
2.000	250	F119-ND•	.23	.17	.15
2.500	250	F120-ND•	.23	.17	.15
3.000	250	F121-ND•	.23	.17	.15
4.000	250	F122-ND•	.35	.26	.23
5.000	250	F123-ND•	.35	.26	.23
6.000	250	F124-ND•	.35	.26	.23
7.000	250	F125-ND•	.35	.26	.23
8.000	250	F126-ND•	.47	.36	.32
10.000	250	F127-ND•	.47	.36	.32
12.000	32	F2244-ND•	.25	.19	.17
15.000	32	F2245-ND•	.25	.19	.17
20.000	32	F2246-ND•	.25	.19	.17
25.000	32	F2247-ND•	.25	.19	.17
30.000	32	F2248-ND•	.25	.19	.17
35.000	32	F2249-ND•	.25	.19	.17
318 Series — Pigtail Type					
.125	250	F208-ND	1.45	1.09	.97
.250	250	F209-ND	.89	.67	.60
.500	250	F212-ND	.89	.67	.60
1.000	250	F215-ND	.64	.48	.43
1.500	250	F217-ND	.64	.48	.43
2.000	250	F219-ND	.64	.48	.43
3.000	250	F221-ND	.64	.48	.43
4.000	250	F222-ND	.70	.51	.46
5.000	250	F223-ND	.70	.51	.46
6.000	250	F224-ND	.70	.51	.46
8.000	250	F226-ND	.70	.51	.46

• **312-KIT-ND Digi-Key® 312 Series *Fast Acting 3AG Cartridge*** 5 each of parts indicated, and 10 ea of fuse clips part numbers F040-ND and F052-ND, plus a plastic storage box **$89.95**

3AG Glass Body Slo-Blo® Fuses

1-5 Amps
313 Series
QPL

Patents:
U.S. Patents #4,409,729 and #4,445,106.
Approvals:
Listed by Underwriters Laboratories and Certified by CSA through 8 Amperes. Recognized under the Components Program of UL from 10 through 30 Amperes. 313 000 Series approved by METI from 1~5 Amperes.
Dimensions:
313 Series: Dia.: 1/4" (6.35mm), Length: 1-1/4" (31.75mm).
315 Series: Dia.: .275" (6.99mm), Length: 1.275" (32.39mm); Pigtail Dia.: .032" (.81mm); Pigtail Material: Solder-coated copper.

Electrical Characteristics:

Rating	Blow Time
110%	4 hrs., min.
135%	1 hr., max.
200%	5 sec., min.

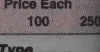
Amp. Rating	Volt. Rating	Digi-Key Part No.	Price Each 5	100	250
313 Series — Cartridge Type					
.010	250	F300-ND	2.32	1.74	1.55
.031	250	F301-ND	2.32	1.74	1.55
.040	250	F302-ND•	2.32	1.74	1.55
.062	250	F303-ND•	1.68	1.26	1.12
.100	250	F304-ND•	1.68	1.26	1.12
.125	250	F305-ND•	1.68	1.26	1.12
.150	250	F306-ND	1.68	1.26	1.12
.175	250	F307-ND	1.68	1.26	1.12
.187	250	F308-ND•	1.68	1.26	1.12
.200	250	F309-ND•	1.68	1.26	1.12
.250	250	F310-ND•	1.02	.76	.68
.300	250	F311-ND•	1.02	.76	.6
.375	250	F312-ND•	1.02	.76	.6
.400	250	F313-ND•	1.02	.76	.6
.500	250	F314-ND•	.97	.73	.6
.600	250	F315-ND•	.97	.73	.6
.700	250	F316-ND	.97	.73	.6
.750	250	F317-ND•	.97	.73	.6
.800	250	F318-ND•	.97	.73	.6
1.000	250	F319-ND•	.97	.73	.6
1.200	250	F320-ND	.74	.56	.4
1.250	250	F321-ND•	.74	.56	.4
1.500	250	F322-ND•	.74	.56	.4
1.600	250	F323-ND•	.74	.56	.4
2.000	250	F325-ND•	.74	.56	.4
2.250	250	F326-ND•	.74	.56	.4
2.500	250	F327-ND•	.74	.56	.4
2.800	250	F328-ND	.74	.56	.4
3.000	250	F329-ND•	.74	.56	.4
3.200	250	F330-ND•	.74	.56	.4
4.000	250	F331-ND•	.74	.56	.4
5.000	250	F332-ND•	.74	.56	.4
6.250	250	F333-ND•	.74	.56	.4
6.300	250	F2250-ND	.74	.56	.4
7.000	250	F334-ND•	.74	.56	.4
8.000	250	F335-ND•	.74	.56	.4
10.000	32	F336-ND•	1.08	.81	.7
12.000	32	F337-ND•	1.08	.81	.7
15.000	32	F338-ND•	1.08	.81	.7
20.000	32	F339-ND•	1.08	.81	.7
25.000	32	F340-ND•	1.08	.81	.7
30.000	32	F341-ND•	1.08	.81	.7
315 Series — Pigtail Type					
1.000	250	F419-ND	1.14	.86	.7
1.500	250	F422-ND	1.14	.86	.7
2.000	250	F425-ND	1.14	.86	.7
3.000	250	F429-ND	1.14	.86	.7
4.000	250	F431-ND	1.21	.90	.8
5.000	250	F432-ND	1.21	.90	.8
7.000	250	F434-ND	1.21	.90	.8

• **313-KIT-ND Digi-Key® 313 Series *Slo-Blo® 3AG Cartridg*** each of parts indicated, and 10 each of fuse clips part numb F040-ND and F052-ND, plus a plastic storage box $10

8AG Fast-Acting Instrument Fuses

Electrical Characteristics:

Rating	Blow Time
100%	4 hrs., min.
200%	5 sec., max.



Amp. Rating	Volt. Rating	Digi-Key Part No.	Price Each 5	100	250
361 Series — Fast-Acting Type					
.250	250	F506-ND	.72	.54	.48
.375	250	F507-ND	.72	.54	.48
.750	250	F509-ND	.72	.54	.48
2.000	250	F512-ND	.43	.32	.29
3.000	125	F513-ND	.44	.33	.29

8AG Fast-Acting Fuses

Approvals:
Listed by UL through 6 Amperes. Certified by CSA from 0.25 through 5 Amperes.
Sold in multiples of 5.

Electrical Characteristics:

Rating	Blow Time
110%	4 hrs., min.
135%	1 hr., max.
200%	10 sec., max.

Amp. Rating	Volt. Rating	Digi-Key Part No.	Price Each 5	100	250
362 Series — Fast-Acting Type					
.125	250	F600-ND	1.06	.80	.71
.250	250	F601-ND	.66	.49	.44
1.500	250	F604-ND	.42	.31	.28
3.000	125	F607-ND	.42	.31	.28
5.000	125	F608-ND	.28	.21	.19
6.000	125	F609-ND	.28	.21	.19
8.000	32	F610-ND	.28	.21	.19
10.000	32	F611-ND	.28	.21	.19
20.000	32	F613-ND	.28	.21	.19

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CKMANN

5 Sub-Miniature ses – IEC 60127-3

vals:
Series: SEMKO Approved, cULus nized, CCC Approved (.050A-6.30A), Approved (.050A-5.00A) Expert Report A), METI Approved (1.00A-4.00A) g (5.00A)
Series: SEMKO Approved, cULus Recognized, CCC Approved -6.30A), VDE Approved (.050A-4.00A) Expert Report (5.00A, , METI Approved (1.00A-4.00A)
Series: SEMKO Approved, cULus Recognized, CCC Approved -6.30A), VDE Approved (1.00A-4.00A) Expert Report (5.00A, , METI Approved (1.00A-5.00A)
ial:
e and Cap: Brown thermoplastic, Polyamide PA 6.6, UL94-V0 d Pins: Copper alloy, tin-plated
res:
acting and Time-lag • Soldering Heat Resistance: 260°C, 10s 0068-2-20) • Plug-in holders available
ical Characteristics:

	Pre-arcing Rating			
%	210%	275%	400%	1000%
	Series 370 — 50mA-6.30A			
r.	<30 min.	10ms -3sec.	3-300ms	<20ms
	Series 372 — 50mA-6.30A			
r.	<2 min.	400ms-10sec.	150ms-3sec.	20-150ms
	Series 382 — 1.00A-6.30A			
r.	<2 min.	400ms-10sec.	150ms-3sec.	20-150ms

KING CAPACITY: 370 and 372 Series: 35A at 250VAC for 3.15A), 40A for (4.00A), 50A for (5.00A, 6.30A) 382 Series: t 250VAC (1.00-6.30A)

	Volt. Rtg.	Digi-Key Part No.	Bulk Price Each 1	10	100
		Fast-Acting 370 Series (IEC 60127-3/III)			
	250	WK4922BK-ND	2.47	2.28	1.71
	250	WK4925BK-ND	1.92	1.77	1.33
	250	WK4926BK-ND	1.79	1.65	1.24
	250	WK4927BK-ND	.49	.45	.34
	250	WK4928BK-ND	.49	.45	.34
	250	WK4930BK-ND	.49	.45	.34
	250	WK4934BK-ND	.49	.45	.34
	250	WK4935BK-ND•	.49	.45	.34
	250	WK4937BK-ND	.49	.45	.34
	250	WK4940BK-ND	.49	.45	.34
	250	WK4941BK-ND	.49	.45	.34
	250	WK4943BK-ND	.49	.45	.34
	250	WK4946BK-ND	.49	.45	.34
	250	WK4948BK-ND•	.49	.45	.34
	250	WK4950BK-ND•	.49	.45	.34
	250	WK4953BK-ND•	.49	.45	.34
	250	WK4957BK-ND•	.49	.45	.34
	250	WK4958BK-ND	.49	.45	.34
	250	WK4924BK-ND	.49	.45	.34
	250	WK4962BK-ND	.49	.45	.34
	250	WK4963BK-ND	.49	.45	.34
	250	WK4964BK-ND†	.49	.45	.34
		Time-Lag 372 Series (IEC 60127-3/IV)			
	250	WK4222BK-ND	.74	.69	.52
	250	WK4225BK-ND	.71	.66	.50
	250	WK4226BK-ND	.63	.59	.44
	250	WK4227BK-ND	.63	.59	.44
	250	WK4228BK-ND	.58	.54	.41
	250	WK4230BK-ND•	.58	.54	.41
	250	WK4234BK-ND•	.55	.51	.39
	250	WK4235BK-ND	.55	.51	.39
	250	WK4237BK-ND•	.55	.51	.39
	250	WK4240BK-ND	.55	.51	.39
	250	WK4241BK-ND•	.55	.51	.39
	250	WK4243BK-ND•	.55	.51	.39
	250	WK4246BK-ND•	.55	.51	.39
	250	WK4248BK-ND•	.55	.51	.39
	250	WK4250BK-ND	.55	.51	.39
	250	WK4253BK-ND•	.55	.51	.39
	250	WK4257BK-ND•	.55	.51	.39
	250	WK4258BK-ND•	.55	.51	.39
	250	WK4224BK-ND•	.55	.51	.39
	250	WK4262BK-ND•	.59	.55	.41
	250	WK4263BK-ND	.59	.55	.41
	250	WK4264BK-ND†	.59	.55	.41
		Time-Lag High Breaking 382 Series (IEC 60127-3/IV)			
	250	WK6207BK-ND	.55	.51	.39
	250	WK6208BK-ND	.55	.51	.39
	250	WK6209BK-ND	.55	.51	.39
	250	WK6210BK-ND	.55	.51	.39
	250	WK6211BK-ND	.55	.51	.39
	250	WK6212BK-ND	.55	.51	.39
	250	WK6213BK-ND†	.55	.51	.39

ducting Path min.: 2mm²

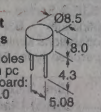
0113-KIT-ND *Digi-Key® TR5 Sub-Miniature Fuse IEC 7-3 Kit* 10 each of *TR5 Sub-Miniature Fuses* indicated each of *TR5 Fuseholders* (WK0001-ND).....$74.95

TR5 Sub-Miniature Fuses – UL 248-14

Approvals: 373 and 374 Series: UL Listed, CSA Certified Approved (.050A-10A)

Material: • Base and cap: Brown thermoplastic UL 94-V0, insulated • Round Pins: Copper alloy, tin-plated

Short Leads



Features: • Fast-acting and Time-lag • Soldering Heat Resistance: 260°C, 10 sec, IEC-60068-2-20 • Plug-in holders available

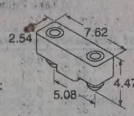
Electrical Characteristics:

Series	Rated Current	Pre-arcing Rating 100%	200%
373	50mA-10.A	4 hr. min.	5 sec. max.
374	50mA-10.00A	4 hr. min.	60 sec.max.

Amp Rtg.	Volt. Rtg.	Digi-Key Part No.	Bulk Price Each 1	10	100
		Fast-Acting 373 Series			
.050	250	WK3022BK-ND	3.19	2.94	2.21
.063	250	WK3025BK-ND	2.08	1.92	1.44
.080	250	WK3026BK-ND	2.05	1.89	1.42
.100	250	WK3027BK-ND	.60	.56	.42
.125	250	WK3028BK-ND	.60	.56	.42
.160	250	WK3030BK-ND	.60	.56	.42
.200	250	WK3034BK-ND	.60	.56	.42
.250	250	WK3035BK-ND•	.60	.56	.42
.315	250	WK3037BK-ND	.60	.56	.42
.400	250	WK3040BK-ND	.60	.56	.42
.500	250	WK3041BK-ND•	.60	.56	.42
.630	250	WK3043BK-ND	.60	.56	.42
.800	250	WK3046BK-ND	.60	.56	.42
1.00	250	WK3048BK-ND•	.60	.56	.42
1.25	250	WK3050BK-ND•	.60	.56	.42
1.60	250	WK3053BK-ND	.60	.56	.42
2.00	250	WK3057BK-ND•	.60	.56	.42
2.50	250	WK3058BK-ND•	.60	.56	.42
3.15	250	WK3024BK-ND	.60	.56	.42
4.00	250	WK3062BK-ND•	.60	.56	.42
5.00	250	WK3063BK-ND	.60	.56	.42
6.30	250	WK3066BK-ND•	.60	.56	.42
10.00	250	WK3071BK-ND	.61	.57	.43
		Time-Lag 374 Series			
.050	250	WK4022BK-ND	1.23	1.14	.86
.063	250	WK4025BK-ND	1.30	1.20	.90
.080	250	WK4026BK-ND	1.04	.97	.73
.100	250	WK4027BK-ND	.91	.84	.63
.125	250	WK4028BK-ND	.89	.82	.62
.160	250	WK4030BK-ND	.79	.73	.55
.200	250	WK4034BK-ND•	.79	.73	.55
.250	250	WK4035BK-ND	.73	.68	.51
.315	250	WK4037BK-ND	.73	.68	.51
.400	250	WK4040BK-ND	.73	.68	.51
.500	250	WK4041BK-ND•	.67	.62	.47
.630	250	WK4043BK-ND	.67	.62	.47
.800	250	WK4046BK-ND•	.67	.62	.47
1.00	250	WK4048BK-ND•	.67	.62	.47
1.25	250	WK4050BK-ND	.67	.62	.47
1.60	250	WK4053BK-ND•	.67	.62	.47
2.00	250	WK4057BK-ND•	.67	.62	.47
2.50	250	WK4058BK-ND	.67	.62	.47
3.15	250	WK4024BK-ND•	.67	.62	.47
4.00	250	WK4062BK-ND•	.67	.62	.47
5.00	250	WK4063BK-ND•	.67	.62	.47
6.30	250	WK4066BK-ND	.67	.62	.47
10.00	250	WK4071BK-ND	.67	.62	.47

• WK0116-KIT-ND *Digi-Key® TR5 Sub-Miniature Fuse UL-248-14 Kit* 10 each of *TR5 Sub-Miniature Fuses* indicated and 15 each of *TR5 Fuseholders* (WK0001-ND).....$79.95

TR5 / TE5 SMT Fuseholder

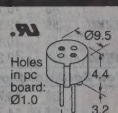


Material:
• Black thermoplastic UL 94-V0 • Terminals: Brass, tin-plated
• UL Recognized

Amp Rtg.	Volt. Rtg.	Digi-Key Part No.	Cut Tape Price Each 1	10	T & R Pricing* 1,500
6.3	250	WK0010CT-ND	.54	.50	192.00/M

* For Tape and Reel part #, change CT-ND to TR-ND.

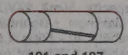
TR5 Fuseholder



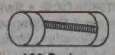
Material: • Black Thermoplastic, UL 94-V0
• Terminals: brass, tin-plated
Rated Values: 250V; 6.3A

WK0001-ND.....$.49/1; $4.50/10; $33.75/100

UL / CSA Fuses Metric (5x20mm) — UL 248-14



191 and 197 Series – Glass



198 Series – Glass

Equivalent to:

Wickmann	Littelfuse	Bussmann
191 Series	235	GMA
197 Series	233	GMC
198 Series	239	GMD

Approvals:
191 Series:
UL, cUL listed, .250A-7.00A.
197 Series:
UL, cUL listed, 1.00A - 7.00A.
198 Series:
UL listed, CSA certified, .250A-3.50A

Electrical Characteristics:

Series	Rated Current	Pre-arcing Rating 135%	200%
191	.250A - 7.00A	< 1 hr.	< 5 sec.
197	1.00A - 7.00A	< 1 hr.	< 120 sec.
198	.250A - 3.00A 3.50A	< 1 hr < 1 hr	5-120 sec. 12-120 sec.

Breaking Capacity
191 Series:
35A at 250VAC (.250A-1.00A); 100A at 250VAC (1.25A-3.50A); 10,000A at 125VAC (.250A-7.00A)
197 Series:
35A at 250VAC (.250A-1.00A); 100A at 250VAC (1.25A - 3.50A); 10,000A at 125VAC (.250A - 7.00A)
198 Series:
35A at 250VAC (.250A -1.00A); 100A at 250VAC (1.25A - 3.50A); 10,000A at 125VAC (.250A - 3.50A)

Amp Rating	Volt. Rtg.	Digi-Key Part No.	Price Each 1	10	100
		Fast-Acting 191 Series			
.250	250	WK4701-ND	—	.27	.21
.300	250	WK4702-ND	—	.21	.16
.350	250	WK4703-ND	—	.21	.16
.400	250	WK4704-ND	—	.21	.16
.500	250	WK4705-ND	—	.18	.14
.600	250	WK4706-ND	—	.18	.14
.700	250	WK4707-ND	—	.18	.14
.800	250	WK4708-ND	—	.15	.12
1.00	250	WK4709-ND	—	.15	.12
1.25	250	WK4710-ND	—	.15	.12
1.60	250	WK4711-ND	—	.15	.12
2.00	250	WK4712-ND	—	.15	.12
2.50	250	WK4713-ND	—	.18	.14
3.00	250	WK4714-ND	—	.21	.16
3.50	250	WK4715-ND	—	.15	.12
4.00	125	WK4716-ND	—	.21	.16
5.00	125	WK4717-ND	—	.15	.12
6.00	125	WK4718-ND	—	.21	.16
7.00	125	WK4719-ND	—	.15	.12
		Medium Time-Lag 197 Series			
1.00	250	WK4748-ND	.29	.27	.21
1.25	250	WK4750-ND	.29	.27	.21
1.60	250	WK4753-ND	.29	.27	.21
2.00	250	WK4757-ND	.29	.27	.21
2.50	250	WK4758-ND	.29	.27	.21
3.00	250	WK4760-ND	.29	.27	.21
3.50	250	WK4723-ND	.29	.27	.21
4.00	125	WK4762-ND	.29	.27	.21
5.00	125	WK4763-ND	.29	.27	.21
6.00	125	WK4764-ND	.29	.27	.21
7.00	125	WK4767-ND	.29	.27	.21
		Time-Lag 198 Series			
.250	250	WK4835-ND	.42	.39	.30
.300	250	WK4836-ND	.33	.30	.23
.400	250	WK4840-ND	.29	.27	.21
.500	250	WK4841-ND	.36	.33	.25
.600	250	WK4842-ND	.36	.33	.25
.700	250	WK4844-ND	.36	.33	.25
.800	250	WK4846-ND	.36	.33	.25
1.00	250	WK4848-ND	.36	.33	.25
1.25	250	WK4850-ND	.36	.33	.25
1.60	250	WK4853-ND	.39	.36	.27
2.00	250	WK4857-ND	.39	.36	.27
2.50	250	WK4858-ND	.39	.36	.27
3.00	250	WK4860-ND	.39	.36	.27
3.50	250	WK4823-ND	.42	.39	.30

G

OMRON Momentary Tact Switches

CHARACTERISTICS: • **Switching Capacity:** 50mA, 24VDC (resistive load) • **Contact Resistance:** 100mΩ Maximum • **Bounce Time:** 5ms Maximum • **Vibration:** Malfunction durability: 10 ~ 55Hz, 1.5mm double amplitude • **Shock:** Mechanical durability: 1,000m/s² (approximate 100G); Malfunction durability: 100m/s² (approximate 10G) • **Ambient Temperature:** Operating: -25°C ~ 70°C • **Service Life:** • ***B3F-1 Series, B3F-3 Series*** — Mechanical/Electrical: 1 x 10⁶ (0.3 x 10⁶) operations Minimum • ***B3F-4 Series*** — Mechanical/Electrical: 3 x 10⁶ (0.3 x 10⁶) operations Minimum • ***B3S-1 Series*** — Mechanical/Electrical: General-purpose type: 500,000 operations Minimum; High-load type: 300,000 operations Minimum • ***B3W-1 Series*** — Mechanical/Electrical: General-purpose type: 1,000,000 operations Minimum; High-load type: 300,000 operations Minimum • ***B3W-4 Series*** — Mechanical/Electrical: General-purpose type: 3,000,000 operations Minimum; High-load type: 1,000,000 operations Minimum

Fig.	Description	Dim. H (mm)	Digi-Key Part No.	Pricing 1	25	50	100	Omron Part No.
	6 MM (not washable)							
1	Tact Switch, Low Force, Flat Actuator without Ground Terminal — 100gf	4.3	SW400-ND	.20	4.50	8.00	14.40	B3F-1000
	Tact Switch, Medium Force, Flat Actuator without Ground Terminal — 150gf	4.3	SW401-ND	.23	5.06	9.00	16.20	B3F-1002
	Tact Switch, High Force, Flat Actuator without Ground Terminal — 260gf	4.3	SW793-ND	.28	6.38	11.34	20.41	B3F-1005
	Tact Switch, Low Force, Flat Actuator without Ground Terminal — 100gf	5.0	SW402-ND	.23	5.06	9.00	16.20	B3F-1020
	Tact Switch, Medium Force, Flat Actuator without Ground Terminal — 150gf	5.0	SW403-ND	.23	5.06	9.00	16.20	B3F-1022
	Tact Switch, High Force, Flat Actuator without Ground Terminal — 260gf	5.0	SW794-ND	.30	6.81	12.10	21.78	B3F-1025
	Tact Switch, Low Force, Flat Actuator without Ground Terminal — 100gf	9.5	SW406-ND	.25	5.63	10.00	18.00	B3F-1070
2	Tact Switch, Low Force, Projected Actuator without Ground Terminal — 100gf	—	SW404-ND	.23	5.06	9.00	16.20	B3F-1050
	Tact Switch, Medium Force, Projected Actuator without Ground Terminal — 150gf	—	SW405-ND	.23	5.06	9.00	16.20	B3F-1052
1	Tact Switch, High Force, Flat Actuator without Ground Terminal — 260gf	7.3	SW795-ND	.47	10.61	18.86	33.95	B3F-1055
3	Tact Switch, Low Force, Right Angle, Flat Actuator — 100gf	—	SW407-ND	.30	6.75	12.00	21.60	B3F-3120
	Tact Switch, Medium Force, Right Angle, Flat Actuator — 150gf	—	SW408-ND	.30	6.75	12.00	21.60	B3F-3122
4	Tact Switch, Low Force, Right Angle, Projected Actuator — 100gf	—	SW409-ND	.30	6.75	12.00	21.60	B3F-3150
	Tact Switch, Medium Force, Right Angle, Projected Actuator — 150gf	—	SW410-ND	.30	6.75	12.00	21.60	B3F-3152
	6 MM Gold Plated Contacts (not washable)							
1	Tact Switch, Gold Plated Contact, Flat Actuator without Ground Terminal — 150gf	4.3	SW787-ND	2.61	58.78	104.50	188.10	B3F-1002-G
	Tact Switch, Gold Plated Contact, Flat Actuator without Ground Terminal — 150gf	4.3	SW789-ND	2.75	61.86	109.97	197.95	B3F-1102-G
	Tact Switch, Gold Plated Contact, Flat Actuator without Ground Terminal — 150gf	5.0	SW788-ND	2.61	58.78	104.50	188.10	B3F-1022-G
	Tact Switch, Gold Plated Contact, Flat Actuator without Ground Terminal — 150gf	5.0	SW790-ND	2.75	61.86	109.97	197.95	B3F-1122-G
	6 MM Process Sealed (not water washable)							
5	SMT Flat Actuator without Ground Terminal — 160gf	—	SW415-ND	.45	10.13	18.00	32.40	B3S-1000
	SMT Flat Actuator without Ground Terminal — 230gf	—	SW416-ND	.45	10.13	18.00	32.40	B3S-1002
6	Tact Switch Flat Actuator without Ground Terminal — 160gf	—	SW417-ND	.35	7.88	14.00	25.20	B3W-1000
	Tact Switch Flat Actuator without Ground Terminal — 230gf	—	SW418-ND	.35	7.88	14.00	25.20	B3W-1002
9	Tact Switch Projected Actuator without Ground Terminal — 160gf	—	SW419-ND	.35	7.88	14.00	25.20	B3W-1050
	Tact Switch Projected Actuator without Ground Terminal — 230gf	—	SW420-ND	.35	7.88	14.00	25.20	B3W-1052
	12 MM (not washable)							
7	Tact Switch Standard, Flat Actuator without Ground Terminal — 130gf	—	SW411-ND	.30	6.75	12.00	21.60	B3F-4000
	Tact Switch Standard, Flat Actuator without Ground Terminal — 260gf	—	SW412-ND	.30	6.75	12.00	21.60	B3F-4005
8	Tact Switch Standard, Projected Actuator without Ground Terminal — 130gf	—	SW413-ND	.30	6.75	12.00	21.60	B3F-4050
	Tact Switch Standard, Projected Actuator with Ground Terminal — 130gf	—	SW835-ND ***NEW!***	.51	11.44	20.33	36.59	B3F-4150
	Tact Switch Standard, Projected Actuator without Ground Terminal — 260gf	—	SW414-ND	.30	6.75	12.00	21.60	B3F-4055
5	Tact Switch, Long Service Life, Flat Actuator without Ground Terminal — 130gf	4.3	SW800-ND	.45	10.23	18.19	32.74	B3F-5000
8	Tact Switch, Long Service Life, Projected Actuator — 130gf	4.3	SW801-ND	.45	10.23	18.19	32.74	B3F-5050
	12 MM Process Sealed (not water washable)							
10	Tact Switch Flat without Ground Terminal — 200gf	—	SW421-ND	.43	9.56	17.00	30.60	B3W-4000
8	Tact Switch Projected without Ground Terminal — 200gf	—	SW422-ND	.43	9.56	17.00	30.60	B3W-4050
	Tact Switch Projected without Ground Terminal — 350gf	—	SW838-ND ***NEW!***	.53	11.87	21.10	37.98	B3W-4055
	Tact Switch Projected with Ground Terminal — 200gf	—	SW839-ND ***NEW!***	.59	13.31	23.67	42.61	B3W-4150
	Key Caps							
11	Key Cap 4 x 4mm Light Grey/Tan, Fits 6mm Projected Actuator Types	—	SW450-ND	.18	3.94	7.00	12.60	B32-1000
	Key Cap 4 x 4mm Black, Fits 6mm Projected Actuator Types	—	SW451-ND	.18	3.94	7.00	12.60	B32-1010
	Key Cap 4 x 4mm Yellow, Fits 6mm Projected Actuator Types	—	SW249-ND	.18	3.94	7.00	12.60	B32-1030
	Key Cap 4 x 4mm Blue, Fits 6mm Projected Actuator Types	—	SW250-ND	.18	3.94	7.00	12.60	B32-1040
	Key Cap 4 x 4mm White, Fits 6mm Projected Actuator Types	—	SW251-ND	.18	3.94	7.00	12.60	B32-1060
	Key Cap 4 x 4mm Red, Fits 6mm Projected Actuator Types	—	SW252-ND	.18	3.94	7.00	12.60	B32-1080
12	Key Cap 9 x 9mm Light Grey/Tan, Fits 12mm Projected Actuator Types	9	SW452-ND	.18	3.94	7.00	12.60	B32-1200
	Key Cap 9 x 9mm Black, Fits 12mm Projected Actuator Types	9	SW453-ND	.18	3.94	7.00	12.60	B32-1210
	Key Cap 9 x 9mm Yellow, Fits 12mm Projected Actuator Types	9	SW253-ND	.18	3.94	7.00	12.60	B32-1230
	Key Cap 9 x 9mm Blue, Fits 12mm Projected Actuator Types	9	SW254-ND	.18	3.94	7.00	12.60	B32-1240
	Key Cap 9 x 9mm White, Fits 12mm Projected Actuator Types	9	SW255-ND	.18	3.94	7.00	12.60	B32-1260
	Key Cap 9 x 9mm Red, Fits 12mm Projected Actuator Types	9	SW256-ND	.18	3.94	7.00	12.60	B32-1280
	Key Cap 12 x 12mm Light Grey/Tan, Fits 12mm Projected Actuator Types	12	SW454-ND	.18	3.94	7.00	12.60	B32-1300
	Key Cap 12 x 12mm Black, Fits 12mm Projected Actuator Types	12	SW455-ND	.18	3.94	7.00	12.60	B32-1310
	Key Cap 12 x 12mm Yellow, Fits 12mm Projected Actuator Types	12	SW257-ND	.18	3.94	7.00	12.60	B32-1330
	Key Cap 12 x 12mm Blue, Fits 12mm Projected Actuator Types	12	SW258-ND	.18	3.94	7.00	12.60	B32-1340
	Key Cap 12 x 12mm White, Fits 12mm Projected Actuator Types	12	SW259-ND	.18	3.94	7.00	12.60	B32-1360
	Key Cap 12 x 12mm Red, Fits 12mm Projected Actuator Types	12	SW260-ND	.18	3.94	7.00	12.60	B32-1380
	6MM Long Stroke Tact Switch							
13	Tact Switch with Long Stroke and Positive Click — 70gf	—	SW426-ND	.63	14.06	25.00	45.00	B3M-6009

Fig.	Description	Dim. H (mm)	Digi-Key Part No.	Cut Tape Pricing 1	25	50	Digi-Key Part No.	Tape and Reel Size	Pricing	Omron Part No.
	6 MM Auto Placement; Flat Actuator (not washable)									
14	Tact Switch Auto-Placement 6mm Square — 100gf	4.3	SW263CT-ND	.30	6.82	12.37	SW263TB-ND*	1,000	125.00	B3F-6000
	Tact Switch Auto-Placement 6mm Square — 150gf	4.3	SW797-ND	.33	7.31	13.00	—	—	—	B3F-6002
	Tact Switch Auto-Placement 6mm Square — 100gf	5.0	SW796-ND	.36	8.12	14.44	—	—	—	B3F-6020
	Tact Switch Auto-Placement 6mm Square — 150gf	5.0	SW264CT-ND	.32	7.22	13.11	SW264TB-ND*	1,000	137.50	B3F-6022
	6 MM Auto Placement; Projected Actuator (not washable)									
15	Tact Switch Auto-Placement 6mm Square — 100gf	—	SW798-ND	.39	8.81	15.66	—	—	—	B3F-6050
	Tact Switch Auto-Placement 6mm Square — 150gf	—	SW799-ND	.39	8.81	15.66	—	—	—	B3F-6052
16	Tact Switch Auto-Placement, Water Tight, Dust Sealed	—	SW425CT-ND	.51	11.48	20.83	SW425TB-ND*	1,000	212.50	B3WN-6002
	6 MM Process Sealed (not water washable)									
17	SMT Flat Actuator without Ground Terminal — 160gf	—	SW261CT-ND	.76	17.08	30.99	SW261TR-ND**	3,000	325.00/M	B3SN-3012P
	SMT Flat Actuator without Ground Terminal — 160gf	—	SW262CT-ND	.76	17.08	30.99	SW262TR-ND**	3,000	325.00/M	B3SN-3112P
18	SMT Tact Switch 6mm Square (snap-action) — 100gf	—	SW423CT-ND	.45	10.13	18.38	SW423TR-ND**	3,000	187.50/M	B3FS-1000P
	SMT Tact Switch 6mm Square — 160gf, Height = 4.3	—	SW836CT-ND ***NEW!***	.55	12.38	22.00	SW836TR-ND**	1,000	297.00	B3S-1000P
	SMT Tact Switch 6mm Square (snap-action) — 150gf	—	SW424CT-ND	.45	10.13	18.38	SW424TR-ND**	3,000	187.50/M	B3FS-1002P
	SMT Tact Switch 6mm Square — 230gf, Height = 4.3	—	SW837CT-ND ***NEW!***	.55	12.38	22.00	SW837TR-ND**	1,000	297.00	B3S-1002P
	6 MM Process Sealed; Projected Actuator (not water washable)									
19	SPST Tact Switch 6mm Square (snap-action) — 100gf	—	SW791-ND	.66	14.77	26.26	—	—	—	B3FS-1050
	SPST Tact Switch 6mm Square (snap-action) — 150gf	—	SW792-ND	.66	14.77	26.26	—	—	—	B3FS-1052

* TB = Tape and Box ** TR = Tape and Reel

Fig. 1

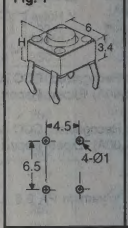


Fig. 2

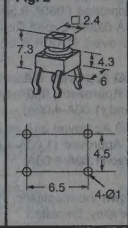


Fig. 3

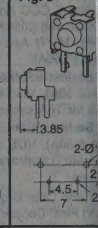


Fig. 4

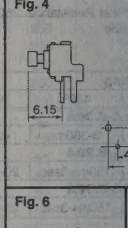


Fig. 5

Fig. 6

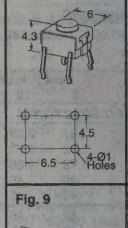


Fig. 7

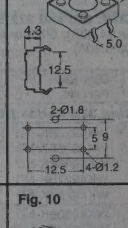


Fig. 8

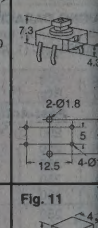


Fig. 9

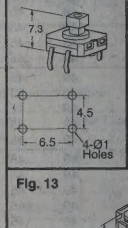


Fig. 10

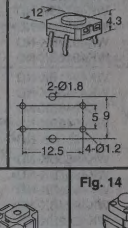


Fig. 11

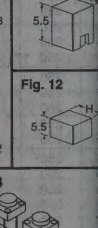


Fig. 12

Fig. 13

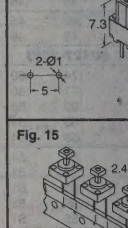


Fig. 14

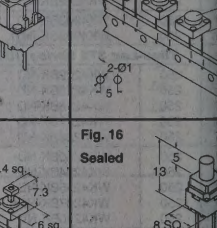


Fig. 15

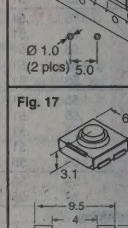


Fig. 16
Sealed

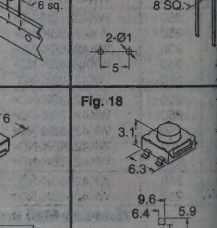
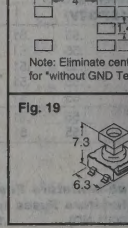
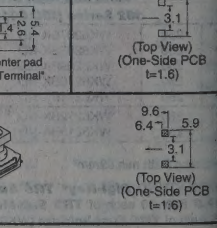


Fig. 17



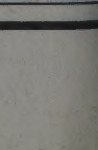
Note: Eliminate center pad for "without GND Terminal"

Fig. 18



(Top View)
(One-Side PCB t=1.6)

Fig. 19



(Top View)
(One-Side PCB t=1.6)

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DIP Switches

ITT Industries
Engineered for life

Low Profile

ures: • Low profile design saves space • High pressure contact does not re tape sealing

ifications: • **Contact Rating:** 25mA @ 24VDC or 100mA @ 50VDC • **Mechanical and Electrical Life:** 1,000 cycles at rated loads • **Operating perature:** -20°C to 85°C

Side Actuated

ures: • High pressure contact system does not require tape seal

ifications: • **Contact Rating:** 100mA max. @ 5VDC or 25mA max. • **Mechanical and Electrical Life:** 1,000 cycles min. @ 5VDC 10mA • **Operating perature:** -20°C to 85°C

ngle In-line

ures: • Thin Single In-line Packaging saves PCB space • Retention feature part to PCB prior to soldering • High pressure contact system does not re tape sealing

ifications: • **Contact Rating:** 100mA • **Mechanical and Electrical Life:** 1,000 s min. • **Operating Temperature:** -20°C to 85°C

andard Profile

ures: • Traditional full profile DIP switch • Extended actuator for easy actuation n bottom construction allows for solder washing without the need for tape seal

ifications: • **Contact Rating:** 100mA max. • **Mechanical and Electrical Life:** 0 cycles at full load • **Operating Temperature:** -40°C to 85°C

de Actuated

ures: • When actuated, contacts remain below top of switch • Ideal for cations where space is limited

ifications: • **Contact Rating:** 100mA max. • **Mechanical and Electrical Life:** cycles - gold contacts, 1,000 cycles - tin contacts • **Operating Temperature:** to 60°C

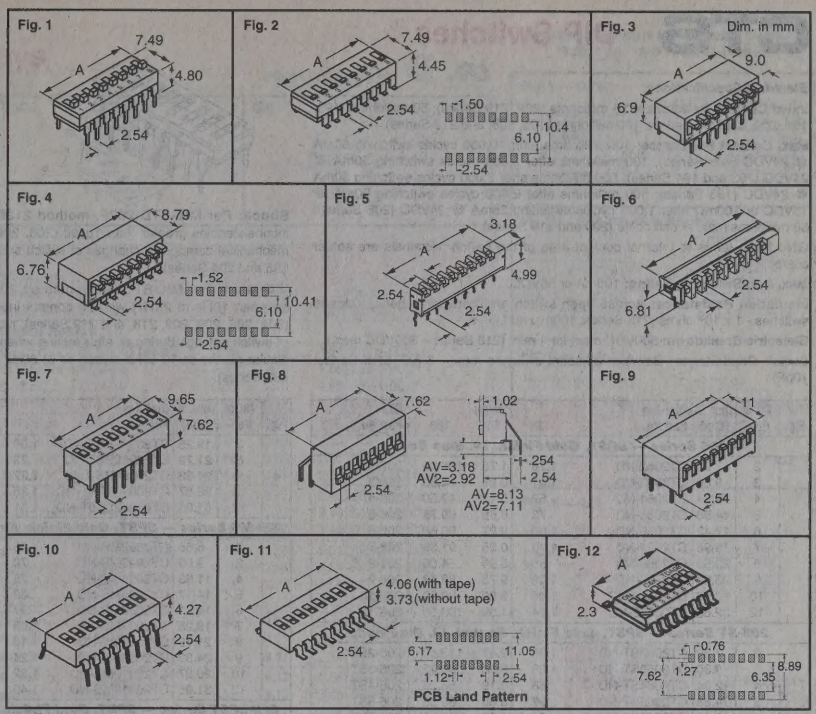
w Profile

ures: • Low profile design saves space • Sealed with top tape

ifications: • **Contact Rating:** 100mA @ 50VDC max. • **Mechanical and rical Life:** 2,000 cycles at full load • **Operating Temperature:** -20°C to 85°C

Half-pitch Ultra-mini SMT

ifications: • **Contact Rating:** • 50VDC, 100mA • **Mechanical and Electrical** 1,000 cycles • **Operating Temperature:** -20°C to 85°



No. of Pos.	Dim. A (mm)	Digi-Key Part No.	Price Each 1	25	100	ITT Part No.
DIP Top Slide with Extended Actuator — Unsealed						
2	7.06	CKN1276-ND	.94	.75	.60	SDA02H1KD
3	9.60	CKN1277-ND	1.11	.89	.71	SDA03H1KD
4	12.10	CKN1278-ND	1.17	.94	.75	SDA04H1KD
6	17.18	CKN1280-ND	1.26	1.01	.80	SDA06H1KD
7	19.76	CKN1281-ND	1.35	1.08	.86	SDA07H1KD
8	22.26	CKN1282-ND	1.50	1.20	.95	SDA08H1KD
9	24.84	CKN1283-ND	1.65	1.32	1.05	SDA09H1KD
10	27.34	CKN1284-ND	1.77	1.42	1.13	SDA10H1KD
12	32.50	CKN1285-ND	1.95	1.56	1.24	SDA12H1KD
DIP Top Slide with Flush Actuator — Unsealed						
2	7.06	CKN1296-ND	.94	.75	.60	SDA02H0KD
3	9.60	CKN1297-ND	1.11	.89	.71	SDA03H0KD
4	12.10	CKN1298-ND	1.17	.94	.75	SDA04H0KD
5	14.68	CKN1299-ND	1.23	.99	.78	SDA05H0KD
6	17.18	CKN1300-ND	1.26	1.01	.80	SDA06H0KD
7	19.76	CKN1301-ND	1.35	1.08	.86	SDA07H0KD
8	22.26	CKN1302-ND	1.50	1.20	.95	SDA08H0KD
9	24.84	CKN1303-ND	1.65	1.32	1.05	SDA09H0KD
10	27.34	CKN1304-ND	1.77	1.42	1.13	SDA10H0KD
12	32.50	CKN1305-ND	1.95	1.56	1.24	SDA12H0KD
DIP Top Slide with Flush Actuator — Tape Sealed						
2	7.06	CKN1306-ND	1.07	.86	.68	SDA02H0K
3	9.60	CKN1307-ND	1.23	.99	.78	SDA03H0K
4	12.10	CKN1308-ND	1.29	1.04	.82	SDA04H0K
5	14.68	CKN1309-ND	1.35	1.08	.86	SDA05H0K
6	17.18	CKN1310-ND	1.41	1.13	.90	SDA06H0K
7	19.76	CKN1311-ND	1.50	1.20	.95	SDA07H0K
8	22.26	CKN1312-ND	1.65	1.32	1.05	SDA08H0K
9	24.84	CKN1313-ND	1.77	1.42	1.13	SDA09H0K
10	27.34	CKN1314-ND	1.92	1.54	1.22	SDA10H0K
12	32.50	CKN1315-ND	2.07	1.66	1.32	SDA12H0K
SMT Top Slide with Extended Actuator — Unsealed						
2	7.06	CKN1286-ND	1.36	1.09	.87	SDA02H1SKD
3	9.60	CKN1287-ND	1.62	1.30	1.03	SDA03H1SKD
4	12.10	CKN1288-ND	1.71	1.37	1.09	SDA04H1SKD
5	14.68	CKN1289-ND	1.86	1.49	1.18	SDA05H1SKD
6	17.18	CKN1290-ND	1.98	1.59	1.26	SDA06H1SKD
7	19.76	CKN1291-ND	1.98	1.59	1.26	SDA07H1SKD
8	22.26	CKN1292-ND	2.16	1.73	1.37	SDA08H1SKD
9	24.84	CKN1293-ND	2.40	1.92	1.52	SDA09H1SKD
10	27.34	CKN1294-ND	2.55	2.04	1.62	SDA10H1SKD
12	32.50	CKN1295-ND	2.82	2.26	1.79	SDA12H1SKD
SMT Top Slide with Flush Actuator — Unsealed						
2	7.06	CKN1316-ND	1.36	1.09	.87	SDA02H0SKD
3	9.60	CKN1317-ND	1.62	1.30	1.03	SDA03H0SKD
4	12.10	CKN1318-ND	1.71	1.37	1.09	SDA04H0SKD
5	14.68	CKN1319-ND	1.77	1.42	1.13	SDA05H0SKD
6	17.18	CKN1320-ND	1.86	1.49	1.18	SDA06H0SKD
7	19.76	CKN1321-ND	1.98	1.59	1.26	SDA07H0SKD
8	22.26	CKN1322-ND	2.16	1.73	1.37	SDA08H0SKD
9	24.84	CKN1323-ND	2.40	1.92	1.52	SDA09H0SKD
10	27.34	CKN1324-ND	2.55	2.04	1.62	SDA10H0SKD
12	32.50	CKN1325-ND	2.82	2.26	1.79	SDA12H0SKD
SMT Top Slide with Flush Actuator — Tape Sealed						
2	7.06	CKN1326-ND	1.49	1.20	.95	SDA02H0SK
3	9.60	CKN1327-ND	1.77	1.42	1.13	SDA03H0SK
4	12.10	CKN1328-ND	1.83	1.47	1.16	SDA04H0SK
5	14.68	CKN1329-ND	1.92	1.54	1.22	SDA05H0SK
6	17.18	CKN1330-ND	2.01	1.61	1.28	SDA06H0SK
7	19.76	CKN1331-ND	2.10	1.68	1.33	SDA07H0SK
8	22.26	CKN1332-ND	2.31	1.85	1.47	SDA08H0SK
9	24.84	CKN1333-ND	2.55	2.04	1.62	SDA09H0SK

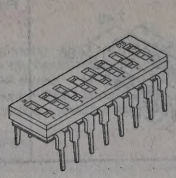
Fig.	No. of Pos.	Dim. A (mm)	Digi-Key Part No.	Price Each 1	25	100	ITT Part No.
2	10	27.34	CKN1334-ND	2.67	2.14	1.70	SDA10H0SK
	12	32.50	CKN1335-ND	2.94	2.36	1.87	SDA12H0SK
Side Actuated DIP — Unsealed							
3	2	7.11	CKN1336-ND	1.24	1.00	.79	BPA02K
	4	12.19	CKN1337-ND	1.47	1.18	.94	BPA04K
	5	14.68	CKN1338-ND	1.56	1.25	.99	BPA05K
	6	17.30	CKN1339-ND	1.74	1.40	1.11	BPA06K
	7	19.76	CKN1340-ND	1.80	1.44	1.14	BPA07K
	8	22.30	CKN1341-ND	1.80	1.44	1.14	BPA08K
	9	24.84	CKN1342-ND	1.95	1.56	1.24	BPA09K
	10	27.43	CKN1343-ND	2.04	1.64	1.30	BPA10K
SMT Side Actuated DIP — Unsealed							
4	2	7.11	CKN1344-ND	1.35	1.09	.86	BPA02SK
	4	12.19	CKN1345-ND	1.62	1.30	1.03	BPA04SK
	5	14.68	CKN1346-ND	1.71	1.37	1.09	BPA05SK
	6	17.30	CKN1347-ND	1.92	1.54	1.22	BPA06SK
	7	19.76	CKN1348-ND	1.98	1.59	1.26	BPA07SK
	8	22.30	CKN1349-ND	1.98	1.59	1.26	BPA08SK
	9	24.84	CKN1350-ND	2.16	1.73	1.37	BPA09SK
	10	27.43	CKN1351-ND	2.25	1.80	1.43	BPA10SK
Top Slide Single In-Line SIP — Unsealed							
5	2	7.58	CKN1352-ND	2.21	1.77	1.40	SP02
	4	12.66	CKN1353-ND	2.55	2.04	1.62	SP04
	6	17.74	CKN1354-ND	2.97	2.38	1.89	SP06
	8	22.82	CKN1355-ND	3.45	2.76	2.19	SP08
	10	27.9	CKN1356-ND	4.35	3.48	2.76	SP10
Rt. Angle Single In-Line SIP — Unsealed							
6	2	7.58	CKN1357-ND	3.09	2.47	1.96	SP02A
	4	12.66	CKN1358-ND	3.36	2.69	2.13	SP04A
	6	17.74	CKN1359-ND	4.05	3.24	2.57	SP06A
	8	22.82	CKN1360-ND	4.44	3.56	2.82	SP08A
	10	27.9	CKN1361-ND	4.80	3.84	3.04	SP10A
Top Slide, Extended Actuator — Unsealed							
7	1	4.57	CKN6012-ND	1.11	.89	.71	BD01
	2	7.11	CKN3001-ND	1.59	1.28	1.01	BD02
	3	9.65	CKN3002-ND	1.59	1.28	1.01	BD03
	4	12.19	CKN3003-ND	1.74	1.40	1.11	BD04
	5	14.73	CKN3004-ND	1.77	1.42	1.13	BD05
	6	17.27	CKN3005-ND	1.83	1.47	1.16	BD06
	7	19.81	CKN3006-ND	1.92	1.54	1.22	BD07
	8	22.35	CKN3007-ND	1.98	1.59	1.26	BD08
	9	24.89	CKN3008-ND	2.07	1.66	1.32	BD09
	10	27.43	CKN3009-ND	2.13	1.71	1.35	BD10
	12	32.51	CKN3010-ND	2.28	1.83	1.45	BD12
Right Angle Slide, Extended Actuator — Unsealed							
8	2	7.11	CKN3011-ND	2.70	2.16	1.71	BD02AV
	2	7.11	CKN6013-ND	2.70	2.16	1.71	BD02AV2
	3	9.65	CKN3012-ND	2.70	2.16	1.71	BD03AV
	4	12.19	CKN3013-ND	2.85	2.28	1.81	BD04AV
	4	12.19	CKN6014-ND	2.85	2.28	1.81	BD04AV2
	5	14.73	CKN3014-ND	2.88	2.31	1.83	BD05AV
	5	14.73	CKN6015-ND	2.88	2.31	1.83	BD05AV2
	6	17.27	CKN3015-ND	2.97	2.38	1.89	BD06AV
	6	17.27	CKN6016-ND	2.97	2.38	1.89	BD06AV2
	7	19.81	CKN3016-ND	3.03	2.43	1.92	BD07AV
	8	22.35	CKN3017-ND	3.09	2.48	1.96	BD08AV
	8	22.35	CKN6017-ND	3.09	2.48	1.96	BD08AV2
	9	24.89	CKN3018-ND	3.18	2.55	2.02	BD09AV
	10	27.43	CKN3019-ND	3.24	2.60	2.06	BD10AV
	12	32.51	CKN3020-ND	3.39	2.72	2.15	BD12AV
Side Actuated — Tape Sealed							
9	1	5.23	CKN6018-ND	1.25	1.00	.80	BP01YT
	1	5.23	CKN6019-ND	1.84	1.48	1.17	BP01KT*

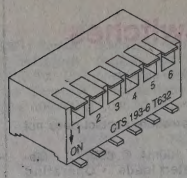
Fig.	No. of Pos.	Dim. A (mm)	Digi-Key Part No.	Price Each 1	25	100	ITT Part No.
9	2	7.77	CKN3021-ND	1.45	1.16	.92	BP02YT
	2	7.77	CKN6020-ND*	2.12	1.70	1.35	BP02KT
	3	10.31	CKN3022-ND	1.59	1.28	1.01	BP03YT
	4	12.85	CKN3023-ND	1.62	1.30	1.03	BP04YT
	4	12.85	CKN6021-ND*	2.31	1.85	1.47	BP04KT
	5	15.39	CKN3024-ND	1.71	1.38	1.09	BP05YT
	6	17.93	CKN3025-ND	1.89	1.52	1.20	BP06YT
	7	20.47	CKN3026-ND	1.95	1.56	1.24	BP07YT
	8	23.00	CKN3027-ND	1.95	1.56	1.24	BP08YT
	8	23.00	CKN6022-ND*	2.52	2.02	1.60	BP08KT
	10	28.09	CKN3028-ND	2.19	1.75	1.39	BP10YT
	12	33.17	CKN3029-ND	2.45	1.97	1.56	BP12YT
Side Actuated — Unsealed							
9	1	5.23	CKN6023-ND*	1.75	1.40	1.11	BP01KE
	1	5.23	CKN6024-ND	1.06	.85	.68	BP01YE
	2	7.77	CKN6025-ND	1.28	1.02	.81	BP02YE
	3	10.31	CKN6026-ND*	1.99	1.60	1.27	BP03KE
	4	12.85	CKN6027-ND*	2.02	1.62	1.29	BP04KE
	5	15.39	CKN6028-ND*	2.11	1.69	1.34	BP05KE
	6	17.93	CKN6029-ND	1.72	1.38	1.09	BP06YE
	8	23.00	CKN6030-ND*	2.35	1.88	1.49	BP08KE
	8	23.00	CKN6031-ND	1.78	1.43	1.13	BP08YE
Low Profile Auto Insert — Tape Sealed							
10	2	6.55	CKN3064-ND	1.18	.95	.75	SD02H0K
	3	9.09	CKN3065-ND	1.23	.99	.78	SD03H0K
	4	11.63	CKN3066-ND	1.44	1.16	.92	SD04H0K
	5	14.17	CKN3067-ND	1.50	1.20	.95	SD05H0K
	6	16.71	CKN3068-ND	1.56	1.25	.99	SD06H0K
	7	19.25	CKN3069-ND	1.65	1.32	1.05	SD07H0K
	8	21.79	CKN3070-ND	1.83	1.47	1.16	SD08H0K
	9	24.33	CKN3071-ND	1.98	1.59	1.26	SD09H0K
	10	26.87	CKN3072-ND	2.13	1.71	1.35	SD10H0K
	12	31.95	CKN3073-ND	2.31	1.85	1.47	SD12H0K
Low Profile Auto Insert — Flush Act. — Tape Sealed							
11	8	21.79	CKN6032-ND†	2.40	1.92	1.52	SD08H0SKD
	8	21.79	CKN6033CT-ND	2.66	2.46	2.26	SD08H0SKR
	8	21.79	CKN6033TR-ND	1228.50/1,000			SD08H0SKR
Low Profile Auto Insert — Extended Act. — Tape Sealed							
11	2	6.55	CKN6034-ND	1.66	1.33	1.05	SD02H1SK
	4	11.63	CKN6035-ND	1.29	1.04	.82	SD04H1SK
	7	19.25	CKN6036-ND	2.34	1.88	1.49	SD07H1SK
	8	21.79	CKN6037-ND	2.55	2.04	1.62	SD08H1SK
	10	26.87	CKN6038-ND	2.97	2.38	1.89	SD10H1SK
	8	21.79	CKN6039-ND†	2.40	1.92	1.52	SD08H1SKD
Low Profile Surface Mount — Tape Sealed							
11	2	6.55	CKN3054-ND	1.66	1.33	1.05	SD02H0SK
	3	9.09	CKN3055-ND	1.74	1.39	1.11	SD03H0SK
	4	11.63	CKN3056-ND	2.04	1.64	1.30	SD04H0SK
	5	14.17	CKN3057-ND	2.13	1.71	1.35	SD05H0SK
	6	16.71	CKN3058-ND	2.22	1.78	1.41	SD06H0SK
	7	19.25	CKN3059-ND	1.44	1.16	.92	SD07H0SK
	8	21.79	CKN3060-ND	2.55	2.04	1.62	SD08H0SK
	9	24.33	CKN3061-ND	2.82	2.26	1.79	SD09H0SK
	10	26.87	CKN3062-ND	2.97	2.38	1.89	SD10H0SK
	12	31.95	CKN3063-ND	3.27	2.62	2.08	SD12H0SK
Half Pitch Surface Mount — TDA Series — Tape Sealed							
12	2	3.67	CKN1362-ND	2.10	1.68	1.33	TDA02H0SK1
	4	6.21	CKN1363-ND	2.22	1.78	1.41	TDA04H0SK1
	6	8.75	CKN1364-ND	2.64	2.12	1.68	TDA06H0SK1
	8	11.29	CKN1365-ND	3.03	2.43	1.92	TDA08H0SK1
	10	13.83	CKN1366-ND	4.47	3.58	2.84	TDA10H0SK1

*Gold Contacts †No Epoxy Seal

H

CTS DIP Switches





Electrical Specifications:

Initial Contact Resistance: 25 milliohms (209, 219 Series); 50 milliohms (193, 194, 204, and 206 Series); 100 milliohms (195, 208, and 218 Series).

Max. Contact Resistance: 100 milliohms after 10,000 cycles switching 50mA @ 24VDC (206 Series); 100 milliohms after 7,000 cycles switching 50mA @ 24VDC (193 and 194 Series); 500 milliohms after 2,000 cycles switching 50mA @ @ 24VDC (195 Series); 500 milliohms after 2,000 cycles switching 50mA @ 15VDC or 100mΩ after 1,000 cycles switching 25mA @ 24VDC (208 Series); 50 milliohms max. at end of life (209 and 219 Series).

Gold finish refers to internal contact area of the switch, terminals are solder coated.

Max. Non-Switching Rating: 100mA or 50VDC.

Insulation Resistance: Across open switch and between adjacent closed switches - 1 x 10^9 ohms (218 Series: 100mΩ min.).

Dielectric Breakdown: 500VDC max. for 1 min. (218 Series – 300VDC max.).

Switch Capacitance: Between adjacent switches max. - 5.0pF (218 Series: 10pF).

Shock: Per MIL-STD-202F, method 213B, condition A with no contact inconsistencies greater than 1μsec (206, 208, 209, 218 and 219 Series); no mechanical damage or changes of switch settings with 25G applied (193, 194, 195 and 204 Series).

Vibration: Per MIL-STD-202F, method 204D, condition B (.06" or 15G's between 10Hz to 2KHz) with no contact inconsistencies greater than 1μsec (204, 206, 208, 209, 218, and 219 Series). No mechanical damage or changes of switch settings during or after testing when tested in three mutually perpendicular planes at 10-50Hz sweep or at 60Hz constant vibration (193, 194 and 195 Series).

Fig.	No. of Pos.	Dim. A (mm)	Digi-Key Part No.	Pricing 1	10	100	CTS Part No.
206 Series — SPST, Gold Finish, Lt. Blue Body							
1	2	7.26	CT2062-ND	1.28	11.73	106.65	206-2
	3	9.80	CT2063-ND	1.01	9.28	84.38	206-3
	4	12.34	CT2064-ND	.59	5.45	49.50	206-4
	5	14.88	CT2065-ND	.73	6.68	60.75	206-5
	6	17.42	CT2066-ND	1.09	9.97	90.68	206-6
	7	19.96	CT2067-ND	1.10	10.05	91.35	206-7
	8	22.50	CT2068-ND	.65	5.94	54.00	206-8
	9	25.04	CT2069-ND	1.06	9.73	88.43	206-9
	10	27.58	CT20610-ND	1.08	9.90	90.00	206-10
	12	32.66	CT20612-ND	1.24	11.39	103.50	206-12
206-ST Series — SPST, Gold Finish, Sealed, Lt. Blue Body							
1	2	7.26	CT2062ST-ND	1.36	12.47	113.40	206-2ST
	3	9.80	CT2063ST-ND	1.09	9.95	90.45	206-3ST
	4	12.34	CT2064ST-ND	.68	6.19	56.25	206-4ST
	5	14.88	CT2065ST-ND	.97	8.86	80.55	206-5ST
	6	17.42	CT2066ST-ND	.76	6.93	63.00	206-6ST
	7	19.96	CT2067ST-ND	1.27	11.61	105.53	206-7ST
	8	22.50	CT2068ST-ND	.73	6.68	60.75	206-8ST
	9	25.04	CT2069ST-ND	1.21	11.09	100.80	206-9ST
	10	27.58	CT20610ST-ND	1.03	9.41	85.50	206-10ST
	12	32.66	CT20612ST-ND	1.03	9.41	85.50	206-12ST
208 Series — SPST, Tin Finish, Black Body							
1	2	7.26	CT2082-ND	1.05	9.65	87.75	208-2
	3	9.80	CT2083-ND	.97	8.91	81.00	208-3
	4	12.34	CT2084-ND	.51	4.70	42.75	208-4
	5	14.88	CT2085-ND	.78	7.18	65.25	208-5
	6	17.42	CT2086-ND	.81	7.43	67.50	208-6
	7	19.96	CT2087-ND	.86	7.92	72.00	208-7
	8	22.50	CT2088-ND	.54	4.95	45.00	208-8
	9	25.04	CT2089-ND	.92	8.42	76.50	208-9
	10	27.58	CT20810-ND	1.00	9.16	83.25	208-10
	12	32.66	CT20812-ND	1.11	10.15	92.25	208-12
206-124 — SPDT, Gold Finish, Lt. Blue Body							
1	4	22.50	CT206124-ND	2.08	19.03	173.03	206-124
206-214 — DPST, Gold Finish, Lt. Blue Body							
1	4	22.50	CT206214-ND	1.62	14.87	135.23	206-214
194-MST Series — SPST, Gold Finish, Sealed, Lt. Blue Body							
2	2	7.26	CT1942MST-ND	1.40	12.87	117.00	194-2MST
	3	9.80	CT1943MST-ND	.95	8.66	78.75	194-3MST
	4	12.34	CT1944MST-ND	.86	7.92	72.00	194-4MST
	5	14.88	CT1945MST-ND	1.46	13.37	121.50	194-5MST
	6	17.42	CT1946MST-ND	1.35	12.38	112.50	194-6MST
	7	19.96	CT1947MST-ND	1.59	14.60	132.75	194-7MST
	8	22.50	CT1948MST-ND	.95	8.66	78.75	194-8MST
	9	25.04	CT1949MST-ND	1.70	15.59	141.75	194-9MST
	10	27.58	CT19410MST-ND	1.54	14.11	128.25	194-10MST
	12	32.66	CT19412MST-ND	1.89	17.33	157.50	194-12MST
195-MST Series — SPST, Tin Finish, Sealed, Black Body							
2	2	7.26	CT1952MST-ND	.81	7.43	67.50	195-2MST
	3	9.80	CT1953MST-ND	1.38	12.62	114.75	195-3MST
	4	12.34	CT1954MST-ND	.89	8.14	74.03	195-4MST
	5	14.88	CT1955MST-ND	1.30	11.88	108.00	195-5MST
	6	17.42	CT1956MST-ND	1.16	10.64	96.75	195-6MST
	7	19.96	CT1957MST-ND	1.40	12.87	117.00	195-7MST
	8	22.50	CT1958MST-ND	1.22	11.14	101.25	195-8MST
	9	25.04	CT1959MST-ND	1.51	13.86	126.00	195-9MST
	10	27.58	CT19510MST-ND	1.32	12.13	110.25	195-10MST
	12	32.66	CT19512MST-ND	1.59	14.60	132.75	195-12MST
CT206-RAST Series — SPST, Gold Finish, Sealed, Lt. Blue Body							
3	2	7.26	CT2062RAST-ND	1.64	15.00	136.35	206-2RAST
	3	9.80	CT2063RAST-ND	1.30	11.88	108.00	206-3RAST
	4	12.34	CT2064RAST-ND	1.03	9.41	85.50	206-4RAST
	5	14.88	CT2065RAST-ND	1.00	9.18	83.48	206-5RAST
	6	17.42	CT2066RAST-ND	1.27	11.63	105.75	206-6RAST
	7	19.96	CT2067RAST-ND	1.52	13.91	126.45	206-7RAST
	8	22.50	CT2068RAST-ND	1.27	11.63	105.75	206-8RAST
	9	25.04	CT2069RAST-ND	1.50	13.76	125.10	206-9RAST
	10	27.58	CT20610RAST-ND	1.93	17.65	160.43	206-10RAST
	12	32.66	CT20612RAST-ND	1.73	15.86	144.23	206-12RAST
209-LPST Series — SPST, Gold Finish, Flush, Sealed, Black Body							
4	2	6.55	CT2092LPST-ND	.68	6.19	56.25	209-2LPST
	3	9.09	CT2093LPST-ND	.73	6.68	60.75	209-3LPST
	4	11.63	CT2094LPST-ND	.57	5.20	47.25	209-4LPST
	5	14.17	CT2095LPST-ND	.92	8.42	76.50	209-5LPST
	6	16.71	CT2096LPST-ND	.73	6.68	60.75	209-6LPST
4	7	19.25	CT2097LPST-ND	1.08	9.90	90.00	209-7LSTPT
	8	21.79	CT2098LPST-ND	.73	6.68	60.75	209-8LPST
	9	24.33	CT2099LPST-ND	1.27	11.63	105.75	209-9LPST
	10	26.87	CT20910LPST-ND	1.35	12.38	112.50	209-10LPST
	12	31.95	CT20912LPST-ND	1.51	13.86	126.00	209-12LPST
209-MS Series — SPST, Gold Finish, Extended, Sealed, Black Body							
4	2	6.55	CT2092MS-ND	.65	5.94	54.00	209-2MS
	3	9.09	CT2093MS-ND	.70	6.44	58.50	209-3MS
	4	11.63	CT2094MS-ND	.78	7.18	65.25	209-4MS
	5	14.17	CT2095MS-ND	.89	8.17	74.25	209-5MS
	6	16.71	CT2096MS-ND	.97	8.91	81.00	209-6MS
	7	19.25	CT2097MS-ND	1.05	9.65	87.75	209-7MS
	8	21.79	CT2098MS-ND	1.13	10.40	94.50	209-8MS
	9	24.33	CT2099MS-ND	1.24	11.39	103.50	209-9MS
	10	26.87	CT20910MS-ND	1.32	12.13	110.25	209-10MS
	12	31.95	CT20912MS-ND	1.49	13.61	123.75	209-12MS
219-LPST Series — SPST, Gold Finish, Flush, Sealed, Brown Body							
5	2	6.55	CT2192LPST-ND	.58	5.30	48.15	219-2LPST
	3	9.09	CT2193LPST-ND	.78	7.18	65.25	219-3LPST
	4	11.63	CT2194LPST-ND	.59	5.45	49.50	219-4LPST
	5	14.17	CT2195LPST-ND	.95	8.66	78.75	219-5LPST
	6	16.71	CT2196LPST-ND	.87	8.02	72.90	219-6LPST
	7	19.25	CT2197LPST-ND	1.13	10.40	94.50	219-7LPST
	8	21.79	CT2198LPST-ND	.92	8.42	76.50	219-8LPST
	9	24.33	CT2199LPST-ND	1.30	11.88	108.00	219-9LPST
	10	26.87	CT21910LPST-ND	1.15	10.54	95.85	219-10LPST
	12	31.95	CT21912LPST-ND	1.54	14.11	128.25	219-12LPST
219-MST Series — SPST, Gold Finish, Extended, Sealed, Brown Body							
5	2	6.55	CT2192MST-ND	.49	4.46	40.50	219-2MST
	3	9.09	CT2193MST-ND	.78	7.18	65.25	219-3MST
	4	11.63	CT2194MST-ND	.59	5.45	49.50	219-4MST
	5	14.17	CT2195MST-ND	.95	8.66	78.75	219-5MST
	6	16.71	CT2196MST-ND	1.03	9.41	85.50	219-6MST
	7	19.25	CT2197MST-ND	1.13	10.40	94.50	219-7MST
	8	21.79	CT2198MST-ND	.95	8.66	78.75	219-8MST
	9	24.33	CT2199MST-ND	1.30	11.88	108.00	219-9MST
	10	26.87	CT21910MST-ND	1.35	12.38	112.50	219-10MST
	12	31.95	CT21912MST-ND	1.54	14.11	128.25	219-12MST
193 Series — SPST, Gold Finish, Brown Body							
6	2	7.26	CT1932MS-ND	1.95	15.57	137.61	193-2MS
	3	9.80	CT1933MS-ND	2.02	16.18	143.06	193-3MS
	4	12.34	CT1934MS-ND	1.78	14.25	130.63	193-4MS
	5	14.88	CT1935MS-ND	2.06	16.50	151.25	193-5MS
	6	17.42	CT1936MS-ND	2.09	16.74	148.01	193-6MS
	7	19.96	CT1937MS-ND	2.28	18.20	160.88	193-7MS
	8	22.50	CT1938MS-ND	1.97	15.79	139.59	193-8MS
204 Series — SPST, Tape Sealed, Gold Finish, Brown Body							
7	2	7.26	CT2042ST-ND	1.77	15.21	139.43	204-2ST
	3	9.80	CT2043ST-ND	1.79	14.28	126.23	204-3ST
	4	12.34	CT2044ST-ND	1.51	12.90	118.25	204-4ST
	5	14.88	CT2045ST-ND	1.58	13.50	123.75	204-5ST
	6	17.42	CT2046ST-ND	1.61	13.80	126.50	204-6ST
	7	19.96	CT2047ST-ND	1.68	14.40	132.00	204-7ST
	8	22.50	CT2048ST-ND	1.72	14.70	134.75	204-8ST
	9	25.04	CT2049ST-ND	1.79	15.30	140.25	204-9ST
	10	27.58	CT20410ST-ND	1.89	16.20	148.50	204-10ST
	12	32.66	CT20412ST-ND	2.07	17.70	162.25	204-12ST
204 Series — SPDT, Tape Sealed, Gold Finish, Brown Body							
7	1	7.26	CT204121ST-ND	2.03	17.40	159.50	204-121ST
	1	7.26	CT204121LPST-ND	2.17	18.60	170.50	204-121LPST
204 Series — DPST, Tape Sealed, Gold Finish, Brown Body							
7	1	7.26	CT204211ST-ND	1.54	12.32	108.90	204-211ST
	2	12.34	CT204212ST-ND	1.89	15.12	133.65	204-212ST
	3	17.42	CT204213ST-ND	2.03	17.40	159.50	204-213ST
	4	22.50	CT204214ST-ND	2.17	17.36	153.45	204-214ST
	5	27.58	CT204215ST-ND	2.20	18.30	167.75	204-215ST
	6	32.66	CT204216ST-ND	2.42	22.43	207.00	204-216ST
204 Series — DPDT, Tape Sealed, Gold Finish, Brown Body							
7	1	12.34	CT204221ST-ND	2.99	25.65	235.13	204-221ST
	2	22.50	CT204222ST-ND	1.89	15.12	133.65	204-222ST
	3	32.66	CT204223ST-ND	2.17	17.36	153.45	204-223ST
218 Series — SPST, Tape Sealed, Gold Finish, Brown Body							
8	2	3.71	CT2182LPST-ND	1.90	15.18	134.15	218-2LPST
	4	6.25	CT2184LPST-ND	1.89	15.12	133.65	218-4LPST
	6	8.79	CT2186LPST-ND	2.52	20.13	177.95	218-6LPST
	8	11.33	CT2188LPST-ND	3.25	25.98	229.68	218-8LPST
	10	13.87	CT21810LPST-ND	1.78	14.25	125.98	218-10LPST
	12	16.41	CT21812LPST-ND	2.98	27.35	248.63	218-12LPST

Fig. 1 - Top Actuated Slide

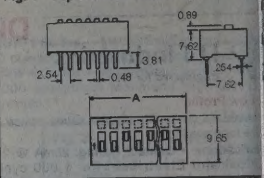


Fig. 2 - Side Actuated

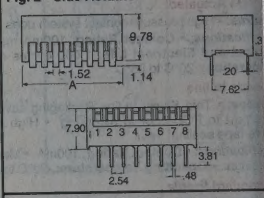


Fig. 3 - Right Angle Slide

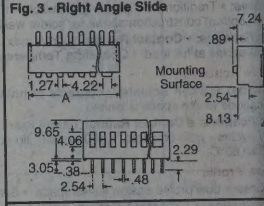


Fig. 4 - Top Actuated - Auto Dip

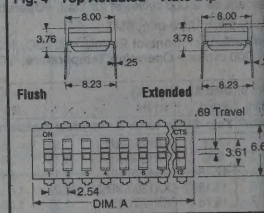


Fig. 5 - Surface Mount

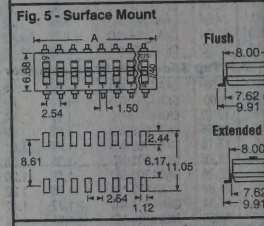


Fig. 6 - SMT Side Actuated

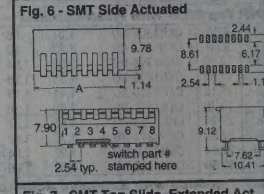
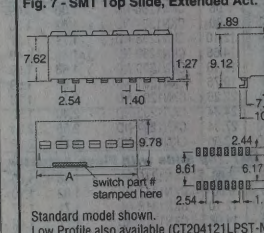
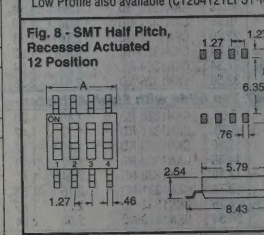


Fig. 7 - SMT Top Slide, Extended Act.



Standard model shown.
Low Profile also available (CT204121LPST-N

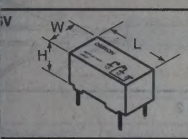
Fig. 8 - SMT Half Pitch, Recessed Actuated 12 Position



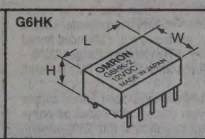
H

OMRON Low Signal Relays

All Relays UL/CSA approved



G6HK



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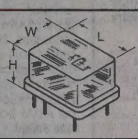
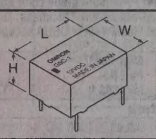


G5C



Contact Form	Coil Volt. (VDC)	Coil Res. (Ω)	Contact Ratings Resistive (A) 24 VDC	Contact Ratings Resistive (A) 115 VAC	Oper. Volt. (% of Rated) Pull/Drop/Max. On/Out/Cont.	Oper./Rel. Time/ Time (msec.)	Dimensions (mm) H x L x W	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 50	Omron Part No.
PC Mount Low Signal Relays												
SPDT†	3	60	1	0.5	80/10/200	5/5	10x12.5x7.5	Z2204-ND ***NEW!***	2.33	2.10	1.86	G5V-1-DC3
	5	167	1	0.5	80/10/200	5/5	10x12.5x7.5	Z773-ND	2.33	2.10	1.86	G5V-1-DC5
	12	960	1	0.5	80/10/200	5/5	10x12.5x7.5	Z774-ND	2.33	2.10	1.86	G5V-1-DC12
	24	3840	1	0.5	80/10/200	5/5	10x12.5x7.5	Z775-ND	2.33	2.10	1.86	G5V-1-DC24
DPDT†*	3	18	2	0.5	75/5/120	7/3	11.5x20.5x10.1	Z2185-ND ***NEW!***	2.85	2.57	2.28	G5V-2-DC3
	5	50	2	0.5	75/5/120	7/3	11.5x20.5x10.1	Z767-ND	2.88	2.59	2.30	G5V-2-DC5
	12	288	2	0.5	75/5/120	7/3	11.5x20.5x10.1	Z768-ND	2.88	2.59	2.30	G5V-2-DC12
	24	1152	2	0.5	75/5/120	7/3	11.5x20.5x10.1	Z769-ND	2.88	2.59	2.30	G5V-2-DC24
	5	70	2	0.5	75/5/120	7/3	11.5x20.5x10.1	Z770-ND	3.08	2.77	2.46	G5V-2-H-DC5
	12	400	2	0.5	75/5/120	7/3	11.5x20.5x10.1	Z771-ND	3.08	2.77	2.46	G5V-2-H-DC12
	24	1600	2	0.5	75/5/120	7/3	11.5x20.5x10.1	Z772-ND	3.08	2.77	2.46	G5V-2-H-DC24
	3	60	2	0.5	75/5/150	7/3	11.5x20.5x10.1	Z2203-ND ***NEW!***	3.18	2.86	2.54	G5V-2-H1-DC3
	5	166.7	2	0.5	75/5/150	7/3	11.5x20.5x10.1	Z108-ND	3.18	2.86	2.54	G5V-2-H1-DC5
	12	960	2	0.5	75/5/150	7/3	11.5x20.5x10.1	Z109-ND	3.18	2.86	2.54	G5V-2-H1-DC12
	24	2880	2	0.5	75/5/150	7/3	11.5x20.5x10.1	Z110-ND	3.18	2.86	2.54	G5V-2-H1-DC24
DPDT	5	125	1	0.6	70/10/150	5/5	8.4x20.3x10.1	Z105-ND	4.68	4.21	3.74	G6A-234P-ST-US-DC5
	12	720	1	0.6	70/10/150	5/5	8.4x20.3x10.1	Z106-ND	4.68	4.21	3.74	G6A-234P-ST-US-DC12
	24	2880	1	0.6	70/10/150	5/5	8.4x20.3x10.1	Z107-ND	4.68	4.21	3.74	G6A-234P-ST-US-DC24
	3	45	2	0.5	70/10/150	5/3	8.4x20.3x10.1	Z122-ND	4.58	4.12	3.66	G6A-274P-ST-US-DC3
	5	125	2	0.5	70/10/150	5/3	8.4x20.3x10.1	Z123-ND	4.58	4.12	3.66	G6A-274P-ST-US-DC5
	12	720	2	0.5	70/10/150	5/3	8.4x20.3x10.1	Z124-ND	4.58	4.12	3.66	G6A-274P-ST-US-DC12
	24	2880	2	0.5	70/10/150	5/3	8.4x20.3x10.1	Z125-ND	4.58	4.12	3.66	G6A-274P-ST-US-DC24
DPDT	5	125	1	0.5	70/10/150	5/5	7.9x16.0x9.9	Z706-ND	4.00	3.60	3.20	G5A-237P-DC5
	12	720	1	0.5	70/10/150	5/5	7.9x16.0x9.9	Z707-ND	4.00	3.60	3.20	G5A-237P-DC12
	24	2880	1	0.5	70/10/150	5/5	7.9x16.0x9.9	Z708-ND	4.13	3.72	3.30	G5A-237P-DC24
	5	125	1	0.5	70/10/150	5/5	8.0x16.0x9.9	Z942-ND	4.33	3.90	3.46	G5A-234P-DC5
	12	720	1	0.5	70/10/150	5/5	8.0x16.0x9.9	Z943-ND	4.33	3.90	3.46	G5A-234P-DC12
	24	2880	1	0.5	70/10/150	5/5	8.0x16.0x9.9	Z944-ND	4.33	3.90	3.46	G5A-234P-DC24
SPDT	5	63	3	0.6	70/10/190	5/5	8.0x16.0x9.9	Z761-ND	3.85	3.47	3.08	G6E-134P-L-ST-US-DC5
	12	360	3	0.6	70/10/190	5/5	8.0x16.0x9.9	Z762-ND	3.85	3.47	3.08	G6E-134P-L-ST-US-DC12
	24	1440	3	0.6	70/10/190	5/5	8.0x16.0x9.9	Z763-ND	3.85	3.47	3.08	G6E-134P-L-ST-US-DC24
SPDT†*	5	125	3	0.2	70/10/190	5/5	7.9x16.0x9.9	Z830-ND	4.03	3.63	3.22	G6E-134P-ST-US-DC5
	12	720	3	0.2	70/10/190	5/5	7.9x16.0x9.9	Z831-ND	4.03	3.63	3.22	G6E-134P-ST-US-DC12
	24	2880	3	0.2	70/10/190	5/5	7.9x16.0x9.9	Z832-ND	4.03	3.63	3.22	G6E-134P-ST-US-DC24
4PDT†*	5	69	1	0.3	70/10/150	7/5	8.4x35.4x10.1	Z940-ND	10.10	9.09	8.08	G6A-434P-STUS-DC5
	12	400	1	0.3	70/10/150	7/5	8.4x35.4x10.1	Z206-ND	10.10	9.09	8.08	G6A-434P-ST-US-DC12
	24	1600	1	0.3	70/10/150	7/5	8.4x35.4x10.1	Z941-ND	10.10	9.09	8.08	G6A-434P-STUS-DC24
PC Mount Low Signal Relays — Latching Type												
DPDT*	5	139	1	0.3	70/70/200	5/5	8.4x20.2x10.1	Z749-ND	5.85	5.27	4.68	G6AK-234P-ST-US-DC5
	12	800	1	0.3	70/70/200	5/5	8.4x20.2x10.1	Z750-ND	4.68	4.21	3.74	G6AK-234P-ST-US-DC12
	24	3200	1	0.3	70/70/200	5/5	8.4x20.2x10.1	Z751-ND	5.85	5.27	4.68	G6AK-234P-ST-US-DC24
SPDT†*	5	125	2	0.4	70/70/190	5/5	7.9x16.0x9.9	Z833-ND	5.20	4.68	4.16	G6EK-134P-ST-US-DC5
	12	720	2	0.4	70/70/190	5/5	7.9x16.0x9.9	Z834-ND	5.20	4.68	4.16	G6EK-134P-ST-US-DC12
	24	2880	2	0.4	70/70/190	5/5	7.9x16.0x9.9	Z835-ND	5.40	4.86	4.32	G6EK-134P-ST-US-DC24
DPDT†	5	125	1	0.5	75/75/190	3/2	5.0x14.0x9	Z965-ND	4.85	4.37	3.88	G6HK-2-DC5
	12	720	1	0.5	75/75/190	3/2	5.0x14.0x9	Z966-ND	4.85	4.37	3.88	G6HK-2-DC12
	24	1920	1	0.5	75/75/190	3/2	5.0x14.0x9	Z967-ND	5.23	4.71	4.18	G6HK-2-DC24
High Efficiency Power Relays (Low Power Consumption with High Coil Resistance)												
SPST-NO†	5	125	8	8	70/10/130	10/10	12.44x20.0x9.9	Z712-ND	4.95	4.46	3.96	G6B-1174P-US-DC5
	12	720	8	8	70/10/130	10/10	12.44x20.0x9.9	Z713-ND	4.95	4.46	3.96	G6B-1174P-US-DC12
	24	2880	8	8	70/10/130	10/10	12.44x20.0x9.9	Z714-ND	5.13	4.62	4.10	G6B-1174P-US-DC24
SPST-NO†	5	125	10	10	70/10/130	10/10	10.2x20.0x15.0	Z715-ND	4.98	4.48	3.98	G6C-1114P-US-DC5
	12	720	10	10	70/10/130	10/10	10.2x20.0x15.0	Z716-ND	4.98	4.48	3.98	G6C-1114P-US-DC12
	24	2880	10	10	70/10/130	10/10	10.2x20.0x15.0	Z948-ND	5.13	4.62	4.10	G6C-1114P-US-DC24
SPST-NO/NC	5	125	8	8	70/10/130	10/10	9.9x20.0x15.0	Z949-ND	5.73	5.16	4.58	G6C-2114P-US-DC5
	12	720	8	8	70/10/130	10/10	9.9x20.0x15.0	Z950-ND	5.73	5.16	4.58	G6C-2114P-US-DC12
	24	2880	8	8	70/10/130	10/10	9.9x20.0x15.0	Z951-ND	5.90	5.31	4.72	G6C-2114P-US-DC24
PC Mount Relay Socket for G6C Series							15x23x10.79	Z126-ND	1.90	1.71	1.52	P6C-06P
SPST-NO*	5	125	10	15	75/10/110	10/10	11x22x16	Z960-ND	3.43	3.09	2.74	G5CE-1-DC5
	12	720	10	15	75/10/110	10/10	11x22x16	Z779-ND	3.43	3.09	2.74	G5CE-1-DC12
SPST-NO†	5	125	10	10	75/10/130	10/10	11x22x16	Z1048-ND	3.98	3.58	3.18	G5C-14-DC5
	5	125	10	10	75/10/150	10/10	11x22x16	Z2155-ND ***NEW!***	3.70	3.33	2.96	G5CA-1A4-DC5
	12	720	10	10	75/10/150	10/10	11x22x16	Z2156-ND ***NEW!***	3.70	3.33	2.96	G5CA-1A4-DC12
	24	2880	10	10	75/10/150	10/10	11x22x16	Z2157-ND ***NEW!***	3.70	3.33	2.96	G5CA-1A4-DC24
SPST-NO	5	125	10	10	75/10/150	10/10	11x22x16	Z2158-ND ***NEW!***	3.43	3.09	2.74	G5CA-1A-DC5
	12	720	10	10	75/10/150	10/10	11x22x16	Z2159-ND ***NEW!***	3.43	3.09	2.74	G5CA-1A-DC12
	24	2880	10	10	75/10/150	10/10	11x22x16	Z2160-ND ***NEW!***	3.55	3.20	2.84	G5CA-1A-DC24
	5	125	10	15	75/10/150	10/10	11x22x16	Z2161-ND ***NEW!***	3.75	3.38	3.00	G5CA-1A-E-DC5
	12	720	10	15	75/10/150	10/10	11x22x16	Z2162-ND ***NEW!***	3.75	3.38	3.00	G5CA-1A-E-DC12
	24	2880	10	15	75/10/150	10/10	11x22x16	Z2163-ND ***NEW!***	3.75	3.38	3.00	G5CA-1A-E-DC24
SPST-NO	12	720	10	15	75/10/150	10/10	11x22.1x25.1	Z2164-ND ***NEW!***	5.05	4.55	4.04	G5CA-1A-TP-E-DC12
	24	2880	10	15	75/10/150	10/10	11x22.1x25.1	Z2165-ND ***NEW!***	5.05	4.55	4.04	G5CA-1A-TP-E-DC24
SPST-NO†*	5	125	5	5	70/10/130	10/10	9.9x20.1x9.9	Z945-ND	4.13	3.72	3.30	G6B-1114P-US-DC5
	6	180	5	5	70/10/130	10/10	9.9x20.1x9.9	Z752-ND	4.13	3.72	3.30	G6B-1114P-US-DC6
	12	720	5	5	70/10/130	10/10	9.9x20.1x9.9	Z753-ND	4.13	3.72	3.30	G6B-1114P-US-DC12
	24	2880	5	5	70/10/130	10/10	9.9x20.1x9.9	Z754-ND	4.25	3.83	3.40	G6B-1114P-US-DC24

aled case. * Meets FCC Part 68 standards.

Mounting Hole Pattern and Connection Diagram
"Bottom view unless otherwise noted"

Fig. 1 — G5V-1

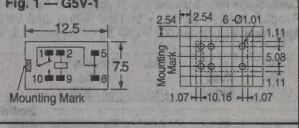


Fig. 2 — G6A Pin #1 is Positive

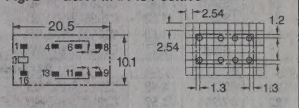


Fig. 3 — G5A

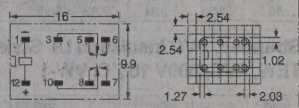


Fig. 4 — G6E

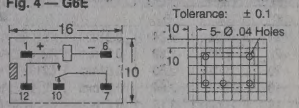


Fig. 5 — G6A

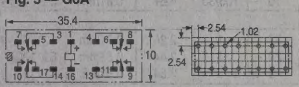


Fig. 6 — G6AK

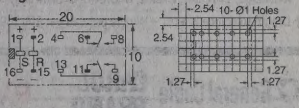


Fig. 7 — G6HK

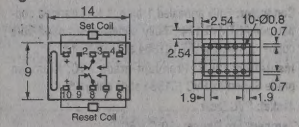


Fig. 8 — G6B

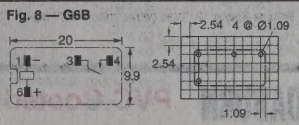


Fig. 9 — G6C

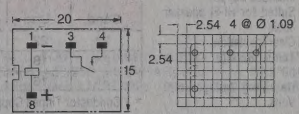


Fig. 10 — G6C

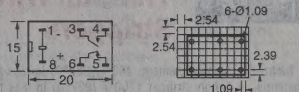


Fig. 11 — G5CA

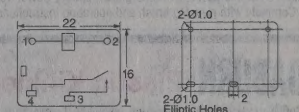
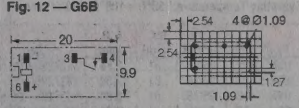


Fig. 12 — G6B



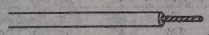
H

General Cable CAROL BRAND Hook-Up Wire

Conductor: • Fully annealed tinned copper per ASTM B-33 **Insulation:** • Premium grade color coded PVC • Temperature Range: -20°C ~ 125°C • Voltage Rating: 300 Volts • Nominal Insulation Thickness: 0.016 (0.41mm) **Industry Approvals:** • UL Style 1007 • CSA TR-64 • Passes UL VW-1 Vertical Flame Test • OSHA acceptable.

Cond. Size (AWG)	Cond. Strand	Ins. O.D. (mm)	Digi-Key* Part No. for 100 ft.	Price 100 ft.†	Digi-Key* Part No. for 1000 ft.	Price 1,000 ft.†	General Cable Part No.
Solid Conductors							
24	Solid	1.32	C2003□-100-ND	12.88	C2003□-1000-ND	41.92	C2003
22	Solid	1.45	C2004□-100-ND	13.47	C2004□-1000-ND	47.78	C2004
20	Solid	1.63	C2028□-100-ND	14.45	C2028□-1000-ND	57.59	C2028
18	Solid	1.83	C2052□-100-ND	15.71	C2052□-1000-ND	70.24	C2052
16	Solid	2.11	C2053□-100-ND	17.35	C2053□-1000-ND	86.66	C2053
Stranded Conductors							
24	7/32	1.42	C2015□-100-ND	13.67	C2015□-1000-ND	49.78	C2015
22	7/30	1.57	C2016□-100-ND	14.23	C2016□-1000-ND	55.45	C2016
20	10/30	1.78	C2040□-100-ND	15.35	C2040□-1000-ND	66.64	C2040
18	16/30	2.03	C2064□-100-ND	16.81	C2064□-1000-ND	81.19	C2064
16	26/30	2.34	C2065□-100-ND	19.02	C2065□-1000-ND	103.33	C2065

Stranded, PVC Insulation UL Style 1015, TEW, PVC, 600V 105°C, VW-1



Cond. Size (AWG)	Strand	Nom. O.D. (mm)	Insulation Thickness	Digi-Key* Part No. for 100 ft.	Price 100 ft.†	Digi-Key* Part No. for 1000 ft.	Price 1,000 ft.†	General Cable Part No.
Stranded								
24	7/32	2.24	0.81mm	C2100□-100-ND	14.27	C2100□-1000-ND	55.86	C2100
22	7/30	2.39	0.81mm	C2101□-100-ND	15.12	C2101□-1000-ND	64.36	C2101
20	10/30	2.59	0.81mm	C2102□-100-ND	16.45	C2102□-1000-ND	78.41	C2102
18	16/30	2.84	0.81mm	C2103□-100-ND	18.08	C2103□-1000-ND	94.77	C2103
16	26/30	3.15	0.81mm	C2104□-100-ND	21.57	C2104□-1000-ND	99.45	C2104
14	41/30	3.58	0.81mm	C2105□-100-ND	25.62	C2105□-1000-ND	174.03	C2105
10	105/30	4.67	0.81mm	C2107□-100-ND	44.54	C2107□-1000-ND	342.38	C2107
Solid								
22	1	2.26	0.81mm	C2117□-100-ND	14.18	C2117□-1000-ND	54.90	C2117
20	1	2.44	0.81mm	C2118□-100-ND	15.49	C2118□-1000-ND	68.04	C2118
18	1	2.64	0.81mm	C2119□-100-ND	16.92	C2119□-1000-ND	83.17	C2119

* For □ in Digi-Key Part No. choose letter which represents color of your choice: **B**=Black; **W**=White; **R**=Red; **G**=Green; **A**=Orange; **Y**=Yellow; **L**=Blue; **N**=Brown; **S**=Slate Gray; **V**=Violet.

† Length tolerance is ±1% • Wire is ordered per EIA-359-A color specification which allows for some variation in shade.

Audio and Communication

C1331 AND C1340 — Conductor: • 22 thru 20 AWG fully annealed stranded tinned copper per ASTM B-33 **Insulation:** • **C1331:** Premium grade, color coded PVC • **C1340:** Premium grade, color coded polypropylene **Shield:** • 100% Flexfoil® aluminum/polyester over 2 conductors, 25% overlap, minimum, foil facing out • Stranded tinned copper drain wire **Jacket:** • PVC, gray • Temperature Range: -20°C ~ 80°C **Applications:** • Audio • Communications • EMI isolated circuits for instrumentation

C2509 — Conductor: • 20 AWG fully annealed solid tinned copper per ASTM B-33 **Insulation:** • Premium grade, color coded polyethylene **Shield:** • 100% Flexfoil® aluminum/polyester with 25% overlap, minimum, foil facing out • Solid tinned copper drain wire **Jacket:** • Permaline® high density polyethylene, Black • Temperature Range: -20°C ~ 80°C **Applications:** • Suitable for direct burial • Outdoor uses • 100% shielded cable where RF shielding is required • Suggested Voltage Rating: 350 Volts

Fig. 1

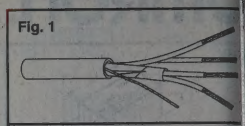
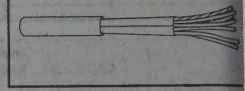


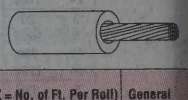
Fig. 2



No. of Cond.	Cond. Size (AWG)	Strand	Nominal Insulation Thickness (mm)	Nominal O.D. (mm)	Digi-Key Part No.	(X = No. of Ft. Per Roll) Price Per Roll 100 ft.	1,000 ft.	5,000 ft.	General Cable Part No.
Fig. 1 — UL Style 2095, 300 Volt NEC Type CL2, Gray									
4	20	7/28	0.41	5.84	C1331-X-ND	35.32	201.82	—	C1331.41.0
Fig. 1 — UL Style 2835, 30 Volt, Gray									
4	22	7/30	0.20	4.24	C1340-X-ND	27.09	139.02	—	C1340.21.0
Fig. 2 — UL Style C2509, 350 Volt, Black									
2	20	Solid	0.33	4.83	C2509-X-ND	—	153.19	580.21	C2509.46.0

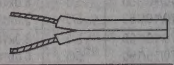
Rubber/PVC Test Lead Wire

Conductor: • Fully annealed stranded tinned copper per ASTM B-33 **Insulation:** • Premium grade color coded Rubber or PVC • Temperature Range: -20°C ~ 60°C, Rubber; -25°C ~ 60°C, PVC



No. of Cond.	Cond. Size (AWG)	Strand	Nominal Insulation Thickness (mm)	Working Voltage	Color	Nom. O.D. (mm)	Digi-Key Part No.	(X = No. of Ft. Per Roll) Price Per Roll 100 ft.	1,000 ft.	General Cable Part No.
Rubber Test Leads										
1	18	65/36	1.14	5,000V	Black	3.56	C1321B-X-ND	28.21	88.58	C1321.21.0
1	18	65/36	1.14	5,000V	Red	3.56	C1321R-X-ND	28.21	108.46	C1321.21.0
PVC Test Leads										
1	18	65/36	1.14	5,000V	Black	3.56	C1320B-X-ND	24.37	79.98	C1320.21.0
1	18	65/36	1.14	5,000V	Red	3.56	C1320R-X-ND	24.37	79.98	C1320.21.0

General Cable CAROL BRAND PVC Coated Speaker Cable

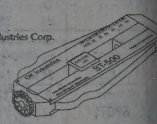


- **Conductor:** Fully annealed 1 bare, 1 tin stranded copper per ASTM B-174; Fully annealed stranded bare copper per ASTM B-3 (C1364 style only)**
- **Insulation:** Clear; Premium grade PVC; Premium grade Superflex PVC (C1364 style only)**
- **Jacket:** PVC Clear
- **Temperature Range:** -20°C ~ 60°C
- **Voltage Rating:** UL listed (wires, misc.) 120V max.

† Length tolerance is ±10%

No. of Cond.	Cond. Size (AWG)	Strand	Nominal Insulation Thickness (mm)	Nominal O.D. (mm)	Suggested Working Voltage	Digi-Key Part No.	(X = No. of Ft. Per Roll) Price Per Roll 500 ft.†	1,000 ft.†	General Cable Part No.
2	24	7/32	0.41	1.40 x 2.79	120	C1356-X-ND	13.88	27.75	C1356
2	22	7/30	0.51	1.78 x 3.68	120	C1362-X-ND	19.66	39.32	C1362
2	20	10/30	0.51	2.16 x 4.06	120	C1360-X-ND	27.04	54.08	C1360
2	18	16/30	0.64	2.54 x 4.75	120	C1357-X-ND	31.66	63.32	C1357
2	16	26/30	0.64	2.84 x 5.33	120	C1358-X-ND	43.94	87.87	C1358
2	14	41/30	0.64	3.05 x 5.84	120	C1361-X-ND	68.09	136.17	C1361
2	12	65/30	0.76	4.06 x 8.51	120	C1363-X-ND	109.38	218.76	C1363
2	12	7 x 37/36	1.52	5.84 x 11.94	120	C1364-X-ND**	208.23	416.46	C1364

OK Industries
Division of Jonard Industries Corp.

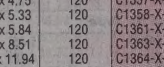


Wire Strippers

Features:
• Calibrated Strip Length (Adjustable to 2 inches) • Sin
action squeeze-pull motion • Clean, precise strip of a
insulation type • Shirt-pocket size and light weight

K503-ND 20 - 30 AWG.....$68.
K276-ND 18 - 28 AWG.....$73.

DABURN PVC Coated Speaker Cable



- Conductors are parallel, stranded copper
- Suited for Hi-Fi speaker cable
- Clear insulation
- **Temp. Rating:** -20°C ~ 60°C
- **Operating Voltage:** 300 Volts

Cond.	Size	Strand	Digi-Key Part No.	(X = No. of Ft. Per Roll) Price Per Roll 100 ft.	1,000 ft.	Daburn Part No.
2*	22	7/30	W200-X-ND	6.80	51.34	2753
2*	18	16/30	W201-X-ND	13.60	110.76	2759C
2*	16	26/30	W202-X-ND	17.77	142.89	2760

* 1 Conductor Tinned Copper; 1 Conductor Bare Copper

tyco Electronics AMP

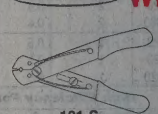
Cable Stripper

A1110-ND Cable Stripping Tool for RG/58, 59

(AMP Part No. 603995-1)...**$114.54**

MILLER®

Wire Strippers



101-S

721, 821, 921

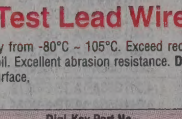
101-S WIRE STRIPPER:
Handy, lightweight, universal stripping tool cuts and str
common wire sizes. Hardened blades. Plastic grips. Spr
action to speed work. Full length: 5.125" (130.18mm)

721, 821, 921 WIRE STRIPPERS:
Strip and cut commonly used wire, single or stranded, A
or metric. Each tool will strip several different wire siz
Narrow nose plier design is an extra feature along w
cushion grips and spring release. Hardened pivot joint
longer life. A perfect tool for solder benches or assem
areas.

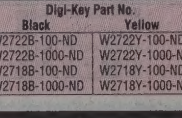
101-S-ND ***NEW!*** Up to 10 AWG.....$11.
721-ND ***NEW!*** 10 - 20 AWG.....$14.
821-ND ***NEW!*** 16 - 26 AWG.....$14.
921-ND ***NEW!*** 20 - 30 AWG.....$14.

PATCO SERVICE INC

Thermal Wire Strippers



PTS-30-ND



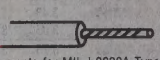
PTS-10-ND
PTS-20-ND

- Nichrome, heating element: 450°F (232°C) in less than 5 seconds. • Teflon stripper 1700°F (927°C) in less than 5 seconds • Eliminates nicks and broken strands of conductors • Handles solid, stranded and shielded wires • Does not burn skin • AC line power or rechargeable battery power versions • Complete with cleaning brush and operating instructions.

Description	Digi-Key Part No.	Price Each
Thermal Wire Stripper, Battery Powered with Cleaning Brush	PTS-20-ND*	104.47
Replacement Blade for PTS-20	PTS-201-ND	5.04
Thermal Wire Stripper with Cleaning Brush	PTS-10-ND*	59.41
Replacement Blade for PTS-10-ND	PTS-101-ND	5.19
Teflon Wire Stripper for 16-30 AWG	PTS-30-ND	97.00
Replacement Blade for PTS-30-ND	PTS-302-ND	5.32

* Will not strip Teflon wire.

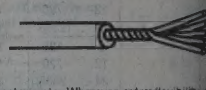
DABURN Plastic Kinkless Test Lead Wire



Soft formulation vinyl maximum flexibility. Temperature stability from -80°C ~ 105°C. Exceed requirements for MIL-I-3930A Type JP(PVC). Suitable for test leads, etc. Resistant to gasoline and oil. Excellent abrasion resistance. **Description:** One conductor tinned copper stranded, special formulation vinyl insulation - smooth surface,
Operating Temperature: -80°C ~ 105°C, 5000V rating.

Ft.	Size	Strand	Ins. (mm)	O.D. Nom.	Digi-Key Part No. Red	Black	Yellow	Green	Price Per Roll
100	22	26/36	.81	2.54	W2722R-100-ND	W2722B-100-ND	W2722Y-100-ND	W2722G-100-ND	14.25
1000	22	26/36	.81	2.54	W2722R-1000-ND	W2722B-1000-ND	W2722Y-1000-ND	W2722G-1000-ND	94.17
100	18	65/36	.81	2.84	W2718R-100-ND	W2718B-100-ND	W2718Y-100-ND	W2718G-100-ND	24.05
1000	18	65/36	.81	2.84	W2718R-1000-ND	W2718B-1000-ND	W2718Y-1000-ND	W2718G-1000-ND	164.65

Rubber Kinkless Test Lead Wire

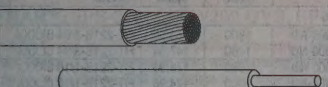


Suitable as Test Lead Wire in analyzers, instruments, oscillators, meters, etc. Wherever extra flexibility limpness are necessary. Single conductor, extra flexible stranded soft tinned copper, color-coded rubb smooth wax finish. **Operating Temperature:** -20°C ~ 60°C.

Ft.	Size	Nom. Strand	Breakdown Ins. Wall	Voltage	Nom. Voltage	O.D. Nom.	Digi-Key Part No. Red	Black	Price Per R
100	20	41/36	1.19mm	12,000V	3,000	3.48mm	W2715R-100-ND	W2715B-100-ND	41.
1000	20	41/36	1.19mm	12,000V	3,000	3.48mm	W2715R-1000-ND	W2715B-1000-ND	271.9

More Product Available Online: www.digikey.com
Toll-Free: 1-800-344-4539 • Phone: 218-681-6674 • Fax: 218-681-3380

Hook-Up Wire



Description:
• Stranded or solid tinned copper conductor • Color coded PVC insulation • Flammability: Passes UL VW-1 flame test • Wire is ordered per EIA-359-A color specifications which allows for some variation in shade

Operating Temperature:
300 Volt: -40°C to 90°C (CSA TR-64), -40°C to 80°C (UL AWM 1007)
600 Volt: -20°C to 105°C (UL1015, CSA TEW-105), -55°C to 105°C (MIL-W-16878E Type B) also (MIL-W-76B Type LW)

◊ **HU-KIT-20-ND**
Five 100-ft. spools, 22AWG, 300V stranded wire (black, white, red, green and blue) **$124.60**

§ **HU-KIT-40-ND**
Five 100-ft. spools, 24AWG, 300V stranded wire (black, white, red, green and blue). **$124.60**

Each kit comes in convenient wall dispenser and includes wire cutter.

Conductor Size (AWG)	Conductor Strand	Insulation Thickness Inch (mm)	Diameter Inch (mm)	Digi-Key Part No.*	PricePer 100 ft.	Alpha Part No.**	Digi-Key Part No.*	Price Per 1,000 ft.	Alpha Part No.**
Stranded — 300 Volt Rating									
30	7/38	.016 (.41)	.043 (1.09)	A3047□-100-ND†	18.00	3047 □ □005	A3047□-1000-ND†	89.10	3047 □□001
28	7/36	.016 (.41)	.047 (1.19)	A3048□-100-ND†	16.09	3048 □ □005	A3048□-1000-ND†	80.89	3048 □□001
26	7/34	.016 (.41)	.051 (1.30)	A3049□-100-ND†	17.44	3049 □ □005	A3049□-1000-ND†	83.70	3049 □□001
24	7/32	.016 (.41)	.057 (1.45)	A2015□-100-ND§	17.89	3050 □ □005	A2015□-1000-ND	84.71	3050 □□001
22	7/30	.016 (.41)	.065 (1.65)	A2016□-100-ND◊	20.14	3051 □ □005	A2016□-1000-ND	93.38	3051 □□001
20	10/30	.016 (.41)	.071 (1.80)	A2040□-100-ND	24.53	3053 □ □005	A2040□-1000-ND	118.58	3053 □□001
18	16/30	.016 (.41)	.080 (2.03)	A2064□-100-ND	26.89	3055 □ □005	A2064□-1000-ND	130.84	3055 □□001
16	26/30	.016 (.41)	.095 (2.41)	A2065□-100-ND	39.10	3057 □ □005	A2065□-1000-ND	186.62	3057 □□001
Solid — 300 Volt Rating									
24	Solid	.016 (.41)	.057 (1.45)	A3050□-100-ND†	13.00	3050/1 □ □005	—	—	—
22	Solid	.016 (.41)	.065 (1.65)	A3051□-100-ND†	14.70	3051/1 □ □005	—	—	—
20	Solid	.016 (.41)	.071 (1.80)	A3053□-100-ND†	17.80	3053/1 □ □005	—	—	—
16	Solid	.016 (.41)	.095 (2.41)	A3057□-100-ND†	27.70	3057/1 □ □005	—	—	—
Stranded — 600 Volt Rating, -20°C to 105°C									
24	7/32	.032 (.81)	.088 (2.24)	A3070□-100-ND†	18.00	3070 □ □005	—	—	—
22	7/30	.032 (.81)	.094 (2.39)	A2101□-100-ND	21.60	3071 □ □005	A2101□-1000-ND	112.39	3071 □□001
20	10/30	.032 (.81)	.100 (2.54)	A2102□-100-ND	24.00	3073 □ □005	A2102□-1000-ND	126.10	3073 □□001
18	16/30	.032 (.81)	.112 (2.84)	A2103□-100-ND	30.60	3075 □ □005	A2103□-1000-ND	155.60	3075 □□001
16	26/30	.032 (.81)	.124 (3.15)	A2104□-100-ND	39.40	3077 □ □005	A2104□-1000-ND	224.60	3077 □□001
14	41/30	.032 (.81)	.134 (3.61)	A3079□-100-ND†	52.80	3079 □ □005	—	—	—
12	65/30	.032 (.81)	.162 (3.93)	A3080□-100-ND†	92.40	3080 □ □005	—	—	—
10	105/30	.032 (.81)	.180 (4.83)	A3081□-100-ND†	144.90	3081 □ □005	—	—	—
Stranded — 600 Volt Rating, -55°C to 105°C (available in white, black or red only)									
28	7/36	.010 (.25)	.034 (.86)	A1852□-100-ND	19.91	1852 □□005	—	—	—
26	7/34	.010 (.25)	.038 (.96)	A1853□-100-ND	19.91	1853 □□005	—	—	—
24	7/32	.010 (.25)	.043 (1.09)	A1854□-100-ND	20.25	1854 □□005	—	—	—
24	19/36	.010 (.25)	.043 (1.09)	A185419□-100-ND	32.63	1854/19 □□005	—	—	—
22	7/30	.010 (.25)	.050 (1.27)	A1855□-100-ND	21.83	1855 □□005	—	—	—
22	19/34	.010 (.25)	.050 (1.27)	A185519□-100-ND	42.86	1855/19 □□005	—	—	—
20	7/28	.010 (.25)	.058 (1.47)	A1856□-100-ND	27.23	1856 □□005	—	—	—
20	19/32	.010 (.25)	.058 (1.47)	A185619□-100-ND	42.30	1856/19 □□005	—	—	—
18	19/30	.010 (.25)	.068 (1.73)	A185719□-100-ND	58.50	1857/19 □□005	—	—	—
16	19/29	.010 (.25)	.077 (1.96)	A185819□-100-ND	38.59	1858/19 □□005	—	—	—
14	19/27	.010 (.25)	.091 (2.31)	A185919□-100-ND	78.19	1859/19 □□005	—	—	—

For □ in Digi-Key Part No. choose letter which represents color of your choice:
A = Orange **B** = Black **G** = Green **L** = Blue **N** = Brown
R = Red **S** = Gray **V** = Violet **W** = White **Y** = Yellow
E = Green/Yellow (Stranded wire only)

** For □□ in Alpha Part No. choose letters which represents color of your choice:
OR = Orange **BK** = Black **GR** = Green **BL** = Blue **BR** = Brown
RD = Red **SL** = Gray **VI** = Violet **WH** = White **YL** = Yellow
GY = Green/Yellow (Stranded wire only) † Not available in green/yellow

Harmonized Hook-Up Wire

Loose Harmonized Hook-Up Wire for installation in electronic and electrical equipment designed for use in Europe. Mandatory conformance to CENELEC guidelines and applications where flexible European-compliant Hook-Up Wire is needed. **Specifications:** • HAR H05V-K(3110); HD 21.5 S3; DIN 57281/VDE 0281-5 • HAR H07V-K(3111,3112); HD 21.5 S3; DIN 57281/VDE 0281-5 • IEC 60227-1, IEC 60227-2, IEC 60227-5 • IEC 60228 • IEC 60332-1 • BS 6500 • CE Low Voltage Directive 73/23/EEC - Amendment 93/68/EEC • Bend radius 15X wire diameter **Characteristics:** • Operating Temperature: -30°C ~ 70°C (static), 5°C ~ 70°C (dynamic) • Voltage Rating: 300/500 Vrms (H05V-K), 450/750 Vrms (H07V-K) • Wire Insulation: Color-coded PVC • Conductor: Fine stranded bare copper, meets VDE 0295, Class 5, Part 3 (IEC 228, Class 5)

Cable Dia. Inch (mm)	Conductor Size (AWG)	Strand‡	Wire Insulation Thickness Inch (mm)	Digi-Key Part No.*	Price per 100 ft.	Alpha Part No.**	Digi-Key Part No.*	Price per 1,000 ft.	Alpha Part No.**
0.102 (2.59)	17	31/32	0.024 (0.61)	A3110□-100-ND	35.10	3110 □□005	A3110□-1000-ND	275.60	3110 □□001
0.118 (3.00)	16	29/30	0.028 (0.71)	A3111□-100-ND	38.10	3111 □□005	A3111□-1000-ND	298.60	3111 □□001
0.146 (3.71)	14	49/30	0.031 (0.79)	A3112□-100-ND	55.50	3112 □□005	A3112□-1000-ND	436.40	3112 □□001

For □ in Digi-Key Part No. choose letter which represents color of your choice:
B = Black **G** = Green/Yellow **L** = Blue **N** = Brown

** For □□ in Alpha Part No. choose letters which represents color of your choice:
BK = Black **GY** = Green/Yellow **BL** = Blue **BR** = Brown

‡Conductor size based on DC resistance therefore strand count may vary.

Tri-Rated Harmonized Hook-Up Wire

Loose Harmonized Tri-Rated Hook-Up Wire for installation in electronic and electrical equipment designed for use in Europe. North American and European compliance and adherence to CENELEC guidelines **Specifications:** • Bend radius: 15X wire diameter • HAR H05V-K(3130); HD 21.5 S3; DIN 57281/VDE 0281-5 • HAR H07V-K(3131,3132); HD 21.5 S3; DIN 57281/VDE 0281-5 • IEC 60227-1, IEC 60227-2, IEC 60227-5 • IEC 60228 • IEC 60304 • UL AWM Style 1015, CSA TEW • CE Low Voltage Directive 73/23/EEC - Amend. 93/68/EEC **Characteristics:** • Operating Temperature: -30°C ~ 70°C (HAR - All part numbers), -10°C ~ 105°C (UL/CSA) • Voltage Rating: 300/500 Vrms (HAR) (H05V-K); 450/750 Vrms (HAR) (H07V-K); 600 Vrms (UL 1015/CSA TEW) • Conductor: Fine stranded bare copper, Meets VDE 0295, Class 5, Part 3 (IEC 228, Class 5) • Insulation: Color-coded PVC

Cable Dia. Inch (mm)	Conductor Size (AWG)	Strand‡	Wire Insulation Thickness Inch (mm)	Digi-Key Part No.*	Price per 100 ft.	Alpha Part No.**	Digi-Key Part No.*	Price per 1,000 ft.	Alpha Part No.**
0.114 (2.90)	18	31/32	0.031 (0.79)	A3130□-100-ND	55.50	3130 □□005	A3130□-1000-ND	436.40	3130 □□001
0.130 (3.30)	16	30/30	0.033 (0.84)	A3131□-100-ND	70.10	3131 □□005	A3131□-1000-ND	551.20	3131 □□001
0.150 (3.81)	14	50/30	0.033 (0.84)	A3132□-100-ND	108.20	3132 □□005	A3132□-1000-ND	849.80	3132 □□001

For □ in Digi-Key Part No. choose letter which represents color of your choice:
B = Black **G** = Green/Yellow **L** = Blue **N** = Brown

** For □□ in Alpha Part No. choose letters which represents color of your choice:
BK = Black **GY** = Green/Yellow **BL** = Blue **BR** = Brown

‡Conductor size based on DC resistance therefore strand count may vary.

High Voltage Test Lead Wire

Stranded Tinned Copper • Insulation: Color-Coded Rubber • **Operating Temp.**: -30°C to 90°C

For □ in Digi-Key Part No. choose letter which represents color of your choice:
B = Black **R** = Red

** For □□ in Alpha Part No. choose letters which represents color of your choice:
BK = Black **RD** = Red

Conductor Size (AWG)	Voltage	Conductor Strand	Insulation Thickness Inch (mm)	Diameter Inch (mm)	Digi-Key Part No.*	Price Per 100 ft.	Alpha Part No.**
20	1,500V	41/36	.040 (1.02)	.125 (3.18)	A1632□-100-ND	49.73	1632 □ □005
18	5,000V	65/36	.045 (1.14)	.140 (3.56)	A1636□-100-ND	59.29	1636 □ □005

Tinned Copper Flat Braid

Description: • Ground/Shielding Terminations • Used as a ground strap, provides excellent, low-resistant ground path • Ideal shielding material for short-run cables providing easy radial termination • Values shown for Current Carrying Capacity are for bare cable in free air at 30°C (86°F) and intended as a reference guide only. Actual values will depend upon permissible temperature rise, permissible voltage drop and other conditions of service. **Specifications:** • QQ-W-343E, ASTM-B-33

Nom. Flat Width Inch (mm)	Nom. Thickness Inch (mm)	Braid Construction: AWG of Individual Ends	Braid Construction: Carriers	Braid Construction: Total No. of Individual Ends	Approx. AWG Equivalent	Approx. Current Carrying Capacity (Amps)	Digi-Key Part No.	Price Per 100 ft.	Alpha Part No.
.188 (4.76)	.020 (.50)	36	24	120	15	25	A1230SV-100-ND*	50.74	1230 SV005
.250 (6.35)	.030 (.76)	36	24	168	14	32	A1231SV-100-ND*	68.85	1231 SV005
.375 (9.53)	.030 (.76)	36	48	288	12	46	A1232SV-100-ND	110.14	1232 SV005

* Meets QQ-B-575B

alpha FIT® Shrinkable Tubing FIT® 221B

- Economical bulk packaging • Flexibility
- Excellent flame retardancy • Military, UL/CSA requirements

Characteristics: • Operating Temperature: -55°C ~ +135°C
• Shrinkage Ratio: Approximately 2 to 1 at 121°C • Color: Black, Clear

Physical Properties: • Tensile Strength: 1800 psi, (127 kg/cm²)
• Ultimate Elongation: 400% • Longitudinal Shrinkage: 5%
• Specific Gravity: 1.35 • Secant Modulus: 2.5 x 10^4 max.
• Flammability: Self-extinguishing

Electrical Properties: • Dielectric Strength: 500V/mil (197 kV/cm)
• Volume Resistivity: 10^{14} ohm-cm

Chemical Properties: • Corrosive Effect: Passes copper stability test
• Fungus Resistance: No growth

Specifications: • MIL-DTL-23053/5C, Class 1, 2
• UL Standard 224 (black only) • CSA Standard 198 (black only)

CONTENTS for FIT-221 Variety Pack

Tubing Size	Number of Cut Pieces					
	Black	White	Red	Blue	Yellow	Green
1/8"	4	3	2	2	2	1
3/16"	4	3	2	2	2	1
1/4"	4	3	2	2	2	1
3/8"	3	2	1	1	1	1
1/2"	3	2	1	1	1	1

Color	Minimum Supplied Inner Diameter Inch (mm)	Maximum Recovered Inner Diameter Inch (mm)	Nominal Recovered Wall Thickness Inch (mm)	Digi-Key Part No.	Pricing Sold in 4' Lengths 4' (1 pc.)	20' (5 pcs.)	Digi-Key Part No.	Spool Size (Feet)	Price Per Spool	Alpha Part No.
FIT® 221B — Irradiated Polyolefin										
Black	0.046 (1.17)	0.023 (0.58)	0.016 (0.41)	A364B-4-ND	.64	2.83	A364B-1000-ND	1000	164.55	FIT-221B-3/64 BKXXX
Clear				A364C-4-ND	.64	2.83	A364C-1000-ND	1000	147.64	FIT-221B-3/64 CLXXX
Black	0.063 (1.60)	0.031 (0.78)	0.017 (0.43)	A116B-4-ND	.65	2.88	A116B-1000-ND	1000	174.98	FIT-221B-1/16 BKXXX
Clear				A116C-4-ND	.65	2.88	A116C-1000-ND	1000	174.98	FIT-221B-1/16 CLXXX
Black	0.093 (2.36)	0.046 (1.17)	0.020 (0.50)	A332B-4-ND	.69	3.05	A332B-500-ND	500	87.78	FIT-221B-3/32 BKXXX
Clear				A332C-4-ND	.69	3.05	A332C-500-ND	500	87.78	FIT-221B-3/32 CLXXX
Black	0.125 (3.18)	0.062 (1.58)	0.020 (0.50)	A018B-4-ND	.74	3.29	A018B-500-ND	500	85.88	FIT-221B-1/8 BKXXX
Clear				A018C-4-ND	.74	3.29	A018C-500-ND	500	85.88	FIT-221B-1/8 CLXXX
Black	0.187 (4.75)	0.093 (2.36)	0.020 (0.50)	A316B-4-ND	.90	4.00	A316B-500-ND	500	115.45	FIT-221B-3/16 BKXXX
Clear				A316C-4-ND	.90	4.00	A316C-500-ND	500	115.45	FIT-221B-3/16 CLXXX
Black	0.250 (6.35)	0.125 (3.18)	0.025 (0.63)	A014B-4-ND	1.12	5.00	A014B-250-ND	250	65.19	FIT-221B-1/4 BKXXX
Clear				A014C-4-ND	1.12	5.00	A014C-250-ND	250	65.19	FIT-221B-1/4 CLXXX
Black	0.375 (9.53)	0.187 (4.75)	0.025 (0.63)	A038B-4-ND	1.26	5.58	A038B-200-ND	200	58.28	FIT-221B-3/8 BKXXX
Clear				A038C-4-ND	1.26	5.58	A038C-200-ND	200	71.04	FIT-221B-3/8 CLXXX
Black	0.500 (12.70)	0.250 (6.35)	0.025 (0.63)	A012B-4-ND	1.42	6.30	A012B-150-ND	150	49.28	FIT-221B-1/2 BKXXX
Clear				A012C-4-ND	1.42	6.30	A012C-150-ND	150	49.28	FIT-221B-1/2 CLXXX
Black	0.750 (19.10)	0.375 (9.53)	0.030 (0.76)	A034B-4-ND	1.89	8.39	AW034B-250-ND	250	158.74	FIT-221B-3/4 BKXXX
Clear				A034C-4-ND	1.89	8.39	A034C-250-ND	250	129.56	FIT-221B-3/4 CLXXX
Black	1.000 (25.40)	0.500 (12.70)	0.035 (0.88)	A100B-4-ND	2.82	12.55	A100B-250-ND	250	221.85	F2211IN BKXXX
Clear				A100C-4-ND	2.82	12.55	AW100C-250-ND	250	221.85	F221B1IN CLXXX
FIT MGKIT 1 (Heat Gun plus FIT-221 Variety Pack)							FITMGKIT1-ND		96.53 /1	FITMGKIT1 NC032
FIT-221 Variety Pack (60, 6 inch cut pieces, see chart above for contents)							FIT221R-ND		32.51 /1	FIT-221-R MC213

alpha FIT® Heat Shrink Fabric

Characteristics: • Operating Temp. -40°C ~ 125°C • Shrink Ratio: approximately 2 to 1 or 3 to 1 at 135°C depending on size • Color Description: All standard packages: black

Physical Properties: • Longitudinal Shrinkage: up to 20% at 2:1 shrink ratio, up to 25% at 3:1 shrink ratio • Flammability: Meets MVSS 302 horizontal burn test

Chemical Properties: • Corrosive Effect: non-corrosive • Fungus Resistance: no growth • Chemical Resistance: antifreeze (50% ethylene glycol), engine oil, mineral hydraulic fluid, detergent (1% teepol), brake fluid (DOT 4), unleaded gasoline, diesel fuel, battery acid

Color	Minimum Supplied I.D. Inch (mm)	Maximum Recovered I.D. Inch (mm)	Nom. Recovered Wall Thickness Inch (mm)	Digi-Key Part No.	Spool Size (Feet)	Price Per Spool	Alpha Part No.
Black	0.47 (12.0)	0.24 (6.0)	0.039 (0.99)	A0471B-50-ND	50	107.10	FITFAB-1 BK007
Black	0.47 (12.0)	0.24 (6.0)	0.039 (0.99)	A0471B-200-ND	200	306.34	FITFAB-1 BK004
Black	0.79 (20.0)	0.39 (10.0)	0.039 (0.99)	A0792B-50-ND	50	127.91	FITFAB-2 BK007
Black	0.79 (20.0)	0.39 (10.0)	0.039 (0.99)	A0792B-200-ND	200	363.71	FITFAB-2 BK004
Black	1.18 (30.0)	0.59 (15.0)	0.039 (0.99)	A1183B-50-ND	50	156.04	FITFAB-3 BK007
Black	1.18 (30.0)	0.59 (15.0)	0.039 (0.99)	A1183B-200-ND	200	443.25	FITFAB-3 BK004
Black	1.57 (40.0)	0.79 (20.0)	0.039 (0.99)	A1574B-50-ND	50	187.99	FITFAB-4 BK007
Black	1.57 (40.0)	0.79 (20.0)	0.039 (0.99)	A1574B-200-ND	200	534.49	FITFAB-4 BK004
Black	1.97 (50.0)	0.98 (25.0)	0.039 (0.99)	A1975B-25-ND	25	115.43	FITFAB-5 BK008
Black	1.97 (50.0)	0.98 (25.0)	0.039 (0.99)	A1975B-100-ND	100	328.16	FITFAB-5 BK005
Black	2.36 (60.0)	1.18 (30.0)	0.039 (0.99)	A2366B-25-ND	25	125.55	FITFAB-6 BK008
Black	2.36 (60.0)	1.18 (30.0)	0.039 (0.99)	A2366B-100-ND	100	357.53	FITFAB-6 BK005
Black	2.76 (70.0)	1.38 (35.0)	0.039 (0.99)	A2767B-25-ND	25	171.68	FITFAB-7 BK008
Black	2.76 (70.0)	1.38 (35.0)	0.039 (0.99)	A2767B-100-ND	100	487.80	FITFAB-7 BK005
Black	0.71 (18.0)	0.24 (6.0)	0.039 (0.99)	A0718B-50-ND	50	150.41	FITFAB-8 BK007
Black	0.71 (18.0)	0.24 (6.0)	0.039 (0.99)	A0718B-200-ND	200	428.85	FITFAB-8 BK004
Black	1.18 (30.0)	0.39 (10.0)	0.039 (0.99)	A1189B-50-ND	50	180.00	FITFAB-9 BK007
Black	1.18 (30.0)	0.39 (10.0)	0.039 (0.99)	A1189B-200-ND	200	512.33	FITFAB-9 BK004
Black	2.36 (60.0)	0.79 (20.0)	0.039 (0.99)	A1181OB-25-ND	25	133.09	FITFAB-10 BK008
Black	2.36 (60.0)	0.79 (20.0)	0.039 (0.99)	A2361OB-100-ND	100	378.34	FITFAB-10 BK005

alpha FIT® Powerful Flameless Butane Torch

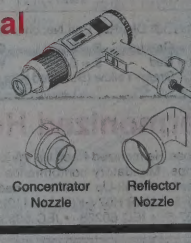
Lightweight and easy to use with a wide nozzle, the FIT TORCH-1 is a convenient repair solution for electrical and electronics technicians. With a temperature range of up to 750°C (1400°F), it can be used to shrink most heat shrinkable tubing products. The FIT TORCH-1 is ideal for general heating and drying applications and the heat testing of electronic components. Cordless and refillable, only 7.5 inches long, it can be used continuously up to 120 minutes before recharging with 100% butane fuel. Comes complete with one additional electronic ignition catalytic converter, one deflector attachment, and one tool stand. Butane fuel not included.

FITTORCH-1-ND Butane Torch **$66.70**

alpha FIT® Multi-Functional Heat Gun

The economical and multi-functional FIT GUN-3 is a two-temperature heat gun that is lightweight in design. The low setting is at 400°C (750°F) while the high temperature is rated at 585°C (1090°F).

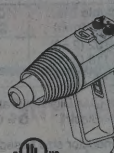
It features a durable plastic housing with a built-in ring stand and hanger, concentrator nozzle and hook reflector nozzle attachments.



FITGUN3-ND Heat Gun **$70.90**

MASTER® APPLIANCE NEW! ProHeat® Heat Guns

Features: • Compact, light-weight, easy-to-use design, professional-quality heat guns • 120V • Variable temperature (some models) • Variable airflow (some models) • Special electronic closed loop temperature control system maintains constant temperature when varying airflow or using specialty attachments (some models) • Use to heat temperature sensitive materials • Base provides built-in stand for hands free use • Made in the USA



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Description	Digi-Key Part No.	Price Each	Master Part No.
Proheat			
Gun, 430° / 840°F (221°C / 449°C), 15 CFM	MA1009-ND	82.49	PH-1100
Gun Kit, 430° / 840°F (221°C / 449°C), 15 CFM†	MA1010-ND	109.76	PH-1100K
VariTemp™			
Gun, 130°–840°F (49°C–449°C), 15 CFM	MA1011-ND	144.31	PH-1200
Gun System, 130°–840°F (49°C–449°C), 15 CFM‡	MA1012-ND	169.41	PH-1200-
Gun Kit, 130°–840°F (49°C–449°C), 15 CFM†	MA1013-ND	199.64	PH-1200-
VariAir™			
Gun, 130°–900°F (54°C–482°C), 6 ~ 15 CFM	MA1014-ND	175.00	PH-1300
Gun System, 130°–900°F (54°C–482°C), 6~15 CFM ‡	MA1015-ND	183.64	PH-1300-
Gun Kit, 130°–900°F (54°C–482°C), 6~15 CFM †	MA1016-ND	229.00	PH-1300-

† Kit includes: Heat gun, attachments and storage case. ‡System includes: Heat gun, stand and attachm

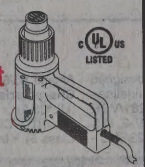
MASTER® APPLIANCE MASTERMITE® Heat Gun

Quiet running. Comes standard with bench stand, heat shrink attachment, and interchangeable heating element. High impact plastic housing, lightweight, draws only 4.0 amps max., continuous duty brushless motor, temperature: 650°F (343°C), 120V, 60Hz, 4.0A.

UL CSA Certified

MA1006-ND Heat Gun **$79.54**
MA1007-ND Replacement Heat Element **$24.76**

MASTER® APPLIANCE ECOHEAT™ Heat Gun and Kit



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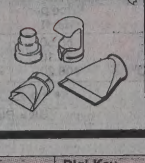
Features:
- Two fan speeds
- Two heat settings: 500°F and 1,000°F
- Resettable thermostat
- Thermoplastic housing
- Built-in stand

Kit Contains:
7/8" air reducer attachment, shrink tubing attachment, 1-15/16" and 3-1/8" spreader attachments, storage and carrying case.

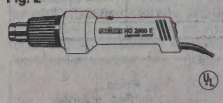


MA1008-ND **$52.54**

STEINEL Heat Guns

Fig. 1

Fig. 2



UL CSA Certified

Fig.	Description	Digi-Key Part No.	Price Each
1	3 Speed Fixed Temp Heat Gun	SDL1100-ND	104.00
—	Heat Shrink Attachment for SDL1100-ND	SDL1300-ND	12.00
1	Variable Temperature Industrial Heat Gun	SDL1200-ND	176.00
	Variable, LCD Readout Heat Gun	SDL1350-ND	212.00
2	Variable Ergonomic Heat Gun	SDL1250-ND	176.00
—	Heat Gun Stand Benchtop	SDL1400-ND	32.00
—	Reducer-Reflector Nozzle 3/8" (9mm)	SDL1303-ND	20.00
—	Reducer Nozzle Attachment 3/8" (9mm)	SDL1301-ND	12.00
—	Reducer Nozzle Attachment 5/8" (14mm)	SDL1302-ND	12.00
—	Reflector Nozzle 3" (75mm)	SDL1304-ND	17.00
—	Refl. Nozzle 5/8" (14mm) (does not fit SDL1100)	SDL1305-ND	14.00

HL1502S (SDL1100-ND): Three temperature levels can be selected conveniently with one hand during use. **Specifications:** • Volt.: 120V AC • Output: 1400W • Temperature: • Step 1: 120°F (49°C) • Step 2: 800°F (427°C) • Step 3: 1050°F (566°C) • Air Flow: minimum 8.8cfm, maximum 17.6cfm. **HL1802E (SDL1200-ND), HG3002LCD (SDL1350-ND), HG2000E (SDL1250-ND):** Continuously adjustable, electronically controlled hot air. The electronic temperature regulator allows ideal temperature setting. Model HG3002LCD has an LCD continuous temperature display. **Specifications:** • Volt.: 120VAC • Output: 1500W • Temperature: 120° ~ 1100°F (49° ~ 593°C) • Air Flow: minimum 8.8, maximum 17.6cfm (HL1802E), minimum 7, maximum 17.6cfm (HG3002LCD) & minimum 11.3, maximum 17.6cfm (HG2000E).

MASTER® APPLIANCE Heat Gun

Features universal motor, high air velocity, volume and temperatures. Rugged die-cast aluminum housing with externally replaceable carbon brushes, 3 wire oil resistant cord set, and reinforced ceramic heating element, temperature: 500° ~ 750°F (260°-399°C), 120V, 14A.

UL CSA Certified

Description	Digi-Key Part No.	Pri Ea
Heat Gun	MA1001-ND	108
Heat Shrink Attachment - Shrink Tubing from 3/4" to 2" (19-51mm) O.D.	MA1002-ND	16
Shrink Wrap Attachment - 8" (203mm) Wide	MA1003-ND	44
Heat Reducer Attachment - 3/4" (19mm)	MA1004-ND	8
Replacement Heat Element	MA1005-ND	19

3M Heat Shrinkable Tubing

YNAR®, EPS-300, SFTW202 GYS, SFTW203, 8420 & 8440 Series

NAR® Series-Modified Polyvinylidene Fluoride: **Shrink Temperature:** 175°C (347°F). **Color:** Clear. **rink Ratio:** 2:1. Cross-linked, thin-walled tubing offers a high degree of mechanical strength and high perature resistance. This has outstanding abrasion resistance and cut-through properties in combination h high dielectric strength. It is inherently flame retardant, semi-rigid and highly resistant to most industrial ls, chemicals arid solvents. Kynar® is a registered trademark of Elf Atochem North America, Inc.

S-300 Series-Adhesive-Lined Flexible Polyolefin: **Shrink Temperature:** 121°C (250°F). **Color:** Black. **rink Ratio:** 3:1. Rapidly shrinks to a skintight fit, forcing the melted adhesive to flow and cover the strate. The adhesive forms a flexible bond with a wide variety of rubbers, plastics and metals. Upon ling, the adhesive solidifies forming a permanent, non-drying, flexible and water resistent barrier.

TW202 GYS Series-Very Flexible Polyolefin: **Shrink Temperature:** 100°C (212°F). **Color:** Green and ow striped. **Shrink Ratio:** 2:1. Meets performance requirements of MIL-I-23053/5 Class 1, and is UL cognized (File No. E48398) for flame retardance. Can be easily surface painted.

TW203 Series-Very Flexible Polyolefin: **Shrink Temperature:** 100°C (212°F). **Color:** Black. **Shrink tio:** 3:1. Meets performance requirements of MIL-I-23053/5 Class 1, and is UL Recognized (File No. 8398) for flame retardance. Can be easily surface painted.

0 Series-EPDM and 8440 Series-Silicone Rubber Tubes: **Color:** Black (8420 Series) and Gray (8440 ies). **Cold Shrink™ Insulators**-Open-ended, tubular rubber sleeves that are factory expanded and embled onto a removable plastic core. Provides a reliable seal without the use of heat, a torch or esive - simply position and unwind the core allowing the tube to shrink and form a water-resistant seal.

Tubing Size Dia.* Inch (mm)	Expand. I.D. (Min.) (mm)	Recov. I.D. (Max.) (mm)	Nominal Recov. Wall Thick (mm)	Digi-Key Part No.	Sold in 4' Lengths Only 4' (1pc.)	8' (2pc.)	20' (5pc.)	48' (12pc.)	100' (25pc.)
KYNAR® Series - Modified Polyvinylidene Fluoride									
4 (1.19)	1.17	0.58	0.25	KY364C-ND	4.98	8.63	19.09	39.84	65.46
6 (1.60)	1.60	0.79	0.25	KY116C-ND	5.11	8.86	19.59	40.89	67.15
2 (2.38)	2.36	1.17	0.25	KY332C-ND	5.47	9.48	20.96	43.74	71.84
8 (3.18)	3.18	1.57	0.25	KY018C-ND	5.91	10.25	22.67	47.31	77.73
6 (4.78)	4.75	2.36	0.25	KY316C-ND	8.33	14.74	32.05	60.67	—
4 (6.35)	6.35	3.18	0.30	KY014C-ND	10.28	18.19	39.53	74.83	—
8 (9.52)	9.53	4.75	0.30	KY038C-ND	12.38	21.90	47.61	90.10	—
2 (12.70)	12.70	6.35	0.30	KY012C-ND	16.42	28.56	56.31	—	—

ubing Size Dia.* (mm)	Expand. I.D. (Min.) (mm)	Recov. I.D. (Max.) (mm)	Nominal Recov. Wall Thick (mm)	Meltable Recov. Wall Thick (mm)	Digi-Key Part No.	Sold in 4' Lengths Only 4' (1pc.)	8' (2pc.)	20' (5pc.)	48' (12pc.)	100' (25pc.)
EPS-300 Series - Adhesive-lined, Flexible, Polyolefin										
3 (3.18)	3.18	1.02	1.02	0.51	EPS3018K-ND	9.05	15.68	34.68	72.38	107.84
6 (4.78)	4.75	1.57	1.02	0.51	EPS3316K-ND	8.60	15.21	33.06	61.39	—
4 (6.35)	6.35	2.03	1.02	0.51	EPS3014K-ND	10.64	18.83	40.93	76.01	—
8 (9.52)	9.53	3.05	1.40	0.62	EPS3038K-ND	12.04	21.30	46.31	86.01	—
(12.70)	12.70	4.06	1.78	0.76	EPS3012K-ND	14.07	24.89	54.12	100.51	—

ubing Size Dia* (mm)	Expanded I.D. (Min.) (mm)	Recovered I.D (Max.) (mm)	Nominal Recovered Wall Thick. (mm)	(NOTE: "X" in Part No. Represents Number of Feet) Digi-Key Part No.	Price Per Length 5'	25'	50'	Reel Size	Price Per Full Reel
SFTW202 GYS Series - Very Flexible Polyolefin									
3 (3.18)	3.18	1.5	0.51	SFTW2018E-X-ND	5.75	23.00	32.96	500	238.00
6 (4.78)	4.76	2.5	0.55	SFTW2316E-X-ND	7.97	31.88	45.69	250	164.95
8 (6.35)	6.35	3.0	0.65	SFTW2014E-X-ND	8.80	35.20	50.45	200	145.72
8 (9.52)	9.53	4.5	0.76	SFTW2038E-X-ND	9.77	39.07	56.00	200	161.74
(12.70)	12.70	6.0	0.76	SFTW2012E-X-ND	10.97	43.88	62.90	200	181.67
SFTW203 Series - Very Flexible Polyolefin									
6 (1.59)	1.5	0.5	0.45	SFTW2116K-X-ND	2.06	8.26	11.84	1,000	170.93
8 (3.18)	3.0	1.0	0.55	SFTW2018K-X-ND	2.36	9.43	13.51	500	97.57
4 (6.35)	6.0	2.0	0.65	SFTW2014K-X-ND	3.58	14.31	20.51	200	59.24
8 (9.52)	9.0	3.0	0.75	SFTW2038K-X-ND	3.99	15.98	22.90	200	66.14
(12.70)	12.0	4.0	0.75	SFTW2012K-X-ND	4.51	18.03	25.84	200	74.64

dicates size BEFORE shrinking occurs.

Diameter Range In. (mm)	Relaxed Tube Length In. (mm)	Digi-Key Part No.	Pricing 1	10
8420 - EPDM Cold Shrink Tubes				
0.31 - 0.56 (7.87 - 14.22)	6.0 (152.40)	8423-6-ND	11.38	103.90
0.10 - 0.82 (2.54 - 20.83)	8.0 (203.20)	8424-8-ND	15.48	141.33
0.40 - 0.82 (10.16 - 20.83)	8.0 (203.20)	8425-8-ND	13.56	123.80
0.55 - 1.18 (13.97 - 29.97)	9.0 (228.60)	8426-9-ND	16.16	147.54
0.55 - 1.18 (13.97 - 29.97)	11.0 (279.40)	8426-11-ND	19.36	176.76
0.67 - 1.38 (17.02 - 35.05)	6.0 (152.40)	8427-6-ND	12.20	111.39
0.67 - 1.38 (17.02 - 35.05)	12.0 (304.80)	8427-12-ND	24.14	220.40
0.67 - 1.38 (17.02 - 35.05)	16.0 (406.40)	8427-16-ND	32.22	294.17
0.95 - 1.94 (24.13 - 49.28)	6.0 (152.40)	8428-6-ND	17.22	157.22
0.95 - 1.94 (24.13 - 49.28)	12.0 (304.80)	8428-12-ND	34.36	313.71
0.95 - 1.94 (24.13 - 49.28)	18.0 (457.20)	8428-18-ND	51.68	471.84
1.27 - 2.67 (32.26 - 67.82)	6.0 (152.40)	8429-6-ND	18.84	172.01
1.27 - 2.67 (32.26 - 67.82)	9.0 (228.60)	8429-9-ND	28.20	257.47
1.27 - 2.67 (32.26 - 67.82)	12.0 (304.80)	8429-12-ND	36.48	333.06
1.27 - 2.67 (32.26 - 67.82)	18.0 (457.20)	8429-18-ND	56.50	515.85
1.68 - 3.69 (42.67 - 93.73)	9.0 (228.60)	8430-9-ND	38.98	355.89
1.68 - 3.69 (42.67 - 93.73)	18.0 (457.20)	8430-18-ND	61.60	562.41
8440 - Silicone Cold Shrink Tubes				
.27 - .56 (6.86 - 14.22)	2.0 (50.80)	8443-2-ND	6.94	63.36
.27 - .56 (6.86 - 14.22)	6.5 (165.10)	8443-6.5-ND	9.62	87.83
.35 - .72 (8.89 - 18.29)	2.5 (63.50)	8445-2.5-ND	7.22	65.92
.35 - .72 (8.89 - 18.29)	7.5 (190.50)	8445-7.5-ND	10.54	96.23
.48 - .95 (12.19 - 24.13)	3.2 (81.28)	8447-3.2-ND	8.84	80.71
.48 - .95 (12.19 - 24.13)	8.0 (203.20)	8447-8-ND	12.72	116.13

EPS-200, CP-221,& VFP-876, Series

EPS-200 Series:

Shrink Temperature: 121°C, **Color:** Black, **Shrink Ratio:** 2:1 Rapidly shrinks to a skintight fit, forcing the melted adhesive lining to flow and cover the substrate. The adhesive forms a flexible bond with a wide variety of rubbers, plastics and metals. Upon cooling, the adhesive solidifies forming a permanent, non-drying, flexible and water resistant barrier. Rated for operation at -55°C (-67°F) to 110°C (230°F).

VFP-876 Series-Very Flexible Polyolefin:

Shrink Temperature: 100°C, **Color:** Black, **Shrink Ratio:** 2:1. Most flexible of the heat shrinkable, polyolefin tubings. Ideal for jacketing and insulation of flexible wire bundles and sensitive components.

Tubing Size Dia.* Inch (mm)	Expand. I.D. (Min.) (mm)	Recov. I.D. (Max.) (mm)	Nom. Recov. Wall Thick (mm)	Digi-Key Part No.	Sold in 4' Lengths Only 4' (1pc.)	8' (2pc.)	20' (5pc.)	48' (12pc.)	100' (25pc.)	200' (50pc.)
EPS-200 Series - Adhesive-lined, Flexible, Polyolefin										
1/8 (3.18)	3.18	1.60	.69	EPS2018-ND	5.07	8.79	19.44	40.58	65.42	—
3/16 (4.76)	4.75	2.36	.69	EPS2316-ND	4.78	8.46	18.40	34.17	—	—
1/4 (6.35)	6.35	3.18	.76	EPS2014-ND	5.99	10.59	23.03	42.76	—	—
3/8 (9.53)	9.52	4.75	.79	EPS2038-ND	6.74	11.93	25.94	48.19	—	—
1/2 (12.70)	12.70	6.35	.81	EPS2012-ND	7.75	13.71	29.80	55.35	—	—
3/4 (19.05)	19.05	9.52	.94	EPS2034-ND	9.37	16.30	31.55	—	—	—
1 (25.40)	25.40	12.70	1.17	EPS2100-ND	13.78	23.97	46.37	—	—	—
1-1/2 (38.10)	38.10	19.05	1.24	EPS2112-ND	24.11	41.93	81.11	—	—	—
2 (50.80)	50.80	25.40	1.52	EPS2200-ND	33.55	51.92	—	—	—	—

Tubing Size Dia.* Inch (mm)	Expand. I.D. (Min.) (mm)	Recov. I.D. (Max.) (mm)	Nom. Recov. Wall Thick (mm)	Digi-Key Part No.	(NOTE: "X" in Part No. Represents Number of Feet) Price Per Length 5'	25'	50'	100'	200'
VFP-876 Series - Very Flexible Polyolefin, Self-extinguishing									
3/64 (1.19)	1.17	.58	.41	VFP364-X-ND	1.94	8.67	15.53	27.95	—
1/16 (1.59)	1.60	.79	.43	VFP116-X-ND	1.98	8.84	15.83	28.49	—
3/32 (2.38)	2.36	1.17	.51	VFP332-X-ND	2.09	9.34	15.05	23.97	—
1/8 (3.18)	3.18	1.57	.51	VFP018-X-ND	2.26	10.08	16.24	25.86	—
3/16 (4.76)	4.75	2.36	.51	VFP316-X-ND	2.75	10.99	15.75	27.84	—
1/4 (6.35)	6.35	3.18	.64	VFP014-X-ND	3.43	13.71	19.65	34.73	56.76
3/8 (9.53)	9.52	4.75	.64	VFP038-X-ND	3.83	15.32	21.95	38.80	63.40
1/2 (12.70)	12.70	6.35	.64	VFP012-X-ND	4.32	17.27	24.76	43.76	71.51
3/4 (19.05)	19.05	9.52	.76	VFP034-X-ND	5.76	23.03	33.01	58.35	95.35
1 (25.40)	25.40	12.70	.89	VFP100-X-ND	8.61	34.44	49.36	71.29	—
1-1/2 (38.10)	38.10	19.05	1.02	VFP112-X-ND	16.05	64.19	92.00	132.86	—
2 (50.80)	50.80	25.40	1.14	VFP200-X-ND	22.17	88.70	127.13	183.60	—

* Indicates size BEFORE shrinking occurs.

Colored Heat Shrinkable Tubing (FP-301 Series)

Available in 7 Colors: (K = Black, C = Clear, B = Blue, G = Green, R = Red, W = White, Y = Yellow)

Shrink Temperature: 121°C.

Shrink Ratio: 2:1. Tubing is split resistant, mechanically tough, easily marked and resist cold flow, for UL, CSA and Mil-I-23053/5 applications at 600V @ 125°C.

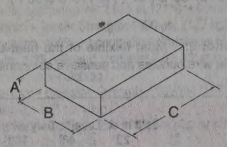
Tubing Size Dia.* Inch (mm)	Expand. I.D. (Min.) (mm)	Recov. I.D. (Max.) (mm)	Nom. Recov. Wall Thick (mm)	Digi-Key Part No.	(NOTE: "X" in Part No. Represents Number of Feet) Price Per Length 5'	25'	50'	100'	200'	250'
FP-301 Series - Flexible Polyolefin, Self-extinguishing, Flame Retardant, Color										
3/64 (1.19)	1.17	.58	.41	FP364□-X-ND†	1.65	7.36	13.19	23.74	—	47.25
1/16 (1.59)	1.60	.79	.43	FP116□-X-ND	1.64	7.35	13.16	23.68	—	47.14
3/32 (2.38)	2.36	1.17	.51	FP332□-X-ND	1.74	7.78	12.54	19.97	—	44.12
1/8 (3.18)	3.18	1.57	.51	FP018□-X-ND	1.84	8.21	13.23	21.09	—	46.58
3/16 (4.76)	4.75	2.36	.51	FP316□-X-ND	2.14	8.58	12.29	21.72	—	48.21
1/4 (6.35)	6.35	3.18	.64	FP014□-X-ND	2.67	10.71	15.35	27.13	48.19	—
3/8 (9.53)	9.52	4.75	.64	FP038□-X-ND	2.99	11.95	17.14	30.29	53.81	—
1/2 (12.70)	12.70	6.35	.64	FP012□-X-ND	3.60	14.37	20.59	36.40	60.68	—
3/4 (19.05)	19.05	9.52	.76	FP034□-X-ND	4.79	19.15	27.44	48.50	80.92	—
1 (25.40)	25.40	12.70	.89	FP100□-X-ND	7.16	28.63	41.03	60.46	—	—
1-1/2 (38.10)	38.10	19.05	1.02	FP112□-X-ND†	11.75	47.02	67.39	112.70	—	—
2 (50.80)	50.80	25.40	1.14	FP200□-X-ND†	16.24	64.99	93.15	155.75	—	—

Note: For complete number, substitute □ with appropriate color (K = Black, C = Clear, B = Blue, G = Green, R = Red, W = White, Y = Yellow) and substitute "X" with length choice.

* Indicates size BEFORE shrinking occurs. † Not available in green.

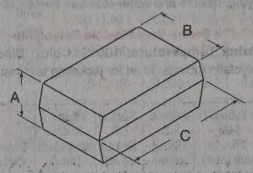
FPC-KIT-ND ***Digi-Key® FP-301 Series Kit*** One 5 foot tubing of each color in the following series: FP364, FP116, FP332, FP018, FP316, FP014, FP038 and FP012 (55 pieces total of 8 sizes) **$62.95**

Fig. 1 — Aluminum Chassis



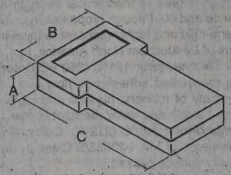
• Welded at stress points for assured, maximum strength and rigidity • Sides folded in at bottom for additional support • Bottom plate easily attached • Natural finish

Fig. 2 — PlastiBOXes



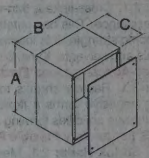
• ABS plastic • UL94-HB flammability rating • Suggested service temperature -40°C ~ 60°C

Fig. 3 — Grabber



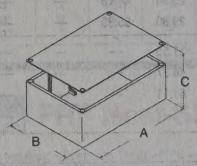
• ABS plastic in a light gray finish • UL94V-0 flammability rating

Fig. 4 — Utility Cabinets



• Sturdy, all-welded body • Available in .040 aluminum or 20 gauge steel; "AU" prefix aluminum alloy in natural finish; "CU" prefix steel in metallic gray finish

Fig. 5 — ABS Plastic Utiliboxes



• Aluminum or plastic cover

Fig. 6 — Die-Cast and Plastic Enclosures

Style 1: • Light gray polycarbonate body and cover • UV stabilized • UL94V-2 flammability rating

Style 2: • Light gray polycarbonate body and clear polycarbonate cover • UV stabilized • UL94V-2 flammability rating

Style 3: • Dark gray ABS body and cover • UL94-HB flammability rating

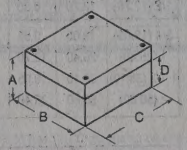


Fig. 7 — *NEW!* Aluminum NEMA 4X Boxes

• ADC-10 aluminum alloy
• Tested and listed to UL-508 Type 4X requirements (UL File #E194432)
• Heavy duty .09" thick external wall mounting bracket
• Mounts to wall or panel with #10 size screws (not included)

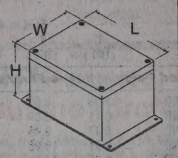
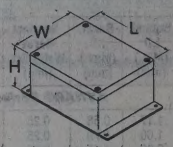


Fig. 8 — *NEW!* Econoboxes



• ADC-10 aluminum alloy • Heavy duty .09" thi external wall mounting bracket • Mounts to w or panel with #10 size screws (not included)

Color	Dimensions - Inch (mm) A	B	C	Digi-Key Part No.	Price Each 1	10	50	Bud Ind. Part No.
Fig. 1 — Chassis								
	1.50 (38.1)	4.00 (100.4)	6.00 (152.4)	377-1000-ND	9.30	7.80	7.00	AC-1405
	2.00 (50.8)	6.00 (152.4)	8.00 (203.2)	377-1001-ND	11.90	9.90	8.90	AC-1413
	2.50 (63.5)	8.00 (203.2)	10.00 (254)	377-1002-ND	19.20	16.05	14.45	AC-1418
	2.50 (63.5)	8.00 (203.2)	12.00 (304.8)	377-1003-ND	23.80	19.85	17.85	AC-1419
	5.00 (127)	10.00 (254)	17.00 (431.8)	377-1004-ND	54.70	45.65	41.10	AC-1422
	5.00 (127)	13.00 (330.2)	17.00 (431.8)	377-1005-ND	63.00	52.60	47.35	AC-1426
	3.00 (76.2)	14.00 (355.6)	17.00 (431.8)	377-1006-ND	45.90	38.30	34.45	AC-1427
	4.00 (101.6)	15.00 (381)	17.00 (431.8)	377-1007-ND	62.30	52.00	46.80	AC-1428
	6.00 (152.4)	15.00 (381)	17.00 (431.8)	377-1008-ND	88.20	73.65	66.30	AC-1429
	3.00 (76.2)	17.00 (431.8)	17.00 (431.8)	377-1009-ND	53.40	44.60	40.16	AC-1430
	4.00 (101.6)	17.00 (431.8)	17.00 (431.8)	377-1010-ND	62.60	52.30	47.05	AC-1431
	2.00 (50.8)	5.00 (127)	7.00 (177.8)	377-1011-ND	10.40	8.65	7.80	AC-402
	2.00 (50.8)	5.00 (127)	9.50 (241.3)	377-1012-ND	12.60	10.45	9.40	AC-403
	3.00 (76.2)	5.00 (127)	10.00 (254)	377-1013-ND	16.00	13.35	12.00	AC-404
	2.00 (50.8)	7.00 (177.8)	7.00 (177.8)	377-1014-ND	10.90	9.00	8.10	AC-405
	2.00 (50.8)	7.00 (177.8)	9.00 (228.6)	377-1015-ND	13.10	10.90	9.80	AC-406
	2.00 (50.8)	7.00 (177.8)	11.00 (279.4)	377-1016-ND	15.20	12.65	11.40	AC-407
Natural	3.00 (76.2)	7.00 (177.8)	12.00 (304.8)	377-1017-ND	20.20	16.85	15.15	AC-408
	2.00 (50.8)	7.00 (177.8)	13.00 (330.2)	377-1018-ND	16.60	13.90	12.50	AC-409
	3.00 (76.2)	7.00 (177.8)	15.00 (381)	377-1019-ND	26.30	21.95	19.75	AC-411
	3.00 (76.2)	8.00 (203.2)	17.00 (431.8)	377-1020-ND	27.30	22.85	20.55	AC-412
	3.00 (76.2)	10.00 (254)	12.00 (304.8)	377-1021-ND	30.70	25.70	23.15	AC-413
	3.00 (76.2)	10.00 (254)	14.00 (355.6)	377-1022-ND	31.20	26.15	23.55	AC-414
	2.00 (50.8)	10.00 (254)	17.00 (431.8)	377-1023-ND	27.80	23.25	20.95	AC-415
	3.00 (76.2)	10.00 (254)	17.00 (431.8)	377-1024-ND	32.60	27.20	24.50	AC-416
	3.00 (76.2)	12.00 (304.8)	17.00 (431.8)	377-1025-ND	34.40	28.65	25.80	AC-418
	2.00 (50.8)	13.00 (330.2)	17.00 (431.8)	377-1026-ND	35.20	29.35	26.40	AC-419
	3.00 (76.2)	13.00 (330.2)	17.00 (431.8)	377-1027-ND	40.60	33.90	30.50	AC-420
	3.00 (76.2)	5.00 (127)	9.50 (241.3)	377-1028-ND	15.90	13.25	11.95	AC-421
	3.00 (76.2)	8.00 (203.2)	12.00 (304.8)	377-1029-ND	24.20	20.20	18.20	AC-424
	4.00 (101.6)	10.00 (254)	17.00 (431.8)	377-1030-ND	46.90	39.20	35.30	AC-427
	4.00 (101.6)	13.00 (330.2)	17.00 (431.8)	377-1031-ND	49.40	41.20	37.10	AC-428
	3.00 (76.2)	5.00 (127)	7.00 (177.8)	377-1032-ND	13.30	11.10	10.00	AC-429
	3.00 (76.2)	4.00 (101.6)	6.00 (152.4)	377-1033-ND	11.85	9.80	8.80	AC-430
	2.00 (50.8)	4.00 (101.6)	6.00 (152.4)	377-1034-ND	9.60	8.05	7.25	AC-431

Chassis Bottom Plates

Color	Dimensions - Inch (mm) Fits Width	Chassis Length	Digi-Key Part No.	Price Each 1	10	100	Bud Ind. Part No.
	4.00 (101.6)	6.00 (152.4)	377-1035-ND	4.80	4.00	3.60	BPA-1505
	6.00 (152.4)	8.00 (203.2)	377-1036-ND	6.80	5.60	5.05	BPA-1513
	8.00 (203.2)	10.00 (254)	377-1037-ND	8.40	7.00	6.30	BPA-1518
	8.00 (203.2)	12.00 (304.8)	377-1038-ND	10.20	8.55	7.70	BPA-1519
	8.00 (203.2)	17.00 (431.8)	377-1039-ND	10.50	8.80	7.90	BPA-1520
	10.00 (254)	12.00 (304.8)	377-1040-ND	10.20	8.55	7.70	BPA-1523
	10.00 (254)	14.00 (355.6)	377-1041-ND	10.20	8.55	7.70	BPA-1524
Natural	12.00 (304.8)	17.00 (431.8)	377-1042-ND	14.60	12.20	11.00	BPA-1528
	14.00 (355.6)	17.00 (431.8)	377-1043-ND	15.40	12.85	11.55	BPA-1529
	15.00 (381)	17.00 (431.8)	377-1044-ND	19.30	16.10	14.50	BPA-1530
	17.00 (431.8)	17.00 (431.8)	377-1045-ND	23.50	19.60	17.65	BPA-1531
	5.00 (127)	7.00 (177.8)	377-1046-ND	4.70	3.90	3.50	BPA-1589
	5.00 (127)	9.50 (241.3)	377-1047-ND	4.80	4.00	3.60	BPA-1590
	5.00 (127)	10.00 (254)	377-1048-ND	4.70	3.90	3.50	BPA-1591
	7.00 (177.8)	7.00 (177.8)	377-1049-ND	4.70	3.90	3.50	BPA-1592
	7.00 (177.8)	9.00 (228.6)	377-1050-ND	5.80	4.85	4.35	BPA-1593

Color	Dimensions - Inch (mm) Fits Width	Chassis Length	Digi-Key Part No.	Price Each 1	10	100	Bud Ind. Part No.
	7.00 (177.8)	11.00 (279.4)	377-1051-ND	6.00	5.00	4.50	BPA-1594
	7.00 (177.8)	12.00 (304.8)	377-1052-ND	6.60	5.50	4.95	BPA-1595
Natural	10.00 (254)	17.00 (431.8)	377-1053-ND	10.80	9.05	8.15	BPA-1597
	13.00 (330.2)	17.00 (431.8)	377-1054-ND	15.00	12.50	11.25	BPA-1598

Color	Dimensions - Inch (mm) A	B	C	Digi-Key Part No.	Price Each 1	10	Bud Ind. Part No.
Fig. 2 — PlastiBOXes							
	1.50 (38.1)	2.25 (57.15)	3.62 (91.95)	377-1161-ND	5.40	4.50	PT-11308-I
	1.50 (38.1)	3.25 (82.55)	5.62 (142.75)	377-1157-ND	10.30	8.60	PBS-11327
	2.48 (62.99)	3.25 (82.55)	5.62 (142.75)	377-1162-ND	9.80	8.20	PT-11388-I
Gray	1.52 (38.61)	3.25 (82.55)	4.37 (111.00)	377-1158-ND	4.80	4.00	PBS-11532
	1.52 (38.61)	3.25 (82.55)	5.62 (142.75)	377-1159-ND	5.50	4.60	PS-11543-
	1.52 (38.61)	4.87 (123.70)	6.87 (174.50)	377-1160-ND	6.80	5.65	PS-11553-
	2.52 (64.01)	4.87 (123.70)	6.87 (174.50)	377-1163-ND	7.20	6.00	PT-11557-
Fig. 3 — Grabber							
Gray	1.71 (43.43)	5.16 (131.06)	9.33 (236.98)	377-1170-ND	19.00	15.85	HH-3420
Accessories for Grabber							
Tilt Stand for HH-3420				377-1171-ND	.90	.75	HH-3440-T
Gasket for HH-3420				377-1172-ND	1.00	.85	HH-3441-G
Fig. 4 — Utility Cabinets							
	5.00 (127)	6.00 (152.4)	4.00 (101.6)	377-1056-ND	14.10	11.75	AU-1029
Natural	6.00 (152.4)	6.00 (152.4)	6.00 (152.4)	377-1057-ND	20.60	17.20	AU-1039
	9.00 (228.6)	6.00 (152.4)	5.00 (127)	377-1058-ND	22.40	18.70	AU-1040
	6.00 (152.4)	6.00 (152.4)	6.00 (152.4)	377-1059-ND	28.70	23.90	CU-1098
	9.00 (228.6)	6.00 (152.4)	5.00 (127)	377-1060-ND	31.10	25.96	CU-1099
	12.00 (304.8)	7.00 (177.8)	6.00 (152.4)	377-1061-ND	46.80	39.10	CU-1124
Metallic Gray	4.00 (101.6)	5.00 (127)	3.00 (76.2)	377-1062-ND	14.00	11.75	CU-728
	5.00 (127)	6.00 (152.4)	4.00 (101.6)	377-1063-ND	17.90	14.90	CU-729
	10.00 (254)	8.00 (203.2)	7.00 (177.8)	377-1064-ND	47.00	39.25	CU-879
	15.00 (381)	9.00 (228.6)	7.00 (177.8)	377-1065-ND	66.80	55.80	CU-882
Fig. 5 — ABS Plastic Utiliboxes							
Black	8.66 (219.96)	5.32 (135.13)	2.95 (74.93)	377-1164-ND*	21.70	18.10	CU-1495
	5.30 (134.62)	2.94 (74.68)	1.95 (49.53)	377-1165-ND	2.70	2.25	CU-1874-B
Gray	5.30 (134.62)	2.94 (74.68)	1.95 (49.53)	377-1166-ND	2.70	2.25	CU-1874-G
	4.10 (104.14)	2.23 (57.40)	2.00 (50.8)	377-1167-ND	4.10	3.40	CU-793
	5.59 (141.99)	4.34 (110.27)	1.84 (46.77)	377-1168-ND	7.20	6.00	CU-387
	4.31 (109.47)	3.06 (77.72)	1.46 (37.08)	377-1169-ND	5.80	4.85	CU-388
Black	4.6 (116.84)	3.1 (78.74)	1.87 (47.50)	377-1216-ND	7.20	6.00	CU-3281
	4.6 (116.84)	4.6 (116.84)	2.37 (60.20)	377-1217-ND	7.60	6.35	CU-3282
	6.1 (154.94)	4.6 (116.84)	2.37 (60.20)	377-1218-ND	9.20	7.70	CU-3283
	7.6 (193.04)	4.6 (116.84)	2.37 (60.20)	377-1219-ND	10.60	8.85	CU-3284
	5.07 (128.78)	3.57 (90.68)	1.59 (40.39)	377-1220-ND	6.70	5.60	CU-389

* Cover panel .05 inch aluminum

Color	Dimensions - Inch (mm) A	B	C	D	Digi-Key Part No.	Price Each 1	10	Bud Ind. Part
Fig. 6 — NEMA 4 Sealed Die-Cast Enclosures (Aluminum Alloy #ADC-10, Gasket-EPI								
	1.38 (35.05)	2.28 (57.91)	2.52 (64.01)	1.17 (29.72)	377-1100-ND	6.00	5.00	AN-1
	1.18 (29.97)	2.56 (65.02)	4.53 (115.06)	.98 (24.89)	377-1101-ND	8.70	7.25	AN-1
Natural	2.17 (55.12)	2.56 (65.02)	4.53 (115.06)	1.96 (49.78)	377-1102-ND	10.60	8.85	AN-1
	2.17 (55.12)	3.54 (89.92)	4.53 (115.06)	1.96 (49.78)	377-1103-ND	12.40	10.35	AN-1
	2.17 (55.12)	5.75 (146.05)	8.75 (222.25)	1.98 (50.29)	377-1106-ND	23.80	19.85	AN-1

(Conti

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9 — NEW! Extruded Aluminum Boxes

e piece extruded aluminum
ing • Individual aluminum
panels • ABS plastic panel
ols • Internal PCB card
os

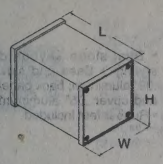
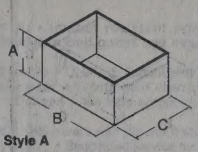
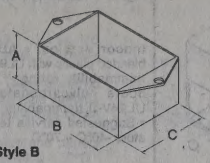


Fig. 10 — Potting Boxes

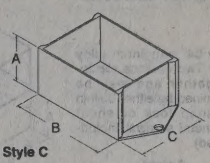
• ABS thermoplastic • UL94V-0 flammability rating • Suggested service temperature -20°C ~ 70°C • Optional close-fitting covers available in all sizes



Style A



Style B



Style C

11 — Desktop Cabinet

des vented for
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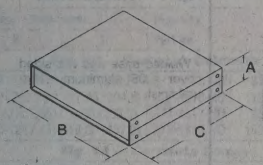


Fig. 12 — Small TR Series Cabinets

• Top and bottom .05" aluminum; front panel .09" aluminum • Extruded aluminum frame • Corner gussets for added support • Carrying handle may be used as tilting bail • Front panel, self-adhesive rubber feet and handle/bail included • Royal blue texture body with white frame and bail

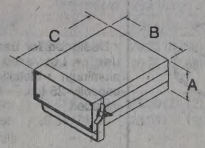
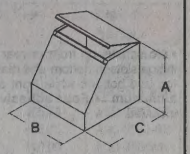


Fig. 13 — Sloping Panel Cabinets

• Steel • Removable front panel • Hinged top opens completely for access to components mounted on chassis



Dimensions - Inch (mm)				Digi-Key	Price Each		Bud Ind.
A	B	C	D	Part No.	1	10	Part No.
1.18 (29.97)	1.42 (36.07)	3.54 (89.92)	.98 (24.89)	377-1099-ND§	5.80	4.85	AN-1300
2.95 (74.93)	4.25 (107.95)	5.83 (148.08)	2.52 (64.01)	377-1104-ND§	22.20	18.50	AN-1305
2.17 (55.12)	4.76 (120.90)	6.73 (170.94)	1.73 (43.94)	377-1105-ND§	22.60	18.85	AN-1306
1.18 (29.97)	2.56 (65.02)	4.53 (115.06)	.98 (24.89)	377-1190-ND	14.10	11.75	AN-1302-G
2.17 (55.12)	2.56 (65.02)	4.53 (115.06)	1.96 (49.78)	377-1191-ND	16.50	13.75	AN-1303-G
2.17 (55.12)	3.54 (89.92)	4.53 (115.06)	1.96 (49.78)	377-1192-ND	19.80	16.50	AN-1304-G
2.95 (74.93)	4.25 (107.95)	5.83 (148.08)	2.52 (64.01)	377-1193-ND	31.80	26.50	AN-1305-G
2.17 (55.12)	4.76 (120.90)	6.73 (170.94)	1.73 (43.94)	377-1194-ND	32.20	26.85	AN-1306-G
2.17 (55.12)	5.75 (146.05)	8.75 (222.25)	1.98 (50.29)	377-1195-ND	34.60	28.85	AN-1307-G
Fig. 6 — Econobox Enclosures (Aluminum Alloy #ADC-10)							
1.21 (30.73)	1.50 (38.1)	3.62 (91.95)	1.06 (26.92)	377-1107-ND	6.90	5.75	CU-123
1.21 (30.73)	2.37 (60.198)	4.37 (177.8)	1.06 (26.92)	377-1108-ND	7.20	6.05	CU-124
2.21 (56.13)	3.68 (93.47)	4.68 (118.87)	2.06 (52.32)	377-1109-ND	11.60	9.65	CU-234
2.21 (56.13)	4.70 (119.38)	7.39 (187.71)	2.06 (52.32)	377-1110-ND	19.60	16.35	CU-247
3.21 (81.53)	4.70 (119.38)	7.39 (187.71)	3.06 (77.72)	377-1111-ND	23.00	19.20	CU-347

all mounting holes

MA 4X Sealed Polycarbonate and ABS Enclosures

Dimensions - Inch (mm)			Digi-Key	Price Each			Bud Ind.
B	C	D	Part No.	1	10	100	Part No.
Fig. 6 — Style 1							
35.05) 2.56 (65.02)	2.28 (57.91)	0.99 (25.146)	377-1112-ND	7.40	6.15	5.55	PN-1320
39.88) 4.53 (115.06)	2.56 (65.02)	0.99 (25.146)	377-1114-ND	10.30	8.60	7.75	PN-1321
55.12) 4.53 (115.06)	2.56 (65.02)	1.58 (40.13)	377-1116-ND	11.10	9.25	8.35	PN-1322
55.12) 4.53 (115.06)	3.54 (89.92)	1.58 (40.13)	377-1119-ND	12.80	10.65	9.60	PN-1323
55.12) 6.73 (170.94)	4.76 (120.90)	1.58 (40.13)	377-1122-ND	17.90	14.90	13.40	PN-1324
55.12) 8.74 (221.99)	5.75 (146.05)	1.58 (40.13)	377-1125-ND	23.70	19.75	17.80	PN-1325
30.01) 6.73 (170.94)	4.76 (120.90)	1.58 (40.13)	377-1127-ND	19.40	16.15	14.55	PN-1327
30.01) 4.53 (115.06)	3.54 (89.92)	2.56 (65.02)	377-1129-ND	14.90	12.40	11.15	PN-1328
74.93) 8.74 (221.99)	5.75 (146.05)	1.58 (40.13)	377-1131-ND	26.00	21.65	19.50	PN-1329
35.09) 6.30 (160.02)	3.15 (80.01)	2.76 (70.10)	377-1134-ND	16.50	13.75	12.40	PN-1333
74.93) 7.87 (199.90)	4.72 (119.89)	2.37 (60.199)	377-1136-ND	23.40	19.50	17.55	PN-1334
94.99) 10.43 (264.93)	7.28 (184.91)	2.95 (74.93)	377-1258-ND	38.40	32.15	26.90	PN-1335
Fig. 6 — Style 2							
55.12) 4.53 (115.06)	2.56 (65.02)	1.58 (40.13)	377-1117-ND	11.40	9.50	8.55	PN-1322-C
55.12) 4.53 (115.06)	3.54 (89.92)	1.58 (40.13)	377-1120-ND	13.20	11.00	9.90	PN-1323-C
55.12) 6.73 (170.94)	4.76 (120.90)	1.58 (40.13)	377-1123-ND	18.50	15.40	13.85	PN-1324-C
55.12) 6.30 (160.02)	3.15 (80.01)	1.58 (40.13)	377-1133-ND	15.70	13.10	11.80	PN-1332-C
39.88) 4.53(115.06)	2.56 (65.02)	0.99 (25.15)	377-1255-ND	10.60	8.85	7.95	PN-1321-C
74.93) 8.74(221.99)	5.75 (146.05)	1.58 (40.13)	377-1256-ND	26.00	21.65	19.50	PN-1329-C
74.93) 7.87(199.90)	4.72 (119.89)	2.37 (60.20)	377-1257-ND	23.70	19.75	17.80	PN-1334-C
Fig. 6 — Style 3							
35.05) 2.56 (65.02)	2.28 (57.91)	0.99 (25.146)	377-1113-ND	5.90	4.90	4.40	PN-1320-DG
39.88) 4.53 (115.06)	2.56 (65.02)	0.99 (25.146)	377-1115-ND	7.20	6.00	5.40	PN-1321-DG
55.12) 4.53 (115.06)	2.56 (65.02)	1.58 (40.13)	377-1118-ND	8.10	6.75	6.10	PN-1322-DG
55.12) 4.53 (115.06)	3.54 (89.92)	1.58 (40.13)	377-1121-ND	9.80	8.15	7.35	PN-1323-DG
55.12) 6.73 (170.94)	4.76 (120.90)	1.58 (40.13)	377-1124-ND	14.20	11.85	10.65	PN-1324-DG
55.12) 8.74 (221.99)	5.75 (146.05)	1.58 (40.13)	377-1126-ND	19.20	16.00	14.40	PN-1325-DG
30.01) 6.73 (170.94)	4.76 (120.90)	1.58 (40.13)	377-1128-ND	13.40	11.15	10.05	PN-1327-DG
30.01) 4.53 (115.06)	3.54 (89.92)	2.56 (65.02)	377-1130-ND	10.10	8.40	7.55	PN-1328-DG
74.93) 8.74 (221.99)	5.75 (146.05)	1.58 (40.13)	377-1132-ND	16.40	13.65	12.30	PN-1329-DG
35.09) 6.30 (160.02)	3.15 (80.01)	2.76 (70.10)	377-1135-ND	13.00	10.85	9.75	PN-1333-DG
74.93) 7.87 (199.90)	4.72 (119.89)	2.37 (60.199)	377-1137-ND	17.30	14.40	12.95	PN-1334-DG
94.99) 10.43 (264.93)	7.28 (184.91)	2.95 (74.93)	377-1259-ND	29.10	24.35	20.36	PN-1335-DG

W! Aluminum NEMA 4X Boxes with Mounting Brackets

Dimensions - Inch (mm)			Digi-Key	Price Each			Bud Ind.
L	W	H	Part No.	1	10	100	Part No.
Fig. 7 — NEMA 4X Diecast Aluminum Boxes							
al 3.54 (89.92)	1.42 (36.07)	1.18 (29.97)	377-1426-ND	12.10	10.10	9.10	AN-2800
3.54 (89.92)	1.42 (36.07)	1.18 (29.97)	377-1427-ND	12.80	10.65	9.60	AN-2800-B

Dimensions - Inch (mm)			Digi-Key	Price Each			Bud Ind.
Finish L	W	H	Part No.	1	10	100	Part No.
Natural 2.52 (64.01)	2.28 (57.91)	1.38 (35.05)	377-1428-ND	12.50	10.40	9.35	AN-2801
Black 2.52 (64.01)	2.28 (57.91)	1.38 (35.05)	377-1429-ND	13.20	11.00	9.90	AN-2801-B
Natural 4.53 (115.06)	2.56 (65.02)	1.18 (29.97)	377-1430-ND	15.60	13.00	11.70	AN-2802
Black 4.53 (115.06)	2.56 (65.02)	1.18 (29.97)	377-1431-ND	17.00	14.15	12.75	AN-2802-B
Natural 4.53 (115.06)	2.56 (65.02)	2.17 (55.12)	377-1432-ND	17.80	14.85	13.35	AN-2803
Black 4.53 (115.06)	2.56 (65.02)	2.17 (55.12)	377-1433-ND	19.20	16.00	14.40	AN-2803-B
Natural 4.53 (115.06)	3.54 (89.92)	2.17 (55.12)	377-1434-ND	19.40	16.15	14.55	AN-2804
Black 4.53 (115.06)	3.54 (89.92)	2.17 (55.12)	377-1435-ND	21.50	17.90	16.10	AN-2804-B
Natural 5.83 (148.08)	4.25 (107.95)	2.95 (74.93)	377-1436-ND	30.60	25.50	22.95	AN-2805
Black 5.83 (148.08)	4.25 (107.95)	2.95 (74.93)	377-1437-ND	33.90	28.25	25.45	AN-2805-B
Natural 6.73 (170.94)	4.76 (120.90)	2.17 (55.12)	377-1438-ND	31.50	26.25	23.65	AN-2806
Black 6.73 (170.94)	4.76 (120.90)	2.17 (55.12)	377-1439-ND	34.60	28.85	25.95	AN-2806-B
Natural 8.75 (222.25)	5.75 (146.05)	2.17 (55.12)	377-1440-ND	34.00	28.35	25.50	AN-2807
Black 8.75 (222.25)	5.75 (146.05)	2.17 (55.12)	377-1441-ND	40.10	33.40	30.05	AN-2807-B
Natural 8.75 (222.25)	5.75 (146.05)	3.25 (82.55)	377-1442-ND	38.80	32.35	29.10	AN-2808
Black 8.75 (222.25)	5.75 (146.05)	3.25 (82.55)	377-1443-ND	45.00	37.50	33.75	AN-2808-B
Natural 4.75 (120.65)	4.75 (120.65)	4.00 (101.6)	377-1444-ND	33.90	28.25	25.45	AN-2809
Black 4.75 (120.65)	4.75 (120.65)	4.00 (101.6)	377-1445-ND	36.80	30.65	27.60	AN-2809-B
Natural 6.25 (158.75)	6.25 (158.75)	4.00 (101.6)	377-1446-ND	38.10	31.75	28.60	AN-2810
Black 6.25 (158.75)	6.25 (158.75)	4.00 (101.6)	377-1447-ND	42.20	35.15	31.65	AN-2810-B
Natural 1.97 (50.04)	1.77 (44.96)	1.12 (28.45)	377-1448-ND	11.80	9.85	8.85	AN-2811
Black 1.97 (50.04)	1.77 (44.96)	1.12 (28.45)	377-1449-ND	12.40	10.35	9.30	AN-2811-B
Natural 3.85 (97.79)	2.52 (64.01)	1.35 (34.29)	377-1450-ND	15.10	12.60	11.35	AN-2812
Black 3.85 (97.79)	2.52 (64.01)	1.35 (34.29)	377-1451-ND	16.30	13.60	12.25	AN-2812-B
Natural 4.90 (124.46)	3.14 (79.76)	1.59 (40.39)	377-1452-ND	18.40	15.35	13.80	AN-2813
Black 4.90 (124.46)	3.14 (79.76)	1.59 (40.39)	377-1453-ND	20.70	17.25	15.55	AN-2813-B
Natural 4.90 (124.46)	3.14 (79.76)	2.26 (57.40)	377-1454-ND	20.30	16.90	15.20	AN-2814
Black 4.90 (124.46)	3.14 (79.76)	2.26 (57.40)	377-1455-ND	22.90	19.10	17.20	AN-2814-B
Natural 5.91 (150.11)	2.52 (64.01)	1.45 (36.83)	377-1456-ND	19.60	16.35	14.70	AN-2815
Black 5.91 (150.11)	2.52 (64.01)	1.45 (36.83)	377-1457-ND	21.20	17.65	15.90	AN-2815-B
Natural 6.29 (159.77)	3.93 (99.82)	2.37 (60.20)	377-1458-ND	30.10	25.10	22.60	AN-2816
Black 6.29 (159.77)	3.93 (99.82)	2.37 (60.20)	377-1459-ND	33.40	27.85	25.05	AN-2816-B
Natural 6.29 (159.77)	3.93 (99.82)	3.19 (81.03)	377-1460-ND	32.40	27.00	24.30	AN-2817
Black 6.29 (159.77)	3.93 (99.82)	3.19 (81.03)	377-1461-ND	35.70	29.75	26.80	AN-2817-B

NEW! Econoboxes with Mounting Brackets

Dimensions - Inch (mm)			Digi-Key	Price Each			Bud Ind.
Finish L	W	H	Part No.	1	10	100	Part No.
Fig. 8 — Econoboxes							
Natural 3.62 (91.95)	1.50 (38.1)	1.21 (30.73)	377-1462-ND	10.90	9.10	8.20	CU-4123
Black 3.62 (91.95)	1.50 (38.1)	1.21 (30.73)	377-1463-ND	11.85	9.85	8.85	CU-4123-B
Natural 4.37 (111.00)	2.37 (60.20)	1.21 (30.73)	377-1464-ND	13.20	11.00	9.90	CU-4124
Black 4.37 (111.00)	2.37 (60.20)	1.21 (30.73)	377-1465-ND	14.30	11.90	10.70	CU-4124-B
Natural 4.68 (118.87)	3.68 (93.47)	2.21 (56.13)	377-1466-ND	17.40	14.50	13.05	CU-4234
Black 4.68 (118.87)	3.68 (93.47)	2.21 (56.13)	377-1467-ND	19.40	16.15	14.55	CU-4234-B
Natural 7.39 (187.71)	4.70 (119.38)	2.21 (56.13)	377-1468-ND	23.20	19.35	17.40	CU-4247
Black 7.39 (187.71)	4.70 (119.38)	2.21 (56.13)	377-1469-ND	26.70	22.25	20.05	CU-4247-B
Natural 7.39 (187.71)	4.70 (119.38)	3.21 (81.53)	377-1470-ND	27.10	22.60	20.36	CU-4347
Black 7.39 (187.71)	4.70 (119.38)	3.21 (81.53)	377-1471-ND	30.60	25.50	22.95	CU-4347-B
Natural 2.00 (50.8)	2.00 (50.8)	1.25 (31.75)	377-1472-ND	9.90	8.25	7.45	CU-4470
Black 2.00 (50.8)	2.00 (50.8)	1.25 (31.75)	377-1473-ND	10.60	8.85	7.95	CU-4470-B
Natural 4.33 (109.98)	3.25 (82.55)	1.75 (44.45)	377-1474-ND	14.70	12.25	11.05	CU-4471
Black 4.33 (109.98)	3.25 (82.55)	1.75 (44.45)	377-1475-ND	16.50	13.75	12.40	CU-4471-B
Natural 4.75 (120.65)	3.15 (80.01)	2.33 (59.18)	377-1476-ND	17.10	14.25	12.85	CU-4472
Black 4.75 (120.65)	3.15 (80.01)	2.33 (59.18)	377-1477-ND	19.40	16.15	14.55	CU-4472-B
Natural 4.68 (118.87)	3.68 (93.47)	1.34 (34.04)	377-1478-ND	16.10	13.40	12.05	CU-4473
Black 4.68 (118.87)	3.68 (93.47)	1.34 (34.04)	377-1479-ND	18.10	15.10	13.60	CU-4473-B
Natural 4.75 (120.65)	4.75 (120.65)	2.33 (59.18)	377-1480-ND	21.10	17.60	15.85	CU-4474
Black 4.75 (120.65)	4.75 (120.65)	2.33 (59.18)	377-1481-ND	24.00	20.00	18.00	CU-4474-B
Natural 4.75 (120.65)	4.75 (120.65)	3.75 (95.25)	377-1482-ND	24.40	20.35	18.30	CU-4475
Black 4.75 (120.65)	4.75 (120.65)	3.75 (95.25)	377-1483-ND	27.30	22.75	20.50	CU-4475-B
Natural 6.00 (152.4)	3.25 (82.55)	2.00 (50.8)	377-1484-ND	20.40	17.00	15.30	CU-4476

(Continued)

J

Fig. 14 — Mini Boxes

• 04" aluminum alloy • Two sections slip together and may be joined by either built-in snap lock or sheet metal screws (included)

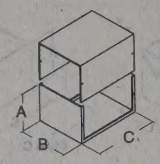


Fig. 15 — Gasketed Enclosures

Indoor Version: • ABS/PC blended plastic with UL94-5VB flammability rating • Clear doors polycarbonate with UL94V-0 flammability rating • Suggested service temperature -40°C – 70°C

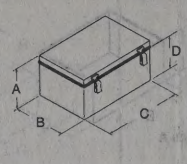
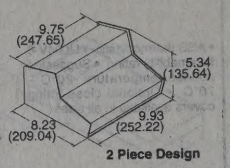
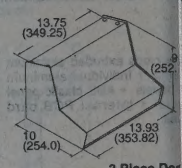


Fig. 16 — Small Compucab Series Cabinets



2 Piece Design

• Dual-slope keyboard styling • Base and side .09" aluminum; back panel and cover .05" aluminum • Rubber feet included



3 Piece Des

Fig. 17 — Champion Cabinets

• No screws on front or rear panel • Ventilation slots in bottom and rear panel • Black top and bottom; white front and rear • .05" aluminum • Four adhesive rubber feet included

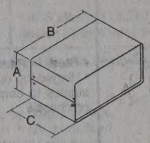


Fig. 18 — Portacab Cabinets

• Designed for bench or portable use • Louvered sides • .05" aluminum • Metallic gray • Handle capacity 25 lbs. • Four plastic feet included

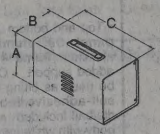
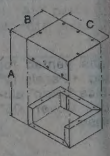


Fig. 19 — Converta Boxes

• Welded base and two-sided cover • .05" aluminum • Natural finish



Finish	Dimensions - Inch (mm) L	W	H	Digi-Key Part No.	Price Each 1	10	100	Bud Ind. Part No.
Black	6.00 (152.4)	3.25 (82.55)	2.00 (50.8)	377-1485-ND	22.70	18.90	17.00	CU-4476-B
Natural	7.39 (187.71)	4.70 (119.38)	1.50 (38.1)	377-1486-ND	21.30	17.75	16.00	CU-4477
Black	7.39 (187.71)	4.70 (119.38)	1.50 (38.1)	377-1487-ND	24.80	20.65	18.60	CU-4477-B
Natural	7.50 (190.5)	7.50 (190.5)	2.62 (66.55)	377-1488-ND	33.70	28.10	25.30	CU-4478
Black	7.50 (190.5)	7.50 (190.5)	2.62 (66.55)	377-1489-ND	38.20	31.85	28.65	CU-4478-B
Natural	4.37 (111.00)	2.37 (60.20)	2.13 (54.10)	377-1490-ND	15.70	13.10	11.80	CU-4479
Black	4.37 (111.00)	2.37 (60.20)	2.13 (54,10)	377-1491-ND	16.80	14.00	12.60	CU-4479-B

NEW! Extruded Aluminum Boxes

L	W	H	Digi-Key Part No.	Price Each 1	10	100	Bud Ind. Part No.
Fig. 9 — Extruded Aluminum Boxes							
3.81 (96.77)	3.14 (79.76)	1.57 (39.88)	377-1492-ND	13.00	10.85	9.75	EX-4500
5.38 (136.65)	3.14 (79.76)	1.57 (39.88)	377-1493-ND	16.50	13.75	12.40	EX-4501
6.96 (176.78)	3.14 (79.76)	1.57 (39.88)	377-1494-ND	20.00	16.65	15.00	EX-4502
5.38 (136.65)	6.14 (155.96)	3.18 (80.77)	377-1495-ND	25.00	20.85	18.75	EX-4521
6.96 (176.78)	6.14 (155.96)	3.18 (80.77)	377-1496-ND	30.50	25.40	22.85	EX-4522
9.32 (236.73)	6.14 (155.96)	3.18 (80.77)	377-1497-ND	38.50	32.10	28.90	EX-4523
5.38 (136.65)	3.82 (97.03)	3.82 (97.03)	377-1498-ND	20.50	17.10	15.40	EX-4541
6.96 (176.78)	3.82 (97.03)	3.82 (97.03)	377-1499-ND	25.50	21.25	19.15	EX-4542
9.32 (236.73)	3.82 (97.03)	3.82 (97.03)	377-1500-ND	31.50	26.25	23.65	EX-4543

Style	Color	A	B	C	Digi-Key Part No.	Price Each 1	10	Bud Ind. Part No.
Fig. 10 — Potting Boxes								
A	Black	1.00 (25.4)	2.00 (50.8)	1.50 (38.1)	377-1173-ND	1.16	.97	PB-1558
		1.50 (38.1)	3.00 (76.2)	2.00 (50.8)	377-1176-ND	1.69	1.41	PB-1559
		.75 (19.05)	1.00 (25.4)	1.00 (25.4)	377-1180-ND	.68	.57	PB-1577
B	Black	1.00 (25.4)	2.00 (50.8)	1.50 (38.1)	377-1175-ND	1.27	1.06	PB-1558-TF
		1.50 (38.1)	3.00 (76.2)	2.00 (50.8)	377-1178-ND	1.82	1.52	PB-1559-TF
		1.50 (38.1)	3.00 (76.2)	3.00 (76.2)	377-1179-ND	1.83	1.53	PB-1576-TF
C	Black	1.00 (25.4)	2.00 (50.8)	1.50 (38.1)	377-1174-ND	1.27	1.06	PB-1558-BF
		1.50 (38.1)	3.00 (76.2)	2.00 (50.8)	377-1177-ND	1.82	1.52	PB-1559-BF
Optional Close-Fitting Covers								
Cover for PB-1558-BF					377-1181-ND	.67	.56	PBC-1558-C
Cover for PB-1558/1558-TF					377-1182-ND	.67	.56	PBC-1558-CN
Cover for PB-1559-BF					377-1183-ND	.78	.65	PBC-1559-C
Cover for PB-1559/1559-TF					377-1184-ND	.76	.64	PBC-1575-C
Cover for PB-1576-TF					377-1185-ND	.99	.83	PBC-1576-C
Cover for PB-1577					377-1186-ND	.40	.34	PBC-1577-C

Small Cabinets

Color	A	B	C	Digi-Key Part No.	Price Each 1	5	10	Bud Ind. Part No.
Fig. 11 — SLIMCAB™ Desktop Cabinet								
Sand Text.	1.75 (44.45)	8.50 (215.9)	8.0 (203.2)	377-1187-ND	63.40	—	52.90	CS-11221-S
Fig. 12 — TR Series								
Blue/White	7.00 (177.8)	11.06 (280.9)	13.25 (336.55)	377-1055-ND	291.60	243.45	—	TR-6102
Blue/White	3.50 (88.9)	8.31 (211.07)	10.75 (273.05)	377-1312-ND	237.90	198.65	—	TR-6100
	5.25 (133.35)	8.31 (211.07)	13.25 (336.55)	377-1313-ND	254.70	212.65	—	TR-6101
Fig. 13 — Sloping Panel Cabinets								
Metallic Gray	6.50 (165.1)	7.06 (179.3)	7.31 (185.7)	377-1066-ND	49.80	—	41.65	C-1584
	6.50 (165.1)	9.06 (230.1)	7.31 (185.7)	377-1067-ND	48.00	—	40.05	C-1585
	6.50 (165.1)	11.06 (280.9)	7.31 (185.7)	377-1068-ND	53.80	—	44.90	C-1586
	8.00 (203.2)	10.06 (255.5)	8.00 (203.2)	377-1069-ND	60.30	—	50.37	C-1588
	8.00 (203.2)	13.06 (331.7)	8.50 (215.9)	377-1070-ND	80.30	—	67.10	C-1892
	10.00 (254)	18.06 (458.37)	10.50 (266.7)	377-1071-ND	118.50	—	98.90	C-1893
	8.00 (203.2)	14.06 (357.1)	8.00 (203.2)	377-1072-ND	73.20	—	61.15	C-1894
	9.00 (228.6)	18.06 (458.7)	8.18 (207.78)	377-1073-ND	101.90	—	85.10	C-1896
Slope Enclosures, Solid Top (.09" Base, .05" Cover with Rubber Feet)								
Black/White	4.25 (107.95)	4.93 (125.22)	5.00 (127)	377-1074-ND*	42.90	35.80	—	SC-12100
	3.25 (82.55)	11.93 (303.02)	10.00 (254)	377-1075-ND	77.10	64.40	—	SC-12101

Color	A	B	C	Digi-Key Part No.	Price Each 1	5	10	Bud In Part N
Fig. 14 — Mini Boxes								
Gray	1.62 (41.15)	2.12 (53.85)	2.75 (69.85)	377-1076-ND	5.30	—	4.40	CU-21
	1.62 (41.15)	2.12 (53.85)	3.25 (82.55)	377-1077-ND	5.40	—	4.50	CU-21
	1.62 (41.15)	2.12 (53.85)	4.00 (101.6)	377-1078-ND	5.60	—	4.65	CU-21
	2.25 (57.15)	2.25 (57.15)	4.00 (101.6)	377-1079-ND	5.80	—	4.85	CU-21
	3.00 (76.2)	4.00 (101.6)	5.00 (127)	377-1080-ND	8.50	—	7.10	CU-21
	2.12 (53.85)	3.00 (76.2)	5.25 (133.35)	377-1081-ND	6.90	—	5.70	CU-21
	4.00 (101.6)	5.00 (127)	6.00 (152.4)	377-1082-ND	12.00	—	10.10	CU-21
	3.00 (76.2)	5.00 (127)	7.00 (177.8)	377-1083-ND	11.60	—	9.70	CU-21
	3.50 (88.9)	6.00 (152.4)	8.00 (203.2)	377-1084-ND	23.30	—	19.50	CU-21
	3.50 (88.9)	6.00 (152.4)	10.00 (254)	377-1085-ND	24.70	—	20.60	CU-21
	4.00 (101.6)	7.00 (177.8)	12.00 (304.8)	377-1086-ND	32.70	—	27.35	CU-21
Natural	1.62 (41.15)	2.12 (53.85)	2.75 (69.85)	377-1087-ND	3.50	—	2.90	CU-30
	1.62 (41.15)	2.12 (53.85)	3.25 (82.55)	377-1088-ND	3.90	—	3.25	CU-30
	1.62 (41.15)	2.12 (53.85)	4.00 (101.6)	377-1089-ND	4.30	—	3.60	CU-30
	2.25 (57.15)	2.25 (57.15)	4.00 (101.6)	377-1090-ND	4.60	—	3.80	CU-30
	2.25 (57.15)	2.25 (57.15)	5.00 (127)	377-1091-ND	5.50	—	4.60	CU-30
	3.00 (76.2)	4.00 (101.6)	5.00 (127)	377-1092-ND	7.00	—	5.85	CU-30
	2.12 (53.85)	3.00 (76.2)	5.25 (133.35)	377-1093-ND	5.60	—	4.60	CU-30
	4.00 (101.6)	5.00 (127)	6.00 (152.4)	377-1094-ND	10.00	—	8.40	CU-30
	3.00 (76.2)	5.00 (127)	7.00 (177.8)	377-1095-ND	9.00	—	7.50	CU-30
	3.50 (88.9)	6.00 (152.4)	8.00 (203.2)	377-1096-ND	14.10	—	11.75	CU-30
	3.50 (88.9)	6.00 (152.4)	10.00 (254)	377-1097-ND	17.80	—	14.85	CU-30
	4.00 (101.6)	7.00 (177.8)	12.00 (304.8)	377-1098-ND	22.50	—	18.75	CU-30

* Single knockout only — centered

UL/NEMA/IEC Gasketed Enclosures

A	B	C	D	Digi-Key Part No.	Price Each 1	5	15	Bud Part
Fig. 15 — NBA Series – Stainless Steel Hinges								
7.09 (180.09)	11.80 (299.72)	7.85 (199.39)	5.90 (149.86)	377-1138-ND†	58.30	48.60	43.75	NBA
7.09 (180.09)	15.75 (400.05)	11.80 (299.72)	5.90 (149.86)	377-1139-ND†	85.90	71.60	64.45	NBA
5.97 (151.64)	11.80 (299.72)	7.85 (199.39)	4.80 (121.92)	377-1140-ND§	55.40	46.15	41.55	NBA
Fig. 15 — NBB Series – Plastic Hinges								
3.57 (90.68)	5.90 (149.86)	5.90 (149.86)	2.75 (69.85)	377-1141-ND†	18.40	15.35	13.80	NBE
5.50 (141.35)	11.28 (286.512)	7.47 (189.79)	4.33 (109.98)	377-1142-ND†	38.10	31.75	28.60	NBE
7.04 (178.82)	13.00 (330.2)	13.00 (330.2)	5.86 (148.84)	377-1143-ND†	52.60	43.85	39.45	NBE
6.30 (160.02)	15.68 (398.27)	11.73 (297.94)	5.11 (129.79)	377-1144-ND†	53.10	44.25	39.85	NBE
3.57 (90.68)	5.90 (149.86)	5.90 (149.86)	2.75 (69.85)	377-1245-ND§	20.10	16.74	15.05	NBE
3.57 (90.68)	5.90 (149.86)	5.90 (149.86)	2.75 (69.85)	377-1246-ND†	20.30	16.90	15.20	NBE
Fig. 15 — NBD Series – Non-Metallic Phillips Drive Fasteners								
5.03 (127.76)	7.48 (189.99)	11.02 (279.91)	3.85 (97.79)	377-1145-ND†	38.70	32.25	29.05	NBE
Fig. 15 — NBE Series – Plastic Hinges/Aluminum Swing-out Panel								
5.50 (141.35)	7.47 (189.79)	11.28 (286.512)	4.33 (109.98)	377-1146-ND§	71.60	59.80	53.80	NB
6.30 (160.02)	11.73 (297.94)	15.68 (398.27)	5.11 (129.79)	377-1147-ND§	93.70	78.25	70.45	NB
7.85 (199.39)	14.64 (371.86)	19.17 (486.92)	6.67 (169.42)	377-1148-ND§	141.90	118.50	106.65	NB

† Solid doors § Clear doors

Small Cabinets

Description	Digi-Key Part No.	Price Each 1	5	15	Bud In Part N
Fig. 16 — Small Metal Enclosures – Compucab Series					
2 pc. Design	377-1296-ND	83.00	69.30	62.35	SC-131
3 pc. Design	377-1297-ND	161.60	134.90	121.41	SC-131

Color	A	B	C	Digi-Key Part No	Price Each 1	5	10	Bud In Part N
Fig. 17 — Champion Series Cabinets								
Black	6.00 (152.4)	12.00 (304.8)	10.00 (254)	377-1210-ND	77.30	—	64.50	CS-11
	8.00 (203.2)	9.00 (228.6)	8.00 (203.2)	377-1211-ND	75.40	—	62.90	CS-11
	8.00 (203.2)	12.00 (304.8)	10.00 (254)	377-1212-ND	84.60	—	70.60	CS-11

More Product Available Online: www.digikey.com

Toll-Free: 1-800-344-4539 • Phone: 218-681-6674 • Fax: 218-681-3380

Dimensions in Inch (mm)

— Portable Cabinets

aluminum • Frame 6063-T5 extrusion
ommodates 19" panels • Mounting rails
10-32 tapped holes • Use 377-1403-ND
s • Cabinet 500 lbs. load, handles 100
ad capacity • Door sold separately

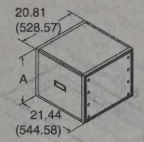
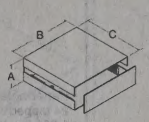
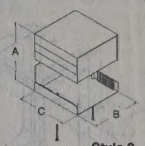


Fig. 21 — Plasticases

PC-11402 – PC-11416: • Impact resistant polystyrene • UL94-HB flammability rating • Molded-in card guides and mounting bosses • Double-textured PC bone gray
PC-11438: • Black ABS covers • UL94-HB flammability rating • Clear anodized aluminum front and rear panels • Internal steel channels provide extra strength and ease of assembly • Formed guide tabs accept vertical or horizontal circuit boards
PC-11482-A: • Dark gray ABS covers with natural finish aluminum end panels • UL94V-0 flammability rating • Suggested service temperature -40°C ~ 80°C



Style 1



Style 2

Dimensions - Inch (mm)			Digi-Key	Price Each			Bud Ind.
A	B	C	Part No	1	5	10	Part No.
Fig. 18 — Portacab Cabinets							
8.00 (203.2)	6.12 (155.45)	8.00 (203.2)	377-1315-ND	81.60	68.10	—	WA-1540
9.00 (228.6)	8.12 (206.25)	12.00 (304.8)	377-1316-ND	112.60	94.00	—	WA-1541
8.00 (203.2)	10.12 (257.05)	8.00 (203.2)	377-1317-ND	95.80	80.05	—	WA-1542
11.00 (279.4)	11.12 (282.45)	18.00 (457.2)	377-1318-ND	153.60	128.25	—	WA-1543
Fig. 19 — Converta Boxes							
2.00 (50.8)	8.00 (203.2)	4.00 (101.6)	377-1221-ND	14.40	—	12.00	CU-482-A
2.50 (63.5)	9.50 (241.3)	5.00 (127)	377-1222-ND	15.80	—	13.20	CU-592-A
2.50 (63.5)	12.00 (304.8)	6.00 (152.4)	377-1223-ND	20.80	—	17.34	CU-622-A

Dimensions - Inch (cm)		Weight	Digi-Key	Price Each		Bud Ind.
A	Panel Space	Lbs.	Part No.	1	3	Part No.
Fig. 20 — Classic II Portable Cabinets*						
22.81 (57.94)	21.00 (53.34)	40	377-1335-ND	477.45	445.55	AGC-9276-GT
22.81 (57.94)	21.00 (53.34)	40	377-1336-ND	477.45	445.55	AGC-9276-RB
—	—	6.25	377-1398-ND†	100.60	90.55	AGD-376-WH
24.56 (62.38)	22.75 (57.79)	41	377-1337-ND	494.55	461.60	AGC-9277-GT
24.56 (62.38)	22.75 (57.79)	41	377-1338-ND	494.55	461.60	AGC-9277-RB
—	—	6.75	377-1399-ND†	105.15	94.65	AGD-377-WH
26.31 (66.83)	24.50 (62.23)	42	377-1339-ND	508.75	474.80	AGC-9278-GT
26.31 (66.83)	24.50 (62.23)	42	377-1340-ND	508.75	474.80	AGC-9278-RB
—	—	7.25	377-1400-ND†	112.55	101.30	AGD-378-WH

Color	Dimensions - Inch (cm)		Weight	Digi-Key	Price Each		Bud Ind.
	A	Panel Space	Lbs.	Part No.	1	3	Part No.
Gray	28.06 (71.27)	26.25 (66.68)	43	377-1341-ND	527.45	492.25	AGC-9279-GT
Blue	28.06 (71.27)	26.25 (66.68)	43	377-1342-ND	527.45	492.35	AGC-9279-RB
White	—	—	7.50	377-1401-ND†	115.70	104.15	AGD-379-WH
Gray	29.81 (75.72)	28.00 (71.12)	45	377-1343-ND	531.10	495.75	AGC-9280-GT
Blue	29.81 (75.72)	28.00 (71.12)	45	377-1344-ND	531.10	495.75	AGC-9280-RB
White	—	—	8.00	377-1402-ND†	122.20	110.00	AGD-380-WH

*Due to weight and size, product will be drop shipped from Bud Industries direct to our customers. Call Digi-Key for further information.
† Doors for the cabinets

Style	Color	Dimensions - Inch (mm)			Digi-Key	Price Each		Bud Ind.
		A	B	C	Part No.	1	10	Part No.
Fig. 21 — Plasticases								
1	Gray	1.53 (38.86)	5.08 (129.03)	5.30 (134.62)	377-1149-ND	13.30	11.10	PC-11402
		2.52 (64.01)	8.10 (205.74)	6.32 (160.53)	377-1150-ND	20.40	17.00	PC-11408
		2.56 (65.02)	10.24 (260.10)	7.09 (180.09)	377-1156-ND	32.80	27.35	PC-11482-A
	Black	4.02 (102.11)	9.72 (246.89)	8.66 (219.96)	377-1155-ND	52.90	44.15	PC-11438
2	Gray	3.30 (83.82)	6.12 (155.49)	6.32 (160.53)	377-1151-ND	21.00	17.50	PC-11410
		3.30 (83.82)	8.10 (205.74)	6.32 (160.53)	377-1152-ND	24.30	20.30	PC-11412
		4.04 (102.62)	6.12 (155.49)	6.32 (160.53)	377-1153-ND	22.10	18.45	PC-11414
		4.04 (102.62)	8.10 (205.74)	6.32 (160.53)	377-1154-ND	25.80	21.55	PC-11416

d Industries, Inc.

ValuRack

EW

• Lowest Cost
• Sturdy Welded Construction

On Any Enclosure, Rack or Cabinet: Modifications are Standard at Bud

• Low Tooling Costs
• Custom Colors
• Additional Ventilation
• Unique Hole Configurations

Bud's Quick-Pick Cabinet Accessory Chart

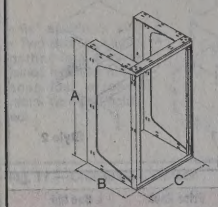
Description	Digi-Key Part No.	Price Each 1	10	20	Bud Ind. Part No.
Mounting Rail for 70" Panel Space (1 pr.)	377-1413-ND	120.70	90.70	80.65	PMR-9453
Casters (1 pr.)	377-1264-ND	32.90	27.40	24.65	RC-7758-PR
Power Strip – Rack Mounted (Front)	377-1414-ND	66.00	46.25	39.60	POS-194-S
Shelf – Stationary and Vented	377-1307-ND	83.20	52.00	47.85	SH-2384
Shelf – Stationary and Solid	377-1306-ND	89.30	55.80	51.35	SH-2382
Shelf – Sliding and Vented	377-1415-ND	146.40	102.50	84.20	SH-2392
Shelf – Sliding and Solid	377-1416-ND	144.00	100.80	82.80	SH-2388
Fan Tray	377-1227-ND	235.50	164.85	147.21	FT-1170-MG
Fans for Tray	377-1225-ND	46.88	28.15	26.25	FN-1280
Blower	377-1411-ND	642.00	449.43	385.20	B-62
Panel – 1U	377-1247-ND	10.35	8.65	8.24	PA-1101-MG

ValuRack

Bud Ind. Part No.	Panel Space	Overall Size H x W x D	Clear Inside Depth	Weight Lbs.
VR-8924	61.25"	66.56" x 22.00" x 26.00"	24.00"	106
VR-8925	70.00"	75.31" x 22.00" x 26.00"	24.00"	114
VR-8926	78.75"	84.06" x 22.00" x 26.00"	24.00"	121

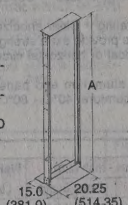
The Right Rack for Every Cabinet Project

Fig. 1 — Open Racks Swing Frame



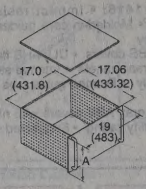
• Left or right hand hinge • Velcro cable straps included • 75 lbs. load capacity • Use 377-1404-ND screws • Black texture

Fig. 2 — Aluminum Open Racks



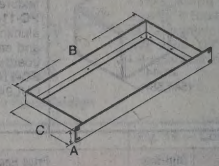
• Panel holes #12-24 tapped • 1,000 lbs. load capacity • Use 377-1404-ND screws

Fig. 3 — Rack Mount Chassis



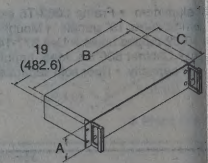
• Front panel .12" thick mill finish aluminum with "Surface Shield" protection • Side panels are punched on a .87" grid • Handles and covers sold separately

Fig. 4 — Small Rack Mount Chassis



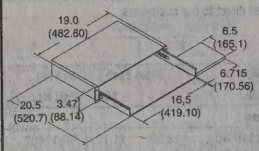
• Panels .10" thick aluminum; chassis .05" thick aluminum • Covers sold separately

Fig. 5 — ValuLine Cabinets



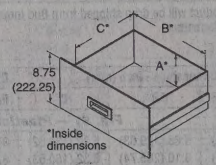
• Side and front panels .09" alumin base, rear and top .05" aluminum lbs. load capacity • Rack moun brackets and rubber feet included

Fig. 6 — Keyboard/Mouse Shelf



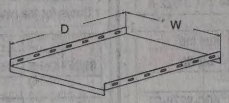
• Fits 19" panel • Mouse pad slides underneath right or left • Takes up 2-U of panel space

Fig. 7 — Sliding Drawer



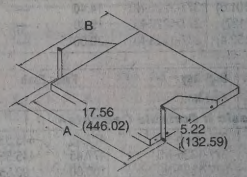
• Fits 19" panel • Supports heavy loads, even when fully extended

Fig. 8 — Stationary Shelves



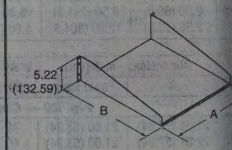
• Fits 19" wide panel spaces • Supports up to 200 lbs. • Requires two pairs of panel mounting rails per cabinet

Fig. 9 — Adjustable Shelf



• Fits 19" panel spaces • Adjustable for depth within rack • Supports 150 lbs.

Fig. 10 — Equipment Shelves



• Fits 19" panel spaces • One piece struction • Supports 150 lbs.

Open Racks

Color	Dimensions - Inch (cm) A	B	C	Digi-Key Part No	Price Each 1	5	Bud Ind. Part No.
Fig. 1 — Open Racks Swing Frame – Knockdown Assembly							
Black	38.00 (96.52)	21.25 (53.98)	18.00 (45.72)	377-1299-ND	174.10	130.60	SF-2194

Color	Dimensions - Inch (cm) A	Panel Space	Digi-Key Part No.	Price Each 1	5	Bud Ind. Part No.
Fig. 2 — Aluminum Open Racks						
Black	84.00 (213.36)	77.00 x 19.00 (195.58 x 48.26)	377-1196-ND	168.00	140.30	ARR-1272-BT
Natural	84.00 (213.36)	77.00 x 19.00 (195.58 x 48.26)	377-1197-ND	158.00	131.95	ARR-1272-NF

Rack Mount Chassis

Dimension A Inch (mm)	Handles	Digi-Key Part No.	Price Each 1	5	10	Bud Ind. Part No.
Fig. 3 — Rack Mount Chassis						
5.25 (133.35)	H-9160-B	377-1268-ND	64.80	54.10	48.70	RM-14212
7.00 (177.8)	H-9111-B	377-1269-ND	74.20	61.95	55.75	RM-14213
5.25 (133.35)	H-9160-B	377-1392-ND	73.00	60.95	54.85	RM-14222
7.00 (177.8)	H-9111-B	377-1393-ND	85.60	71.50	64.35	RM-14223
8.75 (222.25)	H-9112-B	377-1394-ND	104.30	87.10	78.40	RM-14224
10.50 (266.7)	H-9113-B	377-1395-ND	124.30	103.80	93.40	RM-14225

Description	Fits Chassis	Digi-Key Part No.	Price Each 1	10	Bud Ind. Part No.
Rack Mount Chassis Covers					
Solid Top or Bottom Cover	RM-14212-13	377-1310-ND	29.60	24.75	TBC-14252
Ventilated Top or Bottom Cover		377-1311-ND	33.10	27.65	TBC-14262
Solid Top or Bottom Cover	RM-14222-25	377-1396-ND	33.60	28.10	TBC-14253
Ventilated Top or Bottom Cover		377-1397-ND	35.50	29.70	TBC-14263

Dimensions - A x B x C Inch (mm)	Fits Rack Inch (mm)	Digi-Key Part No.	Price Each 1	10	Bud Ind. Part No.
Fig. 4 — Small Rack Mount Chassis					
1.75 x 17.00 x 4.00 (44.45 x 431.8 x 101.6)	19.00 (482.6)	377-1205-ND	24.30	20.30	CH-14400
1.75 x 17.00 x 8.00 (44.45 x 431.8 x 203.2)	19.00 (482.6)	377-1206-ND	41.60	34.75	CH-14401
1.75 x 17.00 x 16.00 (44.45 x 431.8 x 406.4)	19.00 (482.6)	377-1207-ND	60.00	50.15	CH-14402
3.50 x 17.00 x 8.00 (88.9 x 431.8 x 203.2)	19.00 (482.6)	377-1208-ND	61.40	51.25	CH-14403
3.50 x 17.00 x 16.00 (88.9 x 431.8 x 203.2)	19.00 (482.6)	377-1209-ND	78.80	65.80	CH-14404

Description	Fits Chassis	Digi-Key Part No.	Price Each 1	10	Bud Ind. Part No.
Small Rack Mount Chassis Covers					
Ventilated Top or Bottom Cover	CH-14400	377-1417-ND	9.80	8.20	C-14430
Solid Top or Bottom Cover		377-1420-ND	7.20	6.00	C-14440
Ventilated Top or Bottom Cover	CH-14401, 03	377-1418-ND	16.50	13.80	C-14431
Solid Top or Bottom Cover		377-1421-ND	11.40	9.50	C-14441
Ventilated Top or Bottom Cover	CH-14402, 04	377-1419-ND	26.40	22.05	C-14432
Solid Top or Bottom Cover		377-1422-ND	19.40	16.20	C-14442

Dimensions - A x B x C Inch (mm)	Fits Rack Inch (mm)	Digi-Key Part No.	Price Each 1	5	Bud Ind. Part
Fig. 5 — ValuLine Series Cabinets (with handles)					
3.50 x 17.00 x 8.00 (88.9 x 431.8 x 203.2)	19.00 (482.6)	377-1238-ND	97.00	81.00	HC-1
3.50 x 17.00 x 13.00 (88.9 x 431.8 x 330.2)	19.00 (482.6)	377-1239-ND	188.90	157.70	HC-1
5.25 x 17.00 x 13.00 (133.35 x 431.8 x 330.2)	19.00 (482.6)	377-1240-ND	194.70	162.60	HC-1
7.00 x 17.00 x 13.00 (177.8 x 431.8 x 330.2)	19.00 (482.6)	377-1241-ND	204.40	170.70	HC-1
8.75 x 17.00 x 13.00 (222.25 x 431.8 x 330.2)	19.00 (482.6)	377-1242-ND	214.20	178.85	HC-1
10.50 x 17.00 x 15.00 (266.7 x 431.8 x 381)	19.00 (482.6)	377-1243-ND	239.60	200.05	HC-1

Accessories

Color	Maximum Panel Keyboard Width – Inch (cm)	Digi-Key Part No.	Price Each 1	10	Bud Ind. Part No.
Fig. 6 — Keyboard/Mouse Shelf					
Black	19.0 x 16.5 (48.26 x 41.91)	377-1244-ND	180.00	150.30	KS-178

Color	Dimensions - Inch (cm) A	B	C	Digi-Key Part No.	Price Each 1	5	Bud Ind. Part No.
Fig. 7 — Sliding Drawer (inside dimensions)							
Black	6.31 (16.03)	19.18 (48.72)	16.56 (42.06)	377-1224-ND	268.50	224.20	D-17

Color	Dimensions - Inch (cm) Width	Depth	Digi-Key Part No.	Price Each 1	3	5	Bud Ind. Part No.
Fig. 8 — Stationary Shelves-Non Ventilated							
Black	17.90 (45.47)	26.50 (67.31)	377-1306-ND	89.30	66.90	62.50	SH
	17.90 (45.47)	19.25 (48.90)	377-1188-ND	79.40	59.50	55.60	60-
	17.90 (45.47)	22.75 (57.79)	377-1189-ND	83.40	62.50	58.40	60-
	17.00 (43.18)	17.75 (45.09)	377-1416-ND†	144.00	—	107.90	SH
Fig. 8 — Stationary Shelves-Ventilated							
Black	17.90 (45.47)	17.75 (45.09)	377-1307-ND	83.20	62.35	58.25	SH
	17.90 (45.47)	21.25 (53.98)	377-1308-ND	86.30	64.65	60.40	SH
	17.90 (45.47)	26.50 (67.31)	377-1309-ND	93.50	70.05	65.45	SH
	17.00 (43.18)	17.75 (45.09)	377-1415-ND†	146.40	—	109.70	SH

† Sliding Shelf

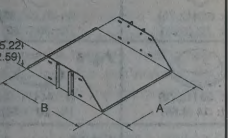
Color	Dimensions - Inch (cm) A	B	Digi-Key Part No.	Price Each 1	10	50	Bud Ind. Part N
Fig. 9 — Adjustable Shelf-Open Rack							
Black	17.62 (44.75)	20.00 (50.80)	377-1290-ND	108.90	90.90	81.81	SA-12
Fig. 10 — Equipment Shelves-Open Rack-Non Ventilated							
Black	17.62 (44.75)	15.00 (38.10)	377-1291-ND	73.60	61.45	55.30	SA-17
	17.62 (44.75)	20.00 (50.80)	377-1293-ND	88.00	73.50	66.15	SA-17
Fig. 10 — Equipment Shelves-Open Rack-Ventilated							
Black	17.62 (44.75)	15.00 (38.10)	377-1292-ND	80.40	67.15	60.45	SA-17
	17.62 (44.75)	20.00 (50.80)	377-1294-ND	95.40	79.65	71.70	SA-17
Fig. 11 — Open Rack Shelf-Non Ventilated							
Black	17.62 (44.75)	19.00 (48.26)	377-1295-ND	92.80	77.50	69.75	SA-17

Wheel Description	Dimension A Inch (mm)	Load Rating	Digi-Key Part No.	Price Each 1	10	50	Bud Ind. Part N
Fig. 12 — Casters (Sold in Pairs)							
Composition	3.25 (82.55)	200 lbs.	377-1264-ND	32.90	27.40	21.90	RC-77
Rubber with Brake	5.13 (130.18)	240 lbs.	377-1265-ND	77.50	64.60	58.16	RC-77
Rubber	5.13 (130.18)	240 lbs.	377-1266-ND	67.00	55.85	50.25	RC-77

(Co

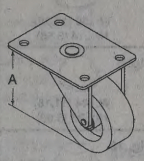
Dimensions in inch (mm)

11 — Open Rack Shelf



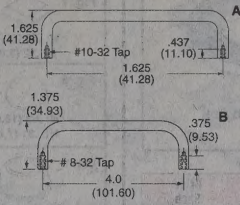
19" panel spaces • Supports 200

Fig. 12 — Casters



• Heavy duty, ball bearing, swivel type • Hard tread rubber

Fig. 13 — Handles



• High quality • Designed for long wear

Fig. 14 — Panels

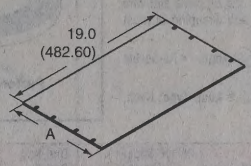
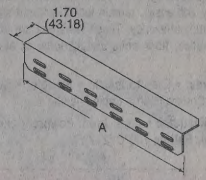
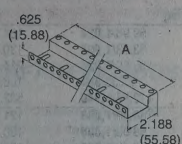


Fig. 15 — Chassis Support Brackets



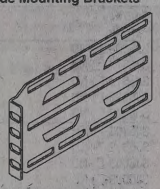
• Attaches to panel mounting rail accessory flange • Sold in pairs

16 — Panel Mounting Rails



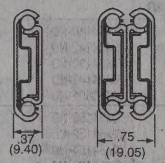
gauge steel • Rail mounting hardware included (377-1403-ND screws, sold separately) • Black • Sold in pairs

Fig. 17 — Slide Mounting Brackets



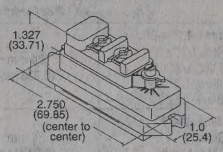
• Designed for mounting two and three piece slides • Sold in pairs

Fig. 18 — Slides



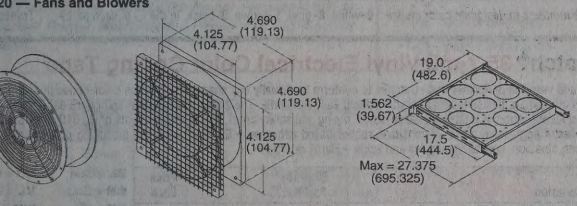
• Telescoping • Zinc-plated alloy steel with ball bearings

Fig. 19 — Tem-Stat Temperature Control



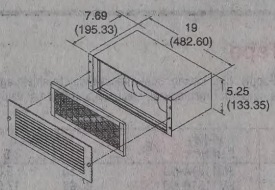
• Contacts open when there is a 10°F drop in temperature • Prevents shut-downs caused by overheating

20 — Fans and Blowers



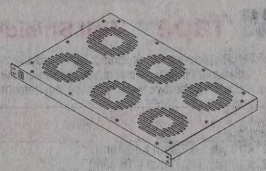
280: • Mounts in FT-1170 fan tray or can be used for individual applications • Supplied with finger guard • UL approved, 105 CFM

282: • Mounts in top of ventilated Economizer racks • Supplied with finger guard • UL/CSA rated, 535 CFM



• 19" panel width with standard EIA notching for rack mounting • Motors are UL and CSA approved for 115VAC, 50/60Hz

Fig. 21 — *NEW!* Fan Tray Assemblies



• Standard EIA 19.00" x 1-U (1.75") panel mounting • 115VAC • 7' long, three prong, power cord

Dimensions - Inch (mm)			Digi-Key	Price Each			Bud Ind.
Clearance	Mounting Center	Diameter	Part No.	1	10	100	Part No.
Fig. 13A — Chrome Plated Handles							
(31.75)	6.00 (152.4)	.37 (9.398)	377-1228-ND*	8.30	6.95	6.25	H-9110-B
(23.62)	4.00 (101.6)	.37 (9.398)	377-1229-ND*	6.40	5.30	4.75	H-9111-B
(23.62)	6.00 (152.4)	.37 (9.398)	377-1230-ND*	7.80	6.50	5.85	H-9112-B
(23.62)	8.00 (203.2)	.37 (9.398)	377-1231-ND	10.60	8.85	7.95	H-9113-B
0 (38.1)	8.00 (203.2)	.50 (12.7)	377-1232-ND†	16.50	13.80	12.40	H-9114-B
8 (3.36)	3.50 (88.9)	.37 (9.398)	377-1233-ND†	12.40	10.35	9.30	H-9160-B
8 (3.36)	5.25 (133.35)	.37 (9.398)	377-1234-ND†	10.60	8.90	8.00	H-9161-B
0 (25.4)	1.90 (48.26)	.25 (6.35)	377-1235-ND§	6.00	5.00	4.50	H-9166-B
0 (25.4)	3.00 (76.2)	.25 (6.35)	377-1236-ND§	5.70	4.70	4.25	H-9168-B

des 2 - #10-32 x .37" screws. † Includes 2 - #6-32 x .50" screws. § Includes 2 - 1/4"-28 Hex nuts.

Dimensions - Inch (mm)		Digi-Key	Price Each			Bud Ind.
d Clearance	Mounting Center	Part No.	1	10	100	Part No.
Fig. 13B — Clear Anodized Aluminum Handle						
09 (27.69)	4.00 (101.6)	377-1237-ND*	10.85	9.05	8.15	H-9174-B

des 2-8.32 x .37" screws

Dimension A Inch (mm)	Digi-Key Part No.	Price Each 1	10	50	Bud Ind. Part No.
Fig. 14 — 19" Aluminum Surface Shield Panels - .12" Thick					
1.75 (44.45)	377-1300-ND	9.50	7.95	7.15	SFA-1831
3.50 (88.9)	377-1301-ND	13.90	11.55	10.40	SFA-1832
5.25 (133.35)	377-1302-ND	17.80	14.90	13.40	SFA-1833
7.00 (177.8)	377-1303-ND	22.80	19.05	17.15	SFA-1834
8.75 (222.25)	377-1304-ND	25.00	20.85	18.75	SFA-1835
10.50 (266.7)	377-1305-ND	32.40	27.00	24.30	SFA-1836
Fig. 14 — 19" Aluminum Panels - .12" Thick (Gray)					
1.75 (44.45)	377-1247-ND	10.35	8.65	7.80	PA-1101-MG
3.50 (88.9)	377-1248-ND	14.40	12.00	10.80	PA-1102-MG
5.25 (133.35)	377-1249-ND	19.70	16.40	14.75	PA-1103-MG
7.00 (177.8)	377-1250-ND	24.50	20.50	18.45	PA-1104-MG
8.75 (222.25)	377-1251-ND	29.70	24.80	22.30	PA-1105-MG
10.50 (266.7)	377-1252-ND	37.70	31.50	28.35	PA-1106-MG
12.25 (311.15)	377-1253-ND	41.40	34.50	31.05	PA-1107-MG
14.00 (355.6)	377-1254-ND	46.10	38.45	34.60	PA-1108-MG
Fig. 15 — Chassis Support Brackets (Sold in Pairs)					
13.00 (330.2)	377-1213-ND	30.30	25.30	22.75	CSB-1352
16.00 (406.4)	377-1214-ND	32.80	27.38	24.66	CSB-1353
23.00 (584.2)	377-1215-ND	35.50	29.63	26.69	CSB-1354

Dimension A Inch (cm)	Digi-Key Part No.	Price Each 1	5	10	Bud Ind. Part No.
Fig. 16 — Panel Mounting Rails (Sold in Pairs)					
70.0 (177.80)	377-1413-ND	120.70	100.80	90.70	PMR-9453

Description	Digi-Key Part No.	Price Each 1	3	5	Bud Ind. Part No.
Fig. 17 — Slide Mounting Brackets (Sold in Pairs)					
Universal Kit	377-1204-ND	30.20	25.05	22.55	BAS-5106

Dimensions - Inch (cm)		Load Rating	Digi-Key	Price Each			Bud Ind.
Slide Length	Travel	(per pair)	Part No.	1	3	5	Part No.
Fig. 18 — Sliding Mechanisms - 2 Piece Slide							
12 (30.48)	8 (20.32)	140 lbs.	377-1199-ND	30.50	25.45	22.90	AS-5000-A
16 (40.64)	12 (30.48)	120 lbs.	377-1200-ND	40.10	33.50	30.15	AS-5001-A
20 (50.80)	15 (38.10)	92 lbs.	377-1201-ND	42.00	35.10	31.60	AS-5002-A
26 (66.04)	19 (48.26)	70 lbs.	377-1202-ND	46.40	38.75	34.90	AS-5004-A
20 (50.80)	20.875 (53.02)	91 lbs.	377-1203-ND*	91.00	76.00	68.40	AS-5042-A

* 3 piece slide full extension

Description	Digi-Key Part No.	Price Each 1	5	10	Bud Ind. Part No.
Fig. 19 — Tem-Stat Temperature Control					
Normally Open, Closes on Temperature Rise	377-1314-ND	23.70	—	17.80	TS-15
Rack Mount Power Outlet Strip					
15 Amps	377-1414-ND	66.00	49.50	46.25	POS-194-S
Mounting Hardware					
10-32 X .62" Phillips Screw Truss Head	377-1403-ND		4.00/25		7346
10-32 X .62" Phillips Screw with Pilot, Black	377-1409-ND		7.00/25		7346B
#10 Recessed Nylon Washer	377-1410-ND		13.00/25		TP 2070
10-32 Cage Nut, Zinc-Plated	377-1405-ND		21.25/25		295
12-24 X .5" Phillips Screw Truss Head	377-1404-ND		5.00/25		9260
Fig. 20 — Fans and Blowers					
Tubeaxial, 110V, .21 Amps	377-1225-ND	46.88	37.50	28.15	FN-1280
Exhaust, 10 inch, 115VAC	377-1226-ND	179.60	134.70	125.70	FN-1282
Fan Tray Assembly	377-1227-ND*	235.50	176.65	164.85	FT-1170-MG
Blower, 115VAC	377-1411-ND	642.00	481.57	449.43	B-62
NEW! Fig. 21 — Fan Tray Assemblies NEW!					
Assembly with 3 Fans, Total CFM 315	377-1423-ND	205.80	149.20	144.05	FT-1973
Assembly with 6 Fans, Total CFM 630	377-1424-ND	316.60	229.55	221.60	FT-1976
Assembly with 9 Fans, Total CFM 945	377-1425-ND	415.30	301.10	290.70	FT-1979

* Fans sold separately, part number 377-1225-ND.

3M Scotch® 100 Wire Tie Wraps

Perforated Roll: Scotch® 100 Cable and Wire Tie Wrap incorporates flexibility, a thin profile, and superior strength for unique cable bundling, wire harnessing, and fastening system. Scotch® 100 tie wraps secure quickly and easily, remain locked without slipping, and can be re-used for maximum efficiency. These fasteners are ideal for use on cable and wire assemblies, fiber optic installations, or bundling and wrapping of most items.

Features: • Easy to install • Flexible • Superior Strength • Re-usable • Thin Construction • Cable Friendly

Specifications: • **Hook Type:** Polypropylene (Clear) • **Loop Type:** Nylon • **Temp. Rating:** 100°C (212°F)

Perforated Roll

Description	Thickness	Shear Strength	Digi-Key Part No.	Price Each
Perforated Roll (100 count roll)				
Black, 1" x 6"	.84mm (0.033 in.)	20 psi	3M53598-ND	6.35
Perforated Roll (75 count roll)				
Green, 1/2" x 8" Red, 1/2" x 8" White, 1/2" x 8" Yellow, 1/2" x 8" Black, 1" x 8"	.84 mm (0.033 in.)	20 psi	3M54140-ND 3M54142-ND 3M54139-ND 3M54143-ND 3M53601-ND	3.53 3.53 3.53 3.53 6.35
Blue, 1" x 8" Green, 1" x 8" Red, 1" x 8" White, 1" x 8" Yellow, 1" x 8"	.84 mm (0.033 in.)	20 psi	3M54153-ND 3M54152-ND 3M54154-ND 3M54151-ND 3M54155-ND	6.35 6.35 6.35 6.35 6.35
Accessory				
HHD 100 Hand Held Dispenser			3M53604-ND	8.72

3M Bumpons® Protective Products

Available in: White, Gray, Brown, Black. Dimensions in inches (mm).

Fig. 1 W: .50 (12.70) H: .12 (3.05)	Fig. 2 W: .50 (12.70) Ht: .14 (3.56)	Fig. 3 W: .50 (12.70) Ht: .23 (5.84)	Fig. 4 W: .81 (20.57) Ht: .30 (7.62)
Fig. 5 W: .63 (16.00) Ht: .31 (7.87)	Fig. 6 W: .44 (11.18) Ht: .20 (5.08)	Fig. 7 W: .50 (12.70) Ht: .14 (3.56)	Fig. 8 W: .44 (11.18) Ht: .20 (5.08)
Fig. 9 W: .88 (22.35) Ht: .40 (10.16)	Fig. 10 W: .81 (20.57) Ht: .52 (13.21)	Fig. 11 W: .40 (10.16) Ht: .10 (2.54)	Fig. 12 W: .75 (19.05) Ht: .38 (9.65)

Fig.	Digi-Key Part No. *	Pricing			
1	SJ5508-□-ND	5.25/**64**	44.99/**640**	59.98/**1,024**	124.16/**3,072**
2	SJ5012-□-ND	4.90/**56**	42.02/**560**	63.03/**1,008**	130.46/**3,024**
3	SJ5518-□-ND	9.07/**64**	77.70/**640**	103.60/**1,024**	214.46/**3,072**
4	SJ5523-□-ND	.86/**4**	6.63/**36**	77.33/**504**	106.71/**1,008**
5	SJ5027-□-ND	8.80/**40**	98.11/**520**	112.82/**1,040**	532.57/**5,200**
6	SJ5303-7-ND†	4.55/**56**	38.99/**560**	58.49/**1,008**	121.07/**3,024**
7	SJ5312-7-ND†	4.90/**56**	42.02/**560**	63.03/**1,008**	130.46/**3,024**
8	SJ5003-□-ND	4.55/**56**	38.99/**560**	58.49/**1,008**	121.07/**3,024**
9	SJ5009-□-ND	8.82/**24**	22.68/**72**	132.33/**504**	182.61/**1,008**
10	SJ5514-□-ND	2.01/**4**	15.50/**36**	180.84/**504**	249.55/**1,008**
11	SJ5007-0-ND	4.11/**54**	35.25/**540**	58.75/**1,080**	113.51/**3,024**
12	SJ5017-□-ND	11.28/**40**	125.67/**520**	144.52/**1,040**	686.39/**5,200**

* *Use numbers to designate color choice :* **9**–white, **8**–gray, **1**–brown, **0**–black, in the □ of each part #. † Transpare

3M Tape Foil Shielding Tape

Scotch® EMI/RFI Copper Foil Shielding Tapes provide an easy-to-apply, time saving, cost-effective way to shield against EMI/RFI radiation. Foil tapes are conductive through the adhesive, and offer mechanical, electrical and thermal values to meet your shielding effectiveness/frequency requirements.

Description	Digi-Key Part No.	Price Each 1	5
1/4" x 18 yds. (6.35mm x 16.46m) 1/2" x 18 yds. (12.70mm x 16.46m) 1" x 18 yds. (25.40mm x 16.46m)	3M1181A-ND 3M1181B-ND 3M1181C-ND	10.50 20.98 41.97	9.00 17.99 35.97

Scotch® 35 7-mil Vinyl Electrical Color Coding Tape

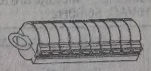
Agile and versatile performer that stretches to conform to virtually any shape that requires color-coded insulation. Its cellent elongation, flexibility and strength make it easy to handle. The eight fade-resistant colors are easily distingui for fast identification of electrical phases, leads, piping and safety areas. Meets requirements of UL 510 and CSA 22.2

Features: • Aggressive pressure-sensitive, rubber-based adhesive • Excellent electrical insulating properties • Re weather, abrasion, corrosion, alkalies and acids • Flame retardant

Description	Digi-Key Part No.	Price Each
3/4" x 66 ft. (19mm x 20.1m) Color Designation □□	3M35-□□-ND	5.14

BL = Blue **RD** = Re
GN = Green **VL** = Vio
GY = Gray **WH** = W
OR = Orange **YL** = Ye

ScotchCode™ Wire Marker Tape Dispenser



BK = Black **BN** = Brown **GY** = Gray **RD** = Red **WH** = White
BL = Blue **GN** = Green **OR** = Orange **VL** = Violet **YL** = Yellow

Description	Digi-Key Part No.	Price Each
Dispenser Only	STD-ND	11.41
Dispenser with 0-9 Marker Tape	STD-0-9-ND	34.77
Dispenser with Colored Marker Tape	STD-C-ND	34.77
Refill, 1 roll, number - □ = 0 thru 9	SDR-□-ND*	2.50
Refill, 1 roll, colors - □□ = Color Designation	SDR-□□-ND*	2.50

* Refill Rolls 8 Feet (2.44 Meters) in Length

Scotch® 70 Self- Fusing Silicone Rubber Electrical Tape

High-temperature, arc and track-resistant self-fusing tape. It's composed of long-lasting silicone rubber with an tear, easy-strip liner. Scotch 70 Tape is well-suited to protect high-voltage cable terminations against arcing and tra Operating Temperature: 180°C.

Description	Digi-Key Part No.	Price Each 1	
1" x 30 ft. (25.4mm x 9.1m)	3M70-ND	40.62	35

Scotch® Adhesive Transfer Tapes 9703

Scotch Adhesive Transfer Tapes aren't really "tapes" at all. They're actually thin strips of pressure sensitive adhesive pre-applied on special release liners. This allows you to quickly and easily apply a neat, precise strip of clean, dry adhesive exactly where you want it. **Mounts flat, flexible circuits:** Features electrical conductivity only through the adhesive thick-ness. Completely eliminates the need for soldering, solvents, messy cleanup. • Thickness: 0.002" (.05mm) • Adhesive: Acrylic A-40 **Applications:** • Attach EMI/RFI shields • Connect flat flexible circuits • Attach electronic components

Description	Digi-Key Part No.	Price Each
Width, 0.5" (12.70mm)	3M970312-ND	65.50

Scotch-Mount™ No. 4008 and 4026 Double Coated Foam Tapes

The foam carrier makes them flexible and conformable, great for filling space and ideal for joining rough and irregular surfaces. • Adhesive: Acrylic A-20
Applications: • Bond mirrors to walls or furniture • Bond acoustic panels to walls

Description	Digi-Key Part No.	Price Each
Thickness, 0.125" (3.18mm)	3M4008-ND	51.79
Thickness, 0.062" (1.57mm)	3M4026-ND	29.95

Scotch® 130C-mil Linerless Rubber Splicing Tape

3M's premier rubber-based, high-voltage insulating tape. Its thermally conductive design eliminates hot spots in splicing and terminating 600V to 69k V. Meets requirements of HH-I-553C, Grade A and B, and ASTM D-4388, Type III.

Description	Digi-Key Part No.	Price Each
3/4" x 30 ft. (19.05mm x 9.1m)	3M130C-ND	12.70

Scotch-Mount™ Double-Coated Foam Tape

Urethane Foam: Soft, conformable, and high in internal strength which makes it ideal for general purpose mounti joining. The excellent cold temperature properties make it suited for application on snowmobiles, freezers, etc.
Vinyl Foam: Designed for general purpose mounting and joining, they offer one-piece removal. Their high de conformability makes them well suited for joining rough, mis-matched surfaces and the closed-cell foam makes ex water and air seal in certain applications.

Description	Digi-Key Part No.
Urethane 1/16" Thick, 1" x 36 yds., White (1.59mm x 25.40mm x 32.92m)	3M40161-ND
Vinyl 1/8" Thick, 1" x 36 yds. (3.18mm x 25.40mm x 32.92m)	3M44081-ND
Vinyl 1/16" Thick, 1" x 36 yds., Black (1.59mm x 25.40mm x 32.92m)	3M44161B-ND
Vinyl 1/16" Thick, 1" x 36 yds., White (1.59mm x 25.40mm x 32.92m)	3M44161W-ND

6969 Duct Tape

3M Highland 6969 is a 10.8-mil (0.27mm) commercial grade polyethylene coated cloth tape with rubber adhesive for moisture proofing plumbing, duct sealing, protecting, holding and other general purpose uses. It is silver colored, high tack, conformable, strong and easily torn. 6969 resists backing distortion at temperatures up to 150°F (65°C) for one hour.

Description	Digi-Key Part No.	Price Each
2" x 60 yd. roll (50.8mm x 54.8m), Black	3M69692B-ND	9.84
2" x 60 yd. roll (50.8mm x 54.8m), Silver	3M69692S-ND	9.84

Scotch-Brite™ High Performance Cloth 2011

2011 high performance cloth provides excellent dust, oil and water pickup with minimal linting. This is a versat scratching tool to be used on a wide variety of substrates including stainless steel, chrome, enamel, painted s plastics, glass, computer monitors, wood, marble and other delicate surfaces. It can be used dry or damp, without cleaning chemicals.

Description	Digi-Key Part No.	Price Each 1	5	10
Blue, High Performance Cloth, 32 x 36cm	3M2011B-ND	6.75	6.08	5.40
Red, High Performance Cloth, 32 x 36cm	3M2011R-ND	6.75	6.08	5.40
White, High Performance Cloth, 32 x 36cm	3M2011W-ND	6.75	6.08	5.40

Electrical Tape

Description	Digi-Key Part No.	Price Each
Super 33 Vinyl Plastic Electrical Tape, 3/4" x 66 ft. (19.05mm x 20.12m)	3M33+A-ND	5.26/Roll
Super 88 Vinyl Plastic Electrical Tape, 3/4" x 66 ft. (19.05mm x 20.12m)	3M88A-ND	5.94/Roll
Highland Vinyl Plastic Tape, 3/4" x 60 ft. (19.05mm x 18.2m)	3M1700-ND	1.02/Roll
Vinyl Mastic Pad, 3-1/4 " x 4-1/2" (82.55mm x 114.30mm)	3M11008-ND	3.12/Roll

More Product Available Online: www.digikey.com
Toll-Free: 1-800-344-4539 • Phone: 218-681-6674 • Fax: 218-681-3380

CITIZEN. Thermal Printers

THERMAL PRINTERS:

Use a non-impact method for printing. This is accomplished by using chemically treated thermal paper. Chemicals suspended in the paper react to heat generated by the print head to form dots that make up the characters or image. Citizen offers a thermal serial printer and a thermal line printer.

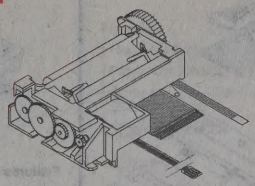
The serial printer uses a moving head that prints one character at a time, it is most suited for character printing, although the high speed model does support graphics. Its main benefit is low cost. Line printers have a fixed print head, printing one line at a time. It is suited for both high speed character and graphic printing. Its main benefits are higher definition graphic printing along with fewer moving parts.

INTERFACE BOARDS:

Acts as an interface between user's system and the thermal printer. Monitors temperature and paper status. Controls motor(s) and thermal head energy for optimal printing. Generates built in test pattern. Accepts both simplified Centronics or RS-232C (TTL only) interface.

NOTE: CBMA now markets the former Panasonic line of Thermal Printer Mechanisms. Please call Digi-Key for details.

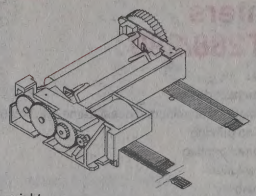
Fig. 1 – Line Printer



EPL1600 Series
- Compact size, light weight
- High resolution (8 dots/mm), high printing speed
- Operatable by batteries (4.2 to 8.5 volts)
- Low current consumption
- Semi-auto paper loading function

Note: Available in 58, 80, and 112mm paper widths

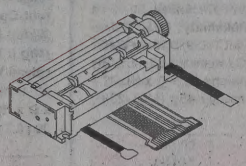
Fig. 2 – Line Printer



EPL1700 Series
- Compact size, light weight
- High resolution (8 dots/mm), high printing speed
- Semi-auto paper loading function
- Thick (label paper) paper printing possible

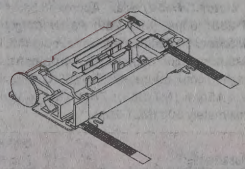
Note: Available in 58,80, and 112mm paper widths

Fig. 3 – Miniature Line Printer



EPL1802S2 Series
- High speed printing
- Very small size
- Very light weight (40g)
- Low power consumption

Fig. 4 – Compact Line Printer



EPL1900 Series
- Compact size
- Low weight (55g)
- High reliability
- Easy maintenance

Note: Available with paper cutter (PT1034-ND)

Fig.	Print Method	Paper Width	Head Volt	Logic Volt	Print Speed (max.)	Char. / line	Head life	Size (mm)	Digi-Key Part No.	Price Each 1	10	100	250	Citizen Part No.
1	Line	58mm	5V	5V	450 dots-line/s max.	24/48	$5x10^7$ pulse/50km	79 x 51 x 20	471-1000-ND	107.72	99.33	92.24	86.43	EPL1601S2
		80mm			400 dots-line/s max.	36/72		101 x 52 x 20	471-1001-ND	127.76	117.81	109.40	102.51	EPL1602S3
		112mm			360 dots-line/s max.	52/104		147 x 54 x 20	471-1002-ND	115.53	106.54	98.93	92.71	EPL1603S4
2	Line	112mm	24V	5V	864 dots-line/s max.	54/108	$5x10^7$ pulse/50km	147 x 54 x 20	471-1005-ND	128.21	118.23	109.79	102.88	EPL1703S4
3	Line	58mm	5V	5V	450 dots-line/s max.	24/48	$1x10^8$ pulse/50km	72 x 32 x 15	471-1032-ND	120.24	110.88	102.96	96.48	EPL1802S2
4	Line	58mm	5V	5V	300 dots-line/s max.	24/36	$5x10^7$ pulse/30km	82 x 41 x 15.8	471-1033-ND	40.93	37.75	35.05	32.85	EPL1902S2C
								82 x 41 x 25	471-1034-ND	70.37	64.90	60.27	56.47	EPL1904S2C

terface Boards

'LR1601Series
upports EPLR1600 series
64 built in character fonts
SCII JIS C6220 character codes
utomatic loading
larker detection
ar code printing (UPC, JAN, EAN, ODE39, ITF, NW7)
perates on 5 volts EPLR1601

Description	Digi-Key Part No.	Price Each 1	10	100	250	Citizen Part No.
Interface Board for EPL1600 Series	471-1013-ND	128.36	118.37	109.91	103.00	EPLR1601
Interface Board for EPL1900 Series	471-1035-ND	208.75	192.50	178.75	167.50	EPLZR1901E
Power Cable for EPLR1601/1701 Interface Boards	471-1017-ND	8.02	7.40	6.87	6.44	EPLSRDSP303
Centronics Cable for EPLR1601/1701 Interface Boards	471-1018-ND	7.52	6.93	6.44	6.03	EPLSRDSP304
RS232 Cable for EPLR1601/1701 Interface Boards	471-1019-ND	5.85	5.39	5.01	4.69	EPLSRDSP305
Centronics Cable for EPTR2000L/H Interface Boards	471-1021-ND	5.90	5.44	5.05	4.74	EPLSRDSP276
EPLR1601 CPU Replacement Chip for User Designed Interfaces	471-1023-ND	24.80	22.87	21.24	19.90	EPLSAR1601
EPLR1701 CPU Replacement Chip for User Designed Interfaces	471-1024-ND	24.80	22.87	21.24	19.90	EPLSAR1701
EPLR1601/1701 Gate-array for User Designed Interfaces	471-1025-ND	10.44	9.63	8.94	8.38	EPLASR1101

J

IAKAGAWA MFG. (USA), INC. Thermal Paper

uality thermal paper available in 58, 60, 80 and 112mm paper widths.

PECIFICATIONS:

iper core: 12mm
iper length: 30M
iter diameter: 55mm
d mark: red, 50cm from end of roll.

Paper weight: 65um

Print life: greater than 5 years when stored in a dark location, 25°C or less, 65% R.H. max.

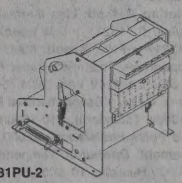
Description	Digi-Key Part No.	Price Each 1	10	100	250	Nakagawa Part No.
58mm Thermal Printer Paper	PT1028-ND	2.08	1.66	1.46	1.39	EPT-58
60mm Thermal Printer Paper	PT1029-ND	2.43	1.94	1.70	1.62	EPL-60
80mm Thermal Printer Paper	PT1030-ND	2.73	2.18	1.91	1.83	EPT-80
112mm Thermal Printer Paper	PT1031-ND	2.93	2.34	2.05	1.96	EPL-112

CITIZEN. Thermal Printers

ecifications:

rinting Method: Line thermal dot printing • **Printing Width:** 72mm/576 dots • **Dot Pitch:** 8 dots/mm **rinting Speed:** 62.5mm/sec. (Max.) (500 dot lines/sec.) • **Number of Columns:** 48 columns ***Font A:*** 48 lumns; ***Font B:*** 64 columns • **Font Size:** 1.25mm x 3.00mm (***Font A:*** 12 x 24 dots); 0.88mm x 3.00mm ***ont B:*** 9 x 24 dots) • **Fonts:** Alphanumeric, International characters • **Bar-code Type:** UPC-A, JAN AN) 13 col./8 col., ITF, CODE39, CODE128, CODABAR • **Line Spacing:** 4.23mm (1/6") Selectable by mmand set (Min. 1/203 inch) • **Printing Paper:** ***Thermal Roll Paper:*** Width 80mm; ***External Diameter:*** 03mm (with paper holder unit) ***Internal diameter:*** ø25.4mm; ***Paper thickness:*** 60 to 85µm; ***commended Paper:*** TF-50KS-E, TF-62KS-E (Nippon Paper Industries) • **Interface:** Serial (RS-232C) or rallel (Centronics) • **Input Buffer:** 4K bytes • **Command:** ESC/POS • **Sensors:** Paper near end sensor djustable, for PHU series); Paper end sensor (for PMU series); Black mark sensor (option) • **Power urce Voltage:** 24V±7% • **Power Consumption:** 100W • **Weight:** PPU; 1.6kg (incl. control PCB) • **Exnal Dimensions (W x D x H):** PPU: 153.7 x 160 x 172mm • **Operating Temperature/Humidity:** 5°C ~ °C; 35 to 85% RH (No condensation) • **Storage Temperature/Humidity:** -20°C ~ 60°C; 10 to 90% RH o condensation) • **Reliability:** ***Head:*** 50,000,000 pulses or 30km; ***Auto Cutter:*** 300,000 cuts • ***Safety andard:*** UL, C-UL, FCC class A, TUV-CE marking

Features:
- Easy paper handling — the presenter unit feeds the paper after print and cut
- Paper auto loading
- Capable of loading large diameter roll paper (203ø)
- Both parallel (Centronics) and serial (RS-232C) interfaces available
- Equipped with a paper end sensor and paper near end sensor
- Bar-code printing



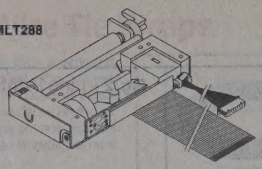
PPU-231PU-2

Description	Digi-Key Part No.	Price Each 1	10	Citizen Part No.
Printer, 80mm, Retractor, Parallel	471-1078-ND	528.97	487.80	PPU-231PU-2
Printer, 80mm, Retractor, Serial	471-1079-ND	528.97	487.80	PPU-231RU-2
Printer Module, 80mm	471-1077-ND	204.29	188.39	PMU-230
Presenter Retractor Module	471-1080-ND	83.28	76.80	PRU-130-2
Paper Handling Unit with one Sensor	471-1076-ND	45.29	41.77	PHU-131P.Holder

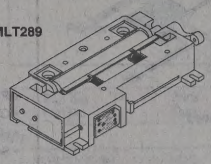
CITIZEN

Thermal Printers MLT288/289

MLT288



MLT289

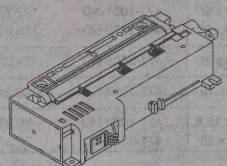


Features:
- Ultra compact design
- Light weight by aluminum-diecast frame (MLT-288)
- Low noise printing
- High-speed printing
- High resolution
- High reliability
- 5V operation
- Removable platen model (MLT-289)

Specifications:
• **Printing Method:** Line thermal dot printing • **Total Dots:** 384 dots/line • **Dot Density:** 8 dots/mm • **Print Width:** 48mm • **Print Speed:** Max. 420 dot-line/sec. • **Paper Feed Pitch:** 0.125mm • **Sensors:** ***Head Temperature:*** Thermistor ***Paper Presence:*** Photo-interrupter ***Head-up:*** Mechanical switch • **Voltage Range:** ***VH:*** DC 4.2-8.5V ***Vdd:*** DC 4.75-5.25V • **Current Consumption:** ***Head (VH=5V):*** Max. Approx. 1.7A ***Motor (VH=5V):*** Max. Approx. 0.5A • **Recommended Paper:** ***Width:*** 58mm ***Thickness:*** 60-72µm (MLT-288); 65µm (MLT-289) ***Paper (Mfg.):*** TF50KS-E2C (Nippon Paper) • **Reliability:** ***Head Pulse-Resistance:*** 50,000,000 pulses or more (MLT-288); 100,000,000 pulses or more (MLT-289) • **Head Wear-Resistance:** 50km or more • **Environment:** ***Operation:*** Temperature: 0°C ~ 45°C / Humidity: 35~85% RH ***Storage:*** Temperature: -20°C ~ -60°C / Humidity: 10~90% RH • **External Dimensions (W x D x H):** 72.7 x 38 x 15mm (MT-288); 76.8 x 37 x 16mm (MLT-289) ***Weight:*** Approximately 45g (MLT-288); Approximately 50g (MLT-289)

Description	Digi-Key Part No.	Price Each 1	Price Each 10	Citizen Part No.
58mm, 5V, Bent Paper Path	471-1036-ND	42.80	39.47	MLT288
58mm, 5V, Removable Platen	471-1037-ND	42.80	39.47	MLT289
Control Board for MLT288	471-1068-ND	103.62	95.56	BD2-2880UC
Control Board for MLT289	471-1069-ND	93.15	85.91	BD2-2890U
Auto Cutter for MLT289	471-1073-ND	55.89	51.55	ACS-229

Thermal Printer MLT389

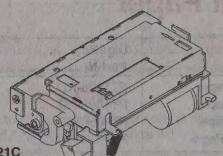


Specifications:
• **Printing Method:** Thermal dot line printing • **Total Dots:** 576 dot/line • **Dot Density:** 8 dots/mm • **Print Width:** 72mm • **Print Speed:** 244 dot lines per sec. @ 5V; 480 dot lines per sec. @ 7.2V • **Paper Feed Pitch:** 0.125mm • **Sensors:** ***Head Temperature:*** Thermistor ***Paper Presence:*** Photo-sensor ***Head-up:*** Mechanical switch • **Voltage Range:** ***VH:*** DC 4.2~8.5V (Ni-CD or Li-Ion, normally 7.2V max.) ***VDD:*** DC 4.75~5.25V • **Current Consumption:** ***Head (Vp):*** Max.: 1.7A Max. VH=5V, 64 dots, 25C 2.4A Max. VH=7.2V, 64 dots, 25C ***Motor (Vp):*** Max.: approx. 0.5A Mean Current: approx. 0.3A VH=7.2V, 840PPS • **Recommended Paper:** ***Width:*** 80mm ***Thickness:*** 65µm • **Paper Feed Force:** More than 0.49N • **Paper Holding Force:** More than 0.78N • **Print Head Life:** ***Pulse Resistance:*** 100 million pulses or more (12.5% print) ***Wear Resistance:*** 50 km or more • **Environment:** ***Operation:*** Temperature: 0°C ~ 45°C / Humidity: 35~85% RH ***Storage:*** Temperature: -20°C ~ -60°C / Humidity: 10~90% RH • **Vibration Resistance:** 6G at 10-55 Hz, 3 perpendicular axes, 1 hour • **Shock Resistance:** 60G 11ms, 6 directions, one impact in each direction • **External Dimensions (W x D x H):** 99.5 x 41 x 21mm ***Weight:*** Approx. 95g

Description	Digi-Key Part No.	Price Each 1	Price Each 10	Citizen Part No.
80mm, 5V, Removable Platen	471-1038-ND	53.52	49.36	MLT389

J

Thermal Printers LT1221/LT1221C/LT1321



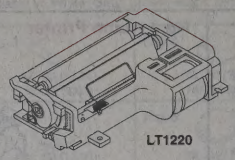
LT1221C

Features:
- Removable platen
- Simple and compact design
- High-speed printing (Max. 80mm/sec.)
- High reliability
- Cutter model (LT1221C)

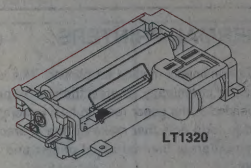
Specifications:
• **Printing Method:** Line thermal dot printing • **Total Dots:** 432 dots/line (LT1221), (LT1221C); 576 dots/line (LT1321) • **Dot Density:** 8 dots/mm • **Print Width:** 54mm (LT1221), (LT1221C); 72mm; (LT1321) • **Print Speed:** Max. 640 dot-line/sec. • **Paper Feed Pitch:** 0.125mm • **Sensors:** ***Head Temperature:*** Thermistor ***Paper Presence:*** Photo-sensor ***Head-up:*** Mechanical switch • **Voltage Range:** ***VH:*** DC 21.6-26.4V ***Vdd:*** DC 4.75-5.25V • **Current Consumption:** ***Head:*** Max. Approx. 5.2A ***Motor:*** Max. Approx. 0.41A • **Recommended Paper:** ***Width:*** 58mm (LT1221), (LT1221C); 80mm (LT1321) ***Thickness:*** 60-105µm (Standard), 110-150µm (A type) ***Paper (Mfg.):*** TF50-KS-E2C (Nippon Paper) • **Reliability:** ***Head Pulse-Resistance:*** 50,000,000 pulses or more • **Head Wear-Resistance:** 50km or more • **Environment:** ***Operation:*** Temperature 0°C ~ 45°C / Humidity: 35~85% RH ***Storage:*** Temperature: -20°C ~ -60°C / Humidity: 10~90% RH • **External Dimensions (W x D x H):** 91.5 x 58 x 20mm (LT1221); 108 x 58 x 20mm (LT1321) ***Weight:*** Approx. 85g (LT1221); Approx. 273g (LT1221C); Approx. 97g (LT1321)

Description	Digi-Key Part No.	Price Each 1	Price Each 10	Citizen Part No.
58mm, 24V, Removable Platen	471-1040-ND	62.22	57.38	LT1221
58mm, 24V, Removable Platen w/Cutter	471-1041-ND	99.88	92.11	LT1221C
80mm, 24V, Removable Platen	471-1043-ND	68.77	63.42	LT1321
Control Board	471-1071-ND	122.76	113.21	BD2-1221U

Thermal Printers LT1220/LT1320



LT1220



LT1320

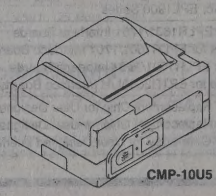
Features:
- Simple and compact design
- High-speed printing (Max. 80mm/sec.)
- Thick paper up to 0.15mm
- Curl paper path and straight paper path model
- Easy paper loading by wide head opening spac

Specifications:
• **Printing Method:** Line thermal dot printing • **Total Dots:** 432 dots/line (LT1220); 576 dots/line (LT1 • **Dot Density:** 8 dots/mm • **Print Width:** 54mm (LT1220); 72mm (LT1320) • **Print Speed:** Max. 640 line/sec. • **Paper Feed Pitch:** 0.125mm • **Sensors:** ***Head Temperature:*** Thermistor ***Paper Prese*** Photo-sensor ***Head-up:*** Photo-sensor • **Voltage Range:** ***VH:*** DC 21.6-26.4V ***Vdd:*** DC 4.75-5.25V • **rent Consumption:** ***Head:*** Max. Approx. 5.2A ***Motor:*** Max. Approx. 0.41A • **Recommended Pa** ***Width:*** 58mm (LT1220); 80mm (LT1320) ***Thickness:*** 60-105µm (Standard), 110-150µm (A type) ***P*** ***(Mfg.):*** TF50-KS-E2C (Nippon Paper) • **Reliability:** ***Head Pulse-Resistance:*** 50,000,000 pulses or • **Head Wear-Resistance:** 50km or more • **Environment:** ***Operation:*** Temperature 0°C ~ 45°C / Hum 35~85% RH ***Storage:*** Temperature: -20°C ~ -60°C / Humidity: 10~90% RH • **External Dimension x D x H):** 91.5 x 58 x 20mm (LT1220); 108 x 58 x 20mm (LT1320) ***Weight:*** Approx. 87g (LT1220); Ap 99g (LT1320)

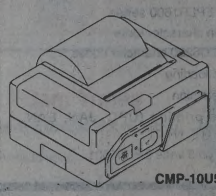
Description	Digi-Key Part No.	Price Each 1	Price Each 10	Citizen Part No.
58mm, 24V, Bent Paper Path	471-1039-ND	49.16	45.34	LT1220
80mm, 24V, Bent Paper Path	471-1042-ND	60.57	55.86	LT1320
Control Board	471-1070-ND	104.86	96.70	BD2-1220U

Mobile Thermal Printers CMP-10

The Citizen CMP-10 is a small, lightweight mobile receipt printer that brings functionality and convenien any mobile environment. Printing at 50mm/sec., the CMP-10 affords maximum wireless freedom throu infrared (IrDA) interface. Weighing less than 12 ounces, the CMP-10 utilizes a long-life lithium-ion ba that supplies up to 40,000 lines of 8 dots/mm (203 dpi) thermal printing on a single charge. An op integrated magnetic card reader provides rapid credit card processing.
Boasting wireless capability, long battery life and dimensions that fit perfectly on a belt clip or lanyar wireless Citizen CMP-10 satisfies the anytime, anywhere demands of today's mobile commerce.



CMP-10U5



CMP-10U5M

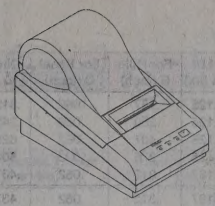
Features:
- Wireless IrDA connectivity eliminates cumbersome cable connections. Two-way communication provides data integrity and is ideal for OEM integration.
- Wearable built-in metal belt hook and neck/shoulder lanyard.
- Protocol support for POS and Barcode.
- Accessories: belt clip and lanyard.
- Configuration options: magnetic stripe reade 40mm paper cover.
- Interfaces to Pocket PC and Palm OS devices
- Portability

Specifications:
• **Printing Method:** Line thermal printing • **Total Dots:** 384 dots/line • **Dot Density:** 8 dots/mm (20 • **Print Speed:** 50mm/sec. (400 dot lines per sec.) • **Print Width and Characters per Line:** 48mm ***Fo*** 32 characters/line; ***Font B:*** 42 characters/line • **Recommended Paper:** 58mm ± x 50mm diameter op cover for 40mm diameter • **Interfaces:** IrDA Vers. 1.1, RS-232C, Interfaces with: Pocket PC and Pal devices • **Emulation:** ESC/POS, Barcode: EAN13, EAN8, UPC-A, UPC-E, Codabar, Code 39, Cod • **Power:** Rechargeable battery (Lithium-Ion) • **Battery Charge Time:** 3 hours maximum • **Print Line Charge:** 40,000 (fully charged) • **Buffer:** 64kb • **Reliability:** 50km • **Weight:** 329 grams • **Dimensio x D x H):** 116 x 90 x 51mm

Description	Digi-Key Part No.	Price Each 1	Price Each 10	Citizen Part No.
40mm, Paper Roll, Black	471-1064-ND	267.28	246.48	CMP-10U4
40mm, Paper Roll, Black, 3 Track, Mag Reader	471-1065-ND	331.58	305.77	CMP-10U4M
50mm, Paper Roll, Black	471-1066-ND	267.28	246.48	CMP-10U5
50mm, Paper Roll, Black, 3 Track, Mag Reader	471-1067-ND	331.58	305.77	CMP-10U5M

CITIZEN

Thermal Line Printers CBM270



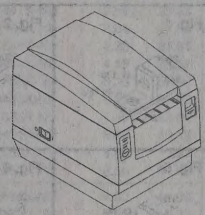
eatures:
- Palm size
- Lightweight
- Availability of wall mount
- Paper auto loading
- Bar-code printing
- Compatibility (ESC/POS)
- Paper near end sensor
- 2K bytes input buffer
- Label printing (471-1051-ND)
- Black and red printing with special paper (optional)

pplications:
POS • Banking • Medical equip. • Coupon • Ticket • Daily report • Delivery • Barcode

pecifications:
Printing Method: Line thermal dot printing • **Printing Width:** 48mm (384 dots/line) • **Printing peed:** Max. 50mm/sec., 400 dot-line/sec. (11 lines/sec.) • **Number of Columns:** ***Font A:*** 32 columns; ***ont B:*** 42 columns • **Character Size (W x H):** ***Font A:*** 1.25 x 3.00mm (12 x 24 dots), ***Font B:*** 0.88 x 3.00 m (9 x 24 dots) • **Dot Pitch:** 8 dots/mm • **Bar-code Type:** UPS-A/E, JAN (EAN), ITF, CODABAR, CODE), CODE 128 • **Line Spacing:** 4.23mm (1/6 inch), can be set by a command (Min. 1/203 inch) • **Printing aper:** ***Thermal Roll Paper:*** 58 x ø83mm (max.) ***Thickness:*** 60~75µm ***Thermal Label Paper:*** 58 x ø83 nax.) ***Thickness:*** 150µm label ***Label Width:*** 56mm (max.) ***Label Length:*** 25mm/pc (min.) • **Interface:** arallel: Centronics, Serial: RS-232C • **Input Buffer:** 2K bytes • **Paper Supply:** DC 7.2V 2A (Peak 6A) or C adapter AC 100-240V (27 AD) • **Weight:** Approx. 600g • **External Dimensions (W x D x H):** 106 x 184 110mm • **Reliability:** ***Head:*** 50,000,000 pulses or 50km • **Safety Standard:** FCC class A, TUV-GS, CE arking

Description	Digi-Key Part No.	Price Each 1	Price Each 10	Citizen Part No.
Parallel, 120V, Ivory	471-1050-ND	239.14	220.53	CBM-270PF 120V
Serial Label, 120V, Ivory	471-1051-ND	257.01	237.01	CBM-270 RF 120V-L

Thermal Line Printers CBM1000



eatures:
- 150mm/s high-speed printing
- Paper drop-in style
- User-installable interface card
- Bit map data registration
- Cash drawer kick out
- Bar-code printing
- Compatibility (ESC/POS)
- Page mode
- 80mm and 58mm paper width
- Availability in black, white and gray
- Label/Black mark function (option)
- Cable cover (option)
- Two color printing

pplications:
Receipt • Coupon • Ticket • Daily Report • Kitchen • Delivery • Bar-code

pecifications: • **Printing Method:** Line thermal dot printing • **Printing Width:** 80mm paper: 72mm/576 ts; 58mm paper: 54mm/432 dots • **Dot Pitch:** 8 x 8 dots/mm (203 dpi x 203 dpi) • **Printing Speed:** Max. 50mm/sec. (35.4 line/sec.) • **Number of Columns:** 80mm paper ***Font A:*** 44/42 columns; ***Font B:*** 64/56 olumns; 58mm paper ***Font A:*** 36/30 columns; ***Font B:*** 48/40 columns • **Character Size (W x H):** ***Font A:*** 25 x 3.00mm (12 x 24 dots); ***Font B:*** 0.88 x 3.00mm (9 x 24 dots) • **Character Table:** Code page 437, 50, 852, 857, 860, 863, 865, 866, Katakana, Windows code • **Bar-code Type:** UPS-A/E, JAN-13/8, ITF, ode 39, Code 128, CODABAR, Code 93 • **Line Spacing:** 4.23mm (1/6 inch), can be set by a command **Paper:** Thermal paper roll, 80 or 58mm (W) x ø83mm • **Interface:** ***Parallel:*** IEEE1284 and Centronics mpliant Serial: RS-232C • **Input Buffer:** 4K bytes • **NV Bit Map Data Area:** 256K bytes • **Drawer Kick-ut:** 2 drawers • **Power Supply:** AC adapter internally included • **AC Adapter:** ***Input:*** AC 100-240V, 0/60Hz, 120VA ***Output:*** DC 24V, 1.9A • **Weight:** 2.0kg • **External Dimension (W x D x H):** 145 x 190 x 57mm • **Operating Environment:** 5°C ~ 40°C, 35~85% RH • **Storage Environment:** -20°C ~ 60°C, 0~90% RH • **Reliability:** ***Head:*** 100,000,000 pulses or 100km; ***Cutter:*** 500,000 cuts • **Safety Standard:** L, C-UL, FCC class A, TUV-GS, CE marking

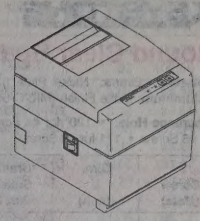
Description	Digi-Key Part No.	Price Each 1	Price Each 10	Citizen Part No.
Black, Parallel, 120V	471-1045-ND	332.73	306.83	CBM1000-II PF 120 BLK
White, Parallel, 120V	471-1046-ND	332.73	306.83	CBM1000-II PF 120 WHT
Gray, Parallel, 120V	471-1047-ND	332.73	306.83	CBM1000-II PF 120 GRY
Black, Serial, 120V	471-1048-ND	332.73	306.83	CBM1000-II RF 120 BLK
White, Serial, 120V	471-1049-ND	332.73	306.83	CBM1000-II RF 120 WHT

Thermal Line Printers IDP3240

pplications: • Receipt • Coupon • Ticket • Daily Report • Kitchen • Delivery • Bar-code

pecifications: • **Printing Method:** Line thermal dot printing • **Printing Width:** 104mm/832 dots • **Dot itch:** 8 x 8 dots/mm (203 dpi x 203 dpi) • **Printing Speed:** Max. 80mm/sec. (18.9 lines/sec.) • **Number of olumns:** ***Font A:*** 69/60 columns; ***Font B:*** 92/80 columns • **Character Size (W x H):** ***Font A:*** 1.25 x 00mm (12 x 24 dots); ***Font B:*** 0.88 x 3.00mm (9 x 24 dots) • **Character Table:** Code page 437, 50, 852, 857, 860, 863, 865, 866, Katakana and Windows code • **Bar-code Type:** UPC-A/E, JAN AN)-13/8, ITF, CODABAR, Code 39, and Code 128 • **Line Spacing:** 4.23mm (1/6 inch), can be set y a command • **Paper:** Thermal paper roll, 112mm (W) x ø83mm • **Interface:** ***Parallel:*** IEEE1284 nd Centronics compliant ***Serial:*** RS-232C • **Input Buffer:** 64K bytes • **NV Bit Map Data Area:** 256K ytes • **Drawer Kick-out:** 2 Drawers • **Power Supply:** ***Main Unit:*** DC 24V ***AC Adapter:*** 31AD • **AC dapter:** ***Input:*** AC 100-240V, 50/60Hz, 120VA ***Output:*** DC 24V, 1.9A • **Weight:** ***Main Unit:*** 1.45kg ***AC dapter:*** 0.45kg • **External Dimensions (W x D x H):** 186 x 201 x 128mm • **Operating Environment:** 5°C 40°C, 35~80% RH • **Storage Environment:** -20°C ~ 60°C, 10~90% RH • **Reliability:** ***Head:*** 00,000,000 pulses or 100km; ***Cutter:*** 500,000 cuts • **Safety Standard:** UL, C-UL, FCC class A, UV-GS, CE marking

Impact Printers IDP3550/3551



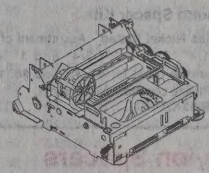
Features:
- High-speed printing
- Paper auto loading
- Compatibility (CBM, IDP, ESC/POS, Star)
- 6K bytes input buffer
- Auto cutter (iDP3551)
- Cash drawer kick out
- Pinfeed version (iDP3550P)
- Two color printing

Applications:
• Receipt • Journal • Ticket • Label • Credit/Debit • Daily report • Kitchen • Delivery

Specifications: • **Printing Method:** Serial dot impact • **Printing Direction:** Bidirectional • **Font:** 7 x 9 matrix • **Number of Columns:** 40 columns • **Printing Speed:** 3.6 lines/sec. (DP-654); 3.0 lines/sec. (DP-657) • **Character Size (W x H):** 1.36 x 2.4mm (DP-654); 1.20 x 2.4mm (DP-657) • **Character Set:** Alphanumeric, International, Code page 437, 850, 860, 863, 865, 852, 866, 857, Windows code • **Line Spacing:** 4.23mm, 1/6" (DP-654); 2.82mm (DP-657) • **Character Pitch:** 1.59mm (DP-654); 1.46mm (DP-657) • **Line Feed Speed:** 18 lines/sec. (DP-654); 15 lines (DP-657) • **Paper Feed Method:** Friction • **Paper:** 76mm roll paper • **Interface:** ***Parallel:*** Centronics ***Serial:*** RS-232C or Current loop • **Input Buffer:** 6K bytes • **Paper End Sensor:** Equipped • **Paper Cutter:** None (iDP3550); Partial/Full cut (iDP3551F) • **Paper Winder:** AW-3 (Option) • **Cash Drawer Control:** 2 drawers • **Ink Ribbon:** Red/Black, Cassette • **Power Supply:** AC 120V • **Power Consumption:** 30W • **Weight:** 2.8kg (iDP3550); 3.0kg (iDP3551F) • **External Dimensions (W x D x H):** 160 x 212 x 194mm (iDP3550); 160 x 212 x 173mm (iDP3551F) • **Operating Temperature Range:** 0°C ~ 40°C • **Storage Temperature Range:** -20°C ~ 60°C • **Reliability:** ***Printer:*** MCBF 4.0 million lines ***Head:*** 80 million characters ***Cutter:*** 500,000 cuts (iDP3551F) • **Safety Standard:** UL, C-UL, FCC class A, TUV-GS, CE marking

Description	Digi-Key Part No.	Price Each 1	Price Each 10	Citizen Part No.
Black, 120V, Parallel	471-1056-ND	245.69	226.57	IDP-3550PF B
Cool White, 120V, Parallel	471-1057-ND	245.69	226.57	IDP3550PF-CW
Cool White, 120V, Serial	471-1058-ND	245.69	226.57	IDP-3550RF-CW
Black, 120V, Serial	471-1059-ND	245.69	226.57	IDP-3550RF B
Cool White, 120V, Parallel Cutter	471-1060-ND	274.70	253.32	IDP-3551PF-CW
Black, 120V, Parallel Cutter	471-1061-ND	274.70	253.32	IDP-3551PF B
Cool White, 120V, Serial Cutter	471-1062-ND	274.70	253.32	IDP-3551RF-CW
Black, 120V, Serial Cutter	471-1063-ND	274.70	253.32	IDP-3551RF B

Impact Printer DP-614



Features:
- High-speed printing
- High reliability
- 2 color printing (black/red)
- 76mm paper width
- 24V operation

Specifications:
• **Printing Method:** Serial dot impact method • **Printing Direction:** Bidirectional • **Printing Speed:** Approx. 3.0 lines/sec. • **Number of Columns:** 40 columns, 360 dots/line • **Font:** 7 x 9 matrix • **Character Size (W x H):** 1.36 x 2.4mm • **Line Spacing:** 1/6 inch • **Motor:** ***Voltage:*** 24VDC / ***Peak Current:*** Max. 21A (12V, 25°C); ***Average Current:*** Approx. 0.2A or less • **Dot Pulse Sensor:** Photo interrupter • **Home Position Sensor:** Photo Interrupter • **Paper Feed Motor:** ***Voltage:*** 24VDC / ***Resistance:*** 48Ω (25°C) • ***Driving Pulse Width:*** 30 DP, Approx. 20ms • **Printing Solenoid:** ***Voltage:*** 24V ±1VDC / ***Resistance:*** 17Ω (24VDC, 25°C) • **Color Change Solenoid:** ***Voltage:*** 24VDC / ***Resistance:*** 48Ω (24VDC, 25°C) • **Connector Terminals:** Connector 1 (MMP17R-1: Counterpart MMH17-1 manufactured by BURNDY); Connector 2 (MMP7R-1: Counterpart (MMH7-1 manufactured by BURNDY) • **Paper Feed:** Friction feed • **Printing Paper:** ***Friction Feed:*** 76mm roll paper x ø83mm • **Copy:** ***Friction Feed:*** Original + 1 copy • **Paper Feed Power:** More than 100g (Citizen recommended paper) • **Ink Ribbon:** Two Colors (Red and Black) • **Paper Feed Speed:** Approx. 18 lines/sec. • **External Dimensions (W x D x H):** ***Two colors:*** 137 x 136 x 63.5mm • **Weight:** Approx. 690g • **Operating Temperature Range:** 0°C ~ 50°C • **Reliability:** ***Printer:*** MCBF 4.0 million lines ***Head:*** 80 million characters

Description	Digi-Key Part No.	Price Each 1	Price Each 10	Citizen Part No.
76mm, 24V, 2 Color, Friction Feed	471-1044-ND	117.02	107.91	DP-614 DFC
Auto Cutter, Partial Cut	471-1074-ND	45.37	41.85	AC-134
Auto Cutter, Full Cut	471-1075-ND	45.37	41.85	AC-134F

Features:
- Cash drawer kick out
- Compatibility (ESC/POS)
- Page mode
- 112mm page width
- Bit map data registration
- 80 columns mode
- 64K input buffer
- Compact design
- High-speed line thermal printing
- Easy paper loading
- Bar-code printing

Description	Digi-Key Part No.	Price Each 1	Price Each 10	Citizen Part No.
Parallel, 120V, Ivory	471-1054-ND	427.54	394.26	IDP3240PF120V
Serial, 120V, Ivory	471-1055-ND	427.54	394.26	IDP3240RF120V

KEYSTONE

Round Clear Spacers (Non Threaded)

Materials: Brass: Nickel Plate (QQ-N-290)
• **Aluminum:** Iridite Finish (MIL-C-5541)

Clearance Hole: • .120" for #4 Screw • .140 for #6 Screw • .171 for #8 Screw

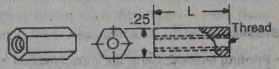
Screw (Hole)	Dim. L (Inch)	Brass Spacers Part No.	Pricing 10	Pricing 100	Aluminum Spacers Part No.	Pricing 10	Pricing 100
#4 (.120)	.125	1909K-ND	2.00	17.09	2036K-ND	1.44	10.71
	.250	1454AK-ND	2.27	19.48	3457K-ND	1.69	10.93
	.375	1454BK-ND	2.42	20.76	3458K-ND	2.01	12.98
	.500	1454CK-ND	2.90	24.65	3459K-ND	2.19	14.70
	.625	1919K-ND	3.23	27.80	2314K-ND	2.42	16.22
	.750	1454DK-ND	3.28	28.23	3460K-ND	2.72	17.52
	.875	1920K-ND	5.07	43.69	3402K-ND	3.05	21.95
	1.000	1454EK-ND	5.22	44.94	3461K-ND	3.32	22.82
	1.500	1924K-ND	11.22	70.73	3462K-ND	7.38	46.72
	2.000	1925K-ND	14.87	93.77	3463K-ND	9.79	61.75
#6 (.140)	.125	1934K-ND	2.00	17.09	3403K-ND	1.44	10.71
	.250	1457AK-ND	2.27	19.48	3464K-ND	1.69	10.93
	.375	1457BK-ND	2.42	20.76	3465K-ND	2.01	12.98
	.500	1457CK-ND	2.90	24.65	3466K-ND	2.19	14.70
	.625	1935K-ND	3.23	27.80	3429K-ND	2.42	16.22
	.750	1457DK-ND	3.28	28.23	3467K-ND	2.72	17.52
	.875	1936K-ND	5.07	43.69	3438K-ND	3.05	21.95
	1.000	1457EK-ND	5.22	44.94	3468K-ND	3.32	22.82
	1.500	1937K-ND	11.22	70.73	3469K-ND	7.38	46.72
	2.000	1938K-ND	14.79	93.65	3470K-ND	9.79	61.75
#8 (.171)	.125	1942K-ND	2.00	17.09	4258K-ND	1.44	10.71
	.250	1480K-ND	2.27	19.48	3471K-ND	1.69	10.93
	.375	1481K-ND	2.42	20.76	3472K-ND	2.01	12.98
	.500	1482K-ND	2.90	24.65	3473K-ND	2.19	14.70
	.625	2032K-ND	3.23	27.80	4259K-ND	2.42	16.22
	.750	1483K-ND	3.28	28.23	3474K-ND	2.72	17.52
	.875	2033K-ND	5.07	43.69	4260K-ND	3.05	21.95
	1.000	1484K-ND	5.22	44.77	3475K-ND	3.32	22.82
	1.500	2034K-ND	11.22	70.73	3476K-ND	7.38	46.72
	2.000	2035K-ND	14.79	93.65	3477K-ND	9.79	61.75

Round Spacer Kits

Brass Nickel Plated - Assortment of 1500 pieces in 1/4", 3/8", 1/2", 3/4" and 1" lengths with clearance holes for #4, #6, and #8. 100 pieces of each size complete with cabinet.
SPR-13KIT-ND **$258.73**

Aluminum Iridite - Assortment of 1500 pieces in 1/4", 3/8", 1/2", 3/4" and 1" lengths with clearance holes for #4, #6, and #8. 100 pieces of each size complete with cabinet.
SPR-34KIT-ND **$243.53**

Nylon Spacers



Hex Threaded Standoffs

Material: Nylon 6/6 Economical for terminal or printed circuit board supports.

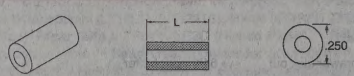
Dim. L (Inch)	4-40 Thread Part No.	6-32 Thread Part No.	8-32 Thread Part No.	Pricing 10	Pricing 100
.250	1902AK-ND	1903AK-ND	1904AK-ND	5.16	26.49
.375	1902BK-ND	1903BK-ND	1904BK-ND	5.28	27.15
.500	1902CK-ND	1903CK-ND	1904CK-ND	5.50	28.33
.625	1902FK-ND	1903FK-ND	1904FK-ND	4.79	33.52
.750	1902DK-ND	1903DK-ND	1904DK-ND	7.07	36.33
.875	1902GK-ND	1903GK-ND	1904GK-ND	5.40	37.86
1.000	1902EK-ND	1903EK-ND	1904EK-ND	7.11	36.45

Hex Threaded Standoffs - Flame Retardant

Material: Monsanto 340 FR UL 94V-0 rating

Dim. L (Inch)	4-40 Thread Part No.	6-32 Thread Part No.	8-32 Thread Part No.	Pricing 10	Pricing 100
.250	8440AK-ND	8441AK-ND	8442AK-ND	5.71	39.91
.375	8440BK-ND	8441BK-ND	8442BK-ND	5.83	40.83
.500	8440CK-ND	8441CK-ND	8442CK-ND	6.07	42.40
.625	8440DK-ND	8441DK-ND	8442DK-ND	7.24	49.85
.750	8440EK-ND	8441EK-ND	8442EK-ND	7.26	50.73
.875	8440FK-ND	8441FK-ND	8442FK-ND	7.50	52.57
1.000	8440GK-ND	8441GK-ND	8442GK-ND	7.86	54.94

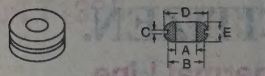
Round Thru-Hole Spacers



Material: Nylon 6/6

Dim. L (Inch)	#4 Screw .120 Hole Part No.	#6 Screw .140 Hole Part No.	#8 Screw .171 Hole Part No.	Pricing 10	Pricing 100
.125	875K-ND	883K-ND	891K-ND	.96	8.75
.250	876K-ND	884K-ND	892K-ND	1.04	9.63
.375	877K-ND	885K-ND	893K-ND	1.36	11.89
.500	878K-ND	886K-ND	894K-ND	1.44	13.19
.625	879K-ND	887K-ND	895K-ND	1.55	13.73
.750	880K-ND	888K-ND	896K-ND	1.58	14.83
.875	881K-ND	889K-ND	897K-ND	1.71	16.31
1.000	882K-ND	890K-ND	898K-ND	1.81	17.86

Rubber Grommets



I.D. A (In.)	For Hole B (Inch)	For Panel C (Inch)	Dim. (Inch) D	Dim. (Inch) E	Digi-Key Part No.	Pricing 10	Pricing 100	Pricing 500
.125	.187	.062	.312	.187	730K-ND	.92	7.39	31.68
.125	.250	.062	.343	.187	733K-ND	.83	6.68	28.62
.125	.437	.062	.625	.187	734K-ND	8.61	68.87	295.14
.125	.375	.093	.500	.312	735K-ND	3.14	25.10	107.58
.187	.312	.062	.437	.218	736K-ND	1.01	8.09	34.68
.187	.312	.062	.437	.218	731K-ND	1.01	8.09	34.68
.187	.281	.093	.437	.218	737K-ND	2.41	19.31	82.74
.250	.437	.062	.625	.187	738K-ND	2.50	20.02	85.80
.250	.375	.062	.562	.250	739K-ND	1.27	10.18	43.62
.250	.375	.093	.500	.250	740K-ND	2.16	17.29	74.10
.312	.562	.062	.812	.312	741K-ND	4.50	35.99	154.26
.312	.437	.062	.625	.281	742K-ND	1.75	14.03	60.12
.312	.437	.093	.625	.312	743K-ND	2.68	21.46	91.98
.375	.625	.062	.875	.312	744K-ND	4.84	38.68	165.78
.375	.500	.062	.625	.250	745K-ND	1.38	11.03	47.28
.437	.562	.062	.750	.250	732K-ND	1.81	14.45	61.92
.437	.687	.062	.937	.312	746K-ND	5.34	42.70	183.00
.500	.812	.062	1.062	.312	747K-ND	5.58	44.60	191.16
.500	1.250	.062	1.500	.25	748K-ND	6.80	54.36	232.98
.500	.750	.093	.968	.281	749K-ND	2.02	16.17	69.30
.562	.812	.062	1.062	.312	750K-ND	6.56	52.51	225.06
.625	.875	.062	1.125	.312	752K-ND	3.75	30.00	128.58
.625	1.250	.062	1.500	.250	753K-ND	9.86	78.90	338.16
.750	1.062	.062	1.375	.375	755K-ND	10.06	80.46	344.82
.750	1.437	.062	1.812	.375	756K-ND	24.38	195.02	835.80
.875	1.250	.062	1.625	.437	757K-ND	15.38	123.05	527.34

Threaded Mounting Brackets

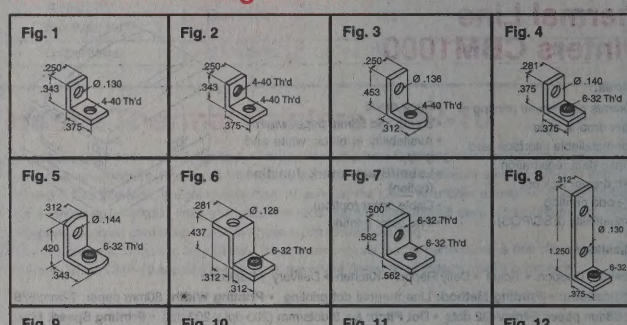
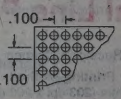


Fig.	Description	Digi-Key Part No.	Pricing 10	Pricing 100
1	.062 Steel, Zinc Plate	612K-ND	1.60	12.62
2	.062 Steel, Zinc Plate	621K-ND	2.07	16.27
3	.047 Brass, Tin Plate	616K-ND	3.64	28.66
4	.032 Brass, Nickel Plate	634K-ND	3.84	30.28
5	.032 Brass, Tin Plate	614K-ND	1.83	14.44
6	.032 Brass, Tin Plate	630K-ND	7.70	60.67
7	.062 Steel, Nickel Plate	4334K-ND	8.20	64.60
8	.062 Steel, Nickel Plate	708K-ND	6.31	49.75
9	.062 Steel, Tin Plate	617K-ND	3.59	28.25
10	.062 Brass, Nickel Plate	4332K-ND	5.88	46.31
10	.062 Brass, Nickel Plate	4333K-ND	5.88	46.31
11	.037 Brass, Tin Plate	611K-ND	4.00	31.55
12	.037 Steel, Tin Plate	631K-ND	3.51	27.66

Prepunched Insulating Boards



Dim. - Inch Width	Length	Digi-Key Part No.	Pricing 1	Pricing 10	Keystone Part No.
Perfboard — Holes .042" (1.07mm) Dia., Glass Epoxy					
2.00	4.50	3405K-ND	2.84	23.57	3405
2.00	6.00	3406K-ND	3.72	30.88	3406
2.75	17.00	3407K-ND	11.16	92.63	3407
3.00	4.50	3408K-ND	3.88	32.20	3408
4.50	6.00	3409K-ND	5.44	45.15	3409
4.50	6.50	3410K-ND	6.30	52.29	3410
4.50	8.50	3411K-ND	6.82	56.61	3411
4.50	17.00	3412K-ND	15.32	127.16	3412
6.00	17.00	3413K-ND	20.62	171.15	3413

J

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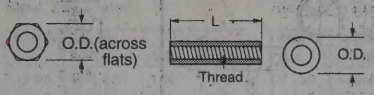
EYSTONE

hreaded Standoffs

ass: ASTM-B16
ating: Zinc (ASTM B633)
uminum: QQ-A-225/3, Alloy 2011-T3
ating: Clear Iridite (Mil-C-5541



e: Spacers over 1.000 long are tapped .375 deep each end.

read	O.D.	"L" Length (inch)	Hex Thread Part No.	Pricing 10	100	Round Thread Part No.	Pricing 10	100
			Aluminum Iridite Finish					
2-56	.156	.187	1797AK-ND	3.98	37.08	1801AK-ND	4.05	34.83
		.250	1797BK-ND	4.27	39.81	1801BK-ND	4.00	34.60
		.312	1797CK-ND	4.44	41.42	1801CK-ND	4.33	37.42
		.375	1797DK-ND	3.37	31.47	1801DK-ND	5.01	43.15
4-40	.187	.250	1891K-ND	2.28	16.66	2025K-ND	2.26	16.22
		.375	1892K-ND	2.68	19.37	2026K-ND	2.61	19.14
		.500	1893K-ND	2.95	22.60	2027K-ND	2.88	20.87
		.625	1894K-ND	3.47	24.55	2028K-ND	3.40	22.82
		.750	1895K-ND	3.85	27.59	2029K-ND	3.79	26.50
		.875	1896K-ND	4.23	30.50	2030K-ND	4.16	28.56
		1.000	1897K-ND	4.64	39.91	2031K-ND	4.64	39.91
4-40	.250	.250	2201K-ND	2.21	16.34	3478K-ND	2.00	14.06
		.375	2202K-ND	2.47	17.95	3479K-ND	2.22	16.33
		.500	2203K-ND	2.73	19.90	3480K-ND	2.49	17.62
		.625	1808K-ND	2.95	21.84	1839K-ND	2.70	25.95
		.750	2204K-ND	3.33	23.80	3481K-ND	3.04	21.85
		.875	1809K-ND	4.11	32.88	1846K-ND	3.74	32.13
		1.000	2205K-ND	4.23	36.61	3482K-ND	4.13	35.57
		1.500	2206K-ND	7.21	61.97	3483K-ND	6.97	60.02
		2.000	2207K-ND	8.32	71.71	3484K-ND	8.08	69.55
6-32	.250	.250	2208K-ND	2.21	16.34	3485K-ND	2.00	14.06
		.375	2209K-ND	2.47	17.95	3486K-ND	2.22	16.33
		.500	2210K-ND	2.73	19.90	3487K-ND	2.49	17.62
		.625	1813K-ND	3.12	22.27	1847K-ND	2.96	25.52
		.750	2211K-ND	3.33	23.80	3488K-ND	3.04	21.85
		.875	1816K-ND	3.55	25.19	1848K-ND	3.33	23.91
		1.000	2212K-ND	4.23	36.61	3489K-ND	4.13	35.57
		1.250	1818K-ND	6.39	54.94	1853K-ND	6.26	53.86
		1.500	2213K-ND	7.21	61.97	3490K-ND	6.97	60.02
		1.750	1819K-ND	7.53	64.89	1855K-ND	7.40	63.81
		2.000	2214K-ND	8.32	71.71	3491K-ND	8.08	69.55
		2.250	1820K-ND	9.23	79.50	1856K-ND	8.99	77.37
		2.500	1825K-ND	10.10	87.06	1857K-ND	9.85	84.90
6-32	.250	.250	2215K-ND	2.21	16.34	3492K-ND	2.00	14.06
		.375	2216K-ND	2.47	17.95	3493K-ND	2.22	16.33
		.500	2217K-ND	2.73	19.90	3494K-ND	2.49	17.62
		.625	1827K-ND	3.02	25.94	1858K-ND	2.70	20.11
		.750	2218K-ND	3.25	27.89	3495K-ND	3.04	21.85
		.875	1828K-ND	4.04	34.71	1859K-ND	3.33	23.91
		1.000	2219K-ND	4.23	36.61	3496K-ND	4.13	35.57
		1.500	2220K-ND	7.21	61.97	3497K-ND	6.97	60.02
		2.000	2221K-ND	8.32	71.71	3498K-ND	8.08	69.55
6-32	.375	.375	1926AK-ND	3.73	32.12	2315AK-ND	5.51	50.28
		.500	1926BK-ND	3.90	33.51	2315BK-ND	6.19	53.21
		.625	1926CK-ND	5.11	43.91	2315CK-ND	6.66	57.32
		.750	1926DK-ND	5.93	51.04	2315DK-ND	7.15	61.54
		1.000	1926EK-ND	7.20	61.86	2315EK-ND	8.53	73.54
			Brass Zinc Plate					
2-56	.156	.187	1798AK-ND	4.67	43.52	1802AK-ND	4.00	34.60
		.250	1798BK-ND	3.91	36.55	1802BK-ND	4.30	37.09
		.312	1798CK-ND	6.05	56.46	1802CK-ND	4.46	38.50
		.375	1798DK-ND	5.62	52.45	1802DK-ND	4.46	38.50
4-40	.187	.250	1450K-ND	2.36	17.63	1547K-ND	2.57	16.22
		.375	1803K-ND	3.00	20.22	1864K-ND	2.96	24.55
		.500	1656K-ND	3.25	23.95	1657K-ND	3.21	23.46
		.625	1804K-ND	4.28	32.22	1865K-ND	4.26	27.69
		.750	1656AK-ND	4.46	30.61	1657AK-ND	4.34	29.85
		.875	1805K-ND	5.93	39.58	1866K-ND	5.92	38.17
		1.000	1656BK-ND	5.75	39.58	1657BK-ND	5.70	37.96
4-40	.250	.250	1450AK-ND	2.21	16.33	1547AK-ND	2.76	23.69
		.375	1450BK-ND	2.76	18.93	1547BK-ND	3.22	27.68
		.500	1450CK-ND	3.20	23.79	1547CK-ND	3.93	33.74
		.625	1829K-ND	4.68	32.12	1867K-ND	4.44	38.18
		.750	1450DK-ND	4.94	37.53	1547DK-ND	4.97	42.83
		.875	1830K-ND	5.69	39.05	1876K-ND	5.60	48.24
		1.000	1450EK-ND	5.56	37.96	1547EK-ND	6.24	53.74
		1.500	1831K-ND	11.40	98.19	1877K-ND	11.06	95.17
		2.000	1832K-ND	11.68	100.68	1878K-ND	11.30	97.33
6-32	.250	.250	1451AK-ND	2.21	16.33	1548AK-ND	2.20	15.04
		.375	1451BK-ND	2.76	18.93	1548BK-ND	2.41	17.63
		.500	1451CK-ND	3.20	23.79	1548CK-ND	3.21	22.82
		.625	1451DK-ND	4.32	32.12	1548DK-ND	3.51	30.60
		.750	1451EK-ND	4.94	37.53	1548EK-ND	4.46	36.66
		.875	1833K-ND	5.69	39.05	1879K-ND	5.33	38.06
		1.000	1635K-ND	5.56	37.96	1548FK-ND	5.12	37.31
		1.250	1636K-ND	7.24	67.55	1881K-ND	7.69	66.28
		1.500	1637K-ND	8.37	77.99	1882K-ND	11.06	95.17
		1.750	1638K-ND	10.65	99.39	1883K-ND	11.20	96.46
		2.000	1639K-ND	10.78	100.68	1884K-ND	11.30	97.33

Thread	O.D.	"L" Length (inch)	Hex Thread Part No.	Pricing 10	100	Round Thread Part No.	Pricing 10	100
6-32	.250	2.250	1642K-ND	11.00	102.68	1885K-ND	11.59	99.72
		2.500	1643K-ND	11.32	105.49	1886K-ND	11.92	102.68
8-32	.250	.250	1474AK-ND	2.21	18.23	1692AK-ND	3.04	28.34
		.375	1474BK-ND	2.76	18.93	1692BK-ND	3.19	29.85
		.500	1474CK-ND	3.20	23.79	1692CK-ND	4.06	37.91
		.625	1834K-ND	4.68	32.12	1887K-ND	5.03	43.27
		.750	1474DK-ND	4.94	37.53	1692DK-ND	5.50	51.27
		.875	1836K-ND	5.69	39.05	1888K-ND	5.70	49.25
		1.000	1474EK-ND	5.56	37.96	1692EK-ND	5.67	52.89
		1.500	1837K-ND	11.40	98.19	1889K-ND	11.06	95.17
		2.000	1838K-ND	11.68	100.68	1899K-ND	11.88	102.42
8-32	.375	.375	1452AK-ND	4.80	41.32	1549AK-ND	5.98	55.80
		.500	1452BK-ND	6.17	53.10	1549BK-ND	6.45	60.13
		.625	1452CK-ND	7.98	68.68	1549CK-ND	7.10	66.29
		.750	1452DK-ND	8.60	74.08	1549DK-ND	7.80	72.79
		1.000	1452EK-ND	11.10	95.48	1549EK-ND	9.58	89.33

1/4" Hex Threaded Standoff Kit

Brass - Assortment of 1500 in 1/4", 3/8", 1/2", 3/4" and 1" lengths with thread sizes of 4-40, 6-32 and 8-32. 100 pieces of each size complete with cabinet.
STH-14KIT-ND **$418.57**

Aluminum - Assortment of 1500 pieces in 1/4", 3/8", 1/2", 3/4" and 1" lengths with thread sizes of 4-40, 6-32 and 8-32. 100 pieces of each size complete with cabinet.
STH-22KIT-ND **$302.75**

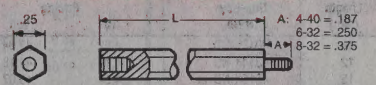
1/4" Round Threaded Standoff Kit

Brass - Assortment of 1500 pieces in 1/4", 3/8", 1/2", 3/4" and 1" lengths with thread sizes of 4-40, 6-32 and 8-32. 100 pieces of each size complete with cabinet.
STR-15KIT-ND **$380.49**

Aluminum - Assortment of 1500 pieces in 1/4", 3/8", 1/2", 3/4" and 1" lengths with thread sizes of 4-40, 6-32 and 8-32. 100 pieces of each size complete with cabinet.
STR-35KIT-ND **$296.82**

Male/Female .250" Hex Threaded Standoffs

- **Brass:** ASTM-B16
- **Plating:** Nickel (QQ-N-290)
- **Aluminum:** QQ-Q-225/3
- **Plating:** Clear Iridite (Mil-C-5541)



Length (Inch)	4-40 Thread Part No.	Pricing 10	100	6-32 Thread Part No.	Pricing 10	100	8-32 Thread Part No.	Pricing 10	100
				Aluminum (Iridite MIL-C-5441)					
.250	8714K-ND*	2.56	21.74	8717K-ND*	2.62	15.26	—	—	—
.375	8400K-ND†	2.91	24.66	8413K-ND†	3.01	25.62	8426K-ND†	3.68	33.75
.500	8401K-ND	4.05	34.50	8414K-ND	3.05	25.84	8427K-ND	3.74	34.50
.625	8402K-ND	4.36	36.98	8415K-ND	3.85	32.67	8428K-ND	4.03	36.98
.750	8403K-ND	4.43	37.64	8416K-ND	3.88	32.99	8429K-ND	4.28	39.42
.875	8404K-ND	4.81	40.88	8417K-ND	4.22	35.91	8430K-ND	4.76	43.80
1.000	8405K-ND	5.09	43.26	8418K-ND	4.43	37.64	8431K-ND	5.05	46.44
1.125	8406K-ND	6.23	52.89	8419K-ND	4.57	38.83	8432K-ND	6.77	63.27
1.250	8407K-ND	6.30	53.53	8420K-ND	4.88	41.42	8433K-ND	7.02	65.44
1.375	8408K-ND	7.38	63.59	8421K-ND	5.54	47.03	8434K-ND	7.57	70.62
1.500	8409K-ND	7.55	64.99	8422K-ND	6.33	53.86	8435K-ND	7.65	71.37
1.625	8410K-ND	7.77	66.96	8423K-ND	6.44	54.62	8436K-ND	7.73	72.02
1.750	8411K-ND	7.94	68.36	8424K-ND	6.75	57.32	8437K-ND	7.81	72.89
2.000	8412K-ND	8.20	70.62	8425K-ND	6.89	58.61	8438K-ND	7.89	73.66
				Brass					
.250	8713K-ND*	2.75	25.31	8716K-ND*	2.68	24.66	—	—	—
.375	7200K-ND†	3.03	27.90	7210K-ND†	3.13	28.87	7220K-ND†	3.64	33.42
.500	1944K-ND	4.29	36.50	1952K-ND	3.71	31.47	1957K-ND	3.98	33.75
.625	1945K-ND	4.36	36.98	1953K-ND	4.71	39.90	1958K-ND	5.54	47.03
.750	1946K-ND	5.19	44.13	1954K-ND	4.95	42.06	1959K-ND	5.82	49.52
.875	7201K-ND	4.86	44.67	7211K-ND	5.24	48.23	7221K-ND	5.88	54.08
1.000	1947K-ND	5.82	49.52	1644K-ND	5.40	49.75	1960K-ND	6.68	56.78
1.125	7202K-ND	5.81	53.53	7212K-ND	5.75	52.89	7222K-ND	6.62	61.64
1.250	1948K-ND	8.93	77.00	1955K-ND	7.37	62.62	1961K-ND	8.93	77.00
1.375	1949K-ND	9.15	78.78	1956K-ND	8.00	67.91	1962K-ND	9.15	78.78
1.500	1950K-ND	9.58	82.51	1645K-ND	7.47	68.78	1963K-ND	9.58	82.51
1.625	7203K-ND	8.93	83.27	7214K-ND	8.93	83.27	7224K-ND	8.93	83.27
1.750	7205K-ND	9.96	93.00	7215K-ND	9.96	93.00	7225K-ND	9.96	93.00
2.000	1951K-ND	10.88	93.67	1646K-ND	10.04	93.67	1964K-ND	10.88	93.67
.600	8799K-ND‡	4.33	36.80	—	—	—	—	—	—
				Nylon 6/6					
.250	4800K-ND	3.22	25.75	4814K-ND*	3.22	25.75	4828K-ND*	3.68	25.75
.375	4801K-ND	3.28	26.28	4815K-ND	3.28	26.28	4829K-ND†	3.75	26.28
.500	4802K-ND	3.41	27.25	4816K-ND	3.41	27.25	4830K-ND	3.90	27.25
.625	4803K-ND	3.48	27.80	4817K-ND	3.48	27.80	4831K-ND	3.98	27.80
.750	4804K-ND	3.55	28.34	4818K-ND	3.55	28.34	4832K-ND	4.06	28.34
.875	4805K-ND	3.61	28.87	4819K-ND	3.61	28.87	4833K-ND	4.13	28.87
1.000	4806K-ND	3.68	29.41	4820K-ND	3.68	29.41	4834K-ND	4.20	29.41
1.125	4807K-ND	3.72	29.74	4821K-ND	3.72	29.74	4835K-ND	4.25	29.74
1.250	4808K-ND	3.75	29.95	4822K-ND	3.75	29.95	4836K-ND	4.28	29.95
1.375	4809K-ND	3.81	30.50	4823K-ND	3.81	30.50	4837K-ND	4.36	30.50
1.500	4810K-ND	3.88	30.93	4824K-ND	3.88	30.93	4838K-ND	4.43	30.93
1.625	4811K-ND	3.94	31.57	4825K-ND	3.94	31.57	4839K-ND	4.51	31.57
1.750	4812K-ND	4.01	32.12	4826K-ND	4.01	32.12	4840K-ND	4.59	32.12
2.000	4813K-ND	4.08	32.67	4827K-ND	4.08	32.67	4841K-ND	4.66	32.67
.600	4799K-ND‡	3.20	27.24	—	—	—	—	—	—

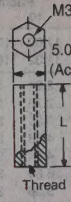
* Internal Thread .130/.150 deep † Internal Thread .250 deep ‡ PC/104 and PC/104 Plus

Hex Brass Standoff Kit Assortment of 750 in 1/2", 3/4", 1", 1-1/4", and 1-1/2" lengths with thread sizes of 4-40, 6-32 and 8-32. 50 pieces of each size complete with cabinet.
STH-19KIT-ND **$380.49**

J

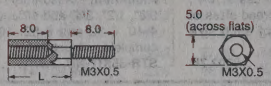
KEYSTONE

Metric 5mm Hex Threaded Standoffs



"L" Length (mm)	Digi-Key Part No.	Pricing 10	100
5	4390K-ND	3.03	28.33
10	4391K-ND	3.59	33.52
15	4392K-ND	4.00	37.21
20	4393K-ND	4.71	43.91
25	4394K-ND	5.16	48.23

Metric Male/Female 5mm Hex Threaded Standoffs

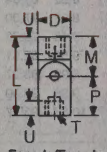


"L" Length (mm)	Digi-Key Part No.	Pricing 10	100
10	4313K-ND	4.62	43.04
12	4314K-ND	4.74	44.13
15	4315K-ND	4.94	46.07
18	4316K-ND	5.34	49.86
20	4317K-ND	5.49	51.25
25	4318K-ND	6.05	56.45

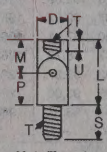
Ceramic Standoffs

Thread	O.D.	"L" Length (Inch)	D (2) Depth	Digi-Key Part No.	Pricing 10	100
6-32	.250	.250	thru	7710K-ND	20.30	139.05
	.250	.500	.156	7711K-ND	23.07	155.50
	.375	.375	.156	7712K-ND	19.22	130.83
	.375	.500	.187	7713K-ND	19.77	135.10
	.500	.500	.140	7714K-ND	21.44	147.33
	.500	.750	.250	7715K-ND	22.53	155.54
	.500	1.000	.375	7716K-ND	24.15	163.61
	.500	1.500	.562	7717K-ND	28.55	196.32
	.500	2.500	.500	7718K-ND	36.80	249.56
1/4-20	.750	2.500	.750	7719K-ND	51.27	355.82
	.750	4.000	.750	7720K-ND	61.91	429.51

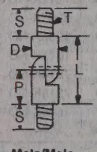
Hinged Standoffs



Female/Female



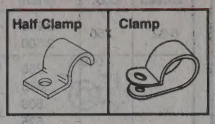
Male/Female

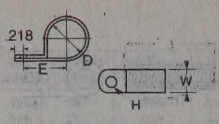


Male/Male

T Thread	D Dia. (in.)	Dimensions (Inch) L	S	U	M	P	Digi-Key Part No.	Pricing 10	100
Female/Female Hinge									
4-40	.187	.750	—	.172	.375	.375	351K-ND	7.21	58.94
4-40	.187	1.000	—	.250	.375	.625	352K-ND	7.69	62.84
6-32	.250	.750	—	.172	.375	.375	353K-ND	10.29	83.93
6-32	.250	1.000	—	.250	.375	.625	354K-ND	10.51	85.87
8-32	.250	.750	—	.172	.375	.375	355K-ND	9.30	76.14
8-32	.250	1.000	—	.250	.375	.625	356K-ND	9.79	80.03
Male/Female Hinge									
4-40	.187	.625	.250	.172	.375	.250	333K-ND	8.46	69.10
4-40	.187	.875	.250	.250	.625	.250	334K-ND	8.93	72.89
6-32	.250	.625	.312	.172	.375	.250	335K-ND	10.18	83.17
6-32	.250	.875	.312	.250	.625	.250	336K-ND	10.40	85.00
Male/Male Hinge									
4-40	.187	.500	.250	—	—	.250	357K-ND	9.70	79.38
6-32	.250	.500	.312	—	—	.250	358K-ND	10.07	82.19
8-32	.250	.500	.312	—	—	.250	359K-ND	11.30	92.25

Metal Cable Clamps

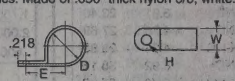




D	Dimensions – Inch E	W	H	Digi-Key Part No.	Pricing 10	100
Steel Half Clamps						
.125	.250	.500	.218	8140K-ND	1.20	9.63
.187	.250	.500	.218	8141K-ND	1.26	10.38
.250	.250	.500	.218	8142K-ND	1.35	10.81
.312	.250	.500	.218	8143K-ND	1.45	11.69
.375	.312	.625	.218	8144K-ND	1.70	13.52
.437	.312	.625	.218	8145K-ND	1.79	14.28
.500	.312	.625	.218	8146K-ND	2.23	17.84
.562	.312	.625	.218	8147K-ND	2.29	18.32
.625	.312	.625	.218	8148K-ND	2.40	19.25
.687	.312	.625	.218	8149K-ND	2.46	19.69
.750	.312	.625	.218	8150K-ND	2.56	20.44
.812	.312	.625	.218	8151K-ND	2.65	21.30
.875	.375	.750	.281	8152K-ND	2.90	23.15
.937	.437	.750	.281	8153K-ND	3.00	24.13
1.000	.437	.750	.281	8154K-ND	3.12	24.87
Insulated Steel Half Clamps						
.187	.250	.500	.218	8160K-ND	3.24	25.62
.250	.250	.500	.218	8161K-ND	3.67	28.98
.312	.312	.625	.218	8162K-ND	4.16	32.77
.375	.312	.625	.218	8163K-ND	4.35	34.28
.437	.312	.625	.218	8164K-ND	4.90	38.61
.500	.312	.625	.218	8165K-ND	3.60	28.44
.562	.312	.625	.218	8166K-ND	3.73	29.41
.625	.312	.625	.218	8167K-ND	3.82	30.29
.687	.312	.625	.218	8168K-ND	3.96	31.26
.750	.312	.625	.218	8169K-ND	4.31	34.06
.812	.375	.750	.281	8170K-ND	5.44	42.83
.875	.437	.750	.281	8171K-ND	5.64	44.45
.937	.437	.750	.281	8172K-ND	6.64	52.34
1.000	.437	.750	.281	8173K-ND	6.26	49.42
Steel Clamps						
.187	.218	.500	.203	8100K-ND	1.43	11.31
.250	.218	.500	.203	8101K-ND	1.48	11.88
.312	.218	.500	.203	8102K-ND	1.54	12.32
.375	.218	.500	.203	8103K-ND	1.60	12.87
.437	.218	.500	.203	8104K-ND	1.67	13.40
.500	.218	.500	.203	8105K-ND	1.75	14.01
.562	.218	.500	.203	8106K-ND	1.84	14.81
.625	.218	.500	.203	8107K-ND	1.90	15.25
.687	.218	.500	.203	8108K-ND	1.97	15.79
.750	.218	.500	.203	8109K-ND	2.03	16.22
.812	.218	.500	.203	8110K-ND	2.09	16.65
.875	.218	.500	.203	8111K-ND	2.16	17.30
.937	.218	.500	.203	8112KS-ND	2.24	17.95
1.000	.218	.500	.203	8113K-ND	2.29	18.37
Insulated Steel Clamps						
.187	.218	.500	.203	8121K-ND	2.78	22.18
.250	.218	.500	.203	8122K-ND	2.86	22.92
.312	.218	.500	.203	8123K-ND	2.98	23.95
.375	.218	.500	.203	8124KS-ND	3.07	24.56
.437	.218	.500	.203	8125K-ND	3.19	25.73
.500	.218	.500	.203	8126K-ND	3.31	26.49
.562	.218	.500	.203	8127K-ND	3.43	27.57
.625	.218	.500	.203	8128K-ND	3.54	28.22
.687	.218	.500	.203	8129K-ND	3.63	29.09
.750	.218	.500	.203	8130K-ND	3.75	30.06
.812	.218	.500	.203	8131K-ND	3.84	30.72
.875	.218	.500	.203	8132K-ND	3.96	31.70
.937	.218	.500	.203	8133K-ND	4.07	32.34
1.000	.218	.500	.203	8134K-ND	4.17	33.41

Nylon Cable Clamps

Ideal for securing, insulating and routing cable wiring, piping, tubing, components and fibre optics. Made of .050" thick nylon 6/6, white.



D	Dimensions – Inch E	W	H	Digi-Key Part No.	Pricing 100	500	1,000
.125	.325	.375	.140	7620K-ND	4.33	18.93	21.74
.125	.325	.375	.203	7621K-ND	4.33	18.93	21.74
.187	.380	.375	.140	7622K-ND	4.43	19.45	22.04
.187	.380	.375	.203	7623K-ND	4.43	19.45	22.04
.250	.410	.375	.140	7624K-ND	4.54	19.47	22.82
.250	.410	.375	.203	7625K-ND	4.54	19.47	22.82
.312	.445	.375	.140	7626K-ND	4.54	20.01	23.36
.312	.445	.375	.203	7627K-ND	4.54	20.01	23.36
.375	.475	.375	.140	7628K-ND	4.87	20.84	25.12
.375	.475	.375	.203	7629K-ND	4.87	20.84	25.12
.437	.525	.375	.140	7630K-ND	5.20	22.19	26.08
.437	.525	.375	.203	7631K-ND	5.20	22.19	26.08
.500	.550	.375	.140	7632K-ND	5.18	22.68	26.68
.500	.550	.375	.203	7633K-ND	5.18	22.68	26.68
.562	.625	.500	.203	7634K-ND	8.12	34.91	41.02
.625	.660	.500	.203	7635K-ND	8.66	36.25	43.07
.750	.785	.500	.203	7636K-ND	9.62	41.08	49.40
.875	.845	.500	.203	7637K-ND	10.48	44.30	52.62
1.000	.910	.500	.203	7638K-ND	10.81	45.96	55.05
1.125	.970	.500	.203	7639K-ND	15.47	65.43	77.54
1.125	1.060	.500	.203	7640K-ND	16.55	70.57	84.25

Recessed Bumpers

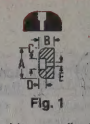


Fig. 1

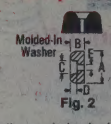


Fig. 2

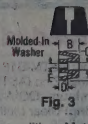


Fig. 3

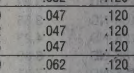
Provides excellent traction and shock absorbing qualities. Mat Rubber, BUNA S, (fig. 1 & 2) Vinyl, (fig. 3).

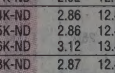
Fig.	A	Dimensions (Inch) B	C	D	E	Screw Size	Digi-Key Part No.	Pric 10
1	.500	.250	.250	.125	.125	#4	720K-ND	1.61
1	.625	.312	.250	.187	.125	#4	721K-ND	2.56
1	.718	.437	.250	.218	.125	#4	722K-ND	5.12
2	.937	.375	.375	.187	.187	#8	723K-ND	4.91
3	.687	.250	.343	.125	.155	#6	724K-ND*	3.78
3	.875	.312	.406	.187	.187	#8	725K-ND*	6.97
3	1.062	.437	.468	.234	.200	#10	726K-ND*	8.69
3	.562	.375	.218	.187	.115	#4	727K-ND	4.57
3	.750	.437	.265	.250	.148	#6	728K-ND	5.15
3	.937	.625	.359	.297	.174	#8	729K-ND	7.62

* Gray — all others black.

Flat Washers

Fibre: Commercial per MIL-F-1148A, Grade CH Nylon: Grade 6 ASTM D4066





A O.D.	Dimensions – Inch B Thick	C I.D.	Digi-Key Part No.	Pricing 100	500
Fibre Material — #4 Screw Size					
.250	.032	.120	3116K-ND	2.86	12.40
.312	.032	.120	348K-ND	2.87	12.45
.375	.032	.120	3117K-ND	2.92	12.43
.250	.047	.120	3154K-ND	2.86	12.42
.312	.047	.120	3155K-ND	2.86	12.41
.375	.047	.120	3156K-ND	3.12	13.45
.250	.062	.120	3368K-ND	2.87	12.47
.312	.062	.120	3196K-ND	2.87	12.46
.375	.062	.120	3197K-ND	2.93	12.47
Nylon Material — #4 Screw Size					
.250	.032	.120	3348K-ND	2.76	11.89
.312	.032	.120	3359K-ND	3.25	14.06
.375	.032	.120	3118K-ND	3.46	15.14
.250	.047	.120	345K-ND	3.25	13.81
.312	.047	.120	3157K-ND	2.81	11.87
.375	.047	.120	3158K-ND	2.81	11.89
.250	.062	.120	3358K-ND	2.81	11.89
.312	.062	.120	3198K-ND	3.24	14.06
.375	.062	.120	3200K-ND	3.25	13.80
Fibre Material — #6 Screw Size					
.250	.032	.140	3119K-ND	2.86	12.40
.312	.032	.140	3120K-ND	2.87	12.45
.375	.032	.140	3121K-ND	2.92	12.43
.250	.047	.140	3159K-ND	2.86	12.42
.312	.047	.140	3160K-ND	2.86	12.41
.375	.047	.140	3161K-ND	3.12	13.45
.250	.062	.140	3369K-ND	2.87	12.47
.312	.062	.140	3370K-ND	2.85	12.39
.375	.062	.140	3201K-ND	2.93	12.47
Nylon Material — #6 Screw Size					
.250	.032	.140	3122K-ND	2.76	11.89
.312	.032	.140	3349K-ND	2.76	11.89
.375	.032	.140	3123K-ND	3.46	15.14
.250	.047	.140	3162K-ND	2.76	11.92
.312	.047	.140	346K-ND	3.45	14.57
.375	.047	.140	3163K-ND	2.81	11.89
.250	.062	.140	3360K-ND	2.76	11.89
.312	.062	.140	3361K-ND	3.24	14.06
.375	.062	.140	3202K-ND	3.25	13.80

Nylon Shoulder Washers/Bushings

Material:
Nylon, Grades 6/6 per ASTM D4066

L	Dimensions – Inch A	B	C	D	Digi-Key Part No.	Pric 100
#4 Screw Size						
.031	.218	.040	.115	.135	3049K-ND	4.00
.047	.250	.032	.115	.185	7681K-ND	5.18
.093	.235	.047	.115	.145	3053K-ND	7.57
.125	.235	.047	.115	.145	3102K-ND	7.57
.18	.235	.047	.115	.145	3103K-ND	7.57
.250	.235	.047	.115	.145	340K-ND	8.49
#6 Screw Size						
.032	.385	.062	.145	.240	7682K-ND	5.94
.032	.250	.062	.140	.187	7683K-ND	4.98
.032	.312	.062	.140	.187	7684K-ND	5.52
.125	.290	.047	.140	.170	3054K-ND	7.57
.187	.290	.047	.140	.170	3104K-ND	7.90
.250	.290	.047	.140	.170	341K-ND	8.49
.500	.290	.047	.140	.170	3055K-ND	8.66

More Product Available Online: www.digikey.com
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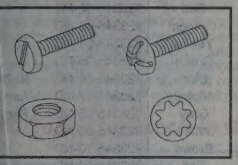
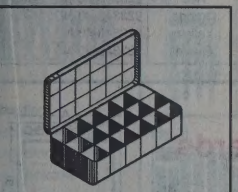
BUILDING FASTENERS





Digi-Key® Electronic Hardware Kits come complete with a divided plastic box for easy storage.

Phillips Panhead Sheet Metal Screws

Steel, Zinc Plated

Description	Digi-Key Part No.	Pricing 100	1,000
4 x 3/8	H800-ND	1.56	12.48
4 x 1/2	H801-ND	2.40	19.20
4 x 3/4	H802-ND	2.55	20.40
6 x 3/8	H803-ND	1.85	14.78
6 x 1/2	H804-ND	2.46	19.68
6 x 3/4	H805-ND	2.60	20.83
8 x 3/8	H806-ND	2.10	16.80
8 x1/2	H807-ND	2.76	22.08
8 x 3/4	H808-ND	4.41	35.28

Hex Head Sheet Metal Screws

Steel, Zinc Plated

Description	Digi-Key Part No.	Pricing 100	1,000
4 x 3/8	H809-ND	9.72	77.76
4 x 1/2	H810-ND	10.73	85.87
4 x 3/4	H811-ND	13.38	107.04
6 x 3/8	H812-ND	5.58	44.64
6 x 1/2	H813-ND	7.60	60.82
6 x 3/4	H814-ND	9.54	76.32
8 x 3/8	H815-ND	7.84	62.74
8 x1/2	H816-ND	8.16	65.28
8 x 3/4	H817-ND	9.95	79.63

Phillips Panhead Machine Screws

Steel, Zinc Plated

Description	Digi-Key Part No.	Pricing 100	1,000
2-56 x 1/4	H330-ND†	6.39	51.12
2-56 x 1/2	H334-ND†	4.64	37.15
2-56 x 3/4	H338-ND	8.62	68.93
4-40 x 1/4	H342-ND†	2.98	23.81
4-40 x 5/16	H343-ND	1.92	15.36
4-40 x 3/8	H781-ND	1.62	12.96
4-40 x 1/2	H346-ND†	1.37	10.99
4-40 x 5/8	H348-ND	2.28	18.24
4-40 x 3/4	H350-ND	2.13	17.04
6-32 x 1/4	H354-ND†	1.92	15.36
6-32 x 5/16	H355-ND	2.10	16.80
6-32 x 3/8	H356-ND♦	2.22	17.76
6-32 x 7/16	H357-ND	4.74	37.92
6-32 x 1/2	H360-ND†	2.28	18.24
6-32 x 5/8	H364-ND♦	2.34	18.72
6-32 x 3/4	H368-ND♦	2.37	18.96
6-32 x 1	H372-ND♦	2.63	21.07
8-32 x 1/4	H376-ND	2.01	16.08
8-32 x 3/8	H380-ND†	2.15	17.23
8-32 x 1/2	H384-ND♦	2.85	22.80
8-32 x 5/8	H388-ND†	2.94	23.52
8-32 x 3/4	H392-ND♦	2.97	23.76
8-32 x 1	H396-ND♦	3.23	25.87
10-32 x 1/2	H400-ND♦	3.75	30.00
10-32 x 3/4	H404-ND♦	4.06	32.45
10-32 x 1	H408-ND♦	5.48	43.87

Slotted Panhead Machine Screws

Steel, Zinc Plated

Description	Digi-Key Part No.	Pricing 100	1,000
2-56 x 1/4	H130-ND★	8.18	65.42
2-56 x 1/2	H134-ND★	4.64	37.15
2-56 x 3/4	H138-ND	11.23	89.86
4-36 x 1/2	H140-ND	2.40	19.20
4-40 x 1/4	H142-ND★	2.27	18.14
4-40 x 5/16	H143-ND	1.89	15.12
4-40 x 1/2	H146-ND★	1.37	10.99
4-40 x 5/8	H148-ND	1.52	12.14
4-40 x 3/4	H150-ND	1.68	13.44
6-32 x 1/4	H154-ND★	1.48	11.81
6-32 x 5/16	H155-ND	1.54	12.34
6-32 x 3/8	H156-ND§	1.59	12.72
6-32 x 7/16	H157-ND	1.65	13.20
6-32 x 1/2	H160-ND★	1.69	13.54
6-32 x 5/8	H164-ND§	2.58	20.64
6-32 x 3/4	H168-ND§	1.95	15.60
6-32 x 1	H172-ND§	2.29	18.34
8-32 x 1/4	H176-ND	2.01	16.08
8-32 x 3/8	H180-ND★	2.15	17.23
8-32 x 1/2	H184-ND§	2.27	18.19
8-32 x 5/8	H188-ND★	2.50	19.97
8-32 x 3/4	H192-ND§	2.71	21.70
8-32 x 1	H196-ND§	3.23	25.87
10-32 x 1/2	H200-ND§	3.30	26.40
10-32 x 3/4	H204-ND§	4.06	32.45
10-32 x 1	H208-ND§	5.48	43.87

Digi-Key® Zinc Plated Hardware Kits

Sizes #2, #4, #6, and #8. 1600 pieces total. 100 pieces each of the following:
★**1600-KIT-ND** (Slotted) . . . **$17.95**
†**1602-KIT-ND** (Phillips) . . . **$17.95**

Sizes #6, #8, and #10. 1600 pieces total. 100 pieces each of the following:
§**1601-KIT-ND** (Slotted) **$27.95**
♦**1603-KIT-ND** (Phillips) **$27.78**

Phillips Nylon Machine Screws

Nylon 66 - Melting Point is 500°F (260°C)

Description	Digi-Key Part No.	Pricing 100	1,000
2-56 x 1/4	H530-ND	8.86	70.90
2-56 x 1/2	H534-ND♦	9.10	72.82
2-56 x 3/4	H538-ND	9.26	74.11
4-40 x 1/4	H542-ND♦	8.86	70.90
4-40 x 3/8	H544-ND♦	9.00	72.00
4-40 x 1/2	H546-ND♦	9.10	72.82
4-40 x 5/8	H548-ND	9.19	73.54
4-40 x 3/4	H550-ND♦	9.26	74.11
6-32 x 1/4	H554-ND♦	9.26	74.11
6-32 x 3/8	H556-ND	9.43	75.46
6-32 x 1/2	H560-ND♦	9.51	76.08
6-32 x 5/8	H564-ND	9.57	76.56
6-32 x 3/4	H568-ND	9.59	76.75
6-32 x 1	H572-ND	9.66	77.28
8-32 x 1/4	H576-ND♦	9.17	73.34
8-32 x 3/8	H580-ND	9.24	73.92
8-32 x 1/2	H584-ND	9.04	72.34
8-32 x 5/8	H588-ND	9.46	75.70
8-32 x 3/4	H592-ND	9.42	75.36
8-32 x 1	H596-ND♦	9.46	75.65
10-32 x 1/2	H600-ND	10.19	81.55
10-32 x 3/4	H604-ND	10.20	81.60
10-32 x 1	H608-ND♦	10.38	83.04

Description	Digi-Key Part No.	Pricing 100	1,000
Nylon Hex Nuts			
2-56	H612-ND♦	10.55	84.38
4-40	H616-ND♦	10.50	84.00
6-32	H620-ND♦	10.80	86.40
8-32	H624-ND♦	11.06	88.46
10-32	H628-ND♦	11.30	90.43

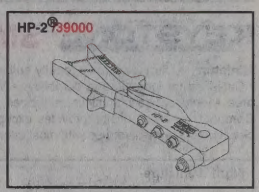
Digi-Key® Nylon Hardware Kits

Sizes #2, #4, #6, #8 and #10. 1500 pieces total. 100 pieces each of the following:
♦**1604-KIT-ND** (Phillips) **$53.94**

Rivets

Description	Digi-Key Part No.	Pricing 100	1,000
Aluminum Rivets			
3/32 x .250	H251-ND	7.56	60.48
3/32 x .375	H252-ND	7.60	60.80
1/8 x .212	H253-ND	6.15	49.20
1/8 x .275	H254-ND	4.65	37.20
1/8 x .337	H255-ND	5.03	40.20
1/8 x .400	H256-ND	5.18	41.40
1/8 x .462	H257-ND	8.40	67.20
1/8 x .650	H258-ND	10.28	82.20
Aluminum Large Flange Rivets			
1/8 x .275	H260-ND	8.65	69.20
1/8 x .400	H261-ND	9.00	72.00
1/8 x .525	H262-ND	11.00	88.00
Steel Rivets			
3/32 x .250	H263-ND	8.73	69.80
3/32 x .375	H264-ND	9.00	72.00
1/8 x .212	H265-ND	4.14	33.08
1/8 x .275	H266-ND	4.64	37.12
1/8 x .337	H267-ND	5.22	41.76
1/8 x .400	H268-ND	5.30	42.36
1/8 x .526	H269-ND	7.98	63.80
Steel Large Flange Rivets			
1/8 x .275	H270-ND	8.93	71.40
1/8 x .400	H271-ND	9.21	73.68
1/8 x .525	H272-ND	11.25	90.00

Hand Rivet Tools



The HP-2 is the largest selling hand rivet tool in the industry. Its square shoulder fulcrum pin of cold-formed heat-treated steel prevents pin rotation that can elongate the engaging holes and cause premature tool failure in imitation tools. The HP-2 hand rivet tool sets up to 3/16" steel rivets and comes with four mounted nosepieces (3/32", 1/8", 5/32" and 3/16") and a service wrench.

H1001-ND **$37.70**

200 Kit™39001

The deluxe hand riveter kit includes the HP-2 and 200 assorted Klik-Fast rivets in popular sizes.

H1002-ND **$68.12**

nc Plated Nuts nd Washers

escrip-on	Digi-Key Part No.	Pricing 100	1,000
Hex Nuts			
o. 2 - 56	H212-ND†★	1.31	10.51
o. 4 - 40	H216-ND†★	.93	7.44
o. 6 - 32	H220-ND♦†★§	1.44	11.52
o. 8 - 32	H224-ND♦†★§	1.95	15.60
o. 10 - 32	H228-ND♦§	1.98	15.84
Internal Tooth Lock Washers			
o. 2	H232-ND†★	7.41	59.28
o. 4	H236-ND†★	.97	7.78
o. 6	H240-ND♦†★§	1.13	9.07
o. 8	H244-ND♦†★§	1.20	9.60
o. 10	H248-ND♦§	1.47	11.76
Flat Washers			
o. 2	H776-ND	2.70	21.60
o. 4	H777-ND	2.81	22.46
o. 6	H778-ND	.97	7.78
o. 8	H779-ND	1.30	10.37
o. 10	H780-ND	1.62	12.96

etric Phillips, anhead Machine Screws

nc Plated

escription	Digi-Key Part No.	Pricing 100	1,000
M2 x 5mm	H738-ND§	6.72	53.76
M2 x 8mm	H739-ND§	7.05	56.40
M2 x 12mm	H740-ND§	5.90	47.23
M3 x 5mm	H742-ND§	5.94	47.52
M3 x 8mm	H743-ND§	6.60	52.80
M3 x 12mm	H744-ND§	6.90	55.20
M3 x 20mm	H745-ND§	11.33	90.62
M3 x 25mm	H746-ND§	11.46	91.68
M4 x 5mm	H747-ND★	7.20	57.60
M4 x 8mm	H748-ND★	7.56	60.48
M4 x 12mm	H749-ND★	8.76	70.08
M4 x 20mm	H750-ND★	11.55	92.40
M4 x 25mm	H751-ND★	12.60	100.80
M5 x 6mm	H752-ND	10.56	84.48
M5 x 8mm	H753-ND	10.80	86.40
M5 x 12mm	H754-ND	12.60	100.80
M5 x 20mm	H755-ND	17.70	141.60
M5 x 25mm	H756-ND	18.60	148.80
M6 x 8mm	H757-ND★	20.40	163.20
M6 x 12mm	H758-ND★	21.60	172.80
M6 x 20mm	H759-ND★	25.80	206.40
M6 x 25mm	H760-ND★	27.60	220.80

Metric Nuts and Washers

Zinc Plated

Description	Digi-Key Part No.	Pricing 100	1,000
Hex Nuts			
M2 Metric Hex Nut	H761-ND§	3.60	28.80
M3 Metric Hex Nut	H762-ND§	3.84	30.72
M4 Metric Hex Nut	H763-ND★	4.20	33.60
M5 Metric Hex Nut	H764-ND	4.80	38.40
M6 Metric Hex Nut	H765-ND★	5.34	42.72
Split Lock Washers			
M2 Lock Washers	H771-ND§	5.40	43.20
M3 Lock Washers	H772-ND§	4.26	34.08
M4 Lock Washers	H773-ND★	4.74	37.92
M5 Lock Washers	H774-ND	5.34	42.72
M6 Lock Washers	H775-ND★	6.30	50.40
Flat Washers			
M2 Flat Washers	H766-ND§	3.30	26.40
M3 Flat Washers	H767-ND§	3.60	28.80
M4 Flat Washers	H768-ND★	3.66	29.28
M5 Flat Washers	H769-ND	3.75	30.00
M6 Flat Washers	H770-ND★	4.80	38.40

Digi-Key® Metric Hardware Kits

Sizes M2 and M3. Zinc Plated. 1400 pieces total. 100 pieces each of the following:
§**1605-KIT-ND** (Phillips) **$59.95**

Sizes M4 and M6. Zinc Plated. 1500 pieces total. 100 pieces each of the following:
★**1606-KIT-ND** (Phillips) **$99.95**

Phillips, Panhead Machine Screws

Stainless Steel

Description	Digi-Key Part No.	Pricing 100	1,000
2-56 x 1/4	H700-ND★	6.87	54.96
2-56 x 1/2	H701-ND★	5.28	42.24
2-56 x 3/4	H702-ND★	5.34	42.72
4-40 x 1/4	H703-ND★	4.13	33.02
4-40 x 5/16	H704-ND★	3.34	26.74
4-40 x 1/2	H705-ND★	4.05	32.40
4-40 x 3/8	H782-ND	3.60	28.80
4-40 x 5/8	H706-ND★	4.41	35.28
4-40 x 3/4	H707-ND★	6.36	50.88
6-32 x 1/4	H708-ND†	4.08	32.64
6-32 x 5/16	H709-ND	4.39	35.09
6-32 x 3/8	H710-ND	4.51	36.10
6-32 x 1/2	H711-ND†	4.77	38.16
6-32 x 5/8	H712-ND	5.52	44.16
6-32 x 3/4	H713-ND†	6.33	50.64
6-32 x 1	H714-ND	6.64	53.09
8-32 x 3/8	H715-ND†	6.16	49.25
8-32 x 1/2	H716-ND†	6.70	53.62
8-32 x 5/8	H717-ND	7.33	58.66
8-32 x 3/4	H718-ND†	9.18	73.44
8-32 x 1	H719-ND	10.56	84.48
10-32 x 1/2	H720-ND†	11.00	88.03
10-32 x 3/4	H721-ND†	12.52	100.13
10-32 x 1	H722-ND†	20.46	163.68

Stainless Steel Nuts and Washers

Description	Digi-Key Part No.	Pricing 100	1,000
Hex Nuts			
No. 2 - 56 Hex Nut	H723-ND★	4.99	39.94
No. 4 - 40 Hex Nut	H724-ND★	4.13	33.02
No. 6 - 32 Hex Nut	H725-ND†	5.57	44.54
No. 8 - 32 Hex Nut	H726-ND†	5.95	47.62
No. 10 - 32 Hex Nut	H727-ND†	6.05	48.38
Internal Tooth Lock Washers			
No. 2 Lock Washer	H728-ND★	3.55	28.42
No. 4 Lock Washer	H729-ND★	2.50	19.97
No. 6 Lock Washer	H730-ND†	2.30	18.43
No. 8 Lock Washer	H731-ND†	2.88	23.04
No. 10 Lock Washer	H732-ND†	3.07	24.58
Flat Washers			
No. 2 Flat Washer	H733-ND★	2.30	18.43
No. 4 Flat Washer	H734-ND★	3.36	26.88
No. 6 Flat Washer	H735-ND	3.66	29.28
No. 8 Flat Washer	H736-ND	3.90	31.20
No. 10 Flat Washer	H737-ND	4.74	37.92

Digi-Key® Stainless Steel Hardware Kits

Sizes #2 and #4. 1400 pieces total. 100 pieces each of the following:
★**1607-KIT-ND** (Phillips) **$39.95**

Sizes #6, #8, and #10. 1500 pieces total. 100 pieces each of the following:
†**1608-KIT-ND** (Phillips) **$79.95**

J

KEYSTONE PC Test Points

Features: • Color keyed for visibility and quick identification • Economical choice for PC test point terminations • Snap-fit mounting provides positive retention for wave soldering • Wire form loop for safe, non-slip testing • Space saving, ultra low and low profile designs • High profile for difficult to reach applications • Suitable for high density packaging on .062" (1.57mm) & .093" (2.36mm) PC boards • Practical replacement for wire-wrap posts and turrets • Secure grip for J hooks, EZ hooks, grabbers, alligator clips, tips or probes • Plastic base strengthens terminal for positive holding power • Ideal for reliable production testing and field service troubleshooting

Fig.	Base Color	Digi-Key Part No.	Price Each 10	100	500	Keystone Part No.
1	Red	5000K-ND	.24	.18	.17	5000
	Black	5001K-ND	.24	.18	.17	5001
	White	5002K-ND	.24	.18	.17	5002
	Orange	5003K-ND	.24	.18	.17	5003
	Yellow	5004K-ND	.24	.18	.17	5004
2	Red	5005K-ND	.24	.19	.17	5005
	Black	5006K-ND	.24	.19	.17	5006
	White	5007K-ND	.24	.19	.17	5007
	Orange	5008K-ND	.24	.19	.17	5008
	Yellow	5009K-ND	.24	.19	.17	5009
3	Red	5010K-ND	.24	.19	.17	5010
	Black	5011K-ND	.24	.19	.17	5011
	White	5012K-ND	.24	.19	.17	5012
	Orange	5013K-ND	.24	.19	.17	5013
	Yellow	5014K-ND	.24	.19	.17	5014
4	Red	6043K-ND	1.33	1.05	.95	6043
	Black	6044K-ND	1.33	1.05	.95	6044

Fig. 1 Miniature

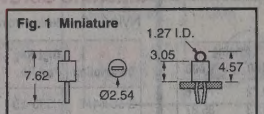


Fig. 2 Compact

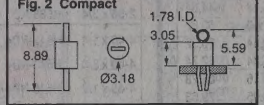


Fig. 3 Multipurpose

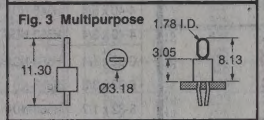
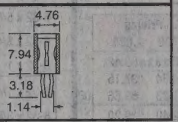


Fig. 4



KEYSTONE SMT Test Points

Miniature • Ultra low profile ideally suited for advanced surface mount printed circuit board applications • Designed for long life and durability • Manufactured using flat wire to provide a large mounting surface area • Ideal for use with miniature probes, clips, and hooks • Efficient, safe, board level testing.
Compact • Unique design provides exceptional strength and durability • Simplifies testing on dense SMT circuit boards • Ideal for use with most standard probes, clips and hooks • Efficient, safe, board level testing

Fig. 1 Miniature

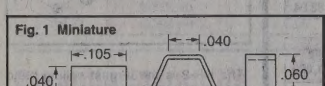


Fig. 2 Compact

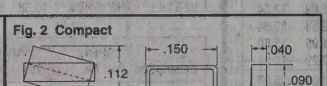


Fig.	Description	Digi-Key Part No.	Cut Tape Price Each 50	250	500	Digi-Key Part No.	Tape & Reel Pricing 1,000	Keystone Part No.
1	Miniature	5015KCT-ND	.25	.22	.18	5015KTR-ND	113.95	5015
2	Compact	5016KCT-ND	.23	.20	.17	5016KTR-ND	105.95	5016

KEYSTONE Binding Post

Fig. 1

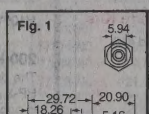


Fig. 2

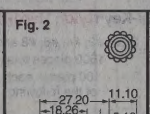


Fig. 3

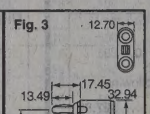


Fig.	Description	Base Color	Digi-Key Part No.	Price Each 1	10	100	Keystone Part No.
1	Standard	Red	7004K-ND	3.30	2.75	2.20	7004
1	Standard	Black	7005K-ND	3.30	2.75	2.20	7005
2	Economy	Red	7006K-ND	3.69	3.08	2.46	7006
2	Economy	Black	7007K-ND	3.69	3.08	2.46	7007
3	Dual Banana Plugs	Red	6088K-ND	10.24	8.54	6.83	6088K
3	Dual Banana Plugs	Black	6089K-ND	10.24	8.54	6.83	6089K

3M Electronics Vacuum and Accessories

Electronic Vacuum

Complete with hose, 32" - 10 ft. (81.28cm - 3.05 meters), wand, crevice tool, crevice tool brush, dusting brush, needle nozzle, 3-year warranty.

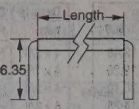
OPTIONS: Shoulder strap with shoulder pad.

SPECIFICATIONS: Electrical: 115 VAC, 50/60Hz, 5.0 amps. **Dimensions:** Length: 17.80" (45.21cm). Width: 7.75" (19.69cm). Height: 9.25" (23.50cm). Weight: 9 lbs. 14 oz. (4.48kg). **Motor:** 1HP, continuous duty, thermally protected with automatic reset. Conducted RFI filtered (reduces EMI to be below FCC requirements).

Filter: Type 1, Small Particle: For trapping extremely fine particles. Typical applications color laser printers, color copiers and highly sensitive equipment. **Type 2, Medium Particle:** Designed to trap unwanted toner from copiers and laser printers, cleaning typewriters and data processing equipment.

Description	Digi-Key Part No.	Price Each 1	10	3M Part No.
Electronic Vacuum Cleaner 115 Vac	SCP148-ND	231.92	216.46	SV-497AJM
Carrying Strap with Shoulder Pad	SCP149-ND	9.98	9.31	SV-CS1
Type 1 Filter, Small Particle	SCP150-ND	23.93	22.34	SV-SPF1
Type 2 Filter, Medium Particle	SCP151-ND	22.43	20.94	SV-MPF2
Replacement Hose for Electronic and Tool Case Vacuum Cleaners				
30" Hose, Stretches to Approx. 10'	SCP230-ND	69.30	—	SV-SH32
50" Hose, Stretches to Approx. 16'	SCP231-ND	126.00	—	SV-SH50

3M Breadboard Jumper Wire Kit



• 350 wires • 14 different lengths • Wire is stripped • Leads bent 90° • Length is classified by color coding • Wire is solid tinned 22 gauge • PVC insulation.

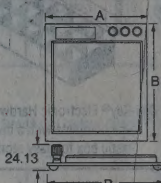
Kit contains 25 each of 14 different lengths.

923351-ND $27.24

Replacement Wire

Length In. (mm)	Qty./ Pkg.	Color	Digi-Key Part No.	Price Pkg.
0.1 (2.54)	200	(No Insulation)	923345-01-ND	
0.2 (5.08)	200	Red	923345-02-ND	
0.3 (7.62)	200	Orange	923345-03-ND	
0.4 (10.16)	200	Yellow	923345-04-ND	
0.5 (12.70)	200	Green	923345-05-ND	
0.6 (15.24)	150	Blue	923345-06-ND	$9.7
0.7 (17.78)	150	Violet	923345-07-ND	per
0.8 (20.32)	150	Gray	923345-08-ND	Pkg
0.9 (22.86)	150	White	923345-09-ND	
1.0 (25.40)	100	Brown	923345-10-ND	
2.0 (50.80)	100	Red	923345-20-ND	
3.0 (76.20)	75	Orange	923345-30-ND	
4.0 (101.60)	75	Yellow	923345-40-ND	
5.0 (127.00)	75	Green	923345-50-ND	

3M A•C•E Board™ Solderless Breadboards



FEATURES:
• 0.1" x 0.1" (2.54mm) solderless tie point matrix accepts all DIP sizes and a wide variety of discrete components with lead diameters up to .032" (.81mm) • Capacities range from 610 to 5424 tie points

• Accommodate from 6 to 54, 14 pin DIPs • Separate distribution bases for power, ground and signal lines • Molded alphanumeric grid for faster, easier tie point identification • Circuit elements are easily connected with #22 AWG solid wire • Strip bod are constructed of durable Acetal Copolymer with Alloy 688 terminals • Durable baseplates keep boa stationary during use and help to minimize noise and voltage spikes in today's high speed circuits.

AxCxE Model	DIP Capacity (Size)	Base Dim. Inch (cm) A	B	Total Tie Points	Total 5-Tie Point Term.	Binding Posts	Digi-Key Part No.	Pric Eac
354	54(14-Pin)	14.69 (37.31)	9.75 (24.77)	5424	768	4	922354-ND	111.
345	45(14-Pin)	12.44 (31.60)	9.75 (24.77)	4520	640	4	922345-ND	100.
336	36 (14-Pin)	10.25 (26.04)	9.25 (23.50)	3648	512	4	922336-ND	72.
327	27 (14-Pin)	8.0 (20.32)	9.25 (23.50)	2712	384	4	922327-ND	70.
318	18 (14-Pin)	7.75 (19.69)	6.25 (15.88)	1824	256	3	922318-ND	43.
309	9 (14-Pin)	7.0 (17.78)	4.0 (10.16)	840	128	3	922309-ND	25.
306	6 (14-Pin)	5.4 (13.72)	4.0 (10.16)	610	94	2	922306-ND	22.

3M Super Strips and Circuit Strips

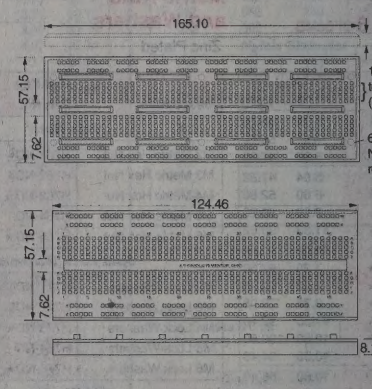
Universal Breadboarding Elements with Solderless Plug-In Tie Point

As with all solderless breadboarding units from 3M, components simply plug-in and are interconnected v ordinary solid hook-up wire; #22 AWG is recommended.

All sizes of DIPs and discrete components with lead diameters up to .032" (.82mm) can be accommodate

These handy strips may be permanently mounted with the integral non-shorting instant-mounting backi or for quick removal, they may be mounted with screws on panels up to 1/8" (3.18mm) thick.

Hardware and mounting templates are provided with every strip.



SPECIFICATIONS

	SUPER-STRIP	CIRCUIT-STRIP
Size:	2.25" x 6.50" x .32" (57.15mm x 165.10mm x 8.13mm)	2.25" x 4.90" x .32" (57.15mm x 124.46mm x 8.13m
Plug-In Tie-Points:	840	610
Materials: Body	Acetal Copolymer	Acetal Copolymer

SUPER-STRIP Terminals	Part No.	Price Each	CIRCUIT-STRIP Terminals	Part No.	Price Eac
Alloy 770	923252-ND	21.89	Alloy	923253-ND	15.44
Gold (10m)	923748-ND	69.21	Gold (10m)	923749-ND	70.01

More Product Available Online: www.digikey.com
Toll-Free: 1-800-344-4539 • Phone: 218-681-6674 • Fax: 218-681-3380

URFBOARDS® by CAPITAL ADVANCED TECHNOLOGIES INC™

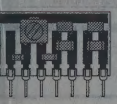
The Breadboarding Medium for Surface Mount

Surfboard Concept: The concept behind SURFBOARDS is antly simple. Many models incorporate foil patterns that are designed ccommodate a wide variety of component mounting footprints. IRFBOARD® models for SOICs and PLCCs provide standard nting footprints for the IC and depending on the model chosen, will de a prototyping area for additional components or provide a direct ut. Most SURFBOARD® models feature SIP (single in line) pins that make prototyping and interfacing with other circuits easy.

Specifications: • Material: G-10 FR-4 Fiberglass laminate, 1oz. Cu. .032" (.81mm). Thickness ±.005" (±.13mm) • Finish: Level 60/40 Solder alloy • S.I.P. Pins: On applicable models. Soldered on .100" (2.54mm) centers. SURFBOARDS® can be hand soldered and are compatible with most industrial soldering processes. (Suggested soldering and assembly guidelines included).

The universal circuit patterns allow for the mounting of 0603, 0805, 1206 and mini-melf packages as well as a wide variety of 3 terminal devices.

00 Series for Discrete Devices — .1" (2.54mm) Pin Spacing



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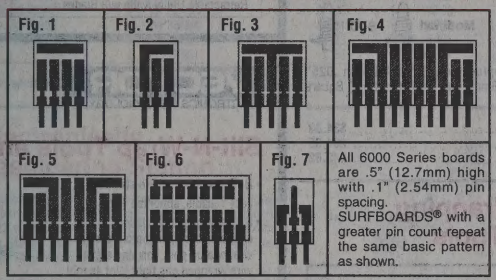
MD Sub-Assemblies



All 6000 Series boards are .5" (12.7mm) high with .1" (2.54mm) pin spacing. SURFBOARDS® with a greater pin count repeat the same basic pattern as shown.

No.of Pins	Digi-Key Part No.	Pricing 1	10
SURFBOARDS® for Discrete Components			
4	6004CA-ND	1.72	13.14
6	6006CA-ND	2.04	15.66
7	6007CA-ND	2.28	17.46
8	6008CA-ND	2.51	19.26
10	6010CA-ND	3.08	23.58
12	6012CA-ND	3.67	28.08
3	6103CA-ND	1.48	11.34
6	6106CA-ND	2.04	15.66
9	6109CA-ND	2.63	20.16
12	6112CA-ND	3.67	28.08
15	6115CA-ND	4.23	32.40

Fig.	No.of Pins	Digi-Key Part No.	Pricing 1	10
3	5	6405CA-ND	1.93	14.76
	10	6410CA-ND	3.08	23.58
	15	6415CA-ND	4.23	32.40
4	10	6510CA-ND	3.08	23.58
	20	6520CA-ND	5.17	39.60
5	8	6808CA-ND	2.51	19.26
	16	6816CA-ND	4.11	31.50
6	8	6908CA-ND	2.51	19.26
	16	6916CA-ND	4.11	31.50
SURFBOARDS® for SOT-89				
7	3	6303CA-ND	1.48	11.34
	6	6306CA-ND	2.04	15.66
	9	6309CA-ND	2.63	20.16

ter Assortment Kit for Discretes: The MK-6000 assortment contains 2 each of all 23 models in the 6000 es of SURFBOARDS® for discrete components.
-6000CA-ND **$99.00**

9000 Series for ICs

Build • prototype circuits • Evaluate ICs easily • Build circuit upgrades • Adapt SMD to thru-hole

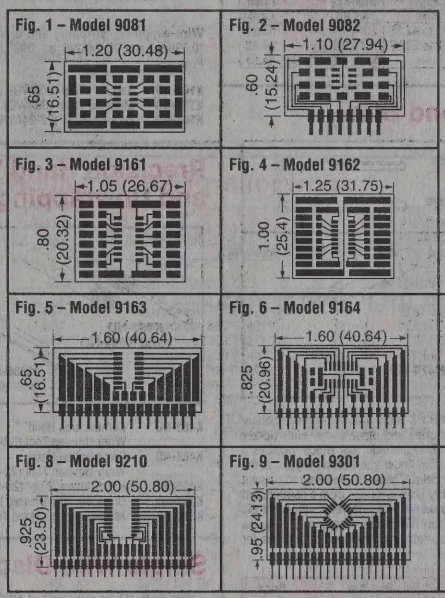


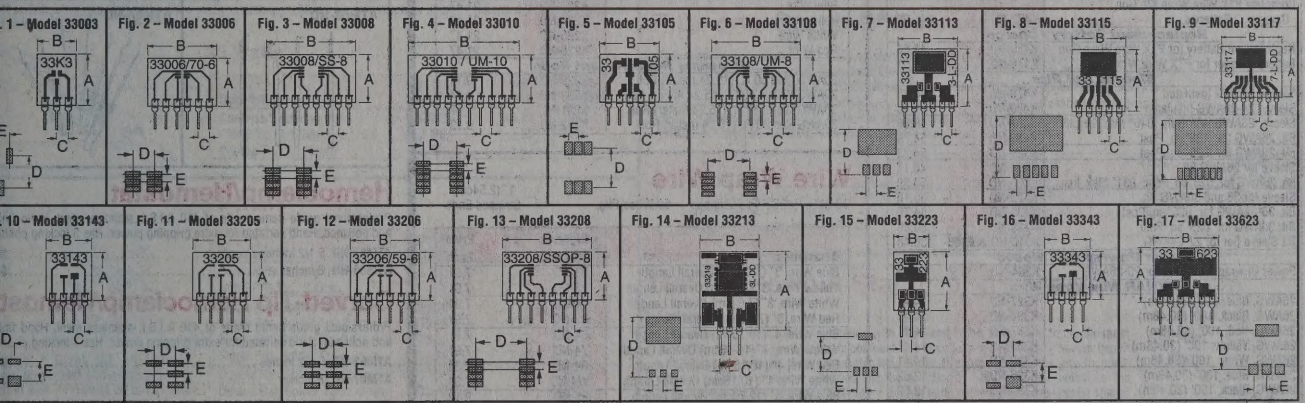
Fig.	Digi-Key Part No.	Pricing 1	10
8 Pin SOIC			
1	9081CA-ND	1.60	12.24
2	9082CA-ND	4.11	31.50
16 Pin SOIC			
3	9161CA-ND	2.04	15.66
4	9162CA-ND	2.16	16.56
5	9163CA-ND	6.32	48.42
6	9164CA-ND	6.53	50.04
7	9165CA-ND	6.89	52.74
20 Pin, .3" (7.62mm) Wide			
8	9210CA-ND	7.47	57.24
20 Pin PLCC			
9	9301CA-ND	7.47	57.24
10	9302CA-ND	7.47	57.24

Master Asst. Kit for ICs:
32 pcs total (5 each of 9081, 9082, 9161, 9162, and 2 each of 9163, 9164, 9165, 9210, 9301, 9302)
MK-9000CA-ND **$99.00**

URFBOARDS® by CAPITAL ADVANCED TECHNOLOGIES INC™

Application-Specific Adapters

- Accept Wide Range of Surface Mount Discrete Semiconductors and ICs
- Provide Convenient Medium for Prototyping, Test, and Development



33000 Series of Surfboards® are application-ific adapters that convert surface mount ponent footprints to Single-In-Line (SIP) format. boards feature pre-installed pins on .100" 4mm) centers making them compatible with entional breadboards, solderless breadboards, sockets. The SIP format provides ease of signal ng as well as higher densities when prototyping. els are available to accept a wide range of ace mount semiconductors and integrated its.

els 33113 and 33623 feature two SIP pins for pad for higher current applications. Model 33213 res large soldering pads as connection points SIP pins for measuring purposes. Boards are ± .005" (.79mm ±.13mm) thick FR-4 and feature r-coated 1-oz. Circuit Foils that can be hand-red or soldered by most conventional processes.

pins are soldered in place on .100" (2.54mm) ers. All boards feature solder mask to limit flow of r to pad area and aid assembly. Just add parts lug in.

Fig.	Dimensions — Inch (mm) A	B	C	D	E	SIP Pins	Accepts These Devices	Digi-Key Part No.	Pricing 1	10
1	.400 (10.16)	.300 (7.62)	.100 (2.54)	.080 (2.03)	.0512 (1.30)	3	SC-70-3, SOT-323, *NEC* Pkg-30	33003CA-ND	1.01	7.74
2	.400 (10.16)	.600 (15.24)	.100 (2.54)	.090 (2.28)	.0256 (.650)	6	SC-70-6, SOT-363	33006CA-ND	2.07	15.84
3	.400 (10.16)	.800 (20.32)	.100 (2.54)	.180 (4.57)	.0375 (.9530)	8	SuperSOT-8™ *(Fairchild)*	33008CA-ND	2.80	21.42
4	.400 (10.16)	1.0 (25.4)	.100 (2.54)	.200 (5.08)	.0197 (.500)	10	Micromax-10 *(Maxim)*	33010CA-ND	3.22	24.66
5	.400 (10.16)	.500 (12.7)	.100 (2.54)	.165 (4.19)	.060 (1.50)	5	SOT-89-5	33105CA-ND	1.81	13.86
6	.400 (10.16)	.800 (20.32)	.100 (2.54)	.200 (5.08)	.0256 (.650)	8	MSOP-8, TSSOP-8, Micromax-8 *(Maxim)*, Micro-8 *(Int'l Rect.)*, Mini SO-8 *(Burr-Brown)*	33108CA-ND	2.80	21.42
7	.800 (20.32)	.600 (15.24)	.100 (2.54)	.625 (15.87)	.100 (2.54)	6	TO-263AB, 3-Lead D-Pkg	33113CA-ND•	2.84	21.78
8	.800 (20.32)	.500 (12.70)	.100 (2.54)	.625 (15.87)	.067 (1.70)	5	5-Lead DD Pkg., Surface Mount Device	33115CA-ND	2.37	18.18
9	.800 (20.32)	.700 (17.78)	.100 (2.54)	.625 (15.87)	.050 (1.27)	7	7-Lead DD Pkg., Surface Mount Device	33117CA-ND	3.22	24.66
10	.400 (10.16)	.400 (10.16)	.100 (2.54)	.100 (2.54)	.078 (1.99)	4	SOT-143, Surface Mount Device	33143CA-ND	1.53	11.70
11	.400 (10.16)	.500 (12.7)	.100 (2.54)	.110 (2.79)	.0375 (.953)	5	SOT-23-5, SC59-5, *Burr-Brown* Pkg. 331, Tinylogic™ *(Fairchild)*, Microgate *(Texas Inst.)*	33205CA-ND	1.86	14.22
12	.400 (10.16)	.600 (15.24)	.100 (2.54)	.110 (2.79)	.0375 (.953)	6	SOT-23-6, SOT-23-L, SC59-6, TSOP-6‡, SuperSot-6™ *(Fairchild)*, Micro-6™ *(Int'l Rect.)*	33206CA-ND	2.07	15.84
13	.400 (10.16)	.800 (20.32)	.100 (2.54)	.300 (7.62)	.025 (.650)	8	SSOP-8	33208CA-ND	2.80	21.42
14	1.125 (28.57)	.850 (21.59)	.100 (2.54)	.625 (15.87)	.100 (2.54)	3	TO-263AB, 3-Lead D-Pkg	33213CA-ND•	3.45	26.46
15	.500 (12.70)	.300 (7.62)	.100 (2.54)	.275 (6.98)	.090 (2.28)	3	SOT-223, Surface Mount Device	33223CA-ND	1.27	9.72
16	.400 (10.16)	.400 (10.16)	.100 (2.54)	.080 (2.03)	.051 (1.3)	4	SOT-343	33343CA-ND	1.53	11.70
17	.500 (12.70)	.600 (15.24)	.100 (2.54)	.275 (6.98)	.090 (2.28)	6	SOT-223	33623CA-ND•	2.30	17.64

• Higher Current Applications ‡ Not exact device/pad match

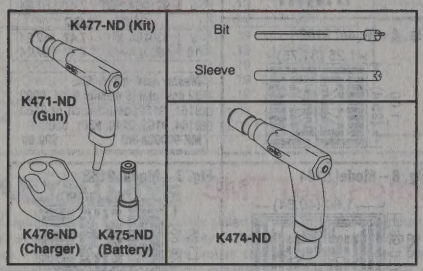
OK Industries
Division of Jonard Industries Corp.

Wire Cut and Strip Tools

Easy and clean stripping of wires for wire wrapping, electronic and appliance applications. Strip length easily adjustable for your application. The hardened steel cutting blades and sturdy construction of the tool ensure long life. Biomechanically designed for maximum efficiency. **Easy to operate:** Place wire (up to 4) in stripping slot with ends extending beyond cutter blades, press tool and pull, wire is cut and stripped to proper "wire stripping" length.

Wire Size AWG	Wire Size mm	Adjustable Strip-Off Length Inches	Adjustable Strip-Off Length mm	Digi-Key Part No.	Price Each
26	0.40	15/16 to 111/16	33.33 to 42.86	K501-ND	50.81
30	0.25	7/8 to 11/8	22.22 to 28.57	K502-ND	94.48
22-26	.64-.40	—	—	K512-ND ***NEW!***	44.95

Wire Wrap Gun and Bits



The PTX Series Wire Wrapping Tools for OK Industries bring revolutionary new benefits to installers, telcom technicians and other users. With worker safety in mind, OK Industries created an ergonomic tool which includes a lightweight, well-balanced construction, dual finger short throw trigger, and a long handle to mitigate pressure on the palm. These features help to prevent repetitive stresses and result in an industry leading design from a comfort and safety standpoint. Choose either 115V powered wire wrap/unwrap gun or the portable battery powered wrap/unwrap tool. PTX wire wrapping kit includes the ergonomic battery wrap/unwrap tool, battery charger and 2 batteries for continuous wire wrapping jobs.

Description	Digi-Key Part No.	Price Each
Tools / Guns		
Wire Wrap/Unwrap Gun 115V	K471-ND	255.21
Wire Wrap/Unwrap Gun w/ Backforce 115V	K472-ND	263.90
Cordura Tool Pouch for Battery Powered Tool	K473-ND	59.00
Battery Powered Wrap/Unwrap Gun	K474-ND	211.73
Kit		
Complete PTX Wire Wrap Kit, Gun, Charger, 2 Batteries	K477-ND	346.95
Replacement Battery / Charger		
Replacement Battery for PTX Wire Wrap Gun	K475-ND	48.86
Battery Charger for PTX Wire Wrap Gun	K476-ND	84.01
Sleeves and Bits		
Sleeve, 22AWG Insulated	K479-ND	28.86
Sleeve, 24-26AWG Insulated	K480-ND	28.86
Sleeve, 26AWG WW Gun, .046" Max. Insul.	K481-ND	48.68
Bit, 26AWG for .025" sq. Post	K483-ND	54.78
Bit, 28AWG for .025" sq. Post	K321-ND	54.79
Sleeve for 26AWG Bit	K324-ND	40.17
Bit, 26AWG for .025" sq. Post, .031" Max. insul.	K323-ND	54.79
Sleeve for 28 and 30AWG Bit	K322-ND	40.16
Bit, 30-32AWG for .025" sq. Post	K485-ND	54.79
Bit, 30AWG for .025" sq. Post	K320-ND	60.86
Bit/Sleeve Set for 22-24AWG	K510-ND ***NEW!***	135.48
Power Unwrap Bit / Sleeve		
Power Unwrap Bit/Sleeve for 20-26AWG	K384-ND	66.94
KYNAR Wire Wrap Wire		
26AWG, Blue, 100' (30.48m)	K327-ND	14.41
26AWG, Black, 100' (30.48m)	K386-ND	14.41
26AWG, Red, 100' (30.48m)	K387-ND	14.41
26AWG, Yellow, 100' (30.48m)	K388-ND	14.41
26AWG, White, 100' (30.48m)	K389-ND	14.41
28AWG, Blue, 100' (30.48m)	K326-ND	12.62
28AWG, Black, 100' (30.48m)	K390-ND	12.62
28AWG, Red, 100' (30.48m)	K391-ND	12.62
28AWG, Yellow, 100' (30.48m)	K392-ND	12.62
28AWG, White, 100' (30.48m)	K393-ND	12.62
30AWG, Blue, 100' (30.48m)	K325-ND	11.17
30AWG, Black, 100' (30.48m)	K394-ND	11.17
30AWG, Red, 100' (30.48m)	K395-ND	11.17
30AWG, Yellow, 100' (30.48m)	K396-ND	11.17
30AWG, White, 100' (30.48m)	K397-ND	11.17
Low Strip Force KYNAR Wire Wrap Wire		
Blue 30AWG 100' (30.48m)	K329-ND	24.36
White 30AWG 100' (30.48m)	K443-ND	24.36
Red 30AWG 100' (30.48m)	K444-ND	24.36
Black 30AWG 100' (30.48m)	K445-ND	24.36

NEW! Alignment Tool Kit

This 5 piece pocket kit contains a selection of the most popular non-conductive tools for aligning and adjusting components. **Kit contains:** Trimpot, Alignment 2 in 1 Tool, Spudger, Orange Stick, Probe Pick.

Description	Digi-Key Part No.	Price Each
Alignment Tool	K513-ND	6.70

Manual Wire Wrap Tools

K398-ND
K399-ND

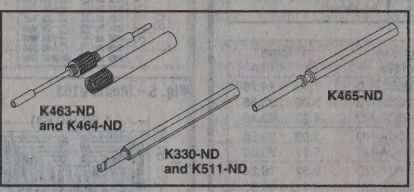
Description	Digi-Key Part No.	Price Each
Manual Wrap Tool Lexan for use w/ bits and sleeves above	K398-ND	121.40
Manual Wrap Tool Aluminum for use w/ bits and sleeves above	K399-ND	160.60
Manual Wrap Tool Insulated Version	K478-ND	171.73

Hobby Wrap Hand Tools

Wire-wrapping, stripping and unwrapping tool. For 30AWG on .025" (0.63mm) and 22-24AWG on .030" (0.76mm) and .045" (1.14mm) Square Post.

K104-ND	Regular Wrap (30AWG)	$34.33
K105-ND	Modified Wrap (30AWG)	$34.35
K107-ND	Regular Wrap (22-24AWG)	$43.62

Precision Hand Wrapping and Unwrapping Tools



K463-ND	Combination Hand Wrap-Unwrap Tool (30AWG)	$101.91
K464-ND	Combination Hand Wrap-Unwrap Tool (22-24AWG)	$88.53
K465-ND	Hand Unwrap Tool (20-26AWG)	$39.12
K330-ND	Universal Wire Unwrap Hand Tool (24-32AWG)	$30.42
K511-ND	***NEW!*** Unwrap Hand Tool (20-26AWG)	$28.23

Single Wire Dispenser

- With 50 ft. (15.24 meter) roll of AWG 30 KYNAR wire-wrapping wire
- Built-in Plunger cuts wire to desired length
- Built-In Stripper strips 1" (2.54cm) of insulation
- Refillable (for refills, see below)

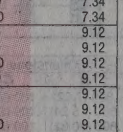
Description	Digi-Key Part No.	Price Each
Blue Wire	K223-ND	21.47
Yellow Wire	K224-ND	21.47
White Wire	K225-ND	21.47
Red Wire	K226-ND	21.47
Dispenser Replacement Rolls		
30AWG Blue 50 Ft. (15.24 meter) Roll	K229-ND	9.14
30AWG Yellow 50 Ft. (15.24 meter) Roll	K230-ND	9.14
30AWG White 50 Ft. (15.24 meter) Roll	K231-ND	9.12
30AWG Red 50 Ft. (15.24 meter) Roll	K232-ND	9.12

Wire Wrap Wire

30AWG, Pre-Cut/Pre-Stripped — 50 Wires/Pkg. 1" (2.54cm) Stripped Ends

Description	Digi-Key Part No.	Price Each
Blue Wire, 3" (7.62cm) Overall Length	B3-ND	7.91
Yellow Wire, 3" (7.62cm) Overall Length	Y3-ND	7.91
White Wire, 3" (7.62cm) Overall Length	W3-ND	7.91
Red Wire, 3" (7.62cm) Overall Length	R3-ND	7.91
Blue Wire, 4" (10.16cm) Overall Length	B4-ND	7.91
Yellow Wire, 4" (10.16cm) Overall Length	Y4-ND	7.91
Red Wire, 4" (10.16cm) Overall Length	R4-ND	7.34
White Wire, 4" (10.16cm) Overall Length	W4-ND	7.34
Blue Wire, 5" (12.70cm) Overall Length	B5-ND	9.12
Yellow Wire, 5" (12.70cm) Overall Length	Y5-ND	9.12
White Wire, 5" (12.70cm) Overall Length	W5-ND	9.12
Red Wire, 5" (12.70cm) Overall Length	R5-ND	9.12
Blue Wire, 7" (17.78cm) Overall Length	B7-ND	9.12
Yellow Wire, 7" (17.78cm) Overall Length	Y7-ND	9.12
White Wire, 7" (17.78cm) Overall Length	W7-ND	9.12
Red Wire, 7" (17.78cm) Overall Length	R7-ND	9.12

Tri-Color Dispenser



- 3 Rolls of wire in one dispenser
- 3 Colors: blue, white, red; 50 feet (15.24 meters) of each color
- AWG30 (0.25 mm) KYNAR insulated wire
- Built-in plunger cuts wire to desired length
- Built-In stripper strips 1" (25.40mm) of insulation
- Refillable (for refills, see below)

Description	Digi-Key Part No.	Price Each
Tri-Color Dispenser	K227-ND	45.20
Replacement Rolls	K228-ND	18.20

Wiss Utility Knives

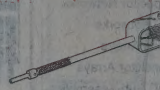
Retractable Utility Knife

Description	Digi-Key Part No.	Pr Ea
Retractable Utility Knife w/3 Blades	WK8V-ND	4.

VECTOR
ELECTRONICS & TECHNOLOGY, INC

Slit-N-Wrap Tools and Wire

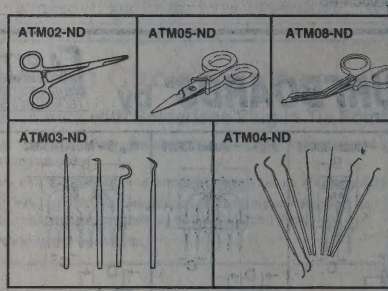
- No Pre-cutting or Pre-stripping
- Fast, reliable, spool fed wire
- Slits and opens insulation exposing bare wire before wire is wrapped on post, forming actual wire wrapped gas tight joint as tool is rotated.



V1081-ND

Description	Digi-Key Part No.	Pr Ea
Manual Slit-N-Wrap Tool (#28), Includes Bit, 50' (15.24m) Roll of Green Wire	V1081-ND	20
Replacement Wirewrap Bit #28	V1083-ND	6
Replacement Wirewrap Bit #30	V1084-ND	5
150' (45.72m) 28AWG Tefzel Wire Green	V1085-ND	2
150' (45.72m) 28AWG Tefzel Wire Red	V1086-ND	2
150' (45.72m) 28AWG Tefzel Wire Blue	V1087-ND	2
150' (45.72m) 28AWG Tefzel Wire White	V1088-ND	2
150' (45.72m) 28AWG Tefzel Wire Yellow	V1089-ND	2

BRAND 77 TOOLS



Hemoclamp/Hemostat

Professional grade hemo made of 410 A.I.S.I. stainless steel. Hand fi and polished. Hand serrated for extra gripping power. Has 3 locking posi

ATM01-ND 5 1/2 inches ....
ATM06-ND 8 inches ....

Curved-Tip Hemoclamp/Hemost

Professional grade hemo made of 410 A.I.S.I. stainless steel. Hand fi and polished. Hand serrated for extra gripping power. Has 3 locking posi

ATM02-ND 5 1/2 inches ....
ATM07-ND 8 inches ....

Compact Electrician's Scissor

Stainless steel double notched blade with file on back. Notches a stripping wire. Can be used for many telephone installation and ele service applications. 5 1/2" overall length, cut length is 1 7/8". PVC co coated handles.

ATM05-ND ....

Utility Scissors

All utility scissors are industrial strength stainless steel serrated blade have PVC handles. Will cut paper, wire, wood, plastic, leather etc.

ATM08-ND 7 1/2 inches ....

4-Piece Probe Set

Forged from 420 A.I.S.I. stainless steel. Set includes four probes and a (vinyl) pouch.

ATM03-ND ....

7-Piece Probe Set

Hardened, tempered stainless steel. Set includes seven probes and a (vinyl) pouch.

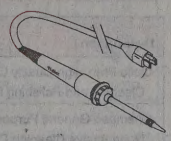
ATM04-ND ....

J

More Product Available Online: www.digikey.com
Toll-Free: 1-800-344-4539 • Phone: 218-681-6674 • Fax: 218-681-3380

Professional Soldering Irons

WP25, WP30, WP35 Series Irons

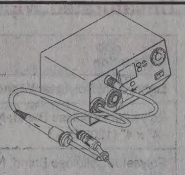


ures: • Fixed temperature units • Ideal for a wide variety of electronic tasks • Interngeable heater elements - Single handle plus three different heating elements gives user a trio of irons for different jobs • Quick change knurled collar makes changing er simple • Lightweight handle with cushioned grip • For additional safety, all irons e with 3-wire power cord • Irons use ST series iron plated tips for long life and ter soldering efficiency • Important: Use only Weller tips • ST series tips • UL Listed

scription	Digi-Key Part No.	Price Each	Weller Part No.
ldering Iron with ST3 Tip, 25 Watt*	WP25-ND	35.12	WP25
ldering Iron with ST3 Tip, 30 Watt*	WP30-ND	37.95	WP30
ldering Iron with ST3 Tip, 35 Watt*	WP35-ND	44.21	WP35
ldering Iron Stand For WP Series*	PH60-ND	21.83	PH60
uried Tip Retaining Nut	KN60-ND	2.85	KN60

te that iron stand is sold separately.

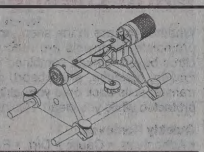
RS10022 Electronically ontrolled Desoldering Station



ures: • Vacuum is generated with a self-contained pump • 80 watts of power aster heat up and better performance • A wide range of DS series desoldering s available • WRS10022 comes with DS80 desoldering pencil with external r collection chamber • Station also supports Silver Series soldering pencil 80 and WMP Micro Pencil to give you added flexibility

scription	Digi-Key Part No.	Price Each	Weller Part No.
mplete Station 120V Output	WRS10022-ND	849.75	WRS10022
lacement Tip, .79mm	DS112-ND	12.08	DS112
lacement Tip, 1.85mm	DS114-ND	12.08	DS114
ss Tube	0051360599-ND	6.50	0051360599
ton Strap	0051361699-ND	5.85	0051361699
neral Filters	0051360499-ND	2.31	0051360499

51502699 Circuit Board Vise



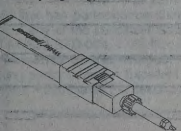
mplete work center for placing, soldering and desoldering printed circuit ds • Spring clamps will hold work piece in place securely • Rotates gh 360°, allowing work performance at any convenient angle • Adjustable res allow handling of variety of circuit board sizes • Maximum surface: 6-160 mm x 9-1/8"/235 mm • 0051502699 is ESD SAFE

escription	Digi-Key Part No.	Price Each	Weller Part No.
ircuit Board Vise	0051502699-ND	46.83	0051502699

Cordless Soldering Irons and Tips

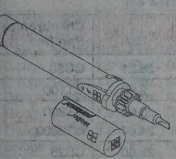
ures: • Patented soldering tool has a catalytic converter that provides a powerful yet safe flameless combustion • Safety ff switch when cap replaced • Two easily interchangeable screw-in tips are available • Butane not included (*Butane t sold by Digi-Key*)

35 Watts



Description	Digi-Key Part No.	Price Each	Weller Part No.
Cordless Soldering Iron	C1C-ND	13.28	C1C
Chisel Tip, 3.175mm	C12-ND	1.97	C12
Conical Tip, 3.175mm	C13-ND	1.97	C13

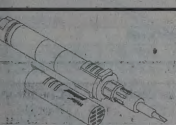
75 Watts



ures: • Gives the ultimate in ble power and convenience for all ring jobs • Provides 25 to 75 watts wer • Adjustable temperatures up 50°F • Refueled with standard e refills • Unit lasts for up to an of continuous use • Butane not ded (*Butane is not sold by Digi-*

Description	Digi-Key Part No.	Price Each	Weller Part No.
Cordless Soldering Iron with PPT6 Tip, 2.4mm	P2C-ND	32.67	P2C
Single Flat, Solder Tip, 1.0mm	PPT1-ND	7.88	PPT1
Single Flat, Solder Tip, 2.4mm	PPT2-ND	7.88	PPT2
Single Flat, Solder Tip, 3.2mm	PPT3-ND	7.65	PPT3
Single Flat, Solder Tip, 4.8mm	PPT4-ND	7.65	PPT4
Double Flat, Solder Tip, 1.0mm	PPT5-ND	7.88	PPT5
Double Flat, Solder Tip, 2.4mm	PPT6-ND	7.88	PPT
Double Flat, Solder Tip, 3.2mm	PPT7-ND	7.65	PPT7
Hot Knife Tip	PPT10-ND	7.65	PPT10
Hot Air Tip	PPT9-ND	7.65	PPT9
Hot Air Deflector	PPT11-ND	5.36	PPT11
Hot Air Tip with Deflector	PPT13-ND	12.24	PPT13

125 Watts



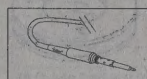
ures: • Self-igniting portable butane tool • Anti-static soldering • "Auto ch" safety shut-off iron plated tips, built-in butane filter • Rugged ess-steel body provides up to 125 of power • Adjustable temperature o 1,076°F • Fuel level is clearly e through a window on the body of ol • Butane not included (*Butane is old by Digi-Key*)

Description	Digi-Key Part No.	Price Each	Weller Part No.
Cordless Soldering Iron	PSI100C-ND	56.90	PSI100C
Single Flat, Solder Tip, 1.0mm	PSI1-ND	10.07	PSI1
Single Flat, Solder Tip, 2.4mm	PSI2-ND	10.07	PSI2
Single Flat, Solder Tip, 3.2mm	PSI3-ND	10.07	PSI3
Single Flat, Solder Tip, 4.8mm	PSI4-ND	10.07	PSI4
Single Chisel, Solder Tip, 1.0mm	PSI5-ND	10.07	PSI5
Double Flat, Solder Tip, 2.4mm	PSI6-ND	10.07	PSI6
Double Flat, Solder Tip, 3.2mm	PSI7-ND	10.07	PSI7
Double Flat, Solder Tip, 4.8mm	PSI8-ND	10.07	PSI8
Hot Blower Tip	PSI9-ND	10.07	PSI9
Hot Knife Tip	PSI10-ND	10.07	PSI10

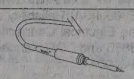
Soldering Irons

Specifications: • Specifically designed for use at electrostatic free work stations • Non-burnable silicon rubber cord • Lightweight, high impact plastic handle • Blue plastic meets requirements for ESD, Electrostatic Dissipative Materials • Uses Weller EM series tips made of copper with heavy iron, nickel and chromium plating for long life • UL listed

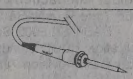
NOTE: EC1503B, EC1302B and EC1201A work with DEC1001 and EC1002.



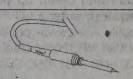
EC1503B: • Tool designed for difficult applications such as multilayer boards, large heat output from small tool • Large tip iron for high wattage application



EC1302B: • Micro-soldering tool • Stainless steel heater element construction • Fine tip iron for light duty applications



EC1201A: • General purpose soldering tool • Stainless steel plug-in heater element construction • General purpose iron for mid-range applications



PES50: • General purpose soldering tool • Stainless steel plug-in heater element construction • General purpose iron for mid-range applications

Description	Digi-Key Part No.	Price Each	Weller Part No.
42W Soldering Iron with EMA Tip	EC1503B-ND	120.68	EC1503A
20W Iron with EPH 101 Tip	EC1302B-ND	103.77	EC1302A
40W Soldering Iron with ETA Tip	EC1201A-ND	103.77	EC1201A
50W Soldering Iron with ETA Tip	PES50-ND	35.88	PES50
Replacement Sponge	TC205-ND	.99	TC205

Replacement Tips for Irons

Tip Dim. (mm)	Description	Digi-Key Part No.	Price Each	Weller Part No.
	EM Series Tips for EC1503B Iron			
1.57	Chisel Tip	EMA-ND	12.16	EMA
.38	Conical Tip	EMD-ND	12.16	EMD
	PT Series Tips for TC201T Iron			
1.57	Screwdriver, 700°F (371°C)	PTA7-ND	5.43	PTA7
1.57	Screwdriver, 800°F (427°C)	PTA8-ND	5.43	PTA8
3.18	Screwdriver, 700°F (371°C)	PTC7-ND	5.43	PTC7
3.18	Screwdriver, 800°F (427°C)	PTC8-ND	5.43	PTC8
.79	Conical Flat, 700°F (371°C)	PTF7-ND	5.43	PTF7
.79	Conical Flat, 800°F (427°C)	PTF8-ND	5.43	PTF8
.38	Long Conical, 700°F (371°C)	PTS7-ND	5.43	PTS7
.38	Long Conical, 800°F (427°C)	PTS8-ND	5.43	PTS8
	EPH Series Tips for EC1302B Iron			
.38	Micropoint Tip	EPH101-ND	5.37	EPH101
.79	Bent Conical Tip	EPH102-ND	5.37	EPH102
1.57	Screwdriver Tip	EPH106-ND	5.37	EPH106
	Replacement Barrel Nut Assort. for EPH Tip	EC231-ND	7.97	EC231
	ET Series Tips for EC1201A			
1.57	Screwdriver Tip	ETA-ND	5.12	ETA
2.36	Screwdriver Tip	ETB-ND	5.12	ETB
.79	Screwdriver Tip	ETH-ND	5.12	ETH
.79	Conical Tip	ETP-ND	5.12	ETP
.40	Single Flat Tip	ETU-ND	5.12	ETU
.80	Long Conical Tip	ETO-ND	5.12	ETO
	Tips for Professional Soldering Irons — ST Series Tips for WP25, WP30, WP35 Irons			
1.57	Screwdriver Tip	ST1-ND	4.80	ST1
4.65	Screwdriver Tip	ST4-ND	4.80	ST4
.79	Single Flat Tip	ST5-ND	4.80	ST5
.79	Screwdriver Tip	ST6-ND	4.80	ST6

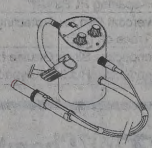
Flux and Scrub-It® Solvent Dispensers

Flux Dispensers: • Both static safe and standard hold 2 ounces • Avoid spills and waste and place flux precisely where needed • Squeeze bottles dispense one drop of liquid resin, flux, oil solvent through stainless steel needles • Static dissipative models protect static-sensitive components

Scrub-It® Solvent Dispensers: • Squeeze dispenser to distribute solvent through brush • For cleaning printed circuit boards and other connections • No mess, no waste • Available with nylon bristles or horsehair for static-safe applications • Dispenser holds 2 ounces

Description	Digi-Key Part No.	Price Each	Weller Part No.
Flux Dispenser, 0.020" (.51mm) Needle	FD2-ND	2.63	FD2
Scrub-It Bottle, Nylon Bristle	SD74-ND	8.94	SD74
Scrub-It Bottle, Horsehair ESD Safe	SD74H-ND	8.94	SD74H

Hot Air Rework Station and Nozzles

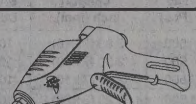


Features:

• Self-contained low cost hot air station with 700 watts of heating power to handle most bench top rework jobs • Extremely compact size uses less space on your rework bench • Temperature and air flow are controlled on the front panel - allows you to make settings quickly and easily • Air flow can be activated by either a finger switch on the hand piece or via an optional foot switch • Built-in hand piece holder saves bench space

Description	Digi-Key Part No.	Price Each	Weller Part No.
Self-Cont. Hot Air Station, 120V	WHA300-ND	772.50	WHA300
Hot Air Nozzle, 44 PIN PLCC	0058736814-ND	60.41	0058736814
Hot Air Nozzle, 84 PIN PLCC	0058736833-ND	75.75	0058736833
Hot Air Nozzle, 20 PIN PLCC	0058736839-ND	60.41	0058736839
Hot Air Nozzle, 68 PIN PLCC	0058736804-ND	60.41	0058736804
Hot Air Nozzle, 14 PIN SOIC-SO8	0058736843-ND	60.41	0058736843
Hot Air Nozzle, 20 PIN SOIC	0058736842-ND	60.41	0058736842
Hot Air Nozzle, SOT23	0058736870-ND	60.41	0058736870

Cordless Hot Glue Gun



Features: • Home, hobby and light industrial applications • Self-igniting • Uses standard butane lighter fuel • Ignition indicator window • Patented magnetic thermostat for temperature control • Heat to working temperature in just 4 minutes • Uses standard 1/2" glue sticks • Fuel level window • General use nozzle • Glue sticks and Butane not included

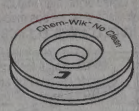
(*Glue sticks and Butane are not sold by Digi-Key*)

Digi-Key Part No.	Price Each	Weller Part No.
G150-ND	47.25	G150

J

ITW Chemtronics® Desoldering Braid

Pure copper braid construction coated with high purity rosin, quickly and thoroughly removes solder. Use Chem-Wik or Soder-Wick to remove components, SMDs, IOs, blobs and clean up poor solder connections. **Meets or Exceeds these Requirements:** • Mil-F-14256F Type R • NASA NHB 5300.4(3A) Reliability and Quality Assurance publication • NASA SP-5002 Soldering Electrical Connections • NASA NPC200-4 Quality publication • DOD Standard 1686B and DOD Handbook 263 • Mil-B-81705C Static Decay Rate Provision • Mil-Std-2000A



Width Inch (mm)	Length Feet (Meter)	Label Color	Digi-Key Part No.	Price Each 1	25	100	Chemtronics Part No.
Chem-Wik® Desoldering Braid							
.030 (.76)	5 (1.52)	White	CW2-5-ND	2.74	2.47	1.99	2-5L
.030 (.76)	25 (7.62)	White	CW2-25-ND	11.90	10.71	8.63	2-25L
.050 (1.27)	25 (7.62)	Yellow	CW5-25-ND	11.90	10.71	8.63	5-25L
.075 (1.91)	25 (7.62)	Green	CW7-25-ND	12.36	11.13	8.97	7-25L
.100 (2.54)	25 (7.62)	Blue	CW10-25-ND	13.20	11.88	9.57	10-25L
.030 (.76)	100 (30.48)	Gray	2-100L-ND	47.52	42.77	34.46	2-100L
.050 (1.27)	100 (30.48)	Yellow	5-100L-ND	47.52	42.77	34.46	5-100L
.075 (1.91)	100 (30.48)	Green	7-100L-ND	49.30	44.37	35.75	7-100L
.100 (2.54)	100 (30.48)	Blue	10-100L-ND	52.84	47.56	38.31	10-100L
Soder-Wick® Desoldering Braid							
.030 (.76)	5 (1.52)	White	80-1-5-ND	3.10	2.79	2.25	80-1-5
.060 (1.52)	5 (1.52)	Yellow	80-2-5-ND	3.10	2.79	2.25	80-2-5
.080 (2.03)	5 (1.52)	Green	80-3-5-ND	3.34	3.01	2.43	80-3-5
.110 (2.79)	5 (1.52)	Blue	80-4-5-ND	3.60	3.24	2.61	80-4-5
.145 (3.68)	5 (1.52)	Brown	80-5-5-ND	3.98	3.59	2.89	80-5-5
.210 (5.33)	5 (1.52)	Red	80-6-5-ND	4.20	3.78	3.05	80-6-5
.030 (.76)	25 (7.62)	White	50-1-25-ND	13.60	12.24	9.86	50-1-25
.060 (1.52)	25 (7.62)	Yellow	50-2-25-ND	13.60	12.24	9.86	50-2-25
.080 (2.03)	25 (7.62)	Green	50-3-25-ND	13.98	12.59	10.14	50-3-25
.110 (2.79)	25 (7.62)	Blue	50-4-25-ND	15.44	13.90	11.20	50-4-25
.145 (3.68)	25 (7.62)	Brown	50-5-25-ND	17.30	15.57	12.55	50-5-25
.210 (5.33)	25 (7.62)	Red	50-6-25-ND	18.38	16.55	13.33	50-6-25
.060 (1.52)	100 (30.48)	Yellow	50-2-100-ND	52.72	47.45	38.23	50-2-100
.080 (2.03)	100 (30.48)	Green	50-3-100-ND	54.92	49.43	39.82	50-3-100
.110 (2.79)	100 (30.48)	Blue	50-4-100-ND	60.62	54.56	43.95	50-4-100
No-Clean Soder-Wick® Desoldering Braid							
.030 (.76)	5 (1.52)	White	60-1-5-ND	3.34	3.01	2.43	60-1-5
.060 (1.52)	5 (1.52)	Yellow	60-2-5-ND	3.34	3.01	2.43	60-2-5
.080 (2.03)	5 (1.52)	Green	60-3-5-ND	3.48	3.14	2.53	60-3-5
.110 (2.79)	5 (1.52)	Blue	60-4-5-ND	3.98	3.59	2.89	60-4-5
.145 (3.68)	5 (1.52)	Brown	60-5-5-ND	4.36	3.93	3.17	60-5-5
.210 (5.33)	5 (1.52)	Red	60-6-5-ND	4.72	4.25	3.43	60-6-5
.030 (.76)	10 (3.04)	White	60-1-10-ND	6.06	5.46	4.40	60-1-10
.060 (1.52)	10 (3.04)	Yellow	60-2-10-ND	6.06	5.46	4.40	60-2-10
.080 (2.03)	10 (3.04)	Green	60-3-10-ND	6.44	5.80	4.67	60-3-10
.110 (2.79)	10 (3.04)	Blue	60-4-10-ND	7.20	6.48	5.22	60-4-10
.145 (3.68)	10 (3.04)	Brown	60-5-10-ND	7.92	7.13	5.75	60-5-10

Ball Grid Array (BGA) Desoldering Braid

60-BGA-5-ND Soder-Wick BGA, No-Clean, 5 Feet (1.52 Meter) $4.43
80-BGA-5-ND Soder-Wick BGA, Rosin, 5 Feet (1.52 Meter) $4.02

Prototyping and Rework Dispensing Pens

Description	Digi-Key Part No.	Price Each 1	25	Chemtronics Part No.
Conformal Coating Removal Pen for PCBs (.32 Oz.)	CW3500-ND	10.99	9.93	CW3500
Flux Remover Pen for No-Clean Fluxes (.32 Oz.)	CW9100-ND	8.52	7.70	CW9100
Flux Remover Pen for Rosin Based Fluxes (.32 Oz.)	CW9200-ND	8.17	7.38	CW9200
Conductive Trace Pen, Std. Tip for Repairing PCBs	CW2200STP-ND	18.29	16.53	CW2200STP
Conductive Trace Pen, Micro Tip for Repairing PCBs	CW2200MTP-ND	18.29	16.53	CW2200MTP
Overcoat Pen for Protecting Conductive Trace on PCB	CW3300G-ND	14.24	12.87	CW3300G
Conductive Silver Grease for Relays and Connectors	CW7100-ND	18.87	17.06	CW7100
Conductive Rubber Keypad Repair Kit	CW2605-ND	12.78	11.55	CW2605

Presaturated Wipes

Description	Digi-Key Part No.	Price Each 1	25	Chemtronics Part No.
Optic Prep High Quality Optical Cleaning and Polishing Pads (50 Pcs.)	CP410-ND	19.57	17.69	CP410
Chempad General Purpose, Lint-free, Nonabrasive Cleaning Pads (50 Pcs.)	CP400-ND	21.55	19.47	CP400
Screen-Prep Wet-and-Dry Wipes for Monitor Screens (25 Twin Packs)	CSP20-ND	23.09	20.87	CSP20

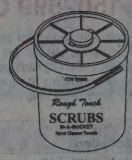
Clean Room Products

Unsaturated Wipes

Description	Digi-Key Part No.	Price Each 1	25	Chemtronics Part No.
Lightweight Polyester Wipes, 9" x 9" (150 Pcs.)	6209-ND	38.13	34.46	6209
Polyester/Cellulose Blend, Nonwoven Wipes, 4" x 4" (1200 Pcs.)	6704CH-ND	38.13	34.46	6704
Polyester/Cellulose Blend, Nonwoven Wipes, 9" x 9" (300 Pcs.)	6709CH-ND	38.13	34.46	6709
Sealed Edge Microfiber Chamois™ Wipes, 8" x 8" (50 Pcs.)	7348LE-ND	109.46	98.91	7348LE

Hand Cleaner Towels-In-a-Bucket

Whether you are in the shop, on the assembly line, or out in the field, these premoistened towels are ready to use for your hard working hands. The citrus based formula combined with an absorbent, non-scratching towel will loosen, dissolve, and absorb soils from your hands. Towels will not re-transfer soils back onto your skin, and will leave your hands conditioned and protected while you clean. Residue free.



Quickly Removes:
• Adhesives • Caulk • Dirt • Epoxy • Grease • Grime • Lubricants • Ink & Dye • Sealants • Tar • Urethane • Wax • Asphalt • Polyurethane • Paint • Oils

For More Than Just Hands:
• Tools • Plastics • Vinyl • Painted Surfaces • Metal • Work Surfaces • Equipment • Compo • Workbenches

42272-ND 72 Towels (10.5" x 12.25") $3

Swabs and Applicators

For general purpose cleaning of magnetic heads, video heads and optical pickups.

Fig. 1 Chamois Tip, ABS Handle
Fig. 2 Cotton Tip, Wood Handle
Fig. 3 Cotton Tip, Double Ended

Fig.	Qty. (Pcs.)	Length Inch (mm)	Digi-Key Part No.	Price Each 1	25	100	Chemtronics Part No.
1	50	3.25 (82.55)	CC50-ND	33.45	30.23	28.21	CC50
2	100	6.00 (152.40)	CT100-ND	3.32	3.00	2.80	CT100
3	100	6.00 (152.40)	CT200-ND	3.55	3.21	3.00	CT200
	1000	6.00 (152.40)	CT2000-ND	28.50	25.76	24.04	CT2000
—	25	—	CS25-ND	27.02	24.42	22.80	CS25

ITW Chemtronics® Clean Room Products — Swabs and Applicators

Fig. 1

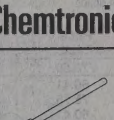


Fig. 2

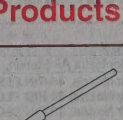


Fig. 3

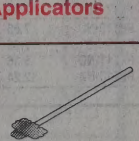


Fig. 4

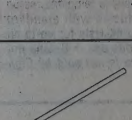
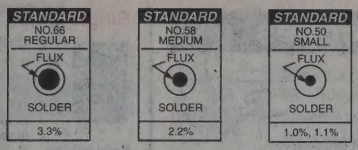


Fig.	Qty. (Pcs)	Length Inch (mm)	Shaft Description	Tip Description	Digi-Key Part No.	Price Each 1	25	100	Chemtronics Part No.
1	500	2.80 (71.10)	.10" (2.54mm) Width ESD Shaft	.12" (3.05mm) Diameter, Knit Polyester Tip	31040ESD-ND	91.91	83.06	77.52	31040ES
	500	2.80 (71.10)	.10" (2.54mm) Width Polypropylene Shaft	.13" (3.30mm) Diameter, Foam Polyurethane Tip	41050-ND	38.13	34.46	32.16	41050
	500	2.80 (71.10)	.10" (2.54mm) Width ESD Shaft	.13" (3.30mm) Diameter, Foam Polyurethane Tip	41050ESD-ND	82.78	74.81	69.82	41050ES
2	500	3.20 (81.28)	.10" (2.54mm) Width Polypropylene Shaft	.11" (2.79mm) Diameter, Foam Polyurethane Tip	44070-ND	38.13	34.46	32.16	44070
	500	3.20 (81.28)	.10" (2.54mm) Width ESD Shaft	.11" (2.79mm) Diameter, Foam Polyurethane Tip	44070ESD-ND	82.78	74.81	69.82	44070ES
	50	6.70 (170.18)	Polypropylene Shaft	Tapered Applicator Porous Polyvinylidene Fluoride Tip	CM502-ND	29.10	26.30	24.55	CM502
3	500	6.00 (152.40)	.09" (2.29mm) Width Wood Shaft	.47" (11.94mm) Diameter, Polyurethane Foam over Cotton Tip	23110-ND	38.13	34.46	32.16	23110
4	25	6.30 (160.02)	.12" (3.05mm) Width Glass Filled Nylon Shaft	.26" (6.60mm) Diameter, Knit Polyester Tip	52121-ND	38.13	34.46	32.16	52121

More Product Available Online: www.digikey.com
Toll-Free: 1-800-344-4539 • Phone: 218-681-6674 • Fax: 218-681-3380

Flux-Core Solders



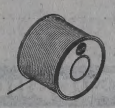
Alloy	Melting Range (°F)	Recommended Use
		Tin-Lead
Sn63Pb37	361	Most common, tin-lead eutectic used in PCB assembly applications
Sn60Pb40	361-374	Used in single-sided board soldering and solder dipping operations
		Lead-Free
AF-A-LLOY	426-454	Special alloy developed for general use where lead free solder is mandated
		Other Alloys
62Pb36Ag02	354-372	Used on silver coated ceramics and PbAg substrates, prevents silver leeching
43Pb43Bi14	291-325	Used in low temperature electronic assembly applications

44" RA Solders

ster "44" has virtually dominated the field of activated rosin core solders for well over decades. An outstanding performance feature of this flux is the "instant wetting" on. The high mobility and fast spreading action of this flux results in more reliable duction line soldering. Available in 1 Lb. and 1/2 Lb. spools. Gold Label.

scription	Digi-Key Part No.	Price Each 1	5	10
RA Solder "44", 63/37, 1 Lb. (.45 kg) Spool				
Gauge Solder, 3.3% Flux, .062" (1.57mm) dia.	KE1100-ND	14.00	12.60	11.20
Gauge Solder, 3.3% Flux, .050" (1.27mm) dia.	KE1108-ND	14.50	13.05	11.60
Gauge Solder, 3.3% Flux, .040" (1.02mm) dia.	KE1101-ND	15.25	13.73	12.20
Gauge Solder, 3.3% Flux, .031" (.79mm) dia.	KE1102-ND	13.50	12.15	10.80
Gauge Solder, 3.3% Flux, .025" (.63mm) dia.	KE1109-ND	18.50	16.65	14.80
Gauge Solder, 3.3% Flux, .020" (.51mm) dia.	KE1103-ND	24.50	22.05	19.60
Gauge Solder, 3.3% Flux, .015" (.38mm) dia.	KE1110-ND	31.75	28.58	25.40
RA Solder "44", 63/37, 1/2 Lb. (.23 kg) Spool				
Gauge Solder, 3.3% Flux, .031" (.79mm) dia.	KE1111-ND	9.75	8.78	7.80
Gauge Solder, 3.3% Flux, .025" (.63mm) dia.	KE1112-ND	10.63	9.57	8.50
Gauge Solder, 3.3% Flux, .015" (.38mm) dia.	KE1113-ND	18.05	16.25	14.44
RA Solder "44", 60/40, 1 Lb. (.45 kg) Spool				
Gauge Solder, 3.3% Flux, .062" (1.57mm) dia.	KE1104-ND	13.75	12.38	11.00
Gauge Solder, 3.3% Flux, .050" (1.27mm) dia.	KE1115-ND	14.25	12.83	11.40
Gauge Solder, 3.3% Flux, .040" (1.02mm) dia.	KE1105-ND	15.25	13.73	12.20
Gauge Solder, 3.3% Flux, .031" (.79mm) dia.	KE1106-ND	13.50	12.15	10.80
Gauge Solder, 3.3% Flux, .025" (.63mm) dia.	KE1116-ND	18.25	16.43	14.60
Gauge Solder, 3.3% Flux, .020" (.51mm) dia.	KE1107-ND	24.50	22.05	19.60
RA Solder "44", 60/40, 1/2 Lb. (.23 kg) Spool				
Gauge Solder, 3.3% Flux, .031" (.79mm) dia.	KE1117-ND	8.88	7.99	7.10
Gauge Solder, 3.3% Flux, .025" (.63mm) dia.	KE1118-ND	9.38	8.44	7.50

405" No-Clean Cored Solder Rosin-Free Flux



ter "405" Rosin-Free low residue flux for cored solder wire was developed to mpletely eliminate R-42 sensitizers commonly found in rosin-based fluxes. The 5" flux has performance characteristics far exceeding standard No-Clean fluxes out any of the sensitizer issues. The Kester "405" is classified as type RELO per ANSI/J-STD-004. 1.0% flux per weight of solder wire.

formance Characteristics: • Nearly colorless translucent residues • Improves ting performance • Excellent solderability and fast wetting to a variety of surface hes • Eliminates the need and expense of cleaning • Low smoke • Low odor

scription	Digi-Key Part No.	Price Each 1	5	10
No Clean Solder "405", 63/37, 1 Lb. (.45 kg) Spool				
Gauge Solder, 1.0% Flux, .062" (1.57mm) dia.	KE1517-ND	14.00	12.60	11.20
Gauge Solder, 1.0% Flux, .050" (1.27mm) dia.	KE1518-ND	14.50	13.05	11.60
Gauge Solder, 1.0% Flux, .040" (1.02mm) dia.	KE1519-ND	15.25	13.73	12.20
Gauge Solder, 1.0% Flux, .031" (.79mm) dia.	KE1520-ND	13.50	12.15	10.80
Gauge Solder, 1.0% Flux, .025" (.63mm) dia.	KE1521-ND	18.50	16.65	14.80
Gauge Solder, 1.0% Flux, .020" (.51mm) dia.	KE1522-ND	24.50	22.05	19.60
Gauge Solder, 1.0% Flux, .015" (.38mm) dia.	KE1523-ND	31.75	28.58	25.40
Gauge Solder, 2.2% Flux, .031" (.79mm) dia.	KE1524-ND	13.50	12.15	10.80
Gauge Solder, 2.2% Flux, .020" (.51mm) dia.	KE1525-ND	24.50	22.05	19.60

245" No-Clean Solders

ter "245" Low Residue Solder was developed to complement the newer generations Low Residue Fluxes being used in the electronics industry. The use of "245" Low idue Flux results in visually acceptable assemblies without the need for cleaning. dering quality and efficiency is comparable to that of a RMA flux. 1.1% flux standard, % and 3.3% for faster wetting action. Cream label.

scription	Digi-Key Part No.	Price Each 1	5	10
No Clean Solder "245", 63/37, 1 Lb. (.45 kg) Spool				
Gauge Solder, 1.1% Flux, .062" (1.57mm) dia.	KE1399-ND	14.00	12.60	11.20
Gauge Solder, 1.1% Flux, .050" (1.27mm) dia.	KE1402-ND	14.50	13.05	11.60
Gauge Solder, 1.1% Flux, .040" (1.02mm) dia.	KE1403-ND	15.50	13.95	12.40
Gauge Solder, 1.1% Flux, .031" (.79mm) dia.	KE1400-ND	16.75	15.08	13.40
Gauge Solder, 1.1% Flux, .025" (.63mm) dia.	KE1404-ND	18.50	16.65	14.80
Gauge Solder, 1.1% Flux, .020" (.51mm) dia.	KE1401-ND	24.75	22.28	19.80
Gauge Solder, 1.1% Flux, .015" (.38mm) dia.	KE1405-ND	31.75	28.58	25.40
No-Clean Solder "245", 63/37 1/2 Lb. (.23 kg) Spool				
Gauge Solder, 1.1% Flux, .020" (.51mm) dia.	KE1406-ND	16.38	14.74	13.10
Gauge Solder, 1.1% Flux, .015" (.38mm) dia.	KE1407-ND	18.08	16.27	14.46
No-Clean Solder "245", 63/37 1 Lb. (.45 kg) Spool				
Gauge Solder, 2.2% Flux, .031" (.79mm) dia.	KE1408-ND	16.75	15.08	13.40
Gauge Solder, 2.2% Flux, .020" (.51mm) dia.	KE1409-ND	24.75	22.28	19.80
No-Clean Solder "245", 63/37 1 Lb. (.45 kg) Spool				
Gauge Solder, 3.3% Flux, .031" (.79mm) dia.	KE1410-ND	16.75	15.08	13.40

"285" RMA Solders

Kester "285" has been developed for the use in the electronics industry where difficult assemblies are to be soldered, but process requirements stipulate use of a mildly activated rosin flux. Kester "285" mildly activated rosin flux is classified as Type ROL1 flux under IPC ANSI/J-STD-004 Standards. Green Label.

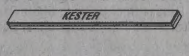
Description	Digi-Key Part No.	Price Each 1	5	10
RMA Solder "285", 63/37, 1 Lb. (.45 kg) Spool				
16 Gauge Solder, 2.2% Flux, .062" (1.57mm) dia.	KE1199-ND	14.00	12.60	11.20
21 Gauge Solder, 2.2% Flux, .031" (.79mm) dia.	KE1200-ND	16.75	15.08	13.40
25 Gauge Solder, 2.2% Flux, .020" (.51mm) dia.	KE1201-ND	24.75	22.28	19.80
28 Gauge Solder, 2.2% Flux, .015" (.38mm) dia.	KE1203-ND	31.75	28.58	25.40

"331" Organic Water Soluble Flux

Kester "331" Organic Flux is a water soluble formula for use in flux-cored solder wire. Kester "331" flux is more effective than rosin fluxes in soldering difficult metals and allows a simple water wash for flux cleanup. The flux is more heat stable than most organic fluxes, resulting in minimal smoke and odor. The residue can be completely removed with a simple water rinse. Kester "331" is classified as type ORH1 per IPC ANSI/J-STD-004. Red Label.

Description	Digi-Key Part No.	Price Each 1	5	10
Water Soluble Solder "331", 63/37, 1 Lb. (.45 kg) Spool				
16 Gauge Solder, 3.3% Flux, .062" (1.57mm) dia.	KE1299-ND	14.00	12.60	11.20
21 Gauge Solder, 3.3% Flux, .031" (.79mm) dia.	KE1300-ND	16.75	15.08	13.40
23 Gauge Solder, 3.3% Flux, .025" (.63mm) dia.	KE1302-ND	18.50	16.65	14.80
25 Gauge Solder, 3.3% Flux, .020" (.51mm) dia.	KE1301-ND	24.75	22.28	19.80
28 Gauge Solder, 3.3% Flux, .015" (.38mm) dia.	KE1303-ND	31.75	28.58	25.40
Water Soluble Solder "331", 60/40, 1 Lb. (.45 kg) Spool				
16 Gauge Solder, 3.3% Flux, .062" (1.57mm) dia.	KE1304-ND	14.00	12.60	11.20
21 Gauge Solder, 3.3% Flux, .031 (.79mm) dia.	KE1305-ND	14.38	12.94	11.50

Specialty Solders and Accessories



Description	Digi-Key Part No.	Price Each 1	5	10
Solid Wire Solder (No Flux), 1 Lb. (.45 kg) Spool				
16 Gauge Solder 63/37, .062" (1.57mm) dia.	KE1603-ND	14.00	12.60	11.20
21 Gauge Solder 63/37, .031" (.79mm) dia.	KE1606-ND	12.63	11.37	10.10
21 Gauge Solder 60/40, .031" (.79mm) dia.	KE1604-ND	13.50	12.15	10.80
25 Gauge Solder 60/40, .020" (.51mm) dia.	KE1605-ND	24.50	22.05	19.60
Specialty Solders, 1 Lb. (.45 kg) Spool				
18 AWG Silver Solder, 62/36/2, RA Flux .050" (1.27mm) dia.	KE1119-ND	31.33	28.20	25.06
21 AWG Low Temp Solder, 43/43/14, No-Clean	KE1353-ND	22.18	19.96	17.74
Bar Solder				
Oxide Free Solder (E-Bar), 63/37, 1 Lb. (.45 kg)	KE1600-ND	13.63	12.27	10.90
Oxide Free Solder (E-Bar), 60/40, 1 Lb. (.45 kg)	KE1601-ND	13.28	11.95	10.62
Premium Oxide Free Solder (Ultrapure), 63/37, 1.6 Lbs. (.73 kg)	KE1602-ND	13.75	12.38	11.00
Boxed Solder				
Pocket Pak Solder, No-Clean 21 Gauge 60/40	KE1801-ND	1.70	1.53	1.36
Elec. Silver Solder, RA Flux, 24 Gauge .35oz. (9.92g) Tube	KE1802-ND	1.30	1.17	1.04

Solder Paste

Kester solder paste was developed for applications of surface mount PCBs and components. All pastes are SN63/PB37 with a mesh size of -325 to +500 (25 to 40 microns) and come in 35gm syringes for hand dispensing. R276 No-Clean formulation provides optimal performance in all types of dispensing applications. Designed for reflow practices that don't require cleaning of the PCB. R500 Water Soluble solder paste is aggressive enough to remove tenacious oxide layers and offers excellent wetting characteristics. **Pastes should be refrigerated to preserve their usable life.**

Note: To ensure customer satisfaction and product integrity, pastes must be shipped overnight or 2nd Day Air only. Tips are not included.

Description	Digi-Key Part No.	Price Each 1	5	10
Plunger for 35gm Syringe	KE1505-ND	1.10	.99	.88
No-Clean Paste, 35gm Syringe (R276)	KE1507-ND	42.00	37.80	33.60
Water Soluble Paste, 35gm Syringe (R500)	KE1512-ND	42.00	37.80	33.60

Paste Flux and Liquid Flux Pens

Flux - Pen

Rosin Paste

Syringe

Kester flux pens use a spring-loaded tip to dispense just the right amount of flux while preventing the flux inside from drying out. Tacky Solder Flux is a No-Clean paste flux that maintains its characteristics for up to 8 hours after dispensing and can be used in a wide range of temperature and humidity conditions. Can reflow in both air and nitrogen environments. SP244 is a mildly activated rosin paste flux designed to be used as a No-Clean formula for rework applications.

Description	Digi-Key Part No.	Price Each 1	5	10
SP44 Activated Rosin Paste Flux, 2 oz (56.70g) Can	KE1700-ND	3.10	2.79	2.48
SP44 Activated Rosin Paste Flux, 1 Lb. (.45 kg) Can	KE1701-ND	10.50	9.45	8.40
Flux Pen - Formula 186 RMA	KE1803-ND	3.70	3.33	2.96
Flux Pen - Formula 951 No-Clean	KE1804-ND	3.70	3.33	2.96
Flux Pen 2331-ZX Water-Soluble	KE1808-ND	3.70	3.33	2.96
Tacky Solder Flux No-Clean, 10gm Syringe	KE1806-ND	19.25	17.33	15.40
Tacky Solder Flux No-Clean, 30gm Syringe	KE1807-ND	57.75	51.98	46.20

J

BK PRECISION

SETTING NEW STANDARDS IN PERFORMANCE & VALUE

Handheld 3.3GHz Spectrum Analyzer

High-performance spectrum analyzer providing excellent performance and functions perfect for many different applications. It is a compact, lightweight inexpensive unit that is ideal for testing W-CDMA, CDMA, GSM, PDC, PHS, Wireless LAN and Bluetooth systems.

Accessories Included: AC Adapter, Rechargeable Battery Pack, Soft Carrying Case

Features: Channel power measurement, Adjacent channel power measurement, Occupied bandwidth measurement, Electric field strength measurement (with optional dipole antennas), Magnetic field strength measurement (with optional PR26M), Min/Max hold, Average and over write mode, Marker measurement, Switchable 50 or 75 ohm input impedance, Peak search, Auto tuning, Auto range and Save/Load

BK2650-ND 3.3GHz Handheld Analyzer **$4750.02**

Function Generators

Model BK4040

FEATURES AND SPECIFICATIONS: Waveforms: Sine, Square, Triangle, ±Pulse, ±Ramp. Variable DC Offset and Duty Cycle. **Sweep LIN & LOG:** 1000:1. **Frequency Counter Accuracy:** Time Base ±1 count. ***General:*** **Power:** 120-230VAC +10% 50/60Hz Internal jumper selectable. ***Accessories:*** BNC to Alligator Cable, Instruction Manual. **2 Year Warranty.**

Model BK4001A: Sweep/Function Generator in 6 Ranges from 0.5Hz to 4MHz Range. Coarse and Fine Tuning. **Dimensions:** 10.83 x 3.6 x 11.8".

Model BK4010A: 7 Ranges from 0.2Hz to 2MHz Range. Coarse Tuning. **Dimensions:** 10.51 x 4.49 x 12.24".

Model BK4011A: Function Generator. 4 Digit LED Digital Display (4 digit Display Resolution). 7 Ranges from 0.5Hz to 5MHz Range. Variable Duty Cycle and DC Offset. Coarse and Fine Tuning. **Dimensions:** 10.51 x 4.49 x 12.24".

Model BK4017A: 5 Digit LED Digital Display (5 digit Display Resolution). 8 Ranges from 0.1Hz to 10MHz Range. Coarse and Fine Tuning. Extended Sweep/Modulation Input: 0-10V. **Dimensions:** 4.49 x 11.73 x 10.39".

Model BK4040A: Sweep/Function Generator with Frequency Counter. 5 Digit LED Display (5 digit Display Resolution). 8 Ranges from 0.2Hz to 20MHz Range. AM and FM Modulation. Burst Operation. 30MHz External Frequency Counter. Selectable Linear or Log Sweep. Extended Sweep/Modulation Input: 0-10V. Coarse and Fine Tuning. **Dimensions:** 10.51 x 4.49 x 12.24".

BK4001A-ND	4MHz Sweep/Function Generator	**$199.00**
BK4010A-ND	2MHz Function Generator	**$250.00**
BK4011A-ND	5MHz Function Generator with Digital Display	**$315.00**
BK4017A-ND	10MHz Sweep/Function Generator with Digital Display	**$399.00**
BK4040A-ND	20MHz Sweep/Function Generator with Frequency Counter and Digital Display	**$599.00**
LC-40B-ND	Carrying Case (1 Year Warranty) (For all models except BK4001A)	**$90.00**

Function and Arbitrary Waveform Generator

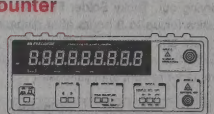
Model BK4070A: Function and Arbitrary Waveform Generator.

Operating Modes: **Basic Sinewave (CW) Mode:** 0Hz to 21.5MHz, .01Hz steps. **Frequency Modulation (FM) Mode and Phase Modulation (PM) Mode:** Internal modulation frequency: 0Hz to 10kHz. External modulation frequency: DC to 35kHz. **Voltage Controlled Oscillator Mode (VCO):** Endpoint frequency: 0Hz to 21.5MHz, .01Hz steps. **Burst Mode:** Continuous or Triggered via Front Panes, RS232, or Ext. TTL. **Dual Tone Multi Frequency (DTMF) Generate Mode:** Dialing digits generated: 0 to 9, #, *, A, B, C, D. **Dual Tone Generation Mode:** Tone 1, Tone 2 Frequency: DC to 10kHz, 1Hz steps. **Sweep Mode:** Start/Stop frequency: 0Hz to 21.5MHz. **Function Generator Mode:** Waveforms: Positive/Negative Ramp, Triangle, Exponentials, Noise, Sine Repetition rate: 0Hz to 2MHz in 1Hz steps. **Binary Phase Shift Keying (BPSK) Mode. Amplitude Modulation (AM) Mode. Single Sideband (SSB) Mode. Frequency Shift Keying (FSK) Mode. Data Modulation Mode. Power and Voltage Measurement Mode. Dual Tone Multi Frequency (DTMF) Detect Mode. Arbitrary Waveform Generation Mode:** Vertical Resolution: 12 bits. Sample update rate: DC-40 MHz in .01Hz steps. Sample buffer depth: 32,768 points. **Pulse Generator Mode:** Frequency: 0Hz to 2MHz in 1Hz steps. Duty cycle: 0% to 100% in 1% steps. **Main Output:** Frequency: DC to 21.5MHz, .01Hz steps. Level: 4mVp-p to 10Vp-p. **External Modulation Input. RS232 port. Sync Output. Ext. Trigger/Gating/FSK/BPSK input.**

General: **Power:** 100-240 VAC, 47-63Hz, 30W. **Display:** 2 line x 40 Character, LCD backlit. **Weight:** Approximately 3.5 lbs (1.6kg). **Dimensions:** 5.5 x 11.75 x 10.38" **Operating Temperature:** 32°F ~ 104°F (0°C ~ 40°C) ambient.

BK4070A-ND Waveform Generator **$1525.00**

NEW! Frequency Counter



Model 1856D: 3.5GHz Multifunction Counter (Frequency, Period, Totalize) Benchtop with .56 inch high 9-Digit LED Display. **Frequency:** 0.1Hz ~ 3.5GHz **Period Characteristics: Range:** 10ns to 10s **Input Characteristics: Impedance:** 50 Ω ±5% **Totalize Start/Stop Input: Logic Levels:** Standard TTL Levels **Time Base Characteristics: Standard Type:** TCO **Frequency:** 10MHz **Stability:** ±1ppm ±10% line voltage variation **Temperature Stability:** ±5ppm 0°C ~ 50°C **Dimensions:** 9.4 x 3.5 x 10.6" **Power:** 115VAC ±10% 50/60Hz **Accessories Included:** Instruction Manual

BK1856D-ND 3.5GHz Benchtop Multifunction Counter **$499.00**

Oscilloscopes

Demodulator Probe for Oscilloscopes

All purpose demodulator/detector probe with BNC Connector, usable with most oscilloscopes. Features include lightweight design and 1.2m coaxial cable. Probe bodies are constructed of rugged plastic and shielded. Ergonomically designed handle. **Input Voltage:** 200V Max. **HF Voltage:** 50Veff. Max. **Band Width:** 100kHz to 950MHz. **Input Impedance:** 5pF.

PR-32A-ND **$64.00**

30, 60, 100 MHz Dual Trace Oscilloscope

Model BK2160A

General Specifications: **Power Source:** 115/230VAC ±10%, 50/60Hz **Accessories Supplied:** Two 10:1 Probes, Power Cord, Instruction Manual.

Model BK2120B: 30MHz Dual-Trace operation. 1 mV/div. sensitivity. AUTO-NORM triggered sweep operation with AC, TVH, TVV, line coupling and DC. Calibrated 23 step timebase with x10 magnifier. Approx. 40W. **Dimensions:** 14.5 x 7 x 17.3". **2 Year Warranty.**

Model BK2160A: 60MHz Dual-Trace 1 mV/div sensitivity. Sweep to 5 nS/div. **Main Time Base:** 23 calibrated ranges. **Delayed Time Base:** 19 calibrated ranges. Signal delay line. V-mode displays two signals unrelated in frequency. Component tester. Z-axis input. Single sweep. Beam finder. **Dimensions:** 5.3 x 13 x 16". **3 Year Warranty.**

Model BK2190B: 100MHz Dual-Trace Dual Time Base Oscilloscope. 1mV/div sensitivity. Sweeps to 5nS/division. **Main Time Base:** 22 calibrated ranges. **Delayed Time Base:** 19 calibrated ranges. Calibrated delay time multiplier. **Signal Delay Line:** 15kV accelerating voltage. **Channel 1 output:** Output Voltage: Approx. 100mV/division open circuit. Approx. 50mV/division into 50Ω. Output Impedance: Approximately 50Ω. Approx. 60W. **Dimensions:** 5.5 x 12.6 x 16.9". **3 Year Warranty.**

BK2120B-ND	30MHz	**$549.00**
BK2160A-ND	60MHz	**$1099.00**
BK2190B-ND	100MHz	**$1599.00**
LC-210A-ND	Carrying Case (1 Year Warranty) (For models BK2120B and BK2190B only)	**$99.00**

Oscilloscope Probes

Model BKPR33A: Bandwidth: 90MHz (15MHz) **Division Ratio:** x10 (x1). **Input R:** 10MΩ (1MΩ). **Input C:** 15pF (45pF). **Compensation:** 15 ~ 35pF. **Max Voltage:** 600V (200V). **Length:** 1.32 meters approx. **Connector:** BNC. **Three month warranty.**

Model BKPR-37AR: Bandwidth: 150MHz (6MHz). **Division Ratio:** x10 (x1). **Input R:** 10MΩ (1MΩ). **Input C:** 15pF (100pF). **Compensation:** 15 ~ 35pF. **Max Voltage:** 600V. **Length:** 1.32 meters approx. **Connector:** BNC. **Six month warranty.**

Model BKPR100A: Bandwidth: 250MHz. **Division Ratio:** x100. **Input R:** 100MΩ. **Input C:** 6.5pF. **Compensation:** 10 ~ 35pF. **Max Voltage:** 1200V. **Length:** 1.37 meters approx. **Connector:** BNC. **Six month warranty.**
NOTE: Specifications in ( ) refer to x1 position.

BKPR-33A-ND		**$34.95**
BKPR-37AR-ND		**$49.00**
BKPR-100A-ND		**$67.00**

DC Power Supplies

Regulated 28A DC Power Supply

Models BK1689, BK1690: Overload protection, High RFI stability, Multiple DC output terminals. ***Features:*** **Output Voltage:** DC 1-15V Variable. **Output Current:** 28A (at 13.8V). **Ripple and Noise:** 5mV (peak to peak). **Line Regulation:** 5mV (± 2% Load). **Load Regulation:** 50mV (0-100% Load).

BK1689-ND	Precision Analog	**$275.00**
BK1690-ND	Digital LED	**$349.00**

High Current Linear Power Supply

Model BK1791: Current, limiting, reverse polarity, overvoltage, short circuit ***Features:*** **Output Voltage:** 0-64V. **Output Current:** 10A. **Metering:** LED.

BK1791-ND **$1350.00**

DC Power Supplies to 240W Output

Model BK1746A

Short circuit protection, overload protection, reverse polarity protection, thermal protection, and current limiting. CV and CC operation, 0.02% +2mV line and 0.04%+2mV load regulation (zero to full load), adjustable current limits (five to 100%), low ripple (≤1mVrms), fast recovery time (≤100μS), and operate from 120VAC ±10%, 60Hz. **Dimensions:** 5.7 x 10.5 x 15". Test Lead Set TL-5A and TL-30 sold separately. **2 Year Warranty.**

Model BK1746A: Single 0-16V, 0-10A output. Two analog meters. **Voltmeter:** 0-16V ±2.5%. **Ammeter:** High Range = 0-11A, Low Range = 0-2.2A, Accuracy = ±2.5%. **Power Consumption:** 380W.

Model BK1740A: Single 0-60V, 0-4A output. Two analog meters. **Voltmeter:** 64V ±2.5%. **Ammeter:** High Range = 0-4.4A, Low Range = 0-1.1A, Accuracy = ±2.5%. **Power Consumption:** 450W.

Model BK1743A: Single 0-35V, 0-6A output. Two 3-digit LED meters. **Voltmeter:** 0-99.9V (green) ± (0.5% rdg + 2 digits). **Ammeter:** High Range = 0-9.99A (red), Accuracy = ±(0.5% rdg + 2 digits). **Power Consumption:** 420W.

BK1746A-ND		**$525.00**
BK1740A-ND		**$525.00**
BK1743A-ND		**$525.00**

Single Output Power Supply

Model BK1730A

Short circuit protection, overload protection, reve polarity protection, thermal protection, and curr limiting. CV and CC operation, 0.01% +3mV line and regulation (zero to full load), adjustable current limits 100%), low ripple (≤1mVrms), fast recovery ti (≤100μS), and operate from 120 VAC ±10%, 60 **Dimensions:** 6.2 x 5.5 x 12.5". Test Lead Set TL-5A TL-30 sold separately. **2 Year Warranty.**

Model BK1710A: Single 0-30V, 0-1A output. Two analog mete **Voltmeter:** 0-32 ±2.5%. **Ammeter:** High Range = 0-1.04A, Low range = 0.26A, Accuracy = ±2.5%. **Power Consumption:** 70W.

Model BK1711A: Single 0-60V, 0-2A output. Two analog meters. V **meter:** 0-64 ±2.5%. **Ammeter:** High Range = 0-2.2A, Low range = 0-0.5 Accuracy = ±2.5%. **Power Consumption:** 210W.

Model BK1715A: Single 0-60V, 0-2A output. Two 3-digit LED mete **Voltmeter:** 0-99.9V (green) ± (0.5% rdg + 2 digits). **Ammeter:** Range = 9.99A (red), Accuracy = (0.5% rdg + 2 digits). **Power Consumption:** 210W.

Model BK1730A: Single 0-30V, 0-3A output. Two analog meters. V **meter:** 0-32 ±2.5%. **Ammeter:** High Range = 0-3.2A, Low range = 0-0.5 Accuracy = ±2.5%. **Power Consumption:** 180W.

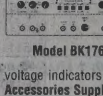
Model BK1735A: Single 0-30V, 0-3A output. Two 3-digit LED meters. V **meter:** 0-99.9V ±0.5%. **Ammeter:** Range = 0-9.99A, Accuracy = ±0.5 **Power Consumption:** 180W.

BK1710A-ND		**$239.**
BK1711A-ND		**$320.**
BK1715A-ND		**$399.**
BK1730A-ND		**$325.**
BK1735A-ND		**$399.**

Power Supply Hook-up Cables

TL-5A-ND	5A Power Supply Leads	**$9.**
BKTL-30-ND	30A Power Supply Leads	**$13.**

Triple Output Power Supply



Model BK1760

Two Main sections capable of independent tracking operation (Master & Slave). One fi section. Switchable series/parallel operation a adjustable current limit controls for Main sectio Two displays: one reads volts or amps of "sla supply; one reads volts or amps of "mast supply or fixed supply. Constant current a voltage indicators for Main sections. **Power Source:** 120VAC, +10% 60 **Accessories Supplied:** Spare fuse, Instruction Manual, Power Cord. Test L Set TL-5A is sold separately.

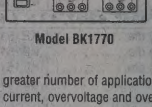
Model BK1760A: Two 0-30VDC, 2A sections; One 4-6.5VDC 5A sectio Switchable series/parallel operation for 24V sections. Two 3-Digit L Displays. **Dimensions:** 5.7 x 10.5 x 15". **2 Year Warranty.**

Model BK1651A: Two 0-24VDC 500mA sections; One 5VDC 4A sectio Switchable series/parallel operation for 24V sections. Two Analog Displa **Accessories Included:** Test leads (3 Pairs). **Dimensions:** 5.5 x 11.7 10.975". **1 Year Warranty.**

Model BK1670A: Produces three outputs simultaneously. #1=30VDC 3A, #2=12VDC @ 500mA and #3=5VDC @ 500mA. Two 3-Digit LED Displa **Dimensions:** 5.5 x 5.9 x 9.45". **1 Year Warranty.**

BK1760A-ND		**$650.**
BK1651A-ND		**$435.**
BK1670A-ND		**$189.**

Programmable Power Supplies



Model BK1770

Models BK1775, BK1770

Standard GPIB Interface: Greater flexibil interfacing with a number of third party GP cards, computers and controllers. **Load Effe** 0.001% +1mV; 1mA current. **Parallel and Seri Operation:** (1775) Increases useable voltage a current capabilities for a wider variety applications. One power supply satisfies greater number of applications. **Front Panel Keypad:** Easy entry to set voltag current, overvoltage and over-current. **Remote Sensing:** Maintains set volta regardless of lead loss. **Backlit LCD Display:** Vital output information, voltag current and operating mode. **True RMS Reading Metering:** Reliable means comparing dissimilar waveforms. **50k MTBF:** High reliability with downtime.

General Specifications: **Programming Accuracy:** Voltage: 0.05% +2LS Current: 0.15% +5LSB. **PARD:** Voltage: .01mVrms/10m Vp-p; Curre 1mArms. **AC Input:** 115/220 VAC. **Operating Temp. Ratings:** 0°C ~ 50° **Storage Temperature Ratings:** -40°C ~ 70°C. **GPIB Interface Capabili** SH1, AH1, T6, TED, L4, LED, AL1 SRD, DC1, DTD, C0, E1. **Weight:** 1770: lbs. (8.1kg); 1775: 20 lbs (9 kg). **Dimensions:** 8.4 x 5.2 x 15.7". **3 Ye Warranty.**

Model BK1775: 0-35V, 0-2A DC output • Programming Resolution: 10m 0.6mA, 200mV DVP.

Model BK1770: 0-17.5V; 0-35V, 0-6A; 0-3A DC output • Programmi Resolution: 10mV, 2mA, 200mV DVP.

BK1775-ND		**$1295.**
BK1770-ND		**$950.**

Models BK1785A, BK1786A, BK1787A

Ripple and Noise (RMS): 1mV. **Line Regulation:** 0.02% +5mV. **Lo Regulation:** 0.02% +5mV. **PC Interface (included):** Computer serial interfac **Operating Voltage:** 120 VAC, 60Hz. **Dimensions:** 8.6 x 4.5 x 10.6". **Acce sories Supplied:** User manual, serial cable, Windows™ and DOS softwar **Weight:** Approximately 11 lbs. (5 kgs). **Display:** 3 Digit LED voltmeter a ammmeter.

BK1785A-ND	0-18V, 5A DC Output	**$375.0**
BK1786A-ND	0-30V, 3A DC Output	**$375.0**
BK1787A-ND	0-60V, 1.5A DC Output	**$375.0**

More Product Available Online: www.digikey.com

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BK PRECISION
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Multimeters

amp-on Multimeters

cifications:

er Requirements: One 9V battery **Jaw Opening:** 2.24" 9mm) for Models 312A, 330B, 350B, and 369B; 1.75" 45mm) for Model 367 **Accessories Included:** Battery, leads, instruction manual, Carrying case

del BK330B: AC Current: 200A to 1000A, 2 Ranges, 5% rdg + 5D) Accuracy, 1200A overload protection **AC age:** 750V, ±(1.2% rdg +5D) Accuracy, 1000V DC/750V overload protection, 4.5MΩ Input impedance **DC age:** 1000V, ±(0.5% rdg + 1D) Accuracy, 1000V 750V RMS overload protection, 10MΩ Input Impedance istance: 200Ω to 2000MΩ, 14 Ranges **Dimensions:** x 3.6 x 1.7" **Weight:** 17 oz. (481.9gm) ***Features:*** • Con- ty • Diode • 2000 Count Resolution • Data hold • Max. • UL Listed

del BK350B: AC Current: 32A to 1000A, 3 Ranges, ±(1.5% rdg + 5D) uracy, 1200A overload protection **AC Voltage:** 320mV to 1000V, 5 ges, ±(1.5% rdg + 4D) Accuracy, 1000V DC/750V RMS overload ection, 10MΩ overload protection **DC Voltage:** 320mV to 1000V, 5 ges, ±(0.5% rdg + 1D) Accuracy, 1000V DC/750V RMS overload ection, 10MΩ Input Impedance **Resistance:** 320Ω to 2000MΩ, 14 ges **Frequency:** 320Hz to 32kHz, 3 Ranges, ±(1% rdg + 2D) Accuracy, / DC/AC RMS **Dimensions:** 10.8 x 3.6 x 1.7" **Weight:** 17 oz. (481.9gm) *tures:* • Continuity • Diode • 3200 Count Resolution • Bargraph • Data • Peak hold • Range hold • UL Listed

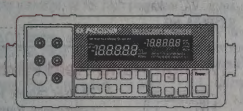
del BK367A: AC and DC Current: 400A to 2000A, 2 Ranges, ± (1.5% + 4D) Accuracy, 1000A overload protection **AC Voltage:** 750V, ± (0.5% + 4D) Accuracy, 1000V overload protection, 10MΩ Input Impedance **DC age:** 200V, ± (1% rdg + 2D) Accuracy. 500V overload protection. 10MΩ t Impedance **Resistance:** 40MΩ **Dimensions:** 10.8" x 3.6" x 1.7" mm x 90mm x 43mm) **Weight:** 18.3oz. (519g) **Features:** • Diode • 4000 nt Resolution • Data hold • Peak hold **Capacitance Range:** 40µF

del BK369B: AC and DC Current: 400A to 1000A, 2 Ranges, ±(1.5% rdg) Accuracy, 1200A overload protection **AC Voltage:** 400mV to 1000V, 5 ges, ±(1.5% rdg + 4D) Accuracy, 1000V DC/750V RMS overload ection, 10MΩ Input Impedance **DC Voltage:** 400mV to 1000V, 5 Ranges, % Accuracy, 1000V DC/750V RMS overload protection, 10MΩ Input edance **Resistance:** 400Ω to 40MΩ **Frequency:** 100Hz to 400kHz, 5 ges **Capacitance:** 4nF to 40µF **Dimensions:** 10.8 x 3.6 x 1.7" **Weight:** oz. (518.8gm) ***Features:*** • True RMS • Continuity • Diode • 4000 Count olution • Bargraph • Data hold • Peak hold • Range hold • Max/Min ative • UL Listed

30B-ND 200/1000A **$95.00**
50B-ND 32/320/1000A **$155.00**
67A-ND 400A/2000A **$209.00**
69B-ND 400/1000A **$189.00**
3-ND Carrying Case (1 Year Warranty) **$25.95**

nch DMM True RMS

del BK5492:
2 Digit Dual Display Bench M with 0.012% Basic Accu-



Model BK5492

• Selectable Count Reso- ns of 120,000, 40,000 and 0 count • Selectable 2 Wire 4 Wire Resistance Meas- nents • Measures Fre- cy to 1MHz with 0.01Hz Best Resolution • RS-232 Interface **Includes:** set of TL 36 Test Leads and AC 01 caps for TL 36

del BK2831C: DC Volts: • Ranges: 200mV, 2V, 20V, 200V, 1200V sic Accuracy: 0.1% +1 digit **AC Volts:** • Ranges: 200mV, 2V, 20V, 200V, V • Basic Accuracy: 0.5% +4 digits **DC Current:** • Ranges: 200µA, 2mA, A, 200mA, 2000mA, 20A **AC Current:** • Ranges: 200µA, 2mA, 20mA, mA, 2000mA, 20A **Resistance:** • Ranges: 200Ω, 2kΩ, 20kΩ, 200kΩ, kΩ, 20MΩ • Basic Accuracy: 0.2% rdg +1 digit **Diode Test:** Tested on range, 1mA test current **Continuity Check:** Audio tone for resistance r 10Ω **General Display:** 3-1/2 digit LCD, 0.5 inch LED **Power:** 120/240 50/60Hz (5W) **Operating Temperature:** 0°C ~ 40°C, 70%RH **Dimen- s:** 4.5 x 11.75 x 10.375"

92-ND **$695.00**
31C-ND **$299.00**
08-ND Carrying Case (1 Year Warranty) **$90.00**

gh Performance Dual-Display Multimeters

cifications: • 4,000/40,000 selectable display counts 50V AC • 6/1000V DC • ±(0.06% +3) basic DCV accu- • 6/10A AC and DC current • 6Ω to 40MΩ resistance to or manual ranging • Voltage range frequency of 0KHz on dual display • dB measurement • 7/9, 999µF citance • Bargraph • Min./Max., Data and Refresh hold lative zero • RS232 output • Diode and continuity test o-off

del BK2880A: DMM with AC Coupled RMS

del BK2890: DMM with frequency counter to 10MHz **RMS:** AC + (AC + DC) Coupled **Operating Temperature:** to 2502°F 2°C) **Square Wave Output:** 16/4.8KHz @ 0 to +3V **Timer + Signal Output:** Timer 99Kssc. @ 0 to +3V **Backlight**

80A-ND **$199.00**
90-ND **$299.00**

Analog Multimeter

Model BK114B:

20,000/Volt Multimeter. 28 ranges. 88.90mm mirrored scale. Tests batteries under load. Test transistors.

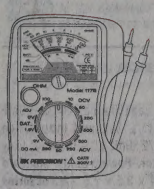
Power Source: Two 1.5 volt batteries and one 9V battery.

Size: 5.7 x 3.9 x 1.4".

Accessories Supplied: Batteries, test leads, transistor test leads, instruction manual.

BK114B-ND **$39.00**

Pocket Size Multimeter



Measures DC & AC Voltage: 50/250/500VAC, 10/50/250/500VDC scales with ±5% accuracy (full scale). 2000Ω/V.

Measures DC current: 25/250mA with ±5% accuracy (full scale).

Measures resistance: 0-10K/1MΩ, ±5% degree arc of scale length.

Measures decibel: +4dB to +56dB on AC voltage ranges.

Battery Test Range: 1.5V/9V.

Power Supply: One 1.5V, AA battery.

Dimensions: 3.1 x 4.7 x 1.2".

Accessories Supplied: Battery, test leads, and instruction manual.

BK117B-ND **$19.95**

Mini-pro Multimeter

Specifications:

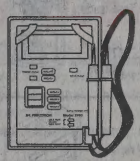
Digits: 2000. **Ranging:** Manual. **VDC:** 100mV-600V. **VAC:** 100mV-600V. **DC Current:** 0.1 mA-10A. **AC Current:** 0.1 mA-10A. **Resistance:** 200Ω - 20MΩ.

Features:

• Diode test • Continuity test • Non-contact voltage indicator • Data hold • MAX hold

BK2408-ND **$45.00**
LC-24-ND Carrying Case (1 Year Warranty) **$15.00**

Pocket DMM



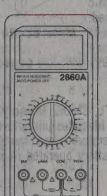
Pocket DMM. Analog bar graph with 32 segments. 3200 count LCD display. Auto power off. Low battery indicator. Range hold. Data hold. Integral test leads.

Power: Two 1.5V button type batteries. **Dimensions:** 4.4 x 2.2 x .4".

Accessories Supplied: Batteries, instruction manual, case.

BK2700-ND **$35.00**

3½ Digit Ruggedized DMM



The Survivor™. High Energy Fused Ruggedized DMM. 3-1/2 digit 20.32mm high contrast LCD display.

Audible Continuity: 20 Amp range.

Sampling: 2.5 times/sec. (nominal). Heavy Duty 1500VDC, 1000VAC rating. Water resistant case.

Power Requirements: Single 9V battery.

Auto Power Off: approx. 30 min.

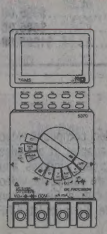
Dimensions: 6.9 x 3.5 x 1.5".

Accessories Supplied: Battery, test leads, instruction manual, rubber boot.

5 Year Warranty.

BK2860A-ND **$99.00**
LC-29B-ND Carrying Case (1 Year Warranty) **$18.95**

Premium DMM



All Models: • 50,000 count • True RMS, AC or AC + DC • Capacitance to 50,000 µF • Splashproof sealed case • IEC1010, class 2 safety compliance

• 3 Year Warranty

Model BK-5390:

• 0.025% DCV • 0.07%Ω • 100KHz AC response • Autoranging, bargraph with zoom • Frequency: Duty cycle, pulse width • dB Across: 1Ω to 10kΩ • Power Across: 1Ω to 10kΩ • Disturbance indicator • Min./Max./Avg.

BK5390-ND **$289.00**

"Tool Kit" Multimeters

Model BK-2704B

Display: 3-1/2 digit, high-contrast 0.7" (17.78mm) LCD, 1999 counts. **Sampling:** 3 times/sec. (nominal). 0.5%DCV accuracy. **Operating Temp:** 0°C ~ +50°C, 0% to 70% RH. **Power Requirements:** 9V battery. **Accessories Supplied:** Battery, drop resistant case, test leads, and instruction manual.

1 Year Warranty.

Model BK2708:

DC Volts: 1000V Max. **AC Volts:** 750V Max. **DC Current:** 10A Max. **AC Current:** 10A Max. **Resistance:** 0.1Ω-43MΩ

Features: • Auto Ranging • Logic probe

Model BK2707A:

DMM, component tester, frequency counter, and logic probe. **Voltage Range:** 200mV to 1000VDC; 200mV to 750VAC frequency counter. **Current Range:** 200µA to 10A. **Resistance:** 0.1Ω to 200MΩ. **Capacitance:** to 20µF. **Frequency:** 2kHz to 5MHz. **Logic Probe Function:** (TTL). **Transistor Gain Measure:** (hFE). **Dimensions:** 5.9 x 3.1 x 1.3".

Model BK2706A:

DMM, component tester, and temperature meter. **Voltage Range:** 200mV to 1000VDC; 200mV to 750VAC. **Current Range:** 200µA to 10A. **Resistance:** 0.1Ω to 20MΩ. **Capacitance:** to 20µF. **Frequency:** 10Hz to 15MHz. **Transistor Gain Measure:** (hFE). **Temperature:** 0°C to 750°C. Thermocouple probe included. **Dimensions:** 5.9 x 3.1 x 1.3".

Model BK2704B:

DMM, component tester. **Voltage Range:** 200mV to 1000VDC; 200mV to 750VAC. **Current Range:** 200µA to 10A. **Frequency:** 2kHz to 15MHz. **Resistance:** 0.1Ω to 20MΩ. **Capacitance:** to 20µF. **Transistor Gain Measure:** (hFE). **Dimensions:** 5.9 x 3.1 x 1.3".

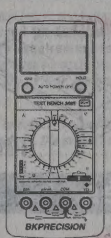
Model BK2703B:

DMM, **Voltage Range:** 200mV to 1000VDC; 200mV to 750VAC. **Current Range:** 200µA to 10A. **Resistance:** 0.1Ω to 20MΩ. **Dimensions:** 5.9 x 3.1 x 1.3".

BK2708-ND **$99.00**
BK2707A-ND **$89.00**
BK2706A-ND **$79.00**
BK2704B-ND **$59.00**
BK2703B-ND **$39.00**
LC-29B-ND Carrying Case (1 Year Warranty) **$18.95**

"Test Bench" Multimeters

HIGH ENERGY FUSED



Model BK388B

High quality, ruggedized, multi-function DMMs in a drop resistant case. Resistance and frequency measurement. Diode check. Auto power off. All current ranges fused. **Power Requirements:** Single 9V battery. **Dimensions:** 7.8 x 3.5 x 1.5".

Accessories Supplied: 9 Volt battery, test leads, instruction manual, rubber boot.

3 Year Warranty.

Model BK388B-ND:

3-3/4 Digit LCD Display (4000 count). **DC Volts:** 400mV to 1000V. **AC Volts:** 400mV to 750V. **DC/AC Current:** 400µA to 10A. **Resistance:** 400Ω to 40MΩ. **Diode Test:** at 1mA, 3.2VDC max. typ. **Capacitance:** 4nF to 40µF. **Frequency:** 4kHz to 4MHz. Logic level measure (TTL) Transistor gain (hFE) and peak hold.

Model BK390A-ND:

3-3/4 Digit LCD Display (4000 count). **Analog Bar Graph:** 41 Segments. **DC Volts:** 400mV to 1000V. **AC Volts:** 400mV to 750V. **DC/AC Current:** 400µA to 10A. **Resistance:** 400Ω to 40MΩ. **Diode Test:** at 1.2mA, 3.0VDC max. typ. **Capacitance:** 4nF to 40mF. **Frequency:** 4kHz to 40MHz. **Temperature Range:** -50°C ~ +1300°C (1°C resolution). Auto/manual ranging. Relative mode. Min/Max hold. Data hold. Memory. RS-232. Audible continuity. Thermocouple Probe included.

Model BK389A-ND:

3-3/4 Digit LCD Display (4000 count). **Analog Bar Graph:** 41 Segments. **DC Volts:** 400mV to 1000V. **AC Volts:** 400mV to 750V. **DC/AC Current:** 400µA to 10A. **Resistance:** 400Ω to 40MΩ. **Diode Test:** at 1.2mA, 3.0VDC max. typ. **Capacitance:** 4nF to 40mF. **Frequency:** 4kHz to 40MHz. Auto/manual ranging. Relative mode. Min/max hold. Data hold. Memory. Audible continuity.

Model BK391A-ND:

4-1/2 Digit LCD Display (20,000 count). **DC Volts:** 200mV to 1000V. **AC Volts:** 200mV to 750V. **DC/AC Current:** 400µA to 10A True RMS reading. **Resistance:** 200Ω to 20MΩ. **Diode Test:** at 1mA, 3.2VDC max. typ. **Frequency:** 2kHz to 200kHz. **Duty Cycle:** 0 to 90% (0.1% resolution). Data hold. Logic level measure (TTL).

BK388B-ND **$127.00**
BK390A-ND **$167.00**
BK389A-ND **$147.00**
BK391A-ND **$187.00**
LC-29B-ND Carrying Case (1 Year Warranty) **$18.95**

J

BK PRECISION
SETTING NEW STANDARDS IN PERFORMANCE & VALUE

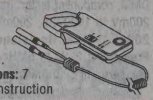
Accessories

Temperature Adapter

Type K thermocouple. Measures from -50°C ~ +1000°C. 1mV per degree. Measures temperature of any surface, liquid or gas. Converts any voltmeter to measure temperature. Open probe warning. **Power:** Standard 9V battery. **Dimensions:** 4.8 x 1.8 x 1.2". **Cable Length:** .914 meters. **Accessories Supplied:** TP-29.

TP-30B-ND **$74.95**

DC/AC Current Clamp Adapter



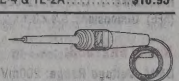
Measures current without disconnecting circuit under test. Measures to 400A DC or AC. Outputs 1 mV per Amp., operates on 2V range of any DMM. **Power Requirements:** 9V battery. **Operating Temp.:** 0° ~ 50°C, <70% RH. **Dimensions:** 7 x 2.8 x 1.3". **Accessories Included:** Battery, instruction manual.

BKCP-3-ND **$92.00**

Probes and Test Lead Sets

TP-29-ND Type K Bead Thermocouple Probe **$9.95**
BKTL-4-ND Universal Test Lead Set **$8.95**
TL-2A-ND Test Lead Set, Fully Shrouded SILIC, IEC61010-2-031 1,000V CATIII **$21.95**
TL-1-ND Test Lead Set, Fully Shrouded **$8.95**
TL-3-ND Test Lead Accessory Set for BKTL-4 & TL-2A **$16.95**

High-Voltage Probes



Model PR-28A: Accessory for DMM's Multiplies instrument ranges by 1000 (40V becomes 40,000V). PR-28 for use with any high impedance (10MΩ or greater) voltmeter. **Voltage Range:** 40kVDC and 20kVAC (60Hz). **Freq. Range:** DC-8Hz 20kVAC max. 60Hz. **Impedance:** 600MΩ accuracy: ±3% plus instrument accuracy. **Calibration:** Internal; factory calibrated at 25kV. **Size:** 14" long; 2.25" dia. (max.); 48" cord. **Connector:** Dual banana.

Model HV-44A: Built in meter for stand-alone operation (No DMM required). Measures voltages up to 40,000VDC. Factory calibrated at 25kV (±2% accuracy); full scale ±3% accuracy. Conventional round needle type tip and flat spring type tip for easy access to CRT anode. **Size:** 16.5 x 2.1 x 2". **Color:** Black & Red. **Positive Polarity Only** – *Not for microwave ovens.*

PR-28A-ND **$64.00**
HV-44A-ND **$109.00**
LC-32A-ND Carrying Case (1 Year Warranty) **$34.00**

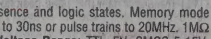
High Intensity LED Flashlight with AC Voltage Detector

Features:
• AC Voltage Detection (detects AC voltage from 40VAC to 300VAC) • Water Resistant • Alkaline AAA Battery Included • If there is a AC voltage present, the red LED will shine brightly

BKSENSELITE-ND **$19.95**

Logic Probes

20MHz and 50MHz Logic Probes

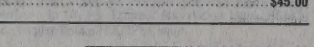


Model DP-21: (20MHz Logic Probe): Tests TTL, DTL, RTL, HTL, CMOS and MOS. Displays pulse presence and logic states. Memory mode "freezes" pulse display. Catches pulses to 30ns or pulse trains to 20MHz. 1MΩ input impedance. **Operating Supply Voltage Range:** TTL–5V, CMOS 5-15V. **Dimensions:** .7 x .7 x 8.2".

Model BKDP52: (50 MHz Logic Probe): Tests TTL and CMOS. Displays DC to 50MHz. Detects 10ns pulse width. Overload protected. 120kΩ input impedance. **Operating Supply Volt. Range:** 4-18VDC. **Dimensions:** .7 x .7 x 8.2".

DP-21-ND **$35.00**
BKDP52-ND **$45.00**

Pulser Probe



For TTL and CMOS. Produces 10µS pulse signal at 100mA. External square wave terminal. **Output Current:** Pulser mode-100mA sink/source square wave mode-5mA sink/source. **Operating Supply Voltage Range:** 5-15VDC. **Sync Input Impedance:** 1MΩ. **Dimensions:** .7 x .7 x 8.2".

DP-31A-ND **$35.00**

Component Testers

Dual-Display Auto Ranging LCR Meter

Measures inductance, resistance and capacitance. 4½ digit LCD display. Tests at 120Hz or 1kHz. Relative mode. Tolerance mode. Basic accuracy ±0.1%. **Dimensions:** 1.6 x 3.4 x 7.2". **Accessories Included:** DC 9V battery, user manual.

BK878A-ND **$245.00**
LC-29B-ND Carrying Case (1 Year Warranty) **$18.95**

In-Circuit Testers

Model 881 — In-Circuit ESR and DCR Capacitor Tester

Specifications: • Open circuit probe voltage: 15mV pp • Output test frequency: 100KHz sine wave **Measures ESR:** • ESR range ohms: 0.1-30 (25 segment LED bar scale) • Beeps from 1 to 5 beeps depending on ESR of capacitor **Measures DCR:** DCR range ohms: 0.5-30 flashing the LED **Power:** One 9V battery or an external AC adapter (9V DC 100mA 5.5mm x 2.1mm center pin+) **Dimensions:** 1.5" x 3.8" x 5.7"

Model 885 — LCR/ESR Meter

• Measurement parameters: Z, L, C, DCR, ESR, D, Q, and θ • Test conditions: 100Hz, 120Hz, 1kHz, 10kHz, 1vrms, 0.25Vrms, 0.05Vrms • 0.5% basic accuracy • Dual LCD display • SMD surface mount tweezer probe included • Fully auto/manual selection • DC resistance measurement • Rechargeable battery/AC powered

BK881-ND **$199.00**
BK885-ND **$549.00**
LC-29B-ND Carrying Case (1 Year Warranty) **$18.95**

LCR Meter

Model 875B: Measures capacitance (200pF-20mF ±1%), resistance (2-20MΩ ±1%), and inductance (200µH-200mH ±1%). 3-1/2 digit LCD display. Low battery and overload indicator. **Power:** Single standard 9V battery. **Dimensions:** 1.4 x 3.5 x 7.5". **Accessories Included:** Test leads, battery, instruction manual.

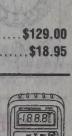
BK875B-ND **$189.00**
LC-29B-ND Carrying Case (1 Year Warranty) **$18.95**

Auto Ranging Capacitance Meter

Nine ranges 0.1pF to 50mF. 0.1pF resolution. 4 digit LCD display. Dual display. RS-232 Output to PC. Data hold. Auto power off. Display zeroing. Audible alert mode (for sorting). High/Low limit sorting capability. **Power Source:** One 9V battery. **Dimensions:** 1.5 x 3.5 x 7.6". **Accessories Included:** Protective holster, alligator clips, 9V battery, instruction manual.

BK890-ND **$129.00**
LC-29B-ND Carrying Case (1 Year Warranty) **$18.95**

Capacitance Meter



3-1/2 digit LCD display. Nine ranges from 200pF to 20mF. Low battery and over-range indicator. **Power Source:** One 9V battery. **Dimensions:** 5.7 x 3 x 1.6". **Accessories Included:** Test leads, battery, and manual.

BK810C-ND **$79.00**
LC-29B-ND Carrying Case (1 Year Warranty) **$18.95**

IC Testers

Identify, test and verify unknown ICs, quickly and reliably. Batteries and operation manual included.

Model 570 — Linear IC Tester

• Tests all common analog ICs • Auto identification of unmarked/house-coded devices lists possible replacements • Conditional/unconditional loop testing modes • Functional test emulates passive circuitry to implement a comprehensive test in a variety of configurations • Displays diagnostic information down to individual component pins • Rugged, handheld, ergonomically designed case incorporates built-in membrane keypad, 2 x 16 dot matrix alpha-numeric, LCD and high quality 16-pin ZIF socket • Battery operated (2 x 9V) with low power design.

Model BK-570

Model 575 — Digital IC Tester

• 40-pin wide-entry ZIF sockets test a broad range of TTL, CMOS, Memory, LSI, Interface and other devices (NAND gates to CPUs) • Identifies unmarked and house-coded devices • Detects intermittent and temperature related faults • Displays diagnostic information for individual pins • Battery operated (4 x 1.5AA batteries)

Model 898A — SIMM and DIMM Tester

Key Features: SIMM 72-pin, 32/36 bits (socket included). **Error Detection and Identification:** • Single data bits • Power and noise related failures • Solder opens and shorts • Timing related failures • Data retention errors • Intermittent failures. **User Configuration Test Modes:** Walking bits 0s • Walking bit 1s • Marching up • Checkerboard • Inversed checkerboard. ***Basic Technical Specifications:*** **Power Consumption:** • 898A 12VAC, 1.5A • Wall AC/AC adapter • Input: 120VAC @ 60Hz, 40W (USA) • Output: 12VAC, 2.0A, • Dimensions: 7 x 6 x 2.5". **Environmental:** • Operating temperature: 10°C ~ 50°C • Relative humidity: 20% to 80% noncondensing

BK570-ND Linear IC Tester **$995.00**
BK575-ND Digital IC Tester **$895.00**
BK898A-ND SIMM and DIMM Tester **$1295.00**

NTSC Generator

Model BK1257:

This portable, handheld NTSC Pattern Generator with S-Video, composite video and audio outputs is powered by a 9-volt battery or AC adapter. It provides NTSC color bars, crosshatch, dot, staircase, circle, center cross, windows, and a full range of color raster patterns. The outputs available are composite video and audio via two RCA connectors or an S-Video mini-DIN output. Signals can be produced as an interlaced or progressive scanning mode. No modulated RF signal is provided.

BK1257-ND NTSC Generator **$199.00**

Cable/Harness Tester

A compact, stand-alone unit that can be used for any type of wired asse Opens, shorts and miswires are detected immediately. A universal ad card offers outstanding flexibility and convenience, ready to accept a industry's most popular 22 connector styles. A crisp, easy-to-read instantly indicates good or faulty connections and simplifies troubleshooti **Connect Test Threshold:** Resistance: Shorts <130Ω ±10%; Opens 1 ±10%; Capacitance: Shorts >0.6µf ±10%; Opens <0.6µf ±10%. **Conditions:** 5 volts at 6mA. **Max. Multiple Connection Display:** Up to 16 points. **Test Cycle Time:** <0.5 sec. **Test Point Capacity:** Max. 128 points connections). **Program Storage:** Lithium battery backs up memory fo cables. **Probe:** Single wire test probe with standard .175" (4.45mm) ba jack. **Display:** 2 line x 16 character LCD; 2 LEDs (green/red) for "PASS "FAIL" conditions. **Printer Port:** Standard Centronics type parallel inter **Power:** DC 12V-14V, 500mA AC adapter. **Dimensions:** 2.1 x 13.8 **Weight:** 6 lbs. (2.72kg).

Accepts These Connectors			
Interface Qty. (Ea.)	Spacing/ Style	Connector Type	Max. Pins
8	0.1" (2.54mm)	Dual-Row	64
2	"D" Submini	Dual-Row	37
2	Delta	Centronics	80
2	0.6" (15.24mm)	DIP	40
2	RJ11	Phone Plug	6
2	RJ45	Phone Plug	8
2	0.156" (3.96mm) Header	Single-Row	20
2	0.1" (2.54mm) Header	Single-Row	32

BK205-ND **$995**

Network and PC Cable Testers

Model 231A: • Tests 10 BaseT, 100 Base2, RJ45, RJ11,356A, TIA-5 TIA-568B, and token ring cables • Detects open, short, cross, and contin • Tests Point-to-Point, rather than Pair-to-Pair • Tests cables on wall plat patch panel up to 1000 ft. away with the remote kit • Easy to read LED dis

BK231A-ND DLX Multi-Network Cable Tester **$79**

EPROM Eraser

Model BK850: • Timer setting: 15 minutes • Supply voltage: 12VDC/50 (AC/DC adapter included) • UV light source: 4 watt bulb • UV bulb life: > 4 hours • Dimensions: 6.2 x 2.72 x 1.45"

BK850-ND **$9**

Deluxe EPROM Eraser

Model BK851: Heavy duty EPROM eraser simultaneously erases up t twenty-four pin EPROMs. Features a 60 minute timer.

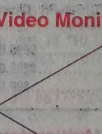
BK851-ND **$169**

Power Supply Leakage Tester

Model 1655A: • Variable isolated output—0-150VAC • 3 amp continu 4 amp intermittent output • Built-in soldering iron temperature control • panded leakage scale • Circuit breaker overload protection • Displays V amps, VA, leakage

BK1655A-ND **$529**

3½ Digit Hand-Held Parts Tester



26 user ranges for versatile test selection. T capacitance from 0.1pF—20mF. Tests resista from 0.1Ω—20MΩ. Tests transistors, SCRs, dio and LEDs. Tests batteries under actual loa conditions.

Power: One 9V transistor battery. **Dimensions:** x 3.6 x 1.3". **Accessories Included:** Test le spare fuse, battery, instruction manual.

BK815-ND **$9**
LC-29B-ND Carrying Case (1 Year Warranty) **$1**

Video Monitor Testers

Model 1280A: Fully featured bench- design to test both Mac and PC monit All patterns can be manually selec or placed in Auto for automa cycling of each available patte Designed to test (burn-in) on four monitors, the 1280A can be used as a display generator. Color: green, blue, red, black and wh **Features:** • PC and Mac patterns monitor types/resolution selections • Color cross hatch, dot, raster, Windows™ selection • V SVGA, RGB, HV, V and Four DB-15 (rear panel) for multiple monitor bur • AC adapter included • Available patterns: PC — 1280 x 1024, 1024 x 7 8514A, SVGA, VGA, EGA, CGA, MDA; Mac — 1280 x 1024, 1152 x 870, 1 x 768, 832 x 624, 640 x 480 (3 types), 512 x 384

Model 1275: Handheld unit to test PC and Mac monitors. Genera crosshatch, dots, color bars and raster patterns in green, blue, red, bl and white. **Features:** • CGA, VGA, SVGA • Standard DB9, DB-15 and DB Hi-res mini connectors • 9VDC battery • Available Patterns: PC — 128 1024, 1024 x 768, 8514A, SVGA, VGA, EGA, CGA; Mac — 640 x 480

BK1280A-ND Bench-top Video Generator ..... **$299.**
BK1275-ND Handheld Video Monitor Tester ..... **$189.**

More Product Available Online: www.digikey.com
Toll-Free: 1-800-344-4539 • Phone: 218-681-6674 • Fax: 218-681-3380

Sealed Lead-Acid Batteries (Valve Regulated)

TECHNICAL FEATURES: "DO NOT LEAK!!"

Sealed Construction: BB unique construction and sealing technique ensures that no electrolyte leakage should occur from the terminals or case. They are classified as "Non-Spillable" and meet all requirements of the International Air Transport Association (I.A.T.A.) and D.O.T.

Electrolyte Suspension System: All BB batteries utilize an electrolyte suspension system consisting of a glass fibre separator material. This suspension system helps to achieve maximum service life, by fully retaining the electrolyte and preventing its escape from the separator material. No silica gels or other contaminants are used.

Maintenance Free Operation: During the life of BB batteries, there is no need to check their specific gravity or add water etc. In fact, there are no provisions for such maintenance functions to be carried out.

Operation In Any Orientation: The combination of sealed construction and BB's electrolyte suspension system permits operation of BB batteries in any orientation, but upside-down charging should be avoided. Battery will not lose its capacity, electrolyte, or service life under any orientation.

Low Pressure Venting System: BB batteries are equipped with a safe, low pressure venting system, which is designed to release excess gas and reseal automatically in the event of the internal gas pressure rising to an unacceptable level. This low pressure venting system, coupled with the significantly high recombination efficiency, make BB batteries one of the safest valve regulated lead acid batteries available.

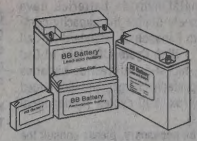
- **Heavy Duty Grids:** The heavy duty lead calcium alloy grids in BB batteries provide an extra margin of performance and service life in both float and cyclic applications, even in conditions of deep discharge.

The manufacturer suggests peak charging all sealed lead acid batteries before use and intermittently during storage.

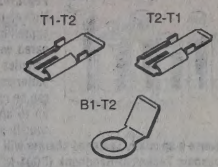
- **U.L. Component Recognition:** U.L. Component Recognition under UL1989, requires that the battery safely vent when overcharged. It further requires that the equipment and battery be submitted together for formal UL approval.

Digi-Key is not approved by any state or federal agency as an authorized supplier of product for medical, life support or life sustaining devices or systems.

CROSS REFERENCE ABBREVIATIONS:
EP = Eagle-Picher; YU = Yuasa; PS = Power Sonic; CS = CSB; PA = Panasonic



Terminal Adapters



Terminal Adapters

Description	Digi-Key Part No.	Price Each	BB Part No.
0.187 Terminal ~ 0.250 Terminal	522-1019-ND	.25	T1-T2
0.250 Terminal ~ 0.187 Terminal	522-1020-ND	.25	T2-T1
Nut/Bolt Terminal ~ 0.250 Terminal	522-1021-ND	.25	B1-T2

Cap. 20h Rate (Ah)	Dimensions – In. (mm) L x W x H	Term. Type (In.)	Weight* lbs. (kg)	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing Carton	BB Part No.	BB Replacement Battery Cross Reference (see above for mfg. abbreviations)
1.2	3.82 x 0.98 x 2.01 (97 x 25 x 51)	.187 spade	0.66 (.30)	522-1000-ND	5.27	46.80	225.23/55	BP1.2-6-T1	EP: CF-6V1.3; YU: NP1.2-6; PS: PS-612; CS: GP612; PA: LC-R061R3P, LCR6V1.3P
3.0	5.28 x 1.34 x 2.36 (134 x 34 x 60)	.187 spade	1.43 (.65)	522-1001-ND	5.67	—	90.72/18	BP3-6-T1	EP: CF-6V3.4; YU: NP3-6; PS: PS-630; CS: GP630; PA: LC-R063R4P, LCR6V3.4P
5.0	2.76 x 1.89 x 4.02 (70 x 48 x 102)	.187 spade	2.09 (.95)	522-1002-ND	6.55	—	86.14/16	BP5-6-T1	EP: CF-6V4.5; YU: NP4-6; PS: PS-640; CS: GP645; PA: LC-R064R2P, LCR6V4P
7.0	5.94 x 1.34 x 3.70 (151 x 34 x 94)	.187 spade	2.87 (1.3)	522-1003-ND	9.02	—	89.02/12	BP7-6-T1	EP: CF-6V7(A); YU: NP7-6(A); PS: PS-670F1; CS: GP672F1; PA: LC-R067R2P, LCR6V7.2P
7.0	5.94 x 1.34 x 3.70 (151 x 34 x 94)	.250 spade	2.87 (1.3)	522-1004-ND	9.02	—	89.02/12	BP7-6-T2	EP: CF-6V7(C); YU: NP7-6(D); PS: PS-670F2; CS: GP672F2; PA: LC-R067R2P1, LCR6V7.2P1
12.0	5.94 x 1.97 x 3.70 (151 x 50 x 94)	.187 spade	4.52 (2.05)	522-1005-ND	11.84	—	77.85/8	BP12-6-T1	EP: CF-6V12(A); YU: NP12-6(A); PS: PS-6100F1; CS: GP6120F1; PA: LC-R0612P, LCR6V12P
12.0	5.94 x 1.97 x 3.70 (151 x 50 x 94)	.250 spade	4.52 (2.05)	522-1006-ND	11.84	—	77.85/8	BP12-6-T2	EP: CF-6V12(C); YU: NP12-6(D); PS: PS-6100F2; CS: GP6120F2; PA: LC-R0612P1, LCR6V12P1
1.2	3.82 x 1.77 x 2.09 (97 x 45 x 53)	.187 spade	1.30 (.59)	522-1007-ND	8.06	66.23	187.95/30	BP1.2-12-T1	EP: CF-12V1.3; YU: NP1.2-12; PS: PS-1212; CS: GP1212; PA: LC-R121R3P, LCR12V1.3P
2.3	7.01 x 1.34 x 2.36 (178 x 34 x 60)	.187 spade	2.07 (.94)	522-1008-ND	9.32	—	137.86/18	BP2.3-12-T1	EP: CF-12V2; YU: NP2.3-12; PS: PS-1220; CS: GP1222; PA: LC-R122R2P, LCR12V2.2P
3.0	5.28 x 2.64 x 2.36 (134 x 67 x 60)	.187 spade	2.87 (1.30)	522-1009-ND	11.27	—	92.69/10	BP3-12-T1	EP: CF-12V3; YU: NP2.6-12; PS: PS-1230; CS: GP1234; PA: LC-R123R4P, LCR12V3.4P
5.0	3.54 x 2.76 x 4.02 (90 x 70 x 102)	.250 spade	4.10 (1.86)	522-1010-ND	11.68	—	76.81/8	BP5-12-T2	EP: CF-12V4.5; YU: NP5-12; PS: PS-1250; CS: GP1245; PA: LC-R125P1, LCR12V5P1
7.0	5.94 x 2.56 x 3.66 (151 x 65 x 93)	.187 spade	5.73 (2.60)	522-1011-ND	14.81	—	73.04/6	BP7-12-T1	EP: CF-12V7.2(A); YU: NP7-12(A); PS: PS-1270F1; CS: GP1272F1; PA: LC-R127R2P, LCR12V7.2P
7.0	5.94 x 2.56 x 3.66 (151 x 65 x 93)	.250 spade	5.73 (2.60)	522-1012-ND	14.81	—	73.04/6	BP7-12-T2	EP: CF-12V7.2(C); YU: NP7-12(D); PS: PS-1270F2; CS: GP1272F2; PA: LC-R127R2P1, LCR12V7.2P1
12	5.94 x 3.86 x 3.70 (151 x 98 x 94)	.250 spade	8.89 (4.03)	522-1013-ND	21.71	—	71.41/4	BP12-12-T2	EP: CF-12V12; YU: NP12-12; PS: PS-12120; CS: GP12120; PA: LC-RA1212P1, LCR12V12PF
17	7.13 x 2.99 x 6.54 (181 x 76 x 166)	nut/bolt	13.6 (6.15)	522-1014-ND	24.69	211.65	—	BP17-12-B1	EP: CF-12V17; YU: NP18-12; PS: PS-12180; CS: GP12170; PA: LC-RD1217P, LCR12V17
28	6.89 x 6.54 x 4.92 (175 x 166 x 125)	nut/bolt	21.2 (9.6)	522-1015-ND	37.12	318.15	—	BP28-12-B1	EP: CF-12V26; YU: NP24-12; PS: PS-12260; CS: GP12260
33	7.68 x 5.08 x 7.05 (195 x 129 x 179)	nut/bolt	24.8 (11.3)	522-1016-ND	48.83	418.50	—	BP33-12S-B2-1	EP: CF-12V33U1; PS: PS-12330; CS: GP12340; PA: LC-R1233P, LCR12V33
40	7.76 x 6.50 x 6.73 (197 x 165 x 171)	nut/bolt	31.5 (14.3)	522-1017-ND	57.21	490.35	—	BP40-12-B2	EP: CFR-12V38; YU: NP38-12; PS: PS-12400; CS: GP12400; PA: LC-X1242P
65	13.78 x 6.54 x 6.85 (350 x 166 x 174)	nut/bolt	54.0 (24.5)	522-1018-ND	91.89	787.65	—	BP65-12-B2-2	EP: CFR-12V65; YU: NP65-12; PS: PS-12750; CS: GP12650; PA: LC-X1265P, LCR12V65P

See "Ordering Information" for note on shipping charges on prepaid orders.

Panasonic® Sealed Lead-Acid Batteries (Valve Regulated)

GENERAL FEATURES: "DO NOT LEAK!!"

High Quality & High Reliability: The LCR battery has stable and reliable capacity. 100% tested on line for voltage, capacity, and seals. And all vents are 100% visually inspected during the final assembly process.

High Power Density: These batteries save installation space, while providing full and reliable power for the equipment, and many have been designed for rapid recharge, or for high power output.

Leak-resistant Structure: The LCR battery uses an absorbed electrolyte system. The LCR batteries have exceptional leak resistance, **and can be used in any position.**

Long Service Life; Float or Cyclic: The LCR battery has long life in float or cyclic service.

- **Easy Maintenance:** There is no need to check the specific gravity of the electrolyte or to add water during the service life. Totally sealed, and needs only charging for maintenance.
- **No Corrosive Gas Generation:** There is no corrosive gas generation during normal use.
- **Exceptional Deep Discharge Recovery:** LCR batteries have exceptional deep discharge recovery and charge acceptance, even after deep or prolonged discharge.
- **D.O.T and I.A.T.A. Approval:** Transportation; The SLA batteries should be handled as common cargoes for both air and boat shipping.
- **U.L. Component Recognition:** U.L. Component Recognition under UL1989, requires that the battery safely vent when overcharged. It further requires that the equipment and battery be submitted together for formal UL approval. **(UL Component Recognition does NOT remove this requirement for complete package testing).** The manufacturer suggests peak charging all sealed lead acid batteries before use and intermittently during storage.

Digi-Key is not approved by any state or federal agency as an authorized supplier of product for medical, life support or life sustaining devices or systems.

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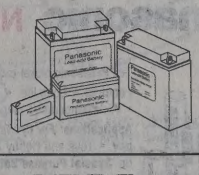


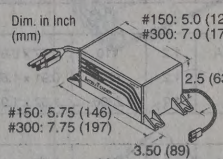
Cap. 20h Rate (Ah)	Dimensions – In. (mm) L x W x H	Term. Type (In.)	Weight* lbs. (kg)	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing Carton	Panasonic Part No.	Panasonic Replacement Battery Cross Reference (see above for mfg. abbreviations)
1.3	3.82 x 0.94 x 1.97 (97 x 24 x 50)	.187 spade	0.66 (.30)	P128-ND	8.52	75.76	265.15/40	LC-R061R3P	EP: CF-6V1.3; YU: NP1.2-6; PS: PS-612
3.4	5.28 x 1.34 x 2.36 (134 x 34 x 60)	.187 spade	1.37 (.62)	P166-ND	16.58	147.41	309.56/24	LC-R063R4P	EP: CF-6V3.4; YU: NP3-6; PS: PS-630
4.2	2.76 x 1.89 x 4.02 (70 x 48 x 102)	.187 spade	1.72 (.78)	P164-ND	8.66	78.75	170.10/24	LC-R064R2P	EP: CF-6V4.5; YU: NP4-6; PS: PS-640
4.5	2.76 x 1.89 x 4.02 (70 x 48 x 102)	.187 spade	1.59 (.72)	P141-ND	8.66	78.75	170.10/24	LC-R064R5P	EP: CF-6V4.5; YU: NP4-6; PS: PS-640
7.2	5.95 x 1.34 x 3.70 (151 x 34 x 94)	.187 spade	2.78 (1.26)	P074-ND	13.75	—	135.64/12	LC-R067R2P	EP: CF-6V7(A); YU: NP7-6(A); PS: PS-670F1
12.0	5.95 x 1.97 x 3.70 (151 x 50 x 94)	.187 spade	4.30 (1.95)	P075-ND	16.49	—	162.73/12	LC-R0612P	EP: CF-6V12(A); YU: NP12-6(A); PS: PS-6100F1
12.0	5.95 x 1.97 x 3.70 (151 x 50 x 94)	.250 spade	4.30 (1.95)	P165-ND	16.49	—	162.73/12	LC-R0612P1	EP: CF-6V12(C); YU: NP12-6(D); PS: PS-6100F2
1.3	3.82 x 1.87 x 1.97 (97 x 47.5 x 50)	.187 spade	1.30 (.59)	P264-ND	17.99	159.91	279.85/20	LC-R121R3P	EP: CF-12V1.3; YU: NP1.2-12; PS: PS-1212
2.2	6.97 x 1.34 x 2.36 (177 x 34 x 60)	.187 spade	1.76 (.80)	P171-ND	20.74	184.33	387.09/24	LC-R122R2P	EP: CF-12V2; YU: NP2.3-12; PS: PS-1220
3.4	5.28 x 2.64 x 2.36 (134 x 67 x 60)	.187 spade	2.65 (1.20)	P172-ND	26.57	—	248.01/12	LC-R123R4P	EP: CF-12V3; YU: NP2.6-12; PS: PS-1230
7.2	5.95 x 2.54 x 3.70 (151 x 64.5 x 94)	.187 spade	5.45 (2.47)	P078-ND	20.86	—	162.23/10	LC-R127R2P	EP: CF-12V7.2(A); YU: NP7-12(A); PS: PS-1270F1
7.2	5.95 x 2.54 x 3.70 (151 x 64.5 x 94)	.250 spade	5.45 (2.47)	P218-ND	20.86	—	162.23/10	LC-R127R2P1	EP: CF-12V7.2(C); YU: NP7-12(D); PS: PS-1270F2
12	5.95 x 3.86 x 3.70 (151 x 98 x 94)	.250 spade	8.41 (3.8)	P230-ND	34.34	—	160.23/6	LC-RA1212P1	EP: CF-12V12; YU: NP12-12; PS: PS-12120
17	7.13 x 2.99 x 6.58 (181 x 76 x 167)	nut/bolt	14.3 (6.5)	P174-ND	38.36	—	131.52/4	LC-RD1217P	EP: CF-12V17; YU: NP18-12; PS: PS-12180
20	7.13 x 2.99 x 6.58 (181 x 76 x 167)	nut/bolt	14.6 (6.6)	P231-ND	44.68	—	153.18/4	LC-X1220P	—
28	6.50 x 4.92 x 7.07 (165 x 125 x 179.5)	nut/bolt	24.3 (11)	P049-ND	58.28	499.50	—	LC-X1228P	PA: LCX81228P
33	7.70 x 5.12 x 7.09 (195.6 x 130 x 180)	nut/bolt	26.5 (12)	P259-ND	59.73	511.95	—	LC-R1233P	EP: CF-12V33U1; PS: PS-12330; PA: LCR12V33

Cap. @ 10 Minute Rate (watt/cell)	Dimensions — Inch (mm) L x W x H	Term. Type (In.)	Weight Lbs. (kg)	Digi-Key Part No.	Pricing 1	Pricing Carton	Panasonic Part No.	Panasonic Replacement Battery Cross Reference
Watt-Rated Series (Designed for UPS Back-up Systems)								
20W	5.51 x 1.52 x 3.70 (140 x 38.5 x 94)	.250 spade	2.98 (1.35)	P210-ND	20.48	202.02/12	UP-RW1220P1	—
45W	5.95 x 2.54 x 3.70 (151 x 64.5 x 94)	.250 spade	5.62 (2.55)	P225-ND	23.99	197.21/10	UP-RW1245P1	PA: LC-R129P1, PA: LC-R129CH1

See "Ordering Information" for note on shipping charges on prepaid orders.

PATCO Battery Charger/ Maintainer

INTELITENDER MODELS 150 & 300



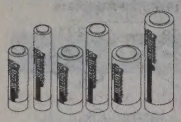
The IntelliTender brings the battery to full optimum charge. Then, under the control of its computer, monitors the batteries voltage, supplying only what is needed to maintain the ideal charge.

Model 300 charges 2 batteries.

Volt	Amp	Model	Digi-Key Part No.	Price Each
Battery Chargers				
6	.75	150	PATC-02-ND*	69.93
6	1.5	150	PATC-01-ND†	69.93
12	.75	150	PATC-04-ND*	69.93
12	1.5	150	PATC-03-ND†	69.93
12 x 2	1.5 x 2	300	PATC-08-ND†	124.88
Cable (Must Order Separately)				
Battery Hook-up, Spring Clamp			PATC-07-ND	7.49
Motorcycle Hook-up, Ring Lugs			PATC-06-ND	5.00
Marine Hook-up, Ring Lugs			PATC-05-ND	5.00

* Recommended for 2.0 to 3.4 Ah batteries.
† Recommended for 4.0 Ah & above batteries.

Panasonic® Nickel-Metal Hydride Batteries and Tabbed Versions



Features: • **Superior Energy Density:** Nickel-metal hydride batteries have approximately double the capacity compared with Panasonic's standard Ni-Cad batteries • **High Cycle Life:** Like Ni-Cad batteries, nickel-metal hydride batteries can be repeatedly charged and discharged up to approx. 500 cycles (under ideal conditions).

Because a specially designed charger will be necessary, please consult the Panasonic Technical Handbook (P001-ND) regarding the charge system • **Flat trickle charge cannot be used** • **Excellent Discharge Characteristics:** Since the internal resistance of nickel-metal hydride batteries is low, continuous high-rate discharge up to 3C (10C for 4/5SC, SC) is possible in the same way as for Ni-Cad batteries. • **Excellent Reliability:** Self-discharge performance is the same or better than that of nickel-cadmium batteries. In addition, charging batteries after extended storage restores original battery capacity. Battery safety has also been improved and verified through testing under a wide range of conditions of use.

Applications: • Communication • Office Automation • Audio Visual Equipment • Other High-Tech Products.

Caution for Safety: Improper usage may cause battery liquid leakage, heat generation or explosion, resulting in equipment failure or injury • Do not disassemble or rework the battery • Do not solder the battery directly • Do not use new batteries together with old batteries, or different type batteries mixed together • Follow the specified charge conditions.

Note: • Battery Packs made with NIMH Cells include a thermostat from Texas Instrument.

Note: • Nickel-metal hydride batteries are not a drop-in replacement for Ni-Cad batteries.

It is the responsibility of each user to ensure that each battery application system is adequately designed safe and compatible with all conditions encountered during use, and in conformance with existing standards and requirements.

Digi-Key is not approved by any state or federal agency as an authorized supplier of product for medical, life support or life sustaining devices or systems.

Panasonic®

2-Hour Nickel-Metal Hydride Smart Charger with Two AA Batteries

Features: • Worldwide voltage compatibility • Indicator light to inform users that batteries are fully charged or currently charging • Auto shut-off that protects batteries from overheating once charged • Able to charge up to 4 AA or 2 AAA-size batteries • Will also charge Ni-cad batteries • Not for use with flat top batteries

Includes: • Two AA-size 2100mAh Ni-MH batteries • Palm-sized, two-hour Smart Charger with flip-out plug

P313-ND (Charger with 2 AA batteries) **$39.53**

P001-ND NIMH Technical Handbook **$2.95**

Size	(V)	Capacity C/5 (mAh)	Dimensions Inch (mm) Dia. x Height	Weight* Oz. (gram)	Std. Chg @ 16hrs (mA)	(Control Req.) Quick Charge (mA)	(hrs.)	(Regular Version) Digi-Key Part No.	Pricing 1	10	Carton	(Solder Tabbed Version) Digi-Key Part No.	Pricing 1	10	Carton	Panasonic Part No.
AAA	1.2	700	.41 x 1.75 (10.5 x 44.5)	0.46 (13)	70	650	1.2	P213-ND†	2.13	19.13	1759.50/1380	P213T-ND	2.43	21.83	2007.90/1380	HHR-70AAAB8
AAA	1.2	700	.41 x 1.75 (10.5 x 44.5)	0.42 (12)	70	450	1.7	P008-ND	2.63	23.63	2173.50/1380	P008T-ND	2.93	26.33	2421.90/1380	HHR-75AAA
L-AAA	1.2	750	.41 x 1.97 (10.5 x 50.0)	0.53 (15)	75	750	1.2	P216-ND†	2.70	24.30	777.60/480	P216T-ND	3.00	27.00	2298.24/1440	HHR-75TA
4/5 AA	1.2	1150	.57 x 1.69 (14.5 x 43.0)	0.81 (23)	115	1150	1.2	P013-ND†	2.45	22.05	1176.00/800	P013T-ND	2.75	24.75	1320.00/800	HHR-120AA
AA	1.2	1500	.57 x 1.97 (14.5 x 50.0)	0.92 (26)	150	1500	1.2	P015-ND†	2.48	22.28	1188.00/800	P015T-ND	2.78	24.98	1332.00/800	HHR-150AA
AA	1.2	1550	.57 x 1.97 (14.5 x 50.0)	0.95 (27)	155	1500	1.2	P060-ND	2.93	26.33	1404.00/800	P060T-ND	3.23	29.03	1548.00/800	HHR-160AA
AA	1.2	2000	.57 x 1.99 (14.5 x 50.5)	1.02 (29)	200	1200	2	P220-ND	3.13	28.13	1500.00/800	P220T-ND	3.43	30.83	1644.00/800	HHR-210AA
4/5 A	1.2	2000	.67 x 1.71 (17.0 x 43.5)	1.20 (34)	200	2000	1.2	P010-ND†	3.68	33.08	1190.70/540	P010T-ND	3.98	35.78	1287.90/540	HHR-200A
A	1.2	2100	.67 x 1.97 (17.0 x 50.0)	1.34 (38)	210	2100	1.2	P017-ND†	4.35	39.15	1879.20/720	P017T-ND	4.65	41.85	2008.80/720	HHR-210A
4/3 A	1.2	3700	.67 x 2.64 (17.0 x 67.0)	1.87 (53)	370	2000	‡	P018-ND†	5.13	46.13	1107.00/360	P018T-ND	5.43	48.83	1171.80/360	HHR-380A
4/3 A	1.2	4200	.72 x 2.64 (18.2 x 67.0)	2.12(60)	420	2000	‡	P214-ND†	7.45	67.05	1788.00/300	P214T-ND	7.75	69.75	1860.00/300	HHR-450A
4/5 SC	1.2	2000	.91 x 1.34 (23.0 x 34.0)	1.48 (42)	200	2000	1.2	P020-ND†	5.75	51.75	1656.00/480	P020T-ND	6.05	54.45	1742.40/480	HHR-20SCPY14
SC	1.2	3000	.91 x 1.69 (23.0 x 43.0)	1.94 (55)	300	3000	1.2	P021-ND†	6.50	58.50	1872.00/480	P021T-ND	6.80	61.20	1958.40/480	HHR-30SCPY20
D	1.2	6500	1.30 x 2.39 (33.0 x 60.8)	6.00 (170)	650	6500	1.2	P019-ND†	18.75	168.75	1500.00/100	P019T-ND	19.05	171.45	1524.00/100	HHR-650D

† Non-extending positive terminals. * See "Ordering Information" for note on shipping charges on prepaid orders. ‡ Use dT/dt charge termination method.

Panasonic® Nickel Cadmium Batteries

The Panasonic nickel-cadmium battery is a rechargeable sealed nickel-cadmium alkaline cell.

Features: • Long life • Excellent discharge characteristics • Long shelf life • High-rate charging • Wide temperature range • Reliable, self-resealing vent • Sealed, strong, leakproof construction

Applications: ***For Cyclic Use:*** • Consumer applications • Office equipment • Tools • Photography • Toys and Hobby ***For Trickle or Float Charge Use:*** • Emergency devices • Memory back-up **Special Purpose Batteries:**

Rapid-charge "R" Type: The "R" type cell has a specially improved negative plate with increased gas absorption characteristics. It can be subjected to controlled charging at the 1C rate and rapid-charge in 1 to 1.5 hours is possible.

High-temperature "H" Type: By using a polypropylene separator, the "H" type cell can withstand a temperature of 65° (149°F) during use. When charging is conducted at a low charging current of C/20 to C/30 in a high-temp. ambient, th "H" type cell has a sharply improved capacity compared to a standard cell, due to special electrolyte.

Super High Capacity and Rapid Charge "S" Type: Super high capacity and rapid charge "S" type batteries are ideal fo today's high capacity needs. They feature increased capacity and rapid charging within approximate 1 hour. The high density positive base material of foam nickel is combined with the pasted negative plate to produce a capacit approximately 40% greater than that of the rapid-charge "R" type battery of the same size.

Digi-Key is not approved by any state or federal agency as an authorized supplier of product for medical, life support or life sustaining devices or systems.

Size	(V)	Capacity C/5 (mAh)	Dimensions Inch (mm) Dia. x Height	Weight* Oz. (gram)	Std. Chg @ 16hrs (mA)	Quick Charge (mA)	(hrs.)	Digi-Key Part No.	Pricing 1	10	Pkg.	Carton	Panasonic Part No.
High Temperature Trickle Charge "H" Type													
1/3AA	1.2	110	0.57 x 0.69 (14.5 x 17.5)	0.23 (6.5)	11	—	—	P109-ND†	1.86	16.74	156.24/120	2142.72/2400	P-11AAH/FT
SC	1.2	1200	0.91 x 1.69 (23.0 x 43.0)	1.69 (48)	120	—	—	P091-ND†	3.44	30.94	240.63/100	715.00/400	P-120SCH/FT
C	1.2	2300	1.02 x 1.97 (25.8 x 50.0)	2.75 (78)	230	—	—	P090-ND†	7.47	67.21	104.55/20	931.94/240	P-230CH/FT
Rapid Charge "R" Type													
2/3AA	1.2	300	0.57 x 1.11 (14.5 x 28.2)	0.42 (12)	30	300	1.5	P234-ND†	1.74	15.66	243.60/200	1670.40/2000	P-30AAR/FT
AA	1.2	600	0.57 x 1.97 (14.5 x 50.0)	0.78 (22)	60	600	1.5	P272-ND	1.66	14.90	46.34/40	794.40/800	P-60AAR
AA	1.2	600	0.57 x 1.90 (14.5 x 48.3)	0.74 (21)	60	600	1.5	P229-ND†	2.25	20.21	62.86/40	933.92/800	P-60AAR/FT
AA	1.2	700	0.57 x 1.97 (14.5 x 50.0)	0.78 (22)	70	700	1.5	P251-ND	1.46	13.10	40.74/40	605.28/800	P-70AAR
C	1.2	2800	1.02 x 1.97 (26.0 x 50.0)	2.79 (79)	280	2800	1.5	P190-ND†	6.99	62.93	416.05/85	927.21/255	P-280CR/FT
D	1.2	5000	1.30 x 2.40 (33.0 x 61.0)	5.10 (145)	500	5000	1.5	P257-ND†	12.33	—	86.33/10	641.29/100	P-500DR/FT
High Capacity and Rapid Charge "S" Type													
AA	1.2	1000	0.57 x 1.97 (14.5 x 50.0)	0.81 (23)	100	1000	1.5	P252-ND	2.36	21.20	75.36/40	1002.29/800	P-100AASJ
AA	1.2	1000	0.57 x 1.97 (14.5 x 50.0)	0.81 (23)	100	1000	1.5	P092-ND†	2.21	19.85	61.74/40	917.28/800	P-100AASJ/FT
4/5A	1.2	1200	0.67 x 1.69 (17.0 x 43.0)	0.92 (26)	120	1200	1.5	P094-ND†	1.94	17.46	244.44/180	726.34/720	P-120AS/FT
A	1.2	1400	0.67 x 1.97 (17.0 x 50.0)	1.16 (33)	140	1400	1.5	P095-ND†	2.42	21.76	304.61/180	905.11/720	P-140AS/FT
4/5SC	1.2	1200	0.89 x 1.34 (22.5 x 34.0)	1.34 (38)	120	1200	1.5	P200-ND†	2.99	26.89	250.95/120	745.68/480	P-120SCJS/FT
SC	1.2	1300	0.89 x 1.69 (22.5 x 43.0)	1.55 (44)	130	1300	1.5	P162-ND†	1.76	15.86	148.05/120	439.92/480	P-130SCS/FT
SC	1.2	1500	0.89 x 1.69 (22.5 x 43.0)	1.55 (44)	150	1500	1.5	P175-ND†	1.86	16.76	156.45/120	464.88/480	P-150SCS/FT
SC	1.2	1700	0.89 x 1.69 (22.5 x 43.0)	1.69 (48)	170	1700	1.5	P180-ND†	2.31	20.81	194.25/120	577.20/480	P-170SCS/FT

† Non-extending positive terminals. * See "Ordering Information" for note on shipping charges on prepaid orders.

(Continued)

Size	(V)	Capacity C/5 (mAh)	Dimensions Inch (mm) Dia. x Height	Weight* Oz. (gram)	Std. Chg @ 16hrs (mA)	Quick Charge (mA)	(hrs.)	Digi-Key Part No.	Pricing 1	10	Pkg.	Carton
High Temperature Trickle Charge "H" Type (Solder Tabbed)												
/3AA	1.2	110	0.57 x 0.69 (14.5 x 17.5)	0.23 (6.5)	11	—	—	P109T-ND	2.16	19.44	181.44/120	2488.32/2400
SC	1.2	1200	0.91 x 1.69 (23.0 x 43.0)	1.69 (48)	120	—	—	P091T-ND	3.74	33.64	261.83/100	777.40/400
C	1.2	2300	1.02 x 1.97 (25.8 x 50.0)	2.75 (78)	230	—	—	P090T-ND	7.77	69.91	124.28/20	1118.52/240
Rapid Charge "R" Type (Solder Tabbed)												
/3AA	1.2	300	0.57 x 1.11 (14.5 x 28.2)	0.42 (12)	30	300	1.5	P234T-ND	2.04	18.36	285.60/200	1958.40/2000
AA	1.2	600	0.57 x 1.90 (14.5 x 48.3)	0.74 (21)	60	600	1.5	P229T-ND	2.55	22.91	81.44/40	1221.60/800
D	1.2	5000	1.30 x 2.40 (33.0 x 61.0)	5.10 (145)	500	5000	1.5	P257T-ND	12.63	—	88.43/10	656.89/100
High Capacity and Rapid Charge "S" Type (Solder Tabbed)												
AA	1.2	1000	0.57 x 1.97 (14.5 x 50.0)	0.81 (23)	100	1000	1.5	P092T-ND	2.51	22.55	70.14/40	1042.08/800
/5AF	1.2	1200	0.67 x 1.69 (17.0 x 43.0)	0.92 (26)	120	1200	1.5	P094T-ND	2.24	20.16	322.56/180	967.68/720
A	1.2	1400	0.67 x 1.97 (17.0 x 50.0)	1.16 (32)	140	1400	1.5	P095T-ND	2.72	24.46	342.41/180	1017.43/720
A	1.2	1600	0.67 x 1.97 (17.0 x 50.0)	1.16 (33)	160	1600	1.5	P256T-ND	3.67	33.01	462.11/180	1584.36/720
/5SC	1.2	1200	0.89 x 1.34 (22.5 x 34.0)	1.34 (38)	120	1200	1.5	P200T-ND	3.29	29.59	276.15/120	820.56/480
SC	1.2	1300	0.89 x 1.69 (22.5 x 43.0)	1.55 (44)	130	1300	1.5	P162T-ND	2.06	18.56	173.25/120	514.80/480
SC	1.2	1500	0.89 x 1.69 (22.5 x 43.0)	1.55 (44)	150	1500	1.5	P175T-ND	2.16	19.46	181.65/120	539.76/480
SC	1.2	1700	0.89 x 1.69 (22.5 x 43.0)	1.69 (48)	170	1700	1.5	P180T-ND	2.61	23.51	219.45/120	652.08/480
/4SC	1.2	2300	0.91 x 1.97 (23.0 x 50.0)	2.24 (57)	230	2000	1.6	P096T-ND	7.41	66.65	622.02/120	1386.22/360

ee "Ordering Information" for note on shipping charges on prepaid orders.

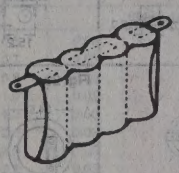
attery Packs

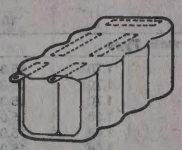
For Memory Backup, Power Tools, Radio Controlled and Other Endless Applications

attery packs are made using our suppliers' high quality cells. Shown are standard configurations. If you e a special need or a configuration that you do not see, give us a call for further information. Packs are ilable in nearly all sizes of Nickel-Cadmium, NIMH, Alkaline and Carbon Zinc cylinder batteries.

-Key is not approved by any state or federal agency as an authorized supplier of product for dical, life support or life sustaining devices or systems.

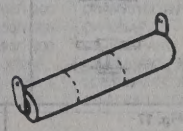
yle	Volts†	Cells	Configurations	Diagram
021	2.4	2		
031	3.6	3		
041	4.8	4		
051	6.0	5		
061	7.2	6		
071	8.4	7		
081	9.6	8		
091	10.8	9		
101	12.0	10		
022	4.8	4		
023	7.2	6		
024	9.6	8		
025	12.0	10		

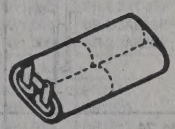


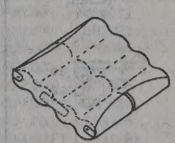


ltage increments of 1.5 volts are used for Alkaline and Carbon Zinc packs.

Style	Volts†	Cells	Configurations	Diagram
L021*	2.4	2		
L031*	3.6	3		
L041*	4.8	4		
L051*	6.0	5		
L022	4.8	4		
L032	7.2	6		
L042	9.6	8		
L052	12.0	10		
L023	7.2	6		
L024	9.6	8		
L025	12.0	10		







* Styles L021, L031, L041 and L051 are not available in nickel-metal hydride batteries.

HOW TO ORDER:

Using:
Panasonic Cells: P □ □ □ – □ □ □ □ – ND
Energizer Cells: N □ □ □ – □ □ □ □ – ND

Call for pricing on any standard or custom battery pack

Select Digi-Key Part No. of any Cylinder Type Battery

Select Style of Battery Pack From Chart

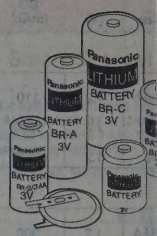
K

Panasonic Lithium Batteries

The main features of lithium batteries are as follows:

- **High Voltage:** Nominal voltage is 3V, which is nearly double that of other batteries which use the aqueous electrolyte system, such as manganese dry batteries, and silver-oxide batteries.
- **High Energy Density:** Overwhelmingly high energy density, as compared with conventional batteries and other lithium batteries. The energy density is 5 to 10 times higher than that of manganese dry batteries.
- **Long Service and Shelf Life:** Since Panasonic lithium batteries are composed of chemically and thermally stable material, self-discharge is extremely small. Deterioration when stored at room temperatures is ca. 0.5% annually – worry about deterioration is unnecessary.
- **Stable Flat Discharge Voltage:** Since conductive carbon is continuously formed during discharge, internal impedance does not increase until the end of discharge, thus stabilizing discharge voltage.
- **Excellent Temperature Characteristics:** Organic solvent ensures a low electrolyte freezing point so that the batteries can be used in a wide temperature range, -40°C ~ 85°C is standard (-40°C ~ 125°C for the High Temperature Coin Type; -40°C ~ 70°C for Camera Type; -30° ~ 60°C for CR2004/P9A).
- **BR Types versus CR Types:** BR, or (CF) n/Li, batteries provide a more stable voltage particularly during the last half of discharge, while CR, or Mn02/Li, batteries provide a higher voltage during the first half. CR batteries also can provide a higher current capability than BR batteries. In storage, BR batteries perform better at high temperatures. These characteristics must be taken into consideration when selecting a battery for a particular application.
- **UL Approval:** Panasonic Lithium batteries are UL recognized. UL File No. MH12210.
- **DOT Exemption:** Panasonic lithium cells and multiple cell batteries are authorized for transportation, in commerce, by U.S. shipping exemption DOT-E7052.
- **Disposal Information:** Panasonic lithium cells are not an EPA listed hazardous waste, but may be considered a "characteristic" hazardous waste. Lithium metal, the anode component of the cells, is considered by the U.S. EPA to be hazardous when disposed because it is reactive with water. However, a cell which contains a small quantity of lithium metal is not necessarily a hazardous waste. Disposal regulations and policies are different in each State and are subject to frequent changes. Contact your local jurisdiction for specific advice on disposal.

Digi-Key is not approved by any state or federal agency as an authorized supplier of product for medical, life support or life sustaining devices or systems.



PCB Terminal Type

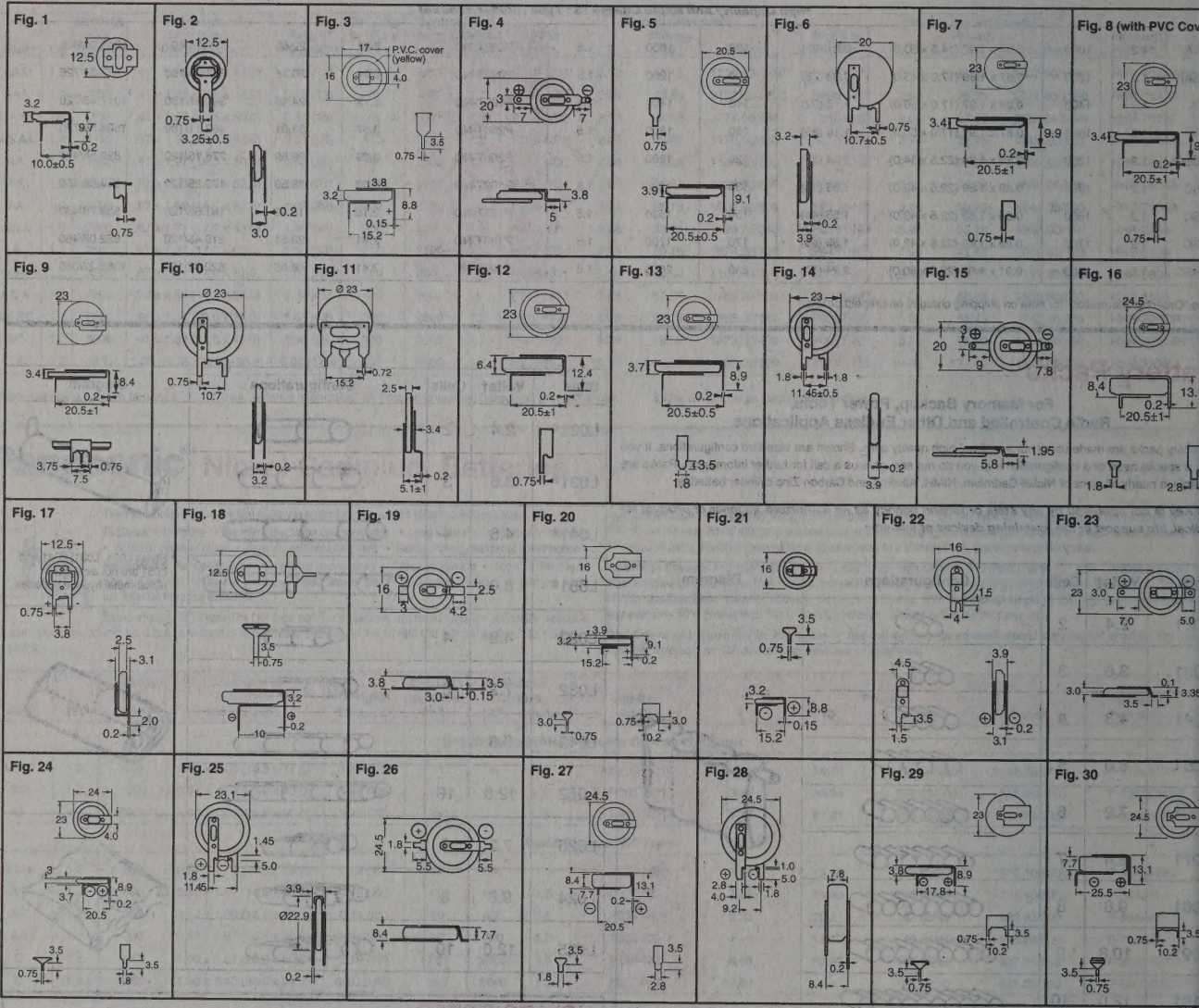


Fig.	Type	(V)	Cap. (mAh)	Dim. (mm) Dia. x Height	Wt.* (g)	Drain Std. (mA)	Digi-Key Part No.	Pricing 1	10	Pkg.	Carton	Panasonic Part No.
PCB Terminal – Coin Type												
1	Coin	3	48	See Figure Above	0.8	0.03	P191-ND	1.70	15.30	163.20/120	1085.28/1,200	BR1225-1HC
2		3	48		0.8	0.03	P192-ND	1.70	15.30	272.00/200	612.00/600	BR1225-1VC
3		3	120		1.6	0.03	P299-ND	1.70	15.30	204.00/150	2170.56/2,400	BR1632-1HF
4		3	190		2.5	0.03	P223-ND	1.68	15.08	214.40/160	1425.76/1,600	BR2032-1F2
5		3	190		2.5	0.03	P196-ND	1.68	15.08	80.40/60	603.00/600	BR2032-1HE
6		3	190		2.5	0.03	P197-ND	1.68	15.08	160.80/120	603.00/600	BR2032-1VB
7		3	165		3.2	0.03	P142-ND	1.73	15.53	82.80/60	621.00/600	BR2325-1HB
8		3	165		3.2	0.03	P202-ND	1.73	15.53	82.80/60	621.00/600	BR2325-1HC

* See "Ordering Information" for note on shipping charges on prepaid orders.

(Continu

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PCB Terminal Type (Cont.)

Fig.	Type	(V)	Cap. (mAh)	Dim. (mm) Dia. x Height	Wt.* (g)	Drain Std. (mA)	Digi-Key Part No.	Pricing 1	10	Pkg.	Carton	Panasonic Part No.
9		3	165		3.2	0.03	P193-ND	1.73	15.53	82.80/60	621.00/600	BR2325-1HG
10		3	165		3.2	0.03	P194-ND	1.73	15.53	82.80/60	621.00/600	BR2325-1VC
11		3	165	See	3.2	0.03	P195-ND	1.73	15.53	82.80/60	621.00/600	BR2325-1VG
12	Coin	6	165	Figure	6.4	0.03	P143-ND	3.55	31.95	113.60/40	852.00/400	BR2325-2HC
13		3	255	Previous	3.2	0.03	P198-ND	2.05	18.45	164.00/100	1090.60/1,000	BR2330-1HE
14		3	255	Page	3.2	0.03	P199-ND	2.05	18.45	164.00/100	1090.60/1,000	BR2330-1VC
15		3	90		1.6	0.1	P222-ND	1.08	9.68	258.00/300	1644.75/3,000	CR2016-1F2
16		3	1000		10.5	0.2	P126-ND	4.18	37.58	334.00/100	2221.10/1,000	CR2477-1HF
							PCB Terminal - High Temperature Coin Type (-40°C to 125°C)					
17		3	48		0.8	0.03	P290-ND	1.98	17.78	790.00/500	4029.00/4,000	BR1225A/FA
18		3	48		1.0	0.03	P061-ND	1.98	17.78	189.60/120	1260.84/1,200	BR1225A/HB
19		3	120		1.5	0.03	P022-ND	1.93	17.33	369.60/240	4712.40/4,800	BR1632A/FA
20		3	120		1.5	0.03	P291-ND	1.93	17.33	231.00/150	2457.84/2,400	BR1632A/GA
21		3	120		1.5	0.03	P023-ND	1.93	17.33	616.00/400	2457.84/2,400	BR1632A/HA
22		3	120	See	1.5	0.03	P024-ND	1.93	17.33	616.00/400	3927.00/4,000	BR1632A/VA
23	Coin	3	255	Figure	3.2	0.03	P025-ND	2.20	19.80	352.00/200	2340.80/2,000	BR2330A/FA
24		3	255	Previous	3.2	0.03	P026-ND	2.20	19.80	352.00/200	2340.80/2,000	BR2330A/HD
25		3	255	Page	3.2	0.03	P027-ND	2.20	19.80	352.00/200	2340.80/2,000	BR2330A/VA
29		3	255		3.2	0.03	P224-ND	2.20	19.80	352.00/200	2340.80/2,000	BR2330A/GAE
26		3	1000		8.0	0.03	P028-ND	3.68	33.08	294.00/100	1955.10/1,000	BR2477A/FB
27		3	1000		8.0	0.03	P029-ND	3.68	33.08	294.00/100	1955.10/1,000	BR2477A/HB
28		3	1000		8.0	0.03	P030-ND	3.68	33.08	294.00/100	1955.10/1,000	BR2477A/VA
30		3	1000		8.0	0.03	P228-ND	3.68	33.08	294.00/100	1955.10/1,000	BR2477A/GAE
							Pin Type					
–	Pin	3	25	4.2 x 25.9	0.55	0.5	P140-ND	3.25	29.25	780.00/300	4972.50/3,000	BR425
–		3	50	4.2 x 35.9	0.85	1.0	P139-ND	3.28	29.48	786.00/300	5010.75/3,000	BR435

See "Ordering Information" for note on shipping charges on prepaid orders.

Computer, Camera, Standard and Standard Coin Types

Type	(V)	Cap. (mAh)	Dim. (mm) Dia. x Height	Wt.* (g)	Drain Std. (mA)	Digi-Key Part No.	Pricing 1	10	Pkg.	Carton	Panasonic Part No.
						Computer Type					
Replacement Pack	6	1200	19.5 x 33.9 x 36.0	31.0	2.5	P204-ND	12.63	113.63	1454.40/144	2181.60/288	BR-P2PE
Pack with Leads		1200	22.0 x 39.0 x 41.0	45.0	—	P203-ND‡	15.48	139.28	619.00/50	928.50/100	BR-E3C3BCA
						Camera Type					
Replacement Cyl.	3	850	15.6 x 27.0	11.0	20	P157-ND§	4.50	40.50	360.00/100	2872.80/1,200	CR-2PA/B
Replacement Cyl.	3	850	15.6 x 27.0	11.0	20	P155-ND#	6.90	62.10	66.24/12	4404.96/1,200	CR-2PA/1BOEM
Replacement Cyl.	3	1400	17.0 x 34.5	17.0	20	P151-ND§	2.63	23.63	210.00/100	1396.50/1,000	CR-123APA/B
Replacement Cyl.	3	1400	17.0 x 34.5	17.0	20	P154-ND#	6.90	62.10	66.24/12	4404.96/1,200	CR-123APA/1B
Replacement Pack	3	3000	29.0 x 14.5 x 52.0	39.0	200	P212-ND#	12.34	—	132.00/12	2376.00/288	CR-V3A/1BOEM
Replacement Pack	6	1400	17.0 x 34.0 x 45.0	38.0	20	P073-ND#	12.30	110.70	118.08/12	2125.44/288	2CR-5MPA/1BOEM
Replacement Pack	6	1400	19.5 x 35.0 x 36.0	37.0	20	P205-ND#	12.30	—	132.84/12	2833.92/288	CR-P2PA/1BOEM
						Standard Type					
A		2200	17.0 x 45.5	13.5	2.5	P362-ND	11.30	101.70	180.80/20	3390.00/500	BR-AG
A with Tabs		2200	17.0 x 45.5	13.5	2.5	P362T-ND	10.68	96.08	170.80/20	3202.50/500	BR-AG-T
A		1800	17.0 x 45.5	18.0	2.5	P267-ND	9.55	85.95	764.00/100	5080.60/1,000	BR-A
A with Tabs		1800	17.0 x 45.5	18.0	2.5	P267T-ND	9.05	81.45	724.00/100	4814.60/1,000	BR-A-T
2/3 A	3	1450	17.0 x 33.5	13.5	2.5	P361-ND	5.35	48.15	1712.00/400	4553.92/1,600	BR-2/3AG
2/3 A with Tabs		1450	17.0 x 33.5	13.5	2.5	P361T-ND	5.30	47.70	1696.00/400	4511.36/1,600	BR-2/3AG-T
2/3 A		1200	17.0 x 33.5	13.5	2.5	P133-ND	4.70	42.30	75.20/20	2256.00/800	BR-2/3A
2/3 A with Tabs		1200	17.0 x 33.5	13.5	2.5	P201-ND	5.63	50.63	450.00/100	2992.50/1,000	BR-2/3AT-2SP
2/3 A w/2 PCB Pins		1200	17.0 x 33.5	13.5	2.5	P226-ND	5.63	50.63	450.00/100	2992.50/1,000	BR-2/3AE5SP
2/3 A w/3 PCB Pins		1200	17.0 x 33.5	13.5	2.5	P270-ND	5.63	50.63	450.00/100	2992.50/1,000	BR-2/3AE2SP
						Standard Coin Type					
		25	12.5 x 1.6	0.6	0.03	P182-ND	1.30	11.70	416.00/400	2652.00/4,000	BR1216
		35	12.5 x 2.0	0.7	0.03	P342-ND	1.33	11.93	212.00/200	2703.00/4,000	BR1220
		48	12.5 x 2.5	0.8	0.03	P183-ND	1.20	10.80	384.00/400	2448.00/4,000	BR1225
		48	16.0 x 1.6	1.0	0.03	P184-ND	1.33	11.93	212.00/200	1409.80/2,000	BR1616
		75	20.0 x 1.6	1.5	0.03	P137-ND	1.20	10.80	192.00/200	1276.80/2,000	BR2016
		100	20.0 x 2.0	2.0	0.03	P185-ND	1.30	11.70	208.00/200	1383.20/2,000	BR2020
		190	20.0 x 3.2	2.5	0.03	P186-ND	1.15	10.35	184.00/200	1223.60/2,000	BR2032
		110	23.0 x 2.0	2.5	0.03	P136-ND	1.43	12.83	228.00/200	1516.20/2,000	BR2320
		165	23.0 x 2.5	3.2	0.03	P135-ND	1.43	12.54	228.00/200	1516.20/2,000	BR2325
		255	23.0 x 3.0	3.2	0.03	P187-ND	1.78	15.98	284.00/200	1888.60/2,000	BR2330
		500	30.0 x 3.2	5.5	0.03	P341-ND	2.75	24.75	440.00/200	2926.00/2,000	BR3032
		30	10.0 x 2.5	0.7	0.1	P031-ND	1.08	9.68	344.00/400	2193.00/4,000	CR1025
		25	12.5 x 1.6	0.7	0.1	P032-ND	1.08	9.68	344.00/400	2193.00/4,000	CR1216
		35	12.5 x 2.0	1.2	0.1	P033-ND	.95	8.55	304.00/400	1938.00/4,000	CR1220
Coin	3	40	16.0 x1.2	0.8	0.1	P041-ND	2.70	24.30	432.00/200	1296.00/800	CR1612
		55	16.0 x 1.6	1.2	0.1	P034-ND	1.00	9.00	160.00/200	1064.00/2,000	CR1616
		75	16.0 x 2.0	1.3	0.1	P035-ND	.93	8.33	296.00/400	1887.00/4,000	CR1620
		125	16.0 x 3.2	1.8	0.1	P036-ND	1.08	9.68	344.00/400	2193.00/4,000	CR1632
		55	20.0 x 1.2	1.4	0.1	P037-ND	1.08	9.68	344.00/400	2193.00/4,000	CR2012
		90	20.0 x 1.6	1.7	0.1	P138-ND	.30	2.70	48.00/200	191.52/1,200	CR2016
		165	20.0 x 2.5	2.5	0.2	P188-ND	.30	2.70	48.00/200	612.00/4,000	CR2025
		220	20.0 x 3.2	3.1	0.2	P189-ND	.30	2.70	48.00/200	612.00/4,000	CR2032
		130	23.0 x 2.0	3.0	0.2	P038-ND	1.20	10.80	192.00/200	1276.80/2,000	CR2320
		265	23.0 x 3.0	4.0	0.2	P111-ND	1.43	12.83	228.00/200	1516.20/2,000	CR2330
		560	23.0 x 5.4	5.9	0.2	P117-ND	1.63	14.63	130.00/100	864.50/1,000	CR2354
		100	24.5 x 1.2	2.0	0.2	P042-ND	3.10	27.90	496.00/200	1488.00/800	CR2412
		620	24.5 x 5.0	6.3	0.2	P340-ND	1.30	11.70	104.00/100	780.00/1,000	CR2450
		1000	24.5 x 7.7	10.5	0.2	P120-ND	2.85	25.65	228.00/100	1516.20/1,000	CR2477
		500	30.0 x 3.2	7.1	0.2	P121-ND	2.45	22.05	392.00/200	2606.80/2,000	CR3032

See "Ordering Information" for note on shipping charges on prepaid orders. ‡ Has internal 6.8K ohm resistor in series. # Retail Card package. § Bulk package.

Panasonic® Extra / Super Heavy Duty Carbon Zinc Batteries

Features:

- **Unsurpassed Leakage Resistance for a Longer Service Life**
- **Discharge Characteristics Suited for All Applications**
- **Excellent Storage Life**

Panasonic Extra / Super Heavy Duty battery is composed of: manganese dioxide for the positive-activating substance, zinc for the negative-activating substance, and an aqueous solution of neutral salts such as zinc chloride and ammonium chloride for the electrolyte.

Applications:

- Transistor radios, tape recorders,electronic calculators, clocks and watches, communications equipment, measuring instruments and various other electronic products • Flashlights, pen lights and various other lighting devices • Gas and oil equipment, toys, etc.

Digi-Key is not approved by any state or federal agency as an authorized supplier of product for medical, life support or life sustaining devices or systems.

Size	(V)	Dimensions – Inch (mm) Diameter	Height	Weight* Oz. (grams)	Capacity (to 0.9V/Cell)	Digi-Key Part No.	Each	Pricing Pkg.	Carton	Panasonic Part No.
D	1.5	1.339 (34.0)	2.421 (61.5)	3.53 (100)	700 hrs. (100Ω cont.)	P113-ND	.66	10.56/24	46.20/120	UM1NPA
C	1.5	1.031 (26.2)	1.969 (50.0)	1.82 (51.5)	310 hrs. (100Ω cont.)	P114-ND	.60	9.60/24	42.00/120	UM2NPA
AA	1.5	0.571 (14.5)	1.988 (50.5)	0.67 (19)	110 hrs. (100Ω cont.)	P103-ND	.30	12.00/60	78.00/600	UM-3NX
AAA	1.5	0.413 (10.5)	1.752 (44.5)	0.34 (9.7)	39 hrs. (100Ω cont.)	P265-ND	.27	9.00/50	162.00/1500	R03NPA/B
N	1.5	0.472 (12.0)	1.189 (30.2)	0.23 (6.55)	30 hrs. (100Ω cont.)	P266-ND	.33	11.00/50	264.00/2000	UM-5NX
9V	9	1.91 x 1.04 x 0.69 (48.5 x 26.5 x 17.5)		1.34 (38)	2.5 hrs. (100Ω cont. to 5.4V)	P104-ND	1.77	11.80/10	206.50/200	006PNX
Lantern ‡	6	2-11/16" x 2-11/16" x 4-1/16" (68.26 x 68.26 x 103.19)		20.0 (567)	Heavy duty type battery	P206-ND	4.20	45.36/12	45.36/12	W4FDPA

* See "Ordering Information" for note on shipping charges on prepaid orders. ‡ Spring top type.

Panasonic® Industrial Alkaline Batteries

MADE IN U.S.A.

Features:

- **Large Current and Large Capacity for an Excellent Performance**
- **Stable Voltage and Current**
- **Unsurpassed Resistance to Leakage**
- **Excellent Storage Life**

The cylindrical alkaline battery is composed of: manganese dioxide for the positive-activating substance, zinc powder for the negative-activating substance, and caustic alkali for the electrolyte.

Applications: 99% *MERCURY FREE:* • Headphone stereo, radio-cassette recorders, strobes, cameras, electronic calculators, 8 mm cameras, electric shavers, tape recorders, high-power flashlights, toys and other cordless products. Also available in tabbed version of D, C, and AA cell batteries; denoted by "T" suffix in Digi-Key part number.

Digi-Key is not approved by any state or federal agency as an authorized supplier of product for medical, life support or life sustaining devices or systems.

Size	(V)	Dimensions – Inch (mm) Diameter	Height	Weight* Oz. (grams)	Capacity (to 0.9V/Cell)	Digi-Key Part No.	Each	Pricing Pkg	Carton	Panasonic Part No.
D	1.5	1.346 (34.2)	2.421 (61.5)	4.76 (135)	1200 hrs. (100Ω cont.)	P105-ND	1.68	13.44/12	141.12/144	AM-1PIX
C	1.5	1.031 (26.2)	1.969 (50.0)	2.29 (65)	380 hrs. (100Ω cont.)	P106-ND	1.26	20.16/24	157.25/288	AM-2PIX
AA	1.5	0.571 (14.5)	1.988 (50.5)	0.85 (24)	170 hrs. (100Ω cont.)	P107-ND	.54	14.40/40	140.40/600	AM-3PIX/2S
AAA	1.5	0.413 (10.5)	1.752 (44.5)	0.42 (12)	65 hrs. (100Ω cont.)	P146-ND	.54	18.00/50	117.00/500	AM-4PIX/2S
N	1.5	0.472 (12.0)	1.189 (30.2)	0.32 (9)	48 hrs. (100Ω cont.)	P147-ND†	1.08	17.28/24	280.80/600	AM5X
9V	9	1.93 x 1.04 x 0.69 (49.0 x 26.0 x 17.5)		1.66 (47)	6 hrs. (100Ω cont. to 5.4V)	P145-ND	2.13	17.04/12	265.82/288	6AM-6PIX/1S
D	Tabbed Version					P105T-ND	2.04	16.32/12	171.36/144	AM-1PIX
C	Tabbed Version					P106T-ND	1.62	25.92/24	202.18/288	AM-2PIX
AA	Tabbed Version					P107T-ND	.90	24.00/40	234.00/600	AM-3PIX/2S

* See "Ordering Information" for note on shipping charges on prepaid orders. † Made in Japan.

ACL Staticide

PowerPen

A battery contact clea
that inhibits and remov
oxidation on all types
batteries and terminals
battery powered produc
This means you will spe
less money on batter
because PowerPen
maximize your batter
performance. In additi
using PowerPen
directed will protect
terminals from corrosi
therefore extending
products' life.

ST1026-ND ..... $5.

Panasonic® Flashlights

Flashlights

Features:

- Powerful Krypton bulb for brighter and whiter light • Heavy-Duty switch • Lifetime warranty on flashlight and switch (on manufacturer defects only)

Specifications:

BF-310BPA/K: (Fig. 1) • **Weight:** 8.53 oz. • **Batteries:** 2 Heavy-Duty "AA" size (Included) • **Brightness:** Light output of over 50 candles at 5 feet (1.52 meters)

BF-110PAB/K: (Fig. 2) • **Weight:** 1.16 lbs. • **Batteries:** 2 Heavy-Duty "D" size (Included) • **Brightness:** Light output of over 100 candles at 5 feet (1.52 meters)

BF-796PA/K: (Fig. 3) • **Weight:** 1.82 lbs. • **Batteries:** 4 Heavy-Duty "D" size (Included) • **Brightness:** Light output of 2500 lux

BF-187PA/K: (Fig. 4)

Head Light Features:

- Powerful hands-free operation • Designed for comfort with wide, adjustable elastic headband and padded headrest • Pivoting lamp has high intensity bulb with hands-free operation for any job indoors or out • Lightweight 5.7 oz. (161.59 grams) • Operates on two heavy duty "AA" batteries, included

Fig. 1

Fig. 2

Fig. 3

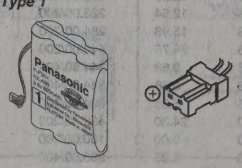
Fig. 4

Fig.	Description	Digi-Key Part No.	Price Each	Panasonic Part No.
1	Flashlight	P056-ND	6.42	BF-310BPA/KOEM
2	Flashlight	P057-ND	7.81	BF-110BPA/KOEM
3	Lantern Flashlight	P062-ND	9.60	BF-796PA/KOEM
4	Head Light	P059-ND	11.95	BF-187PA/KOEM

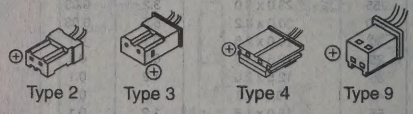
K

Panasonic® Replacement Telephone Packs

Type 1



Type 2, 3, 4, and 9



Type 2 Type 3 Type 4 Type 9

Type 43 and 92

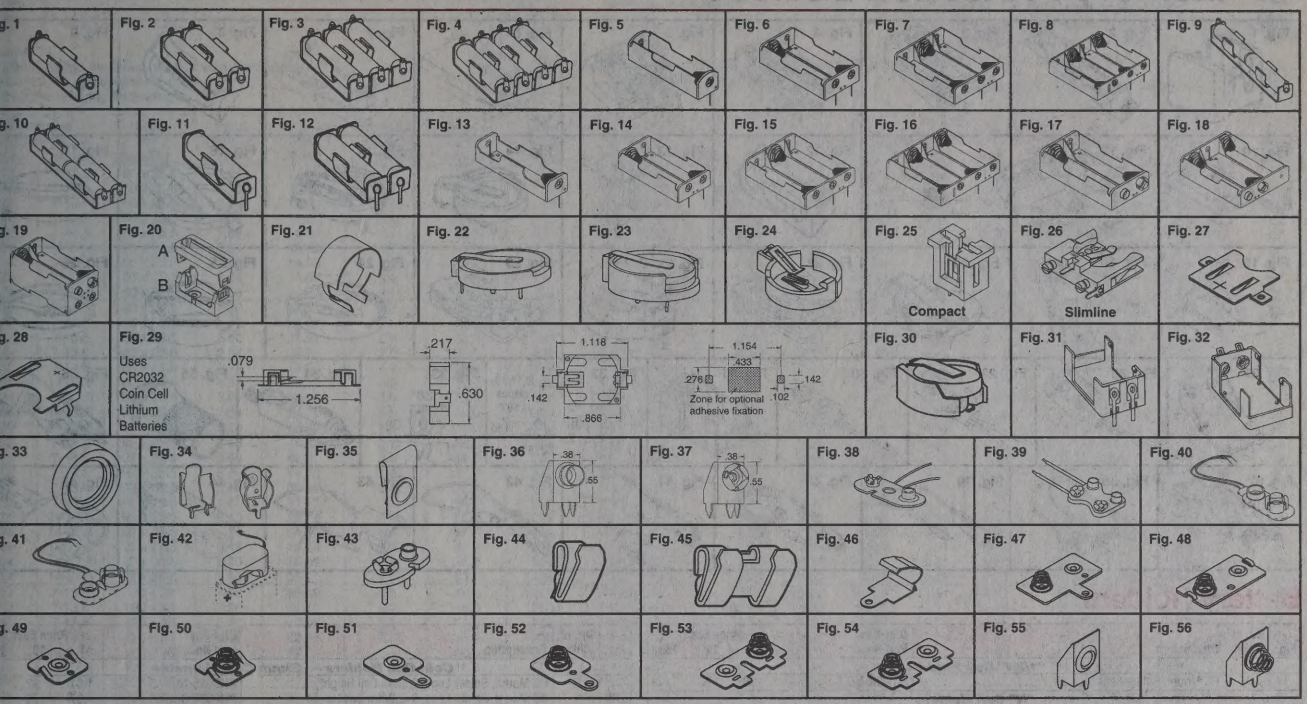
Pan. Type	(V)	Cap. C/5 (mAh)	Dimensions — Inch (mm) H x L x T	Weight Oz. (g)	Digi-Key Part No.	Price Each	Panasonic Part No.
1	3.6	600	1.88 x 1.65 x 0.55 (47.8 x 41.9 x 14.0)	2.37 (67.2)	P072-ND	6.35	P-P501
2	3.6	300	1.09 x 1.65 x 0.55 (27.7 x 41.9 x 14.0)	1.47 (41.7)	P071-ND	6.35	P-P301
3	3.6	300	1.09 x 1.65 x 0.55 (27.7 x 41.9 x 14.0)	1.47 (41.7)	P070-ND	6.35	P-P302
4	3.6	300	1.09 x 1.65 x 0.55 (27.7 x 41.9 x 14.0)	1.47 (41.7)	P069-ND	6.35	P-P303
9	3.6	300	1.09 x 1.65 x 0.55 (27.7 x 41.9 x 14.0)	1.47 (41.7)	P066-ND	6.35	P-P304
43	3.6	600	2.16 x 1.77 x 0.66 (54.9 x 45.0 x 16.8)	2.69 (72.6)	P065-ND	22.39	P-P543
92	3.6	600	2.08 x 1.68 x 0.58 (52.8 x 42.7 x 14.7)	2.52 (71.4)	P064-ND	16.92	P-P592

Replacement Packs available for the following telephone brands.

AT&T / Lucent	General Electric	Panasonic	Sony
Bell Phone	Goldstar	Phone Mate	Southwestern Bell
Bell South	GTE	Radio Shack	Freedom Phone
Cobra	Northwestern Bell	Sanyo	Tele-Phone
Code-A-Phone	Pacific Bell	Sears	Toshiba
Conair	Pactel	Sharp	Uniden

To obtain the correct Panasonic cross reference number, please call our technica staff at 1-800-344-4539 with the model number of your phone.

Battery Clips, Contacts and Holders



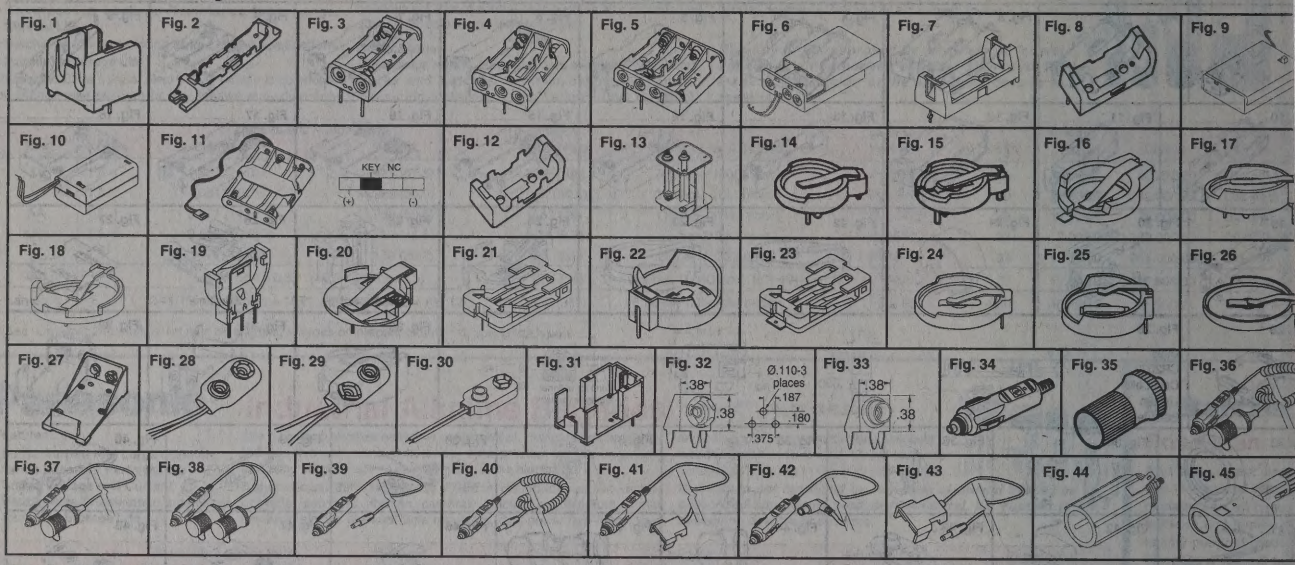
Description	Digi-Key Part No.	Price Each 1	10	100
"N" Cell Holders*				
1 Cell	154K-ND	1.50	1.13	.93
2 Cell	155K-ND	3.10	2.33	1.90
3 Cell	156K-ND	6.42	4.82	3.76
"AAA" Cell Holders*				
1 Cell	137K-ND	1.83	1.38	1.13
2 Cell	138K-ND	3.24	2.44	2.06
3 Cell	169K-ND	4.74	3.56	2.80
4 Cell	170K-ND	6.48	4.86	3.83
"AAA" Cell Holders - PC Mount††				
1 Cell	2466K-ND	.75	.70	.64
2 Cell	2468K-ND	.78	.73	.67
3 Cell	2479K-ND	1.05	.97	.89
4 Cell	2481K-ND	1.15	1.07	.98
"AAA" Cell Holders - 6" Wire Leads††				
1 Cell	2467K-ND	.75	.70	.64
2 Cell	2469K-ND	.78	.73	.67
3 Cell	2480K-ND	1.05	.97	.89
4 Cell	2482K-ND	1.15	1.07	.98
"AA" Cell Holders*				
1 Cell	139K-ND	1.19	.90	.73
2 Cell	140K-ND	2.39	1.80	1.47
3 Cell	171K-ND	3.81	2.86	2.23
4 Cell	182K-ND	5.40	4.05	3.32
2 Cell	189K-ND	2.02	1.52	1.24
4 Cell	192K-ND	3.66	2.75	2.14
1 Cell	2222K-ND	1.49	1.12	.97
2 Cell	2223K-ND	2.54	1.91	1.64
"AA" Cell Holders - PC Mount††				
1 Cell	2460K-ND	.75	.70	.64
2 Cell	2462K-ND	.78	.73	.67
3 Cell	2464K-ND	1.05	.97	.89
4 Cell	2477K-ND	1.15	1.07	.98
"AA" Cell Holders - 6" Wire Leads††				
1 Cell	2461K-ND	.75	.70	.64
2 Cell	2463K-ND	.78	.73	.67
3 Cell	2465K-ND	1.05	.97	.89
4 Cell	2478K-ND	1.15	1.07	.98
"AA" Cell Holders - with Snap-On Connector††				
2 Cell	2474K-ND	.78	.73	.67
3 Cell	2475K-ND	1.05	.97	.89
4 Cell	2476K-ND	1.15	1.07	.98
Cell Lithium Holders - PC Mount††				
1/2 AA	108KK-ND	1.24	1.15	.67
AA	1028K-ND	1.24	1.15	.67
2/3 A	1029K-ND	1.24	1.15	.67
Cell Lithium Retaining Cover††				
1/2 AA	108CK-ND	.40	.38	.36
AA	1028CK-ND	.48	.45	.42
2/3 A	1029CK-ND	.46	.43	.40
"C" Cell Holders*†				
1 Cell	173K-ND	1.46	1.10	.90
2 Cell	174K-ND	2.54	1.91	1.56
3 Cell	187K-ND	5.74	4.31	3.37
2 Cell	185K-ND	2.23	1.68	1.37
4 Cell	196K-ND	4.25	3.20	2.52
1 Cell	2224K-ND	1.52	1.15	.94
2 Cell	2225K-ND*	2.72	2.05	1.67
"D" Cell Holders*†				
1 Cell	175K-ND	1.69	1.27	1.01
2 Cell	176K-ND	2.96	2.22	1.82
3 Cell	190K-ND	6.51	4.89	3.84

Fig.	Description	Digi-Key Part No.	Price Each 1	10	100
9	2 Cell	186K-ND	2.54	1.91	1.56
10	4 Cell	200K-ND	5.13	3.85	2.69
11	1 Cell	2226K-ND	2.11	1.59	1.28
12	2 Cell	2227K-ND	3.33	2.50	2.05
	24mm Coin Cell Lithium "PC" Holders				
22	1 Cell	105K-ND	1.17	.89	.78
23	2 Cell	1025K-ND	1.03	.91	.86
	20mm Coin Cell Lithium "PC" Holders				
22	1 Cell	106K-ND	1.17	.89	.78
22	1 Cell	103K-ND	1.27	1.18	.78
23	2 Cell	1026K-ND	1.03	.91	.86
	23mm Coin Cell Lithium "PC" Holders				
22	1 Cell	107K-ND	1.17	.89	.78
23	2 Cell	1027K-ND	1.03	.91	.86
	12mm Coin Cell Lithium "PC" Holders				
22	1 Cell	500K-ND	1.10	.90	.78
	16mm Coin Cell Lithium "PC" Holders				
22	1 Cell	502KE-ND	1.57	1.28	1.10
	20mm Coin Cell Holder				
24	1 Cell	1066K-ND	1.27	1.18	.78
	Vertical 20mm Coin Cell Holder				
25	1 Cell	1067K-ND	1.13	1.01	.95
26	1 Cell	1065K-ND	1.13	1.01	.95
	Surface Mount Coin Cell Retainer Contacts				
27	12mm	3000K-ND	.35	.27	.24
27	20mm	3002K-ND	.36	.28	.25
27	23mm	3004K-ND	.37	.28	.25
27	24mm	3006K-ND	.40	.30	.27
	Thru Hole Mount Coin Cell Retainer Contacts				
28	12mm	3001K-ND	.35	.27	.24
28	20mm	3003K-ND	.36	.28	.25
28	23mm	3005K-ND	.37	.28	.25
28	24mm	3007K-ND	.40	.30	.27
	Surface Mount Coin Cell Holder - Bulk				
29	1 Cell, 20mm	1060K-ND	1.27	1.18	.78
	Surface Mount Coin Cell Holder - Tape & Reel				
29	1 Cell, 20mm	1060KTR-ND	408.26/500		
	Surface Mount Coin Cell Holder - Bulk				
30	1 Cell, 20mm	1061K-ND	1.71	1.58	1.05
30	2 Cell, 20mm	1062K-ND	1.71	1.58	1.05
30	1 Cell, 23mm	1071K-ND	1.71	1.58	1.05
	Surface Mount Coin Cell Holder - Tape & Reel				
30	1 Cell, 20mm	1061KTR-ND	232.08/200		
30	2 Cell, 20mm	1062KTR-ND	232.08/200		
30	1 Cell, 23mm	1071KTR-ND	232.08/200		
	9 Volt Holders				
31	1 Cell	1294K-ND††	1.34	1.01	.84
32	1 Cell	1295K-ND††	1.29	.97	.80
	Insulated Polarizing Washers				
33	Red	59K-ND	—	.08	.07
33	Black	60K-ND	—	.08	.07
	"AAA" Snap-In PC Battery Clip				
34	—	82K-ND•	.39/2	.17	.14
	"AA" Snap-In PC Battery Clip				
34	1 Cell	92K-ND•	.53/2	.20	.14
	"AAA", "AAAA", "N" Snap-IN Battery Contact				
35	—	238K-ND•	.25/2	.11	.10
	9 Volt "PC" Snap-On Battery (on board battery mount)				
36	Male	593K-ND	.29	.22	.21
37	Female	594K-ND	.35	.26	.25

Fig.	Description	Digi-Key Part No.	Price Each 1	10	100
	9 Volt Battery Straps				
38	Single	72K-ND	.85	.77	.58
39	Dual	227K-ND	2.21	1.66	1.36
	Premium 9 Volt Battery Straps (I-Style)				
40	Single, 4"	2238K-ND	.48	.45	.39
40	Single, 6"	2239K-ND	.50	.47	.40
40	Single, 8"	2240K-ND	.51	.48	.41
	Premium 9 Volt Battery Straps (T-Style)				
41	Single, 4"	2241K-ND	.51	.48	.41
41	Single, 6"	2242K-ND	.53	.50	.42
41	Single, 8"	2243K-ND	.55	.51	.43
	Economy 9 Volt Battery Straps (I-Style)				
40	Single, 4"	232K-ND	.30	.28	.26
40	Single, 6"	233K-ND	.30	.28	.26
40	Single, 8"	234K-ND	.31	.29	.27
	Economy 9 Volt Battery Straps (T-Style)				
41	Single, 4"	235K-ND	.32	.30	.28
41	Single, 6"	236K-ND	.33	.31	.28
41	Single, 8"	237K-ND	.34	.31	.29
	Shielded 9 Volt Battery Straps (I-Style)				
42	Single, 4"	84-4K-ND	.35	.33	.30
42	Single, 6"	84-6K-ND	.36	.34	.31
42	Single, 8"	84-8K-ND	.37	.34	.32
	Shielded 9 Volt Battery Straps (T-Style)				
42	Single, 4"	81-4K-ND	.35	.33	.30
42	Single, 6"	81-6K-ND	.36	.34	.31
42	Single, 8"	81-8K-ND	.37	.34	.32
	Vertical "9V" PC Snap-On Connector				
43	—	968K-ND	.49	.45	.33
	Single "AA" Cell Contacts				
44	—	209K-ND•	.41/2	.17	.15
	Dual "AA" Cell Contacts				
45	—	210K-ND•	.62/2	.26	.22
	"AAA" Snap-On Contacts				
44	—	204K-ND•	.41/2	.17	.15
45	—	202K-ND•	.62/2	.26	.22
	"A", "AA" "9V" Spring Contacts				
46	—	5209K-ND	—	.37	.30
	"A", "AA" Battery Contacts				
47	Dual w/tabs	5211K-ND	—	.26	.21
48	Dual	5212K-ND	—	.32	.26
49	(+) Button	5224K-ND	—	.10	.09
50	(-) Spring	5202K-ND	—	.20	.16
51	(+) Button w/tabs	5223K-ND	—	.10	.09
52	(-) Spring w/tabs	5201K-ND	—	.17	.14
	"AAA", "AAAA", "N" Battery Contacts				
49	(+) Button	5225K-ND	—	.08	.06
50	(-) Spring	5203K-ND	—	.26	.21
51	(+) Button w/tabs	5226K-ND	—	.10	.09
52	(-) Spring w/tabs	5204K-ND	—	.17	.14
53	Dual Left Side	5214K-ND	—	.24	.19
54	Dual Rt. Side	5213K-ND	—	.24	.19
	"A" PC Contacts				
55	(+) Button	595K-ND	—	.13	.11
56	(-) Spring	628K-ND	—	.68	.55
	"AA", "AAA", "N" PC Contacts				
55	(+) Button	637K-ND	—	.12	.10
56	(-) Spring	629K-ND	—	.68	.55

* Cell Holders are Aluminum. †† Cell Holders are Plastic. † "C" and "D" cell holders are dual clips only. • Figs. 34, 35, 44 & 45 sold by the pair.

Memory Protection Devices



Battery Holders

Fig.	No. of Cells	Description	Digi-Key Part No.	Price Each 1	10	100
		"1/3N" Cell Holders				
1	1	PC Mount, Solder Legs	BC1/3N-ND	.86	.78	.66
		"N" Cell Holders				
2	2	PC Mount, Solder Legs	BH2N-ND	1.94	1.75	1.60
		"AAA" Cell Holders				
3	2	PC Mount, Solder Legs	BH2AAA-PC-ND	1.35	1.22	1.01
4	3	PC Mount, Solder Legs	BH3AAA-PC-ND	2.24	2.02	1.68
3	2	6" (152.40mm) Wire Leads, Stripped-Tinned .187" (4.76mm)	BH2AAA-W-ND	1.35	1.22	1.01
4	3	6" (152.40mm) Wire Leads, Stripped-Tinned .187" (4.76mm)	BH3AAA-W-ND	2.24	2.02	1.68
5	4	6" (152.40mm) Wire Leads, Stripped-Tinned .187" (4.76mm)	BH4AAA-W-ND	2.49	2.25	1.88
6	3	6" (152.40mm) Wire Leads, Stripped-Tinned .161" (5mm) with Cover	SBH-431A-ND	.83	.75	.63
		"AA" Cell Holders				
8	1	PC Mount, Solder Legs	BHAA-2-ND	.73	.66	.60
3	2	PC Mount, Solder Legs	BH2AA-PC-ND	1.42	1.28	1.07
4	3	PC Mount, Solder Legs	BH3AA-PC-ND	2.39	2.16	1.80
5	4	PC Mount, Solder Legs	BH4AA-PC-ND	2.59	2.34	1.95
9	3	Battery Case for 3 AA Cells, 6" (152.40mm) Wire Leads and Switch with Belt Clip	SBC331AS-GRN-ND	1.80	1.62	1.50
10	2	Battery Case for 2 AA Cells, 6" (152.40mm) Wire Leads and Switch	SBH-321AS-ND	.72	.65	.60
10	3	Battery Case for 3 AA Cells, 6" (152.40mm) Wire Leads and Switch	SBH-331AS-ND	1.03	.93	.86
10	4	Battery Case for 4 AA Cells, 6" (152.40mm) Wire Leads and Switch	SBH-341AS-ND	1.08	.98	.90
3	2	6" (152.40mm) Wire Leads, Stripped-Tinned .187" (4.76mm)	BH2AA-W-ND	1.42	1.28	1.07
4	3	6" (152.40mm) Wire Leads, Stripped-Tinned .187" (4.76mm)	BH3AA-W-ND	2.39	2.16	1.80
5	4	6" (152.40mm) Wire Leads, Stripped-Tinned .187" (4.76mm)	BH4AA-W-ND	2.59	2.34	1.95
		Computer Clock Battery Replacement / "AA" Cell Holder				
11	3	9" (228.60mm) Wire Leads with Connector, Velcro Pads Included	BH3AA-211-ND	3.19	2.88	2.84
		"1/2AA" Cell Holders				
8	1	PC Mount, Solder Legs	BH1/2AA-2-ND	.70	.64	.58
		"2/3A" or "123A" Cell Holders				
7		PC Mount, Solder Legs	BC2/3AE-ND	1.33	1.23	.77
—		Cover for BC2/3AE	BC2/3AC-ND	.42	.39	.26
8	1	PC Mount, Solder Legs	BH2/3A-ND	1.65	1.57	1.50
8		PC Mount, Solder Legs	BH2/3A-2-ND	.73	.66	.60
—		Cover for BH2/3A-2	BH2/3AC-ND	.59	.53	.45
		"C" Cell Holders				
12	1	PC Mount, Solder Legs	BHC-ND	2.02	1.82	1.76
		Lantern Battery Replacement — "D" Cell Holders				
13	4	Uses Four UM-1 or D Cells	BA4D-S-ND	2.70	2.44	2.35
		Coin Cell Holders — 10mm Cell Diameter				
14	1	PC Mount, Solder Legs, 2–2.5mm Cell Height	BH401-ND	.98	.89	.77
		Coin Cell Holders — 12.5mm Cell Diameter				
14	1	PC Mount, Solder Legs, 2–2.5mm Cell Height	BH501-ND	1.04	.87	.80
		Coin Cell Holders — 16mm Cell Diameter				
15	1	PC Mount, Solder Legs, 1.6–3.2mm Cell Height	BH600-ND	.92	.83	.70
16		SMT, Temperature Range -40°C~245°C	BH600SM-ND	1.13	1.02	.85
		Coin Cell Holders — 20mm Cell Diameter				
17	2	PC Mount, Solder Legs 2.5–3.2mm Cell Height	BH800S-ND	.60	.55	.54
18	1	PC Mount, Solder Legs	BH32T-C-ND	.97	.73	.62
19	1	Vertical, for BR, CR2032 Battery	BS-5-ND	.74	.67	.56
20	1	Horizontal, for BR, CR2032 Battery	BS-3-ND	.68	.62	.52
22	1	Horizontal, for 3V Lithium Battery, CR2032 or BR2032	BS-7-ND	.68	.62	.52
21	1	PC Mount, Press-to-Eject Feature, CR2032 Battery	BA2032-ND	.72	.59	.54
23		SMT, Press-to-Eject Feature, CR2032 Battery	BA2032SM-ND	.72	.59	.54

Fig.	No. of Cells	Description	Digi-Key Part No.	Price Each 1	10	1
		Coin Cell Holders — 23mm Cell Diameter				
17	2	PC Mount, Solder Legs, 2.5mm Cell Height	BH906S-ND	1.01	.92	
18	1	PC Mount, Solder Legs, 2–3.2mm Cell Height	BH908T-C-ND	.97	.73	
		Coin Cell Holders — 24-25mm Cell Diameter				
24	1	PC Mount, Solder Legs, 2–3mm Cell Height	BH2430T-C-ND	.89	.81	
25		PC Mount, Solder Legs, 7.7mm Cell Height	BH1000-G-ND	1.22	1.13	
		Coin Cell Holders — 30mm Cell Diameter				
26	1	PC Mount, Solder Legs, 3.2mm Cell Height	BH3000-ND	1.22	1.13	
		9-Volt Cell Holders / Snaps				
27	1	PC Mount, Solder Legs	BH9V-PC-ND	1.17	1.06	
		6" (152.40mm) Wire Leads	BH9V-W-ND	.88	.80	
28	1	6" (152.40mm) Battery Snap Cable	BS6I-ND	.30	.27	
		12" (304.8mm) Battery Snap Cable	BS12I-ND	.31	.28	
29	1	6" (152.40mm) Heavy Duty Battery Snap Cable	BS6I-HD-ND	.33	.31	
		12" (304.8mm) Heavy Duty Battery Snap Cable	BS12I-HD-ND	.35	.32	
30	1	6" (152.40mm) I-Style Molded Case Battery Snap Cable	BS6I-MC-ND	.39	.35	
30	1	12" (304.8mm) I-Style Molded Case Battery Snap Cable	BS12I-MC-ND	.41	.38	
31	1	PC Mount, Printed Circuit Board Type with Contacts	BC9VPC-ND	1.41	1.13	
		Printed Circuit Snap-Ons (off board battery mount)				
32	—	9-Volt Female Snap-on	BSPCF-ND	.22	.20	
33	—	9-Volt Male Snap-on	BSPCM-ND	.19	.18	

Cigarette Lighter Auto Power

- 21 mm (Inside Diameter) • Auto Plugs: (Fuse 3AG Style)
- The length of the cord shown in each item is measured from the welding point

Fig.	Description	Digi-Key Part No.	Price Each 1	10	1
	Auto Power Plug				
34	ABS Fused Auto Plug with LED, Black	APP-001-ND	2.25	2.03	2
	ABS Fused Auto Plug with LED, Gray	APP-002-ND	2.25	2.03	2
	ABS Fused Auto Plug with No LED, Black	APP-003-ND	2.07	1.86	1
	Auto Power Assemblies				
35	Cigarette Inline Socket, Plastic	ZA2010-ND	1.13	1.02	1
—	Red Rubber Cap for Sockets	ZA2081-R-ND	.56	.51	
36	12' (3.66 meters) Coil Cord Assembly with 5A Fused Plug with LED	ZA5070-ND	5.84	5.26	5
37	12' (3.66 meters) 18AWG Cord Assembly with 10A Fused Plug with LED	ZA5071-ND	6.48	5.84	5
38	8" (203.2mm) 18AWG Cord Assembly with 10A Fused Plug with LED	ZA5072-ND	6.20	5.58	5
39	6' (1.83 meters) 18AWG Cord, 2.1mm x 5.5mm DC Plug with 5A Fused Plug with LED	ZA5073-ND	3.85	3.47	3
39	6' (1.83 meters) 18AWG Cord, 2.5mm x 5.5mm DC Plug with 5A Fused Plug with LED	ZA5073-2.5-ND	5.09	4.63	3
40	12' (3.66 meters) Cord, 2.1mm x 5.5mm DC Plug, with 5A Fused Plug with LED	ZA5074-ND	6.11	5.50	5
41	1' (0.30 meters) UL2468 Cord, Lead Acid Clip, with 2A Fused Plug with LED	ZA5076-ND	4.32	3.89	3
42	6' (1.83 meters) Cord, 2.1mm x 5.5mm Rt. Angle DC Plug with 3A Fused Plug with LED	ZA5077-ND	3.85	3.47	3
43	8" (203.2mm), UL2468 Cord, Lead Acid Clip, 2.1mm x 5.5mm DC Plug	ZA5350-ND	2.91	2.63	2
43	8" (203.2mm), UL2468 Cord, Lead Acid Clip, No Connector	ZA5350-B-ND	2.54	2.29	2
44	Panel Mount, Power Socket, Insert Lock	ZA2070-ND	3.36	3.00	2
	Panel Mount, Power Socket, Screw Lock	ZA2060-ND	2.60	2.32	2
45	Power Plug Splitter, One Male Plug-Two Receptacle Sockets with LED	ZA5018-ND	6.08	5.50	5

K

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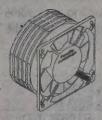
dro-Wave Bearing Technology



SPECIFICATIONS:
- Operating Temperature: -10°C ~ +70°C (65%RH)
- Plastic Rating: All Panaflo fans are manufactured with a UL94V-0 plastic (flammability)
- Noise Data: The noise data is measured at 1 meter from the air intake side of the fan suspended in a semi-anechoic chamber (background noise 13dB-A max.)
- Life Expectancy: 50,000 hours (40°C, 65%RH)

Operating Voltage (VDC)		Dim. (mm)	Input Power	Max. Air Flow	Max. Air Pressure	Max. Noise	Lead Length	Digi-Key	Price Each					Panasonic	Finger	Price
om.	Range	Sq.xThk.	(W)	(CFM)	(mmH_2O)	(dB-A)	(mm)	Part No.	1	5	10	50	100	Part No.	Guards	Each
12	7-13.5	60 x 25.5	3.24	15.89	4.7	42.0	315	P10893-ND	8.75	7.53	6.48	5.81	5.25	FBL06A12U1A	CR221-ND	.57
12	7-13.5	60 x 25.5	3.24	15.89	4.7	42.0	315	P11091-ND	8.75	7.53	6.48	5.81	5.25	FBL06A12U1BS	CR221-ND	.57
12	7-13.8	60 x 25.5	2.64	14.83	4.1	36.0	315	P10892-ND	8.75	7.53	6.48	5.81	5.25	FBL06A12H1A	CR221-ND	.57
12	7-13.8	60 x 25.5	2.04	13.06	3.0	32.0	315	P10891-ND	8.75	7.53	6.48	5.81	5.25	FBL06A12M1A	CR221-ND	.57
12	7-13.8	60 x 25.5	1.68	14.83	2.1	29.0	315	P10890-ND	8.75	7.53	6.48	5.81	5.25	FBL06A12L1A	CR221-ND	.57
24	14-27.6	60 x 25.5	3.24	15.89	4.7	42.0	315	P11017-ND	8.75	7.53	6.48	5.81	5.25	FBL06A24U1A	CR221-ND	.57
24	14-27.6	60 x 25.5	2.64	14.83	4.1	36.0	315	P11016-ND	8.75	7.53	6.48	5.81	5.25	FBL06A24H1A	CR221-ND	.57
24	14-27.6	60 x 25.5	2.04	13.06	3.0	32.0	315	P11015-ND	8.75	7.53	6.48	5.81	5.25	FBL06A24M1A	CR221-ND	.57
24	14-27.6	60 x 25.5	1.68	14.83	2.1	29.0	315	P11014-ND	8.75	7.53	6.48	5.81	5.25	FBL06A24L1A	CR221-ND	.57
12	7-13.5	80 x 25.5	4.32	35.31	4.7	42.0	300	P11082-ND	9.25	7.96	6.85	6.15	5.55	FBL08A12U1BX	CR180-ND	.85
12	7-13.8	80 x 25.5	4.32	35.31	4.0	42.0	300	P10897-ND	8.75	7.53	6.48	5.81	5.25	FBL08A12U1A	CR180-ND	.85
12	7-13.8	80 x 25.5	3.00	30.01	2.9	39.0	300	P10896-ND	8.75	7.53	6.48	5.81	5.25	FBL08A12H1A	CR180-ND	.85
12	7-13.8	80 x 25.5	2.04	24.71	2.0	33.0	300	P10895-ND	8.75	7.53	6.48	5.81	5.25	FBL08A12M1A	CR180-ND	.85
12	7-13.8	80 x 25.5	1.20	17.30	1.1	26.0	300	P10894-ND	8.75	7.53	6.48	5.81	5.25	FBL08A12L1A	CR180-ND	.85
24	14-27.6	80 x 25.5	4.32	35.30	4.0	42.0	300	P11021-ND	8.75	7.53	6.48	5.81	5.25	FBL08A24U1A	CR180-ND	.85
24	14-27.6	80 x 25.5	3.00	30.00	2.9	39.0	300	P11020-ND	8.75	7.53	6.48	5.81	5.25	FBL08A24H1A	CR180-ND	.85
24	14-27.6	80 x 25.5	2.04	24.71	2.0	33.0	300	P11019-ND	8.75	7.53	6.48	5.81	5.25	FBL08A24M1A	CR180-ND	.85
24	14-27.6	80 x 25.5	1.20	17.30	1.1	26.0	300	P11018-ND	8.75	7.53	6.48	5.81	5.25	FBL08A24L1A	CR180-ND	.85
12	7-13.5	92 x 25.5	3.48	45.89	3.3	40.0	295	P10900-ND	8.75	7.53	6.48	5.81	5.25	FBL09A12H1A	CR220-ND	.68
12	7-13.5	92 x 25.5	3.48	45.9	3.3	40.0	295	P11083-ND	9.25	7.96	6.85	6.15	5.55	FBL09A12H1BX	CR220-ND	.68
12	7-13.8	92 x 25.5	6.60	54.72	4.4	47.0	295	P10901-ND	8.75	7.53	6.48	5.81	5.25	FBL09A12U1A	CR220-ND	.68
12	7-13.8	92 x 25.5	2.40	35.30	2.3	36.0	295	P10899-ND	8.75	7.53	6.48	5.81	5.25	FBL09A12M1A	CR220-ND	.68
12	7-13.8	92 x 25.5	1.80	31.77	1.9	33.0	295	P10898-ND	8.75	7.53	6.48	5.81	5.25	FBL09A12L1A	CR220-ND	.68
24	14-27.6	92 x 25.5	6.60	54.70	4.4	47.0	295	P11025-ND	8.75	7.53	6.48	5.81	5.25	FBL09A24U1A	CR220-ND	.68
24	14-27.6	92 x 25.5	6.60	54.70	4.4	47.0	295	P11092-ND	9.00	7.74	6.66	5.98	5.40	FBL09A24U1BX	CR220-ND	.68
24	14-27.6	92 x 25.5	3.48	45.89	3.3	40.0	295	P11024-ND	8.75	7.53	6.48	5.81	5.25	FBL09A24H1A	CR220-ND	.68
24	14-27.6	92 x 25.5	2.40	35.30	2.3	36.0	295	P11023-ND	8.75	7.53	6.48	5.81	5.25	FBL09A24M1A	CR220-ND	.68
24	14-27.6	92 x 25.5	1.80	31.77	1.9	33.0	295	P11022-ND	8.75	7.53	6.48	5.81	5.25	FBL09A24L1A	CR220-ND	.68
12	7-13.8	120 x 38	7.80	86.49	5.5	48.0	280	P10905-ND	29.38	25.27	21.74	19.51	17.63	FBL12G12U1A	CR210-ND	1.79
12	7-13.8	120 x 38	7.20	81.19	5.2	46.0	280	P10904-ND	28.25	24.30	20.91	18.76	16.95	FBL12G12H1A	CR210-ND	1.79
12	7-13.8	120 x 38	5.40	67.07	3.6	41.0	280	P10903-ND	28.25	24.30	20.91	18.76	16.95	FBL12G12M1A	CR210-ND	1.79
12	7-13.8	120 x 38	2.88	52.95	2.3	35.0	280	P10902-ND	28.25	24.30	20.91	18.76	16.95	FBL12G12L1A	CR210-ND	1.79
24	14-27.6	120 x 38	7.80	86.49	5.5	48.0	280	P11029-ND	29.38	25.27	21.74	19.51	17.63	FBL12G24U1A	CR210-ND	1.79
24	14-27.6	120 x 38	7.20	81.19	5.2	46.0	280	P11028-ND	28.25	24.30	20.91	18.76	16.95	FBL12G24H1A	CR210-ND	1.79
24	14-27.6	120 x 38	5.40	67.07	3.6	41.0	280	P11027-ND	28.25	24.30	20.91	18.76	16.95	FBL12G24M1A	CR210-ND	1.79
24	14-27.6	120 x 38	2.88	52.95	2.3	35.0	280	P11026-ND	28.25	24.30	20.91	18.76	16.95	FBL12G24L1A	CR210-ND	1.79

ufacturer Part Number Ending Code: **BS** - Locked Rotor Alarm Sensor **BX** - 2 PPR Speed Sensor (TAC Output)

C-000-ND	Lead Wire Assembly, 3 Conductors	$1.72/1; $38.70/25
1031-ND	Lead Wire Assembly, 2 Conductors	$.63/1; $13.44/25

se Note: Custom Fan Cable Assemblies available upon request.

C Fans UDQ Series

CIFICATIONS:
erating Temperature: 0°C to 70°C
erating Humidity: <85 Rh%
: Not for New Design

Fig. 1 – Flat Unidirectional (Cooler Chip)

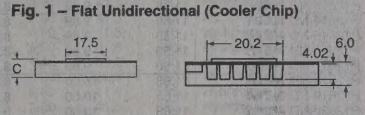
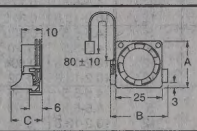


Fig. 2 – Vertical (Axial)



Dimensions (mm)			Operating Voltage (VDC)		Current @ 60°C	Speed @ 60°C	Max Air Flow @ 60°C		Max Air Pressure @ 60°C		Life Expectancy	Noise @ 1M	Digi-Key	Price Each					Panasonic
A	B	C	Nom.	Range	(mA)	(r/min)	(m3/min.)	(CFM)	(Pa)	(in H2O)	(Hrs.@ 60°C)	dBA	Part No.	1	5	10	50	100	Part No.
44.5	44.5	7.5	5	4.5 ~ 6	150	4,800	0.022	0.78	24.5	0.10	30,000	26	P9770-ND*	28.13	24.19	18.75	17.31	16.08	UDQFC4E07-PI
45	45	7	5	3.1 ~ 5.5	225	7,500	0.039	1.40	65	0.26	30,000	33	P11089-ND§	18.13	15.59	13.42	12.04	10.88	UDQFUMH01-P1
25	25	10	5	3.1 ~ 5.5	40	7,800	0.040	1.41	24	0.10	30,000	17	P11093-ND	13.75	11.83	10.18	9.13	8.25	UDQFBFM01CP1
30	30	10	5	3.1 ~ 5.5	90	8,500	0.10	3.60	35	0.14	30,000	26	P11085-ND‡	20.00	17.20	14.80	13.28	12.00	UDQFHBB01-P1
30	30	10	5	3.1 ~ 5.5	50	6,000	0.065	2.29	17	0.07	30,000	18	P11094-ND	13.75	11.83	10.18	9.13	8.25	UDQFHFM01P1

ermal Sensor 10K@ 25°C § Hydrodynamic Bearings ‡ Ball Bearings

C Fans FBK Series

ures:
shless DC Motor
RF and Audible
nd

- Adjustable Speed
- High Efficiency
- Long Life

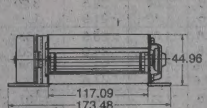
SPECIFICATIONS:
• Operating Temperature: -10°C ~ 70°C • Bearing System: Ball bearing • Insulation Resistance: 10MΩ min. DC 250V between frame and 1 lead wire • Dielectric Strength: AC 500V 1 minute less than 5mA between frame and + lead wire • Plastic housing and blade material are PET, UL 94V-0 rating. • Noise is measured at rated voltage in free air in semi-anechoic chamber (background noise 18 dB max.) • Panasonic will guarantee the life time as 10,000 hours with 100% confidence at 25°C continuous operation

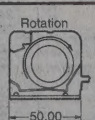
Operating Voltage (VDC)		Dim. (mm)	Input Power	Max. Air Flow	Max. Air Pressure	Max. Noise	Lead Length	Digi-Key	Price Each					Panasonic	Finger	Price
Nom.	Range	Sq.xThk.	(W)	(CFM)	(mmH_2O)	(dB-A)	(mm)	Part No.	1	5	10	50	100	Part No.	Guards	Each
5	4.5-6.0	40 x 20	0.60	3.9	2.50	24.0	300	P9700-ND	15.00	12.90	11.10	9.96	9.00	FBK04F05L	CR285-ND	.29
5	4.5-6.0	40 x 20	1.40	6.7	6.60	33.0	300	P9701-ND	15.00	12.90	11.10	9.96	9.00	FBK04F05H	CR285-ND	.29
12	7.0-13.8	40 x 20	1.80	6.7	6.60	32.0	300	P11081-ND*	15.25	13.12	11.29	10.13	9.15	FBK04F12HS	CR285-ND	.29
12	7.0-13.8	40 x 20	2.04	9.2	12.00	42.0	300	P9723-ND	15.00	12.90	11.10	9.96	9.00	FBK04F12U	CR285-ND	.29
12	7.0-13.8	40 x 20	2.04	9.2	12.00	42.0	300	P9994-ND*	14.88	12.80	11.01	9.88	8.93	FBK04F12US	CR285-ND	.29
12	7.0-13.8	40 x 20	1.80	6.7	6.60	32.0	300	P9703-ND	15.00	12.90	11.10	9.96	9.00	FBK04F12H	CR285-ND	.29
12	7.0-13.8	40 x 20	0.90	3.9	2.50	23.0	300	P9702-ND	15.00	12.90	11.10	9.96	9.00	FBK04F12L	CR285-ND	.29
24	14.0-27.6	40 x 20	2.40	9.2	12.00	42.0	300	P9762-ND	15.00	12.90	11.10	9.96	9.00	FBK04F24U	CR285-ND	.29
24	14.0-27.6	40 x 20	2.21	6.7	6.60	33.0	300	P9704-ND	15.00	12.90	11.10	9.96	9.00	FBK04F24H	CR285-ND	.29

* Locked rotor alarm sensor

ross Flow Fans *"Not Recommended for New Design"*

IGN: • Motor: DC Brushless 2 phase half wave drive • Bearing: Sleeve with Molded monobody housing • Blade: Molded, 1.30" (33mm) eter, 1.57" (39.9mm) long multiple blades • Mounting: L-Shaped Molded Bracket • Lead Wires: UL 1007, AWG 26





Operating Voltage (VDC)		Input Power	Air Flow	Air Pressure	Noise	Digi-Key	Price Each				Panasonic
Nom.	Range	(W)	(CFM)	(mmH_2O)	(dB-A)	Part No.	1	5	10	50	Part No.
24	20.4-27.6	3.94	22.7	2.4	42.0	P9722-ND	27.25	23.44	20.17	18.10	FCB34AB24

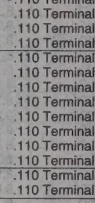
Panasonic NMB-MAT

NEW! AC Axial Fans

NMB-MAT AC Axial Fans suit a wide range of applications. They force air out in a "funnel" type pattern, and ideal when cooling a specific area such as a power supply that is surrounded by numerous components minimum ventilation available.

Size (mm)	Bearing	Voltage	Input Power (W)	Air Flow (CFM)	Noise (dB)	Leads	Digi-Key Part No.	Price Each 1	5	10	Panasonic Part No.
60x30	Ball	115	4	9.18	29	22AWG, 300mm Leads	P12871-ND	16.50	14.19	12.21	2412PS12WB30A0
80x25	Ball	115	5	19.77	33	22AWG, 300mm Leads	P12872-ND	16.50	14.19	12.21	3110PS12WB30A0
80x38	Ball	115	6	22	36	.110 Terminal	P12873-ND	16.65	14.32	12.33	3115FS12TB10A0
		115	7	31.77	38	.110 Terminal	P12881-ND	16.50	14.19	12.21	3115PS12TB30A0
		115	8.5	32	44	.110 Terminal	P12874-ND	16.50	14.19	12.21	3115FS12TB30A0
		115	6.0	22	36	22AWG, 300mm Leads	P12877-ND	16.50	14.19	12.21	3115FS12WB10A0
		115	8.5	32	44	22AWG, 300mm Leads	P12878-ND	16.50	14.19	12.21	3115FS12WB30A0
		115	7.0	32	38	22AWG, 300mm Leads	P12882-ND	16.50	14.19	12.21	3115PS12WB30A0
		230	6.5	20	35	22AWG, 300mm Leads	P12879-ND	16.50	14.19	12.21	3115FS23WB10A0
		230	8.0	33	44	22AWG, 300mm Leads	P12880-ND	16.50	14.19	12.21	3115FS23WB30A0
		230	6.5	20	35	.110 Terminal	P12875-ND	16.50	14.19	12.21	3115FS23TB10A0
		230	8	33	44	.110 Terminal	P12876-ND	16.50	14.19	12.21	3115FS23TB30A0
92x25	Ball	115	9	34.6	38	.110 Terminal	P12883-ND	16.50	14.19	12.21	3610PS12TB30A0
		115	9.0	34.5	38	22AWG, 300mm Leads	P12884-ND	16.50	14.19	12.21	3610PS12WB30A0
		230	10	34.6	39	.110 Terminal	P12885-ND	16.50	14.19	12.21	3610PS23TB30A0
		230	10	34.5	39	22AWG, 300mm Leads	P12886-ND	16.50	14.19	12.21	3610PS23WB30A0
119x25	Ball	115	11	70.6	38	.110 Terminal	P12888-ND	17.00	14.62	12.58	4710PS12TB30A0
		115	7	53	30	.110 Terminal	P12887-ND	17.00	14.62	12.58	4710PS12TB20A0
		230	11	70.6	38	.110 Terminal	P12890-ND	17.00	14.62	12.58	4710PS23TB30A0
		230	8	53	30	.110 Terminal	P12889-ND	17.00	14.62	12.58	4710PS23TB20A0
119x38	Ball	115	14.5	88.3	41	.110 Terminal	P12893-ND	16.25	13.98	12.03	4715MS12TB50A0
		115	7	67.1	30	.110 Terminal	P12892-ND	16.25	13.98	12.03	4715MS12TB20A0
		115	5.5	49.4	28	.110 Terminal	P12891-ND	16.25	13.98	12.03	4715MS12TB10A0
		115	10	70	33	.110 Terminal	P12895-ND	16.88	14.52	12.49	4715FS12TB10D0
		115	14.4	110	45	.110 Terminal	P12896-ND	16.88	14.52	12.49	4715FS12TB50D0
		230	14	102.4	41	.110 Terminal	P12894-ND	16.88	14.52	12.49	4715MS23TB50A0
		230	9	70	70	.110 Terminal	P12897-ND	16.88	14.52	12.49	4715FS23TB10D0
		230	14	110	110	.110 Terminal	P12898-ND	16.88	14.52	12.49	4715FS23TB50D0
150x172x38	Ball	115	32	21.2	56	.110 Terminal	P12899-ND	50.00	43.00	37.00	5915PC12TB30A0
		230	35	21.2	56	.110 Terminal	P12900-ND	50.00	43.00	37.00	5915PC23TB30A0

DC Axial Fans



GENERAL SPECIFICATIONS:
- Operating Temperature: -10°C ~ 60/70°C by model (65%RH)

FEATURES:
- Aerodynamic blade and venturi design
- They are ideal when cooling a specific area that is surrounded by numerous components with minimum ventilation available.

TÜV

Please Note:
Custom Fan Cable Assemblies available upon request.

Dim. (mm) Sq.xThk.	Operating Voltage (VDC) Nom.	Range	Input Power (W)	Max. Air Flow (CFM)	Max. Air Pressure (mm H_2O)	Max. Noise (dB-A)	Lead Length (mm)	Bearing	Digi-Key Part No.	Price Each 1	5	10	Panasonic Part No.	Finger Guards	Price Each
25x10	5	4.5-5.5	0.625	2.0	.20	25.0	200	Ball	P12806-ND **NEW!**	12.75	10.97	9.44	1004KL01WB50B00	—	
	12	8-13.8	0.72	2.0	.20	25.0	200	Ball	P12807-ND **NEW!**	12.75	10.97	9.44	1004KL04WB50B00	—	
30x10	5	4.5-5.5	0.90	3.8	.216	27.0	200	Ball	P12808-ND **NEW!**	13.75	11.83	10.18	1204KL01WB50B00	—	
	12	6-13.8	0.96	3.8	.216	27.0	200	Ball	P12809-ND **NEW!**	13.75	11.83	10.18	1204KL04WB50B00	—	
35x10	5	4.5-5.5	1.05	5.6	.16	27.0	200	Ball	P12810-ND **NEW!**	13.00	11.18	9.62	1404KL01WB50B00	—	
	12	8-13.8	0.96	5.6	.16	27.0	200	Ball	P12811-ND **NEW!**	13.00	11.18	9.62	1404KL04WB50B00	—	
40x10	5	4.5-5.5	0.775	6.0	.184	29.0	200	Ball	P12812-ND **NEW!**	11.25	9.68	8.33	1604KL01WB50B00	—	
	12	10.2-13.8	0.876	5.3	.136	25.0	200	Ball	P12813-ND **NEW!**	11.25	9.68	8.33	1604KL04WB40B00	—	
40x15	5	4.5-5.5	0.600	6.0	3.70	28.0	200	Ball	P12814-ND **NEW!**	11.50	9.89	8.51	1606KL01WB30L00	—	
	5	4.5-5.5	1.20	8.12	6.40	34.0	200	Ball	P12815-ND **NEW!**	11.50	9.89	8.51	1606KL01WB50L00	—	
	12	10.2-13.8	0.804	6.0	3.70	28.0	200	Ball	P12816-ND **NEW!**	11.50	9.89	8.51	1606KL04WB30L00	—	
	12	10.2-13.8	1.02	8.12	6.40	34.0	200	Ball	P12817-ND **NEW!**	11.50	9.89	8.51	1606KL04WB50L00	—	
40x20	5	4.5-5.5	0.35	4.9	.08	20.0	200	Ball	P12818-ND **NEW!**	11.63	10.00	8.61	1608KL01WB10L00	—	
	5	4.5-5.5	1.90	9.5	.28	33.0	200	Ball	P12819-ND **NEW!**	11.63	10.00	8.61	1608KL01WB50L00	—	
	12	10.2-13.8	0.48	4.9	.08	20.0	200	Ball	P12820-ND **NEW!**	11.63	10.00	8.61	1608KL04WB10L00	—	
	12	10.2-13.8	1.32	9.5	.28	33.0	200	Ball	P12821-ND **NEW!**	11.63	10.00	8.61	1608KL04WB50L00	—	
	24	20.0-25.2	0.96	4.9	.08	20.0	200	Ball	P12822-ND **NEW!**	11.63	10.00	8.61	1608KL05WB10L00	—	
	24	20.0-25.2	1.92	9.5	.28	33.0	200	Ball	P12823-ND **NEW!**	11.63	10.00	8.61	1608KL05WB50L00	—	
50x10	5	4.5-6.0	1.50	10.2	.14	34.0	200	Ball	P12824-ND **NEW!**	11.00	9.46	8.14	2004KL01WB50B00	—	
	12	10.2-13.8	1.20	10.2	.14	34.0	200	Ball	P12825-ND **NEW!**	11.00	9.46	8.14	2004KL04WB50B00	—	
52x15	12	10.2-13.0	1.56	14.1	.14	30.0	200	Ball	P12826-ND **NEW!**	11.00	9.46	8.14	2106KL04WB50L00	—	
60x15	12	7.0-13.8	0.48	6.7	.03	19.0	200	Ball	P12827-ND **NEW!**	11.13	9.57	8.24	2406KL04WB10L00	CR221-ND	.57
	12	6.0-13.8	1.92	18.3	.20	34.0	200	Ball	P12828-ND **NEW!**	11.13	9.57	8.24	2406KL04WB50L00	CR221-ND	.57
	12	7-13.8	1.74	16.6	4.75	32.0	325	Hydrowave	P9725-ND	10.00	8.60	7.40	FBA06T12H	CR221-ND	.57
	12	7-13.8	1.74	16.6	4.75	32.0	325	Hydrowave	P9996-ND	10.00	8.60	7.40	FBA06T12HS	CR221-ND	.57
	12	7-13.8	1.06	12.0	2.80	24.0	325	Hydrowave	P9724-ND	10.00	8.60	7.40	FBA06T12L	CR221-ND	.57
	24	10.0-27.6	2.40	18.3	.20	34.0	200	Ball	P12829-ND **NEW!**	11.13	9.57	8.24	2406KL05WB50L00	CR221-ND	.57
	24	14-27.6	1.99	16.6	4.75	32.0	325	Hydrowave	P9727-ND	10.00	8.60	7.40	FBA06T24H	CR221-ND	.57
	24	14-27.6	1.34	12.0	2.80	24.0	325	Hydrowave	P9726-ND	10.00	8.60	7.40	FBA06T24L	CR221-ND	.57
60x20	12	6.0-13.8	0.60	10.9	.07	22.5	300	Ball	P12830-ND **NEW!**	11.25	9.68	8.33	2408NL04WB10L00	CR221-ND	.57
	12	6.0-13.8	1.32	17.6	.16	31.5	300	Ball	P12831-ND **NEW!**	11.25	9.68	8.33	2408NL04WB50L00	CR221-ND	.57
	24	15.0-27.6	1.20	15.9	.13	29.0	300	Ball	P12832-ND **NEW!**	11.25	9.68	8.33	2408NL05WB40L00	CR221-ND	.57
60x25	12	6.0-13.8	0.90	13.7	.08	23.0	300	Ball	P12833-ND **NEW!**	10.88	9.36	8.05	2410ML04WB10B00	CR221-ND	.57
	12	6.0-13.8	2.04	21.5	.20	33.5	300	Ball	P12834-ND **NEW!**	10.88	9.36	8.05	2410ML04WB40B00	CR221-ND	.57
	24	10.0-27.6	2.40	23.3	.25	36.5	300	Ball	P12835-ND **NEW!**	10.88	9.36	8.05	2410ML05WB50B00	CR221-ND	.57
60x25.5	12	7-13.8	2.52	20.5	6.0	37.0	315	Hydrowave	P9758-ND	8.25	7.10	6.11	FBA06A12U1A	CR221-ND	.57
	12	7-13.8	2.52	20.5	6.0	37.0	315	Hydrowave	P9995-ND	8.25	7.10	6.11	FBA06A12U1BS	CR221-ND	.57
	12	7-13.8	2.04	19.1	5.20	32.0	315	Hydrowave	P9729-ND	8.25	7.10	6.11	FBA06A12H1A	CR221-ND	.57
	12	7-13.8	2.04	19.1	5.20	32.0	315	Hydrowave	P11033-ND	8.75	7.53	6.48	FBA06A12H1BX	CR221-ND	.57
	12	7-13.8	1.56	16.6	3.95	28.0	315	Hydrowave	P9767-ND	8.25	7.10	6.11	FBA06A12M1A	CR221-ND	.57
	12	7-13.8	1.32	14.1	3.10	24.0	315	Hydrowave	P9728-ND	8.25	7.10	6.11	FBA06A12L1A	CR221-ND	.57
	12	7-13.8	1.32	14.1	3.10	24.0	315	Hydrowave	P11034-ND	8.75	7.53	6.48	FBA06A12L1BX	CR221-ND	.57
	24	14-27.6	2.52	19.1	5.20	32.0	315	Hydrowave	P9731-ND	8.25	7.10	6.11	FBA06A24H1A	CR221-ND	.57
	24	14-27.6	2.16	16.6	3.95	28.0	315	Hydrowave	P9768-ND	8.25	7.10	6.11	FBA06A24M1A	CR221-ND	.57
	24	14-27.6	1.68	14.1	3.10	24.0	315	Hydrowave	P9730-ND	8.25	7.10	6.11	FBA06A24L1A	CR221-ND	.57
80x15	12	7-13.8	2.40	33.5	3.20	34.0	325	Hydrowave	P9733-ND	10.00	8.60	7.40	FBA08T12H	CR180-ND	.85
	12	7-13.8	2.40	33.5	3.20	34.0	325	Hydrowave	P11095-ND	10.00	8.60	7.40	FBA08T12HS	CR180-ND	.85
	12	7-13.8	0.95	21.9	1.55	23.0	325	Hydrowave	P9732-ND	10.00	8.60	7.40	FBA08T12L	CR180-ND	.85
	24	14-27.6	2.64	33.5	3.20	34.0	325	Hydrowave	P9735-ND	10.00	8.60	7.40	FBA08T24H	CR180-ND	.85
	24	14-27.6	1.13	21.9	1.55	23.0	325	Hydrowave	P9734-ND	10.00	8.60	7.40	FBA08T24L	CR180-ND	.85
80x20	12	6.0-13.8	1.08	26.5	.08	26.0	300	Ball	P12836-ND **NEW!**	12.38	10.65	9.16	3108NL04WB10P00	CR180-ND	.85
	12	6.0-13.8	3.36	44.0	.20	42.0	300	Ball	P12837-ND **NEW!**	12.38	10.65	9.16	3108NL04WB50P00	CR180-ND	.85
	24	15.0-27.6	1.30	26.5	.08	26.0	300	Ball	P12838-ND **NEW!**	12.38	10.65	9.16	3108NL05WB10P00	CR180-ND	.85
	24	15.0-27.6	3.60	44.0	.20	42.0	300	Ball	P12839-ND **NEW!**	12.38	10.65	9.16	3108NL05WB50P00	CR180-ND	.85
80x25	12	6.0-13.8	1.20	24.7	.07	22.0	300	Ball	P12840-ND **NEW!**	11.13	9.57	8.24	3110KL04WB10P00	CR180-ND	.85
	12	6.0-13.8	2.04	31.8	.10	28.0	300	Ball	P12841-ND **NEW!**	11.13	9.57	8.24	3110KL04WB30P00	CR180-ND	.85
	12	6.0-13.8	2.76	38.8	.15	34.0	300	Ball	P12842-ND **NEW!**	11.13	9.57	8.24	3110KL04WB50P00	CR180-ND	.85

Manufacturer Part Number Ending Code:
AZ - Solid Corner Housing **BS** - Locked Rotor Alarm Sensor **BX** - 2 PPR Speed Sensor (TAC Output) **BO** - Locked Rotor Alarm Sensor and Solid Corner Housing **CX** - Thermal Sensor **S** - Locked Rotor Alarm Sens

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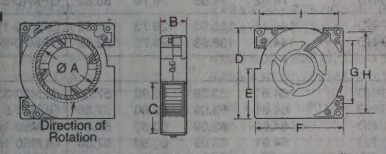
Dim. (mm) L x W x Thk.	Operating Voltage (VDC) Nom.	Range	Input Power (W)	Max. Air Flow (CFM)	Max. Air Pressure (mmH_2O)	Max. Noise (dB-A)	Lead Length (mm)	Bearing	Digi-Key Part No.	Price Each 1	5	10	Panasonic Part No.	Finger Guards	Price Each
30x25	24	10.0-27.6	1.44	24.7	.07	22.0	300	Ball	P12843-ND **NEW!**	11.13	9.57	8.24	3110KL05WB10P00	CR180-ND	.85
	24	10.0-27.6	2.88	38.8	.15	34.0	300	Ball	P12844-ND **NEW!**	11.13	9.57	8.24	3110KL05WB50P00	CR180-ND	.85
	12	7-13.8	3.24	46.9	4.80	38.2	300	Hydrowave	P9759-ND	8.25	7.10	6.11	FBA08A12U1A	CR180-ND	.85
	12	7-13.8	3.24	46.9	4.80	38.2	300	Hydrowave	P9997-ND	8.25	7.10	6.11	FBA08A12U1BS	CR180-ND	.85
	12	7-13.8	2.08	39.6	3.78	32.0	300	Hydrowave	P9738-ND	8.25	7.10	6.11	FBA08A12H1A	CR180-ND	.85
	12	7-13.8	2.08	39.6	3.78	32.0	300	Hydrowave	P11035-ND	8.25	7.10	6.11	FBA08A12H1AZ	CR180-ND	.85
	12	7-13.8	2.08	39.6	3.78	32.0	300	Hydrowave	P11036-ND	8.50	7.31	6.29	FBA08A12H1BS	CR180-ND	.85
	12	7-13.8	1.49	32.1	2.51	28.0	300	Hydrowave	P9737-ND	8.25	7.10	6.11	FBA08A12M1A	CR180-ND	.85
0x25.5	12	7-13.8	1.49	32.1	2.51	28.0	300	Hydrowave	P11038-ND	8.50	7.31	6.29	FBA08A12M1BS	CR180-ND	.85
	12	7-13.8	1.49	32.1	2.51	28.0	300	Hydrowave	P11039-ND	8.75	7.53	6.48	FBA08A12M1BX	CR180-ND	.85
	12	7-13.8	0.82	24.0	1.57	21.0	300	Hydrowave	P9736-ND	8.25	7.10	6.11	FBA08A12L1A	CR180-ND	.85
	12	7-13.8	0.82	24.0	1.57	21.0	300	Hydrowave	P11037-ND	8.25	7.10	6.11	FBA08A12L1AZ	CR180-ND	.85
	24	14-27.6	2.52	39.6	3.78	32.0	300	Hydrowave	P9741-ND	8.25	7.10	6.11	FBA08A24H1A	CR180-ND	.85
	24	14-27.6	2.52	39.6	3.78	32.0	300	Hydrowave	P11097-ND	11.50	10.07	8.63	FBA08A24H1CX	CR180-ND	.85
	24	14-27.6	1.70	32.1	2.51	28.0	300	Hydrowave	P9740-ND	8.25	7.10	6.11	FBA08A24M1A	CR180-ND	.85
	24	14-27.6	1.30	24.0	1.57	21.0	300	Hydrowave	P9739-ND	8.25	7.10	6.11	FBA08A24L1A	CR180-ND	.85
0x32	12	6.0-13.8	3.00	46.9	.22	37.0	300	Ball	P12845-ND **NEW!**	12.38	10.65	9.16	3112KL04WB40E00	CR180-ND	.85
	24	10.0-27.6	3.36	46.9	.22	37.0	300	Ball	P12846-ND **NEW!**	12.38	10.65	9.16	3112KL05WB40E00	CR180-ND	.85
2x25	12	6.0-13.8	2.64	47.6	.15	37.5	300	Ball	P12847-ND **NEW!**	14.25	12.26	10.55	3610KL04WB40P00	CR220-ND	.68
	24	10.0-25.0	3.84	54.7	.19	41.0	300	Ball	P12848-ND **NEW!**	14.25	12.26	10.55	3610KL05WB50P00	CR220-ND	.68
	12	7-13.8	5.16	68.8	5.0	43.0	295	Hydrowave	P9760-ND	8.25	7.10	6.11	FBA09A12U1A	CR220-ND	.68
	12	7-13.8	5.16	68.8	5.0	43.0	295	Hydrowave	P11044-ND	8.50	7.31	6.29	FBA09A12U1BO	CR220-ND	.68
	12	7-13.8	5.16	68.8	5.0	43.0	295	Hydrowave	P9975-ND	8.50	7.31	6.29	FBA09A12U1BX	CR220-ND	.68
	12	7-13.8	2.70	56.8	3.98	35.0	295	Hydrowave	P9744-ND	8.25	7.10	6.11	FBA09A12H1A	CR220-ND	.68
	12	7-13.8	2.70	56.8	3.98	35.0	295	Hydrowave	P11040-ND	8.25	7.10	6.11	FBA09A12H1AZ	CR220-ND	.68
	12	7-13.8	2.70	56.8	3.98	35.0	295	Hydrowave	P11041-ND	8.50	7.31	6.29	FBA09A12H1BO	CR220-ND	.68
	12	7-13.8	2.70	56.8	3.98	35.0	295	Hydrowave	P11042-ND	8.75	7.53	6.48	FBA09A12H1BX	CR220-ND	.68
	12	7-13.8	1.80	48.0	3.00	30.0	295	Hydrowave	P9743-ND	8.25	7.10	6.11	FBA09A12M1A	CR220-ND	.68
2x25.5	12	7-13.8	1.32	42.7	2.30	27.0	295	Hydrowave	P9742-ND	8.25	7.10	6.11	FBA09A12L1A	CR220-ND	.68
	12	7-13.8	1.32	42.7	2.30	27.0	295	Hydrowave	P11043-ND	8.75	7.53	6.48	FBA09A12L1BX	CR220-ND	.68
	24	12-27.6	7.2	68.8	4.6	47.0	295	Hydrowave	P11096-ND	8.50	7.31	6.29	FBA09A24U1BX	CR220-ND	.68
	24	14-27.6	3.36	56.8	3.98	35.0	295	Hydrowave	P9747-ND	8.25	7.10	6.11	FBA09A24H1A	CR220-ND	.68
	24	14-27.6	3.36	56.8	3.98	35.0	295	Hydrowave	P11045-ND	8.25	7.10	6.11	FBA09A24H1AZ	CR220-ND	.68
	24	14-27.6	3.36	56.8	3.98	35.0	295	Hydrowave	P11046-ND	8.50	7.31	6.29	FBA09A24H1BS	CR220-ND	.68
	24	14-27.6	3.36	56.8	3.98	35.0	295	Hydrowave	P11047-ND	8.75	7.53	6.48	FBA09A24H1BX	CR220-ND	.68
	24	14-27.6	2.64	48.0	3.00	30.0	295	Hydrowave	P9746-ND	8.25	7.10	6.11	FBA09A24M1A	CR220-ND	.68
	24	14-27.6	1.92	42.7	2.30	27.0	295	Hydrowave	P9745-ND	8.25	7.10	6.11	FBA09A24L1A	CR220-ND	.68
2x38	12	7.0-13.2	4.08	68.5	.29	44.0	300	Ball	P12849-ND **NEW!**	20.38	17.53	15.08	3615KL04WB40P00	CR220-ND	.68
	24	12.0-25.2	5.76	76.2	.36	46.5	300	Ball	P12850-ND **NEW!**	20.38	17.53	15.08	3615KL05WB50P00	CR220-ND	.68
	12	6-13.0	6.60	114.8	5.15	41.5	300	Ball	P12851-ND **NEW!**	17.50	15.05	12.95	4710KL04WB50P00	CR210-ND	1.79
19x25	24	10-27.6	1.92	63.6	1.83	27.0	300	Ball	P12852-ND **NEW!**	17.50	15.05	12.95	4710KL05WB10P00	CR210-ND	1.79
	24	10-26	6.96	114.8	5.15	41.5	300	Ball	P12853-ND **NEW!**	17.50	15.05	12.95	4710KL05WB50P00	CR210-ND	1.79
	12	6.0-13.8	1.92	56.1	.09	29.0	300	Ball	P12854-ND **NEW!**	21.38	18.39	15.82	4712KL04WB10P00	CR210-ND	1.79
19x32	12	6.0-13.8	8.28	112.0	.33	47.0	300	Ball	P12855-ND **NEW!**	21.38	18.39	15.82	4712KL04WB50P00	CR210-ND	1.79
	24	12.0-27.6	8.16	112.0	.33	47.0	300	Ball	P12856-ND **NEW!**	21.38	18.39	15.82	4724KL05WB40P00	CR210-ND	1.79
	12	6.0-13.8	6.60	108.0	.27	42.5	300	Ball	P12857-ND **NEW!**	19.00	16.34	14.06	4715KL04WB30P00	CR210-ND	1.79
	12	6.0-13.8	8.40	118.0	.33	46.5	300	Ball	P12858-ND **NEW!**	19.00	16.34	14.06	4715KL04WB40P00	CR210-ND	1.79
	12	8.0-13.2	17.50	162.0	.69	56.5	300	Ball	P12862-ND **NEW!**	57.50	49.45	42.55	4715SL04WB50D00	CR210-ND	1.79
19x38	24	10.0-27.6	7.44	108.0	.27	42.5	300	Ball	P12859-ND **NEW!**	19.00	16.34	14.06	4715KL05WB30P00	CR210-ND	1.79
	24	10.0-27.6	8.40	118.0	.33	46.5	300	Ball	P12860-ND **NEW!**	19.00	16.34	14.06	4715KL05WB40P00	CR210-ND	1.79
	24	15.0-27.6	17.80	162.0	.69	56.5	300	Ball	P12863-ND **NEW!**	57.50	49.45	42.55	4715SL05WB50D00	CR210-ND	1.79
	48	25.0-55.2	7.68	108.0	.27	42.5	300	Ball	P12861-ND **NEW!**	19.00	16.34	14.06	4715KL07WB30P00	CR210-ND	1.79
	12	7-13.8	7.80	114.7	8.0	45.5	280	Hydrowave	P9761-ND	18.13	15.59	13.42	FBA12G12U1A	CR210-ND	1.79
	12	7-13.8	5.52	103.8	6.80	41.5	280	Hydrowave	P9750-ND	18.13	15.59	13.42	FBA12G12H1A	CR210-ND	1.79
	12	7-13.8	5.52	103.8	6.80	41.5	280	Hydrowave	P11048-ND	18.13	15.59	13.42	FBA12G12H1AZ	CR210-ND	1.79
	12	7-13.8	5.52	103.8	6.80	41.5	280	Hydrowave	P11049-ND	18.38	15.81	13.60	FBA12G12H1BS	CR210-ND	1.79
	12	7-13.8	5.52	103.8	6.80	41.5	280	Hydrowave	P11050-ND	18.63	16.02	13.79	FBA12G12H1BX	CR210-ND	1.79
20x38	12	7-13.8	4.08	86.5	4.80	35.5	280	Hydrowave	P9749-ND	18.13	15.59	13.42	FBA12G12M1A	CR210-ND	1.79
	12	7-13.8	2.16	68.9	3.30	30.0	280	Hydrowave	P9748-ND	18.13	15.59	13.42	FBA12G12L1A	CR210-ND	1.79
	12	14-27.6	5.52	103.8	6.80	41.5	280	Hydrowave	P9753-ND	18.13	15.59	13.42	FBA12G24H1A	CR210-ND	1.79
	12	14-27.6	5.52	103.8	6.80	41.5	280	Hydrowave	P11080-ND	18.63	16.02	13.79	FBA12G24H1BX	CR210-ND	1.79
	12	14-27.6	3.84	86.5	4.80	35.5	280	Hydrowave	P9752-ND	18.13	15.59	13.42	FBA12G24M1A	CR210-ND	1.79
	12	14-27.6	2.64	68.9	3.30	30.0	280	Hydrowave	P9751-ND	18.13	15.59	13.42	FBA12G24L1A	CR210-ND	1.79
	12	6.0-18.0	17.28	240	.62	58.0	300	Ball	P12868-ND **NEW!**	72.50	62.35	53.65	6820PL04WB40D00	CR196-ND	3.06
72x50	24	12.0-30.0	15.84	240	.62	58.0	300	Ball	P12869-ND **NEW!**	72.50	62.35	53.65	6820PL05WB40D00	CR196-ND	3.06
	48	25.0-60.0	15.84	240	.62	58.0	300	Ball	P12870-ND **NEW!**	72.50	62.35	53.65	6820PL07WB40D00	CR196-ND	3.06
	12	6.0-18.0	24.7	250	.65	62.5	400	Ball	P12864-ND **NEW!**	75.63	65.04	55.97	5910PL04WB50L00	CR191-ND	2.28
x172x25	24	12.0-30.0	24.0	250.0	.65	62.5	400	Ball	P12865-ND **NEW!**	75.63	65.04	55.97	5910PL05WB50L00	CR191-ND	2.28
	12	6.0-18.0	17.28	240	.62	58.0	300	Ball	P12866-ND **NEW!**	72.50	62.35	53.65	5920PL04WB40D00	CR191-ND	2.28
x172x50	24	12.0-30.0	15.84	240	.62	58.0	300	Ball	P12867-ND **NEW!**	72.50	62.35	53.65	5920PL05WB40D00	CR191-ND	2.28

facturer Part Number Ending Code:
Solid Corner Housing **BS** - Locked Rotor Alarm Sensor **BX** - 2 PPR Speed Sensor (TAC Output) **BO** - Locked Rotor Alarm Sensor and Solid Corner Housing **CX** - Thermal Sensor **S** - Locked Rotor Alarm Sensor

C Blowers

NMB-MAT DC Blowers are most suitable for cooling in high back pressure applications. Since the fan impeller is housed inside a rugged plastic enclosure, the blower is not affected by high back pressure caused by objects in close proximity to the exhaust port. Sensor third wire options available on most models.

Specifications: • Operating Temperature: -10°C ~ 60°C • Storage Temperature: -40°C ~ 75°C • Blowers with Hydro-Wave and Ball BearingTechnology



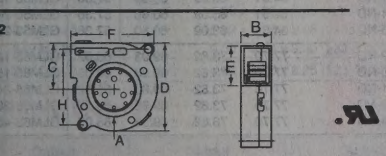


Fig	Operating Volt. (VDC) Nom.	Range	Input Current (mA)	Power (W)	Air Flow CFM	Static Pressure In H2O	Noise	Digi-Key Part No.	Price Each 1	5	10	Panasonic Part No.
1	12	7-13.8	500	6.00	22.97	0.71	45	P9754-ND	30.00	25.80	22.20	FAL6F12LH
	12	7-13.8	280	3.36	18.73	0.44	40	P9755-ND	30.00	25.80	22.20	FAL6F12LL
	24	14-27.6	295	7.08	23.7	0.78	45	P9763-ND	30.00	25.80	22.20	FAL6F24LH
	24	14-27.6	155	3.72	18.7	0.45	40	P9764-ND	30.00	25.80	22.20	FAL6F24LL
1	12	7-13.8	210	2.52	10.60	0.41	35	P9756-ND	27.50	23.65	20.35	FAL5F12LH
	12	7-13.8	145	1.74	8.83	0.24	29	P9757-ND	27.50	23.65	20.35	FAL5F12LL
	24	14-27.6	150	3.50	9.18	0.28	40	P9765-ND	27.50	23.65	20.35	FAL5F24LH
	24	14-27.6	100	2.40	7.06	0.16	37.5	P9766-ND	27.50	23.65	20.35	FAL5F24LL
1	5	4.5-6	320	1.60	3.17	0.24	34	P9772-ND	21.25	18.28	15.73	FAL3F05LL
	5	4.5-6	570	2.85	4.24	0.39	40	P9773-ND	21.25	18.28	15.73	FAL3F05LH
	12	7-13.8	170	2.04	3.17	0.24	34	P9774-ND	21.25	18.28	15.73	FAL3F12LL
	12	7-13.8	270	3.24	4.24	0.39	40	P9775-ND	21.25	18.28	15.73	FAL3F12LH
	24	14-27.6	150	3.60	4.24	0.39	40	P9776-ND	21.25	18.28	15.73	FAL3F24LH
2	12	10.2-13.8	120	1.44	3.5	0.48	35	P12901-ND **NEW!**	12.50	10.75	9.25	BM511504WB40L00
2	12	10.2-13.8	130	1.56	5.3	.34	34	P12902-ND **NEW!**	12.50	10.75	9.25	BM512504WB40L00
	12	10.2-13.8	240	2.88	6.7	.64	41	P12903-ND **NEW!**	12.50	10.75	9.25	BM512504WB50L00
2	12	6-13.8	190	2.28	8.47	.50	41	P12904-ND **NEW!**	14.38	12.37	10.64	BG0702B044000T0
	24	10-27.6	140	3.36	9.50	.61	43	P12905-ND **NEW!**	14.38	12.37	10.64	BG0702B05500000
2	12	6-13.0	290	3.48	10.6	11.22	38.5	P12906-ND **NEW!**	14.38	12.37	10.64	BG0703B04400000
	24	10-26.0	150	3.60	10.6	11.22	38.5	P12907-ND **NEW!**	14.38	12.37	10.64	BG0703B05400000
2	12	8-12.8	1030	12.40	28.6	1.4	54.5	P12908-ND **NEW!**	19.88	17.10	14.71	BG0903B04400000
	24	10-25.0	490	11.80	28.6	1.4	54.5	P12909-ND **NEW!**	19.88	17.10	14.71	BG0903B05400000
1	12	6-13.8	650	7.80	28.2	.70	52	P12910-ND **NEW!**	22.00	18.92	16.28	BG1203B04400000
	24	12-25.2	480	11.52	33.2	1.04	55	P12911-ND **NEW!**	22.00	18.92	16.28	BG1203B05500000

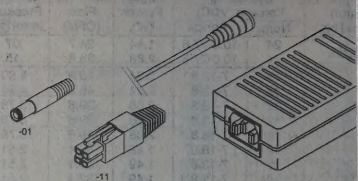
	Dimensions (mm)								
	A	B	C	D	E	F	G	H	I
5F	65.8	28.1	55.7	111.4	60.7	107.1	76	99	97
5F	50	28	37	76	41	76	47	68	68
3F	33.2	20	26.8	50	26.8	50	29.6	43	43
115	32	15	27	51	20	51	—	43	—
125	32	25	27	51	20	51	—	43	—
702	—	25	39.9	75.7	39.9	75.7	—	67.1	—
703	—	30	39.9	75.7	39.9	75.7	—	67.1	—
003	—	33	58	93.5	53	97	—	71	—
203	—	32	55	120	61	120	—	105	—

CONDOR

Medical Single Output – GXM60 Series

Features:
• Universal Input • Medically approved to UL2601-1, CSA 22.2 No. 601.1-M90, EN60601-1, and CB certified to IEC601-1 • 2 year warranty

Specifications:
AC Input: 90-264VAC, 47-63Hz single phase. Input power is less than 75W when output power is less than 60W, 230VAC in. Meets EN61000-3-2 harmonics standard.
Minimum Load: No minimum load required.
EMI / EMC Compliance: All models include built-in EMI filtering. • **Conducted Emissions:** EN55011, Class B; FCC Class B • **Static Discharge:** EN61000-4-2, 6kV contact 8kV air • **RF Field Susceptibility:** EN61000-4-3, 3V/meter • **Fast Transients / Bursts:** EN61000-4-4, 2kV, 5kHz • **Surge Susceptibility:** EN61000-4-5, 1kV diff., 2kV com • **Conducted RF Susceptibility:** EN61000-4-6, 3V • **Voltage Sags & Surges:** EN61000-4-11
Medical Safety Agency: All models are approved to UL2601, CSA 22.2 No. 601.1-M90, IEC 601-1 (1988), EN 60601-1
Note: Ships without the power cord (Suggested Cord: Q132-ND).

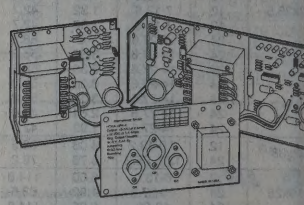


Total Power Watts	Output 1	Dimensions L x W x H Inch (mm)	Output Plug	Digi-Key Part No.	1	10	25	50	Condor Part No.
60	5V @ 11A 12V @ 5.0A 15V @ 4.0A 24V @ 2.5A 28V @ 2.2A 36V @ 1.7A	5.34 x 3.05 x 1.8 (135.64 x 77.47 x 45.72)	Molex Mini-Fit 2.1 mm Barrel 2.1 mm Barrel 2.1 mm Barrel 2.1 mm Barrel 2.1 mm Barrel	271-2221-ND 271-2222-ND 271-2223-ND 271-2224-ND 271-2225-ND 271-2226-ND	105.00 105.00 105.00 105.00 105.00 105.00	99.75 99.75 99.75 99.75 99.75 99.75	94.50 94.50 94.50 94.50 94.50 94.50	89.25 89.25 89.25 89.25 89.25 89.25	GXM60-5A11 GXM60-12A01 GXM60-15A01 GXM60-24A01 GXM60-28A01 GXM60-36A01

Medical Global Switchers

FEATURES:
• Wide range input (85-264V) • Approval to IEC601-1, UL2601 and CSA 601.1 • Conducted Emissions to FCC and VDC Class B • 2-Year Warranty • Models from 28-225W **Input Protection:** Internal AC fuse provided on all units. This fuse only blows if a catastrophic failure occurs in the unit — it does not blow on overload or short circuit. AC input protected against line transients by metal oxide varistors on all medical units. **Output Noise and Ripple:** 0.5% RMS, 1% Pk-Pk maximum on all outputs (20MHz bandwidth on GSM7 & GSM28 series. **Temperature Coefficient:** 0.03%/°C typical for all outputs.

GENERAL SPECIFICATIONS:
• **AC Input:** 85-264VAC, 47-63Hz single phase • **Safety Specifications:** All medical models are approved to UL544/UL2601, IEC601-1, CSA234L3, VDE0750 and CE9LVD • **Overload Protection:** Fully protected against short circuit and output overload. Short circuit protection is cycling type on Outputs #1 and#2; foldback type on Outputs #3 and #4. Recovery after fault is automatic. • **Temperature Rating:** 0°C to 50°C full rated load • **Minimum Load:** Single output units require no minimum load except for GSM28 (GSM28 = ±5%). Multiple output units: GPM40 = 0.4A, GPM55 = 0.7A, GPM80 = 1A. • **EMI Compliance:** All models include EMI filtering to meet or exceed conducted emissions of CISPR 11 Class B, VDE0871 Class B (FCC Class B, CISPR 11 Class B and EN5522 Class B for GSM7 & GSM28 Series) • **Voltage Adjustment:** Outputs adjustable ±5% minimum via built-in potentiometer (Factory set for GSM7 & GSM28 Series) • **Remote Sense:** Provided as a standard feature on the +5V output of the GPM130 and on all single output units, GLD150, GLM65, GPFM250 single and primary output GPM130 • **Reverse Voltage Protection:** All outputs protected against inadvertent application of reverse voltage up to 1 times the rated current of the reversed output



Single Output Medical

Total Power Watts	Output 1	Min. Load	Dimensions Inch (mm) L x W x H	Mating Connectors: Housing Input	Housing Output	Contacts	Signal Housing	Signal Contacts	Digi-Key Part No.	1	10	25	50	Condor Part No.
						GSM Series								
7	5.0V @ 1.4A 12V @ .58A 15V @ .47A 24V @ .29A 28V @ .25A	— — — — —	2.00 x 2.28 x .50 (50.80 x 57.91 x 12.70)	—	—	—	—	—	271-1100-ND 271-1101-ND 271-1102-ND 271-1103-ND 271-1104-ND	30.68 30.68 30.68 30.68 30.68	29.15 29.15 29.15 29.15 29.15	27.62 27.62 27.62 27.62 27.62	26.08 26.08 26.08 26.08 26.08	GSM7-5 GSM7-12 GSM7-15 GSM7-24 GSM7-28
Connector Kit for GSM7 Series									271-1135-ND	8.74	—	—	—	18-30234-
28	5.1V @ 5.5A 12V @ 2.3A 24V @ 1.2A	±5% ±5% ±5%	2.59 x 4.00 x .92 (65.79 x 101.60 x 23.37)	WM2125	WM2124	WM17403	—	—	271-1121-ND 271-1122-ND 271-1123-ND	54.60 54.60 54.60	51.87 51.87 51.87	49.14 49.14 49.14	46.41 46.41 46.41	GSM28-5 GSM28-12 GSM28-24
Chassis and Cover for GSM28 Series, 4.31" x 3.10" x 1.53" (109.47mm x 78.74mm x 38.86mm)									271-1128-ND	13.10	—	—	—	08-30466-0
						GPM41 Series								
41	5.1V @ 6.0A 12V @ 3.3A 24V @ 1.7A	0.15 0.03 0.01	4.00 x 2.00 x 1.50 (101.60 x 50.80 x 38.10)	A19950	A19952	A19993CT	—	—	271-2227-ND 271-2228-ND 271-2229-ND	63.00 63.00 63.00	59.85 59.85 59.85	56.70 56.70 56.70	53.55 53.55 53.55	GPM41-5 GPM41-12 GPM41-24
						GPM Series								
40	12V @ 3.3A 15V @ 2.7A 24V @ 1.7A (2.1pk) 28V @ 1.4A (2.1pk) +5V @ 8.0A	— — — — —	3.00 x 5.00 x 1.28 (76.20 x 127.00 x 32.51)	WM2123	WM2104	WM17403	—	—	271-1019-ND 271-1020-ND 271-1021-ND 271-1022-ND 271-1023-ND	78.62 78.62 78.62 78.62 78.62	74.69 74.69 74.69 74.69 74.69	70.76 70.76 70.76 70.76 70.76	66.82 66.82 66.82 66.82 66.82	GPM40-12 GPM40-15 GPM40-24 GPM40-28 GPM40-5
80/110*	12V @ 6.7A 24V @ 3.4A	— —	7.00 x 4.25 x 1.86 (177.80 x 107.95 x 47.24)	WM2103	WM2105	WM17403	—	—	271-1027-ND 271-1029-ND	144.14 144.14	136.93 136.93	129.73 129.73	122.52 122.52	GPM80-12 GPM80-24
						GLM Series								
50	3.3V @ 8A 5.1V @ 8A 12V @ 4.2A 15V @ 3.3A 24V @ 2.1A 28V @ 1.8A	— — — — — —	4.25 x 2.50 x 1.25 (107.95 x 63.50 x 31.75)	A19951	A19954	A19990	—	—	271-2196-ND 271-2198-ND 271-2192-ND 271-2193-ND 271-2194-ND 271-2195-ND	64.61 64.61 64.61 64.61 64.61 64.61	63.09 63.09 63.09 63.09 63.09 63.09	60.80 60.80 60.80 60.80 60.80 60.80	57.36 57.36 57.36 57.36 57.36 57.36	GLM50-3.3 GLM50-5 GLM50-12 GLM50-15 GLM50-24 GLM50-28
65	12V @ 5.5A 15V @ 4.3A 24V @ 2.7A 28V @ 2.3A 48V @ 1.35A	— — — — —	5.00 x 3.00 x 1.00 (127.00 x 76.20 x 25.40)	A19951	A19954	A19990	—	—	271-2159-ND 271-2160-ND 271-2161-ND 271-2162-ND 271-2164-ND	77.70 77.70 77.70 77.70 77.70	73.82 73.82 73.82 73.82 73.82	69.93 69.93 69.93 69.93 69.93	65.52 66.05 65.52 65.52 66.05	GLM65-12 GLM65-15 GLM65-24 GLM65-28 GLM65-48
						GPFM Series								
115	5.1V @ 12A 12V @ 6.7A 15V @ 5.3A 24V @ 3.3A 28V @ 2.9A 48V @ 1.7A	— — — — — —	5.25 x 3.30 x 1.50 (133.35 x 83.82 x 38.10)	A19953	A19956	A19990	A19492	A19520	271-2158-ND 271-2153-ND 271-2154-ND 271-2155-ND 271-2156-ND 271-2157-ND	115.61 115.61 115.61 115.61 115.61 115.61	109.82 109.82 109.82 109.82 109.82 109.82	104.06 104.06 104.06 104.06 104.06 104.06	87.60 87.60 87.60 87.60 87.60 87.60	GPFM115-5 GPFM115-1 GPFM115-1 GPFM115-2 GPFM115-2 GPFM115-4
250	12V @ 21A 15V @ 17A	— —	8.00 x 5.00 x 1.75 (203.20 x 127.00 x 44.45)	A19953	A19956	A19990	—	—	271-2147-ND 271-2148-ND	285.66 285.66	271.38 271.38	257.11 257.11	242.82 242.82	GPFM250-1 GPFM250-1

* 26cfm moving air required. † Convection/Air Flow

(Contin

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ngle Output Medical (Cont.)

tal wer tts	Output 1	Min. Load	Dimensions Inch (mm) L x W x H	Mating Connectors: Housing Input	Housing Output	Contacts	Signal Housing	Signal Contacts	Digi-Key Part No.	Price Each 1	10	25	50	Condor Part No.
						***GPFM Series** (Cont.)*								
50	24V @ 11A 28V @ 9.5A 48V @ 5.2/6.1A†	— — —	8.00 x 5.00 x 1.75 (203.20 x 127.00 x 44.45)	A19953	A19956	A19990	—	—	271-2149-ND 271-2150-ND 271-2151-ND	285.66 285.66 285.66	271.38 271.38 271.38	257.11 257.11 257.11	242.82 242.82 242.82	GPFM250-24 GPFM250-28 GPFM250-48
over with Fan for GPFM250 Series, 8.00" x 5.00" x 1.81" (203.20mm x 127.00m x 45.97mm)									271-1138-ND	18.46	—	—	—	09-250CF
						GLD Series								
50	12V @ 10.8A 15V @ 8.7A 24V @ 5.7A	— — —	7.00 x 4.50 x 1.70 (177.80 x 114.30 x 43.18)	WM18436	WM3703	WM5959	A19494	A19490	271-2172-ND 271-2173-ND 271-2174-ND	221.49 221.49 221.49	210.41 210.41 210.41	199.35 199.35 199.35	188.28 188.28 188.28	GLD150-12 GLD150-15 GLD150-24

iple Output Medical

tal wer tts	Output 1	Output 2	Output 3	Dimensions Inch (mm) L x W x H	Mating Connectors: Housing Input	Housing Output	Contacts	Digi-Key Part No.	Price Each 1	10	25	50	Condor Part No.
					GPM Series								
40	+5V @ 4.0A +5V @ 4.0A	+12V @ 2.0A (3pk) +15V @ 2.0A (3pk)	-12V @ 0.4A -15V @ 0.4A	3.00 x 5.00 x 1.28 (76.20 x 127.00 x 32.51)	WM2123	WM2104	WM17403	271-1039-ND 271-1040-ND	78.62 78.62	74.69 74.69	70.76 70.76	66.82 66.82	GPM40A GPM40B
					GLM50 Series								
50	+5.05V @ 4A +5.1V @ 4A +5.1V @ 4A	+12V @ 2.5A +15V @ 2.5A +24V @ 1.5A	-12V @ 0.2A -15V @ 0.2A -12V @ 0.2A	4.25 x 2.50 x 1.25 (107.95 x 63.50 x 31.75)	A19951	A19954	A19990	271-2199-ND 271-2200-ND 271-2201-ND	64.61 64.61 64.61	63.09 63.09 63.09	60.80 60.80 60.80	57.36 57.36 57.36	GLM50A GLM50B GLM50D

uad Output Medical

tal wer tts	Output 1	Output 2	Output 3	Output 4	Dimensions Inch (mm) L x W x H	Mating Connectors: Housing Input	Housing Output	Contacts	Digi-Key Part No.	Price Each 1	10	25	50	Condor Part No.
						GPM Series								
55	+5V @ 6.0A	+12V @ 3.0A (5pk)	+12V @ 1.0A	-12V @ 1.0A	6.30 x 3.94 x 1.68 (160.02 x 100.08 x 42.67)	WM17401	WM17402	WM17403	271-1041-ND	104.83	99.58	94.34	89.10	GPM55A
55	+5V @ 6.0A	+12V @ 3.0A (5pk)	-12V @ 1.0A	-5V @ 1.0A					271-1042-ND	104.83	99.58	94.34	89.10	GPM55B
55	+5V @ 6.0A	+15V @ 3.0A (5pk)	-15V @ 1.0A	-5V @ 1.0A					271-1043-ND	104.83	99.58	94.34	89.10	GPM55C
55	+5V @ 6.0A	+24V @ 1.5A (2pk)	+12V @ 1.0A	-12V @ 1.0A					271-1044-ND	104.83	99.58	94.34	89.10	GPM55D
55	+5V @ 6.0A	+24V @ 1.5A (2pk)	+15V @ 1.0A	-15V @ 1.0A					271-1045-ND	104.83	99.58	94.34	89.10	GPM55E
110*	+5V @ 12.0A	+12V @ 3.0A (5pk)	-12V @ 1.0A	+12V @ 1.0A	7.00 x 4.25 x 1.86 (177.80 x 107.95 x 47.24)	WM2103	WM1910	WM17403	271-1046-ND	144.14	136.93	129.73	122.52	GPM80A
110*	+5V @ 12.0A	+12V @ 3.0A (5pk)	-15V @ 1.0A	+15V @ 1.0A					271-1048-ND	144.14	136.93	129.73	122.52	GPM80C
110*	+5V @ 12.0A	+24V @ 2.0A (4pk)	-15V @ 1.0A	+15V @ 1.0A					271-1050-ND	144.14	136.93	129.73	122.52	GPM80E
110*	+5V @ 12.0A	+24V @ 3.5A (4.5pk)	-12V @ 1.0A	+12V @ 2.0A					271-1051-ND	144.14	136.93	129.73	122.52	GPM80P

cfm moving air required. † Convection/Air Flow

near Medical Power Supplies

orld Class Medical Linears

TURES: • 19 Models (single, dual and triple output) • Approved to UL 544, IEC 601 and CSA 234 L3 • 3 power levels (5 to 92 watts) • Medical leakage current does not exceed 10µA • 8-Hour burn-in with cycling
3-year warranty
d Wide AC Input Ranges: • AC Input: 110/120/220/240VAC, 47-63Hz • OVP on all 5V outputs • Meets EMI per FCC/VDE B
stry Standard Packaging: • Hermetically sealed power transistors and ICs • MTFB 200,000+ hours per mil handbook 217D

ngle Output

Output	Dimensions Inch (mm)	Digi-Key Part No.	Price Each 1	10	25	50	Condor Part No.
5V@1.0A	4.25 x 3.25 x 1.80 (107.95 x 82.55 x 45.72)	271-1018-ND	44.72	43.38	42.49	42.27	ML5-1-OV-A
5V@3.0A	4.88 x 4.00 x 2.25 (123.95 x 101.60 x 57.15)	271-1006-ND	53.89	52.27	51.20	48.50	MB5-3-OV-A
5V@6.0A	5.63 x 4.86 x 2.95 (143.00 x 123.44 x 74.93)	271-1012-ND	68.80	66.74	65.36	61.93	MC5-6-OV-A
12V@1.7A	4.88 x 4.00 x 2.25 (123.95 x 101.60 x 57.15)	271-1002-ND	53.89	52.27	51.20	48.50	MB12-1.7-A
12V@3.4A	5.63 x 4.86 x 2.95 (143.00 x 123.44 x 74.93)	271-1009-ND	68.80	66.74	65.36	61.93	MC12-3.4-A
15V@0.4A	4.25 x 3.25 x 1.80 (107.95 x 82.55 x 45.72)	271-1017-ND	44.72	43.38	42.49	42.27	ML15-0.4-A
15V@1.5A	4.86 x 4.00 x 2.25 (123.44 x 101.60 x 57.15)	271-1003-ND	53.89	52.27	51.20	48.50	MB15-1.5-A
24V@1.2A	4.86 x 4.00 x 2.25 (123.44 x 101.60 x 57.15)	271-1004-ND	53.89	52.27	51.20	48.50	MB24-1.2-A
24V@2.4A	5.63 x 4.86 x 2.95 (143.00 x 123.44 x 74.93)	271-1011-ND	68.80	66.74	65.36	61.93	MC24-2.4-A
24V@4.8A	9.00 x 4.86 x 3.30 (228.60 x 123.44 x 83.82)	271-1015-ND	106.64	103.44	101.31	95.97	MD24-4.8-A
28V@1.0A	4.86 x 4.00 x 2.25 (123.44 x 101.60 x 57.15)	271-1005-ND	53.89	52.27	51.20	48.50	MB28-1-A

ltiple Output

Output 1	Output 2	Output 3	Dimensions Inch (mm)	Digi-Key Part No.	Price Each 1	10	25	50	Condor Part No.
			Dual Output						
12/15V@1.0/0.8A	–12/15V@1.0/0.8A	—	6.50 x 4.00 x 2.25 (165.10 x 101.60 x 57.15)	271-1000-ND	60.78	58.95	57.73	54.63	MAA15-0.8-A
12/15V@1.7/1.5A	–12/15V@1.7/1.5A	—	7.00 x 4.88 x 2.95 (177.80 x 123.95 x 74.93)	271-1008-ND	77.98	75.64	74.07	70.18	MBB15-1.5-A
12/15V@3.4/3.0A	–12/15V@3.4/3.0A	—	9.38 x 4.88 x 3.30 (238.25 x 123.95 x 83.82)	271-1014-ND	116.95	113.46	111.13	105.26	MCC15-3-A
			Triple Output						
+5V@3.0A	+12/15V@1.0/0.8A	–12/15V@1.0/0.8A	10.25 x 4.00 x 2.95 (260.35 x 101.60 x 74.93)	271-1007-ND	100.91	97.87	95.87	90.82	MBAA40W-A

CONDOR Linear Power Supplies

Burn-in with cycling; 3-year mfg. warranty.

FEATURES:

• Worldwide AC input ranges and safety standards • Industry standard packages • UL/CSA TUV/IEC approved - 68 models to UL1950; CSA C22.2 No.234 L3; TUV certified to IEC950 • Capacitors have highest CV & ripple current ratings • MTBF 200,000+ hours per Mil Handbk 217D (most units) • All electrolytic caps rated at 105°C • Transformer insulation meets Class F (155°C) • Exceed FCC and CISPR22 Class B conducted emissions • CE marked to LVD

GENERAL SPECIFICATIONS:

• **AC Input:** 100/120/240VAC: +10%, -13%; 215VAC: +12%, -11%; 47 ~ 63Hz. Tolerance for 230VAC operation is +15%, -10%. Derate output current 10% for 50Hz operation • **DC Output:** Adjustment range ±5% minimum except HA series • **Line Regulation:** ±0.05% for a 10% change • **Load Regulation:** ±0.05% for a 50% load change • **Output Ripple:** 3mV +0.05% of output voltage, peak to peak maximum. All "3-terminal regulator" outputs: 3mV +0.2% peak to peak maximum

• **Transient Response:** <50 microseconds for 50% change • **Short Circuit Protection:** Automatic current limit/foldback • **Overvoltage Protection:** Built-in on models, set at 6.2V ±0.4V. Other models use optional voltage protection • **Stability:** ±0.05% for 24 hours warmup • **Temperature Rating:** 0°C ~ 50°C full rated derated linearly to 40% at 70°C • **Temperature Coefficient:** ±0.01%/°C maximum • **Logic Inhibit/Current-Share:** F Models

International+ Series Single Output

Output	Dimensions Inch (mm)	Weight lbs. (kilograms)	Digi-Key Part No.	Price Each 1	10	25	50	100	Condor Part No.
5V@1.5A	4.87 x 4.00 x 2.10 (123.70 x 101.60 x 53.34)	2.2 (1)	271-2007-ND	36.46	33.30	32.66	31.05	29.46	HA5-1.5-OV-A+
5V@3A	4.87 x 4.00 x 2.10 (123.70 x 101.60 x 53.34)	2.2 (1)	271-2019-ND	38.89	37.73	36.98	35.14	33.40	HB5-3-OV-A+
5V@6A	5.62 x 4.87 x 2.95 (142.75 x 123.70 x 74.93)	4.25 (1.93)	271-2029-ND	62.97	61.11	58.77	55.70	52.58	HC5-6-OV-A+
5V@9A	7.00 x 4.87 x 3.20 (177.80 x 123.70 x 81.28)	6 (2.72)	271-2052-ND	85.90	83.35	80.55	76.32	72.08	HN5-9-OV-A+
5V@12A	9. 00 x 4.87 x 3.28 (228.60 x 123.70 x 83.31)	7.5 (3.40)	271-2039-ND	96.27	93.39	91.46	86.65	81.82	HD5-12-OV-A+
5V@18A	14.00 x 4.87 x 3.53 (355.60 x 123.70 x 89.66)	10 (4.54)	271-2047-ND*	142.44	138.34	135.61	127.75	120.10	HE5-18-OV-A+
12V@1.7A	4.87 x 4.00 x 2.10 (123.70 x 101.60 x 53.34)	2.2 (1)	271-2014-ND	38.89	37.73	36.98	35.14	33.40	HB12-1.7-A+
12V@3.4A	5.62 x 4.87 x 2.95 (142.75 x 123.70 x 74.93)	4.25 (1.93)	271-2025-ND	57.24	55.53	53.32	50.53	47.72	HC12-3.4-A+
12V@5.1A	7.00 x 4.87 x 3.20 (177.80 x 123.70 x 81.28)	6 (2.72)	271-2048-ND	80.17	77.80	75.11	71.16	67.20	HN12-5.1-A+
12V@6.8A	9.00 x 4.87 x 3.28 (228.60 x 123.70 x 83.31)	7.5 (3.40)	271-2034-ND	91.64	88.92	86.00	82.60	76.96	HD12-6.8-A+
12V@10.2A	14.00 x 4.87 x 3.53 (355.60 x 123.70 x 89.66)	10 (4.54)	271-2043-ND*	125.46	121.73	119.24	113.03	105.70	HE12-10.2-A+
15V@0.9A	4.87 x 4.00 x 2.10 (123.70 x 101.60 x 53.34)	2.2 (1)	271-2005-ND	34.48	33.30	32.66	31.05	29.46	HA15-0.9-A+
15V@3A	5.62 x 4.87 x 2.95 (142.75 x 123.70 x 74.93)	4.25 (1.93)	271-2026-ND	57.24	55.53	53.32	50.53	47.72	HC15-3-A+
15V@4.5A	7.00 x 4.87 x 3.20 (177.80 x 123.70 x 81.28)	6 (2.72)	271-2049-ND	80.17	77.80	75.11	71.16	67.20	HN15-4.5-A+
15V@6A	9.00 x 4.87 x 3.28 (228.60 x 123.70 x 83.31)	7.5 (3.40)	271-2035-ND	91.64	88.92	86.00	82.60	76.96	HD15-6-A+
15V@9A	14.00 x 4.87 x 3.53 (355.60 x 123.70 x 89.66)	10 (4.54)	271-2044-ND*	125.46	121.73	119.24	113.03	105.70	HE15-9-A+
15V@15A	16.75 x 4.88 x 5.00 (425.45 x 123.95 x 127.00)	19 (8.62)	271-2054-ND*	194.21	188.89	183.24	179.57	168.80	F15-15-A+
24V@0.5A	4.87 x 4.00 x 2.10 (123.70 x 101.60 x 53.34)	2.2 (1)	271-2006-ND	36.46	33.30	32.66	31.05	29.46	HA24-0.5-A+
24V@1.2A	4.87 x 4.00 x 2.10 (123.70 x 101.60 x 53.34)	2.2 (1)	271-2016-ND	38.89	37.73	36.98	35.14	33.40	HB24-1.2-A+
24V@2.4A	5.62 x 4.87 x 2.95 (142.75 x 123.70 x 74.93)	4.25 (1.93)	271-2027-ND	57.24	55.53	53.32	50.53	47.72	HC24-2.4-A+
24V@3.6A	7.00 x 4.87 x 3.20 (177.80 x 123.70 x 81.28)	6 (2.72)	271-2050-ND	80.17	77.80	75.11	71.16	67.20	HN24-3.6-A+
24V@4.8A	9.00 x 4.87 x 3.28 (228.60 x 123.70 x 83.31)	7.5 (3.40)	271-2036-ND	91.64	88.92	86.00	82.60	76.96	HD24-4.8-A+
24V@7.2A	14.00 x 4.87 x 3.53 (355.60 x 123.70 x 89.66)	10 (4.54)	271-2045-ND*	125.46	121.73	119.24	113.03	105.70	HE24-7.2-A+
24V@12A	16.75 x 4.88 x 5.00 (425.45 x 123.95 x 127.00)	19 (8.62)	271-2055-ND*	194.21	188.89	183.24	179.57	168.80	F24-12-A+
28V@1A	4.87 x 4.00 x 2.10 (123.70 x 101.60 x 53.34)	2.2 (1)	271-2017-ND	38.89	37.73	36.98	35.14	33.40	HB28-1-A+
28V@2A	5.62 x 4.87 x 2.95 (142.75 x 123.70 x 74.93)	4.25 (1.93)	271-2028-ND	57.24	55.53	53.32	50.53	47.72	HC28-2-A+
28V@3A	7.00 x 4.87 x 3.20 (177.80 x 123.70 x 81.28)	6 (2.72)	271-2051-ND	80.17	77.80	75.11	71.16	67.20	HN28-3-A+
28V@4A	9.00 x 4.87 x 3.28 (228.60 x 123.70 x 83.31)	7.5 (3.40)	271-2037-ND	91.67	88.92	86.00	82.60	76.96	HD28-4-A+
48V@0.5A	4.87 x 4.00 x 2.10 (123.70 x 101.60 x 53.34)	2.2 (1)	271-2018-ND	44.49	43.16	42.30	39.77	37.80	HB48-0.5-A+
48V@3A	9.00 x 4.87 x 3.28 (228.60 x 123.70 x 83.31)	7.5 (3.40)	271-2038-ND*	96.27	93.39	91.46	86.65	81.82	HD48-3-A+
48V@4A	14.00 x 4.87 x 3.53 (355.60 x 123.70 x 89.66)	10 (4.54)	271-2046-ND*	136.92	132.84	130.13	123.34	115.45	HE48-4-A+
48V@6A	16.75 x 4.88 x 5.00 (425.45 x 123.95 x 127.00)	19 (8.62)	271-2056-ND*	210.08	203.80	197.69	193.74	182.12	F48-6-A+

International+ Series Dual Output

Output 1	Output 2	Dimensions Inch (mm)	Weight lbs. (kilograms)	Digi-Key Part No.	Price Each 1	10	25	50	Condor Part No.
5V@1.5A	5V@1.5A	6.50 x 4.00 x 2.10 (165.10 x 101.60 x 53.34)	2.5 (1.13)	271-2010-ND	57.55	54.45	53.32	50.53	HAA5-1.5-OV-A+
5V@3A	5V@3A	7.00 x 4.87 x 2.95 (177.80 x 123.70 x 74.93)	4.4 (2)	271-2022-ND	78.85	76.64	74.07	71.51	HBB5-3-OV-A+
5V@2A	9V ~ 15V@0.5A	6.50 x 4.00 x 2.10 (165.10 x 101.60 x 53.34)	2.5 (1.13)	271-2011-ND	57.24	54.38	53.32	50.53	HAA512-A+
5V@3A	9V ~ 15V@1.2A	7.00 x 4.87 x 2.95 (177.80 x 123.70 x 74.93)	4.4 (2)	271-2023-ND	68.75	66.68	65.30	61.88	HBB512-A+
5V@6A	9V ~ 15V@2.5A	9.38 x 4.87 x 3.28 (238.25 x 123.70 x 83.31)	7 (3.18)	271-2033-ND*	108.84	105.60	102.34	96.97	HCC512-A+
5V@3A	18V ~ 24V@0.8A	7.00 x 4.87 x 2.95 (177.80 x 123.70 x 74.93)	4.4 (2)	271-2024-ND	69.80	67.75	65.72	62.44	HBB524-A+
12V@0.4A	-12V@0.4A	4.87 x 4.00 x 2.10 (123.70 x 101.60 x 53.34)	2.2 (1)	271-2012-ND	42.56	41.57	39.70	37.64	HAD12-0.4-A+
15V@0.4A	-15V@0.4A	4.87 x 4.00 x 2.10 (123.70 x 101.60 x 53.34)	2.2 (1)	271-2013-ND	42.56	41.57	39.70	37.64	HAD15-0.4-A+
12V ~ 15V@1A/0.8A	-12V ~ -15V@1A/0.8A	6.50 x 4.00 x 2.10 (165.10 x 101.60 x 53.34)	2.5 (1.13)	271-2008-ND	49.25	47.78	46.79	44.32	HAA15-0.8-A+
12V ~ 15V@1.7A/1.5A	-12V ~ -15V@1.7A/1.5A	7.00 x 4.87 x 2.95 (177.80 x 123.70 x 74.93)	4.4 (2)	271-2021-ND	63.01	61.12	59.85	56.71	HBB15-1.5-A+
12V ~ 15V@3.4A/3A	-12V ~ -15V@3.4A/3A	9.38 x 4.87 x 3.28 (238.25 x 123.70 x 83.31)	7 (3.18)	271-2032-ND	100.80	97.80	95.83	89.75	HCC15-3-A+
12V ~ 15V@5A	-12V ~ -15V@5	14.00 x 4.87 x 3.53 (355.60 x 123.70 x 89.66)	10 (4.54)	271-2042-ND*	148.39	143.97	141.12	133.67	HDD15-5-A+
18V ~ 24V@0.4A/0.6A	-18V ~ -24V@0.4A/0.6A	6.50 x 4.00 x 2.10 (165.10 x 101.60 x 53.34)	2.5 (1.13)	271-2009-ND	48.10	46.67	45.70	43.30	HAA24-0.6-A+

International+ Series Triple Output

Output 1	Output 2	Output 3	Dimensions Inch (mm)	Weight lbs. (kilograms)	Digi-Key Part No.	Price Each 1	10	25	50	Condor Part No.
5V@2A	12V ~ 15V@0.4/0.4A	-12V ~ -15V@0.4/0.4A	6.50 x 4.00 x 2.10 (165.10 x 101.60 x 53.34)	2.5 (1.13)	271-2053-ND†	62.97	61.11	58.77	55.60	HTAA-16W-A+
5V@3A	12V ~ 15V@1/0.8A	-12V ~ -15V@1/0.8A	10.25 x 4.00 x 2.95 (260.35 x 101.60 x 74.93)	5 (2.27)	271-2020-ND†	87.05	84.47	81.65	77.36	HBAA40W-A+
5V@6A	12V ~ 15V@1/0.8A	-12V ~ -15V@1/0.8A	9.00 x 4.87 x 3.28 (228.60 x 123.70 x 83.31)	7.5 (3.40)	271-2030-ND†	103.10	100.04	98.00	92.11	HCAA60W-A+
5V@6A	12V ~ 15V@1.7/1.5A	-12V ~ -15V@1.7/1.5A	11.00 x 4.87 x 3.28 (279.40 x 123.70 x 83.31)	8 (3.63)	271-2031-ND†	118.98	115.57	110.95	105.41	HCBB75W-A+
5V@9A	12V ~ 15V@1.7/1.5A	-12V ~ -15V@1.7/1.5A	11.00 x 4.88 x 2.75 (279.40 x 123.95 x 69.85)	12 (5.44)	271-2001-ND†	137.50	133.41	130.68	122.76	CP131-A+
5V@12A	12V ~ 15V@1.7/1.5A	-12V ~ -15V@1.7/1.5A	14.25 x 4.87 x 3.38 (361.95 x 123.70 x 85.85)	11 (4.99)	271-2040-ND†*	154.70	150.09	145.91	138.24	HDBB105W-A+
5V@12A	12V ~ 15V@3.4/3A	-12V ~ -15V@3.4/3A	15.00 x 4.88 x 4.55 (381.00 x 123.95 x 115.57)	12 (5.44)	271-2041-ND†*	177.63	172.44	167.70	158.89	HDCC150W-A+
5V@6A	24V@3.5/6A	-5V or -12V@1.2A	11.00 x 4.88 x 2.75 (279.40 x 123.95 x 69.85)	12 (5.44)	271-2003-ND	147.29	142.87	139.94	132.56	CP379-A+

* Requires fan cooling. † No. 3 output usable at -5V, rate at 1/2 of 15V current rating.

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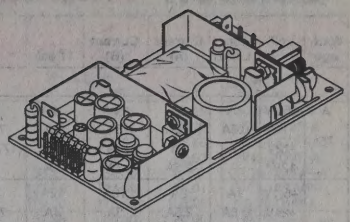
CONDOR Switch Mode DC Power Supplies

The standard version power supply for data processing, control, etc., applications.



General Features: • Cost Effective Power Source • 2 -Year Warranty - 100% burn-in, test and inspection.

Safety Specifications: • Conform with the applicable requirements of EN60950 following the provisions of the Low Voltage Directive 73/23/EEC. Approved to UL1950, CSA22.2 No. 234 Level 3, IEC950, EN60950, VDE 0805 and CSA950

General Specifications: • **AC Input:** 90-264 VAC, 47-63 Hz single phase (GPC41, GPFC110 and GPFC160 Series: 85-264 VAC, 47-63 Hz single phase) • **Overload Protection:** Fully protected against short circuit and output overload • **Temperature Rating:** 0°C to 50°C full rated output power • **EMI Compliance:** All models include EMI filtering to meet or exceed conducted emissions of CISPR 11 Class B, VDE0871 Class B and EN55022 Class B (GPFC110 in compliance to CISPR22, FCC Class B) • **Remote Sense:** GPFC110 and GPFC160 Series only • **Reverse Voltage Protection:** All outputs protected against inadvertent application of reverse voltage up to 1 times the rated current of the reverse output

Wattage	Voltage	Min. Load	Current (A)	Current (B)	I Peak	Dimensions L x W x H Inch (mm)	Mating Connectors: Housing Input	Housing Output	Contacts	Signal Housing	Signal Contact	Digi-Key Part No.	Price Each: 1	10	25	50	Condor Part No.
GSC 20 Series — Commercial Switcher																	
20	+12	0	1.7A	—	—	2.00" x 3.50" x 0.68" (50.80 x 88.90 x 17.27)	WM17405	WM17405	WM17406	—	—	271-1030-ND	50.40	47.88	45.36	42.84	GSC20-12
	+15	0	1.4A	—	—		WM17405	WM17405	WM17406	—	—	271-1031-ND	50.40	47.88	45.36	42.84	GSC20-15
	+24	0	0.85A	—	—		WM17405	WM17405	WM17406	—	—	271-1032-ND	50.40	47.88	45.36	42.84	GSC20-24
	+28	0	0.7A	—	—		WM17405	WM17405	WM17406	—	—	271-1033-ND	50.40	47.88	45.36	42.84	GSC20-28
	+5	0	3.8A	—	—		WM17405	WM17405	WM17406	—	—	271-1034-ND	50.40	47.88	45.36	42.84	GSC20-5
Chassis and Cover for GSC20 Series, 3.80" x 2.36" x 1.06" (96.52mm x 59.94mm x 26.92mm)												271-1131-ND	13.10	—	—	—	08-30466-020W
Triple Output - GSC25 Series																	
25	+5.1V	0.25A	2.5A			4.25" x 2.5" x .86" (107.95 x 63.50 x 21.84)	WM2123	WM2104	WM17403	—	—	271-1105-ND	53.55	50.87	48.20	45.52	GSC25A
	+12V	0	1.5A	—	—												
	-12	0	0.2A														
25	+5.1V	0.25A	2.5A			4.25" x 2.5" x .86" (107.95 x 63.50 x 21.84)	WM2123	WM2104	WM17403	—	—	271-1106-ND	53.55	50.87	48.20	45.52	GSC25D
	+24V	0	1.0A	—	—												
	-12	0	0.2A														
Chassis and Cover for GSC25 Series, 5.00" x 2.90" x 1.50" (127.00mm x 73.66mm x 38.10mm)												271-1127-ND	13.10	—	—	—	08-30466-0025
Single Output - GPC41 Series																	
30	5.1V	0.15	6.0A	—	—	4.00" x 2.00" x 1.5" (101.60 x 50.80 x 38.10)	A19950	A19952	A19990	—	—	271-1124-ND	52.50	49.88	47.25	44.63	GPC41-5
40	12V	0.03	3.3A	—	—		A19950	A19952	A19990	—	—	271-1125-ND	52.50	49.88	47.25	44.63	GPC41-12
40	24V	0.01	1.7A	—	—		A19950	A19952	A19990	—	—	271-1126-ND	52.50	49.88	47.25	44.63	GPC41-24
Cover for GPC41 Series, 3.32" x 1.98" x 1.66" (84.33mm x 50.29mm x 42.16mm)												271-1129-ND	13.10	—	—	—	08-30466-1041
Single Output - GLC50 Series																	
50	3.3V	0	8A	—	—	4.25" x 2.5" x 1.10" (107.95 x 63.50 x 27.94)	WM2123	WM2126	WM17403	—	—	271-1109-ND	56.18	54.86	52.87	49.89	GLC50-3.3
	5.1V	0	8A	—	—		WM2123	WM2126	WM17403	—	—	271-1110-ND	56.18	54.86	52.87	49.89	GLC50-5
	12V	0	4.2A	—	—		WM2123	WM2126	WM17403	—	—	271-1111-ND	56.18	54.86	52.87	49.89	GLC50-12
	24V	0	2.1A	—	—		WM2123	WM2126	WM17403	—	—	271-1112-ND	56.18	54.86	52.87	49.89	GLC50-24
Triple Output - GLC50 Series																	
50	+5.1V	0.8A	4A			4.25" x 2.5" x 1.10" (107.95 x 63.50 x 27.94)	WM2123	WM2126	WM17403	—	—	271-1107-ND	56.18	54.86	52.87	49.89	GLC50A
	+12V		2.5A	—	—												
	-12V		0.2A														
50	+5.1V	0.8A	4A			4.25" x 2.5" x 1.10" (107.95 x 63.50 x 27.94)	WM2123	WM2126	WM17403	—	—	271-1108-ND	56.18	54.86	52.87	49.89	GLC50D
	+24V		1.5A	—	—												
	-12V		0.2A														
Chassis and Cover for GLC50 Series, 5.00" x 2.90" x 1.50" (127.00mm x 73.66mm x 38.1mm)												271-1130-ND	13.10	—	—	—	08-30466-0050
GLC65 Series																	
65	+5.1V	0	11A	—	—	5.00" x 3.00" x 1.00" (127.00 x 76.20 x 25.40)	A19951	A19954	A19990	—	—	271-2171-ND	73.76	70.08	66.39	62.70	GLC65-5
	+12V	0	5.5A	—	—		A19951	A19954	A19990	—	—	271-2166-ND	72.26	68.65	65.04	61.81	GLC65-12
	+15V	0	4.3A	—	—		A19951	A19954	A19990	—	—	271-2167-ND	72.26	68.65	65.04	61.81	GLC65-15
	+24V	0	2.7A	—	—		A19951	A19954	A19990	—	—	271-2168-ND	72.26	68.65	65.04	61.81	GLC65-24
	+28V	0	2.3A	—	—		A19951	A19954	A19990	—	—	271-2169-ND	72.26	68.65	65.04	61.81	GLC65-28
	+48V	0	1.35A	—	—		A19951	A19954	A19990	—	—	271-2170-ND	73.76	70.08	66.39	62.70	GLC65-48
65	+5.0V	—	7A	—	—	5.00" x 3.00" x 1.25" (127.00 x 76.20 x 31.75)	WM2101	WM2104	WM2313	—	—	271-2210-ND	72.07	68.47	65.04	62.48	GLC65A
	+12V		3A														
	-12V		2.5A														
65	+5.0V	—	7A	—	—	5.00" x 3.00" x 1.25" (127.00 x 76.20 x 31.75)	WM2101	WM2104	WM2313	—	—	271-2211-ND	72.07	68.47	65.04	62.48	GLC65D
	+24V		1.5A														
	-12V		2.5A														
65	+5.0V	—	7A	—	—	5.00" x 3.00" x 1.25" (127.00 x 76.20 x 31.75)	WM2101	WM2104	WM2313	—	—	271-2212-ND	72.07	68.47	65.04	62.48	GLC65E
	+24V		1.5A														
	+12V		2.5A														
65	+3.3V	—	5A	—	—	5.00" x 3.00" x 1.25" (127.00 x 76.20 x 31.75)	WM2101	WM2104	WM2313	—	—	271-2214-ND	72.07	68.47	65.04	62.48	GLC65H
	+5.0V		4A														
	+12V		2.5A														
Single Output - GLC75 Series (See Amperage Rating Notes Below)																	
75	5.1V	0	14.7A	18A	18A	5.75" x 3.40" x 1.56" (146.05 x 86.36 x 39.70)	WM2125	WM2129	WM17403	—	—	271-1113-ND	72.26	68.65	65.05	61.81	GLC75-5
	12V	0	6.3A	9.1A	9.1A		WM2125	WM2129	WM17403	—	—	271-1114-ND	68.82	65.38	61.94	58.97	GLC75-12
	24V	0	3.1A	4.6A	4.6A		WM2125	WM2129	WM17403	—	—	271-1115-ND	68.82	65.38	61.94	58.97	GLC75-24
Chassis and Cover for GLC75 Single Output Series, 5.90" x 3.75" x 1.98" (149.86mm x 95.25mm x 50.29mm)												271-1132-ND	13.31	—	—	—	08-30466-2075

Floating fourth output can be referenced as either positive or negative. **Amperage Rating Notes for GLC75 and GLC110 Series:** • **Current A**: Rating with unrestricted convection cooling. Total power not to exceed 75W. **Current B:** Rating with 26cfm forced air cooling. Total power not to exceed 110W. • **I Peak:** During peak load conditions output regulation may exceed specified limits.

(Continued)

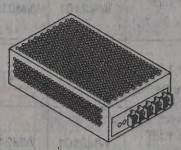
CONDOR Switch Mode DC Power Supplies *(Cont.)*

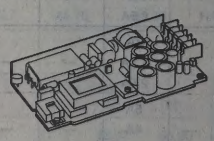
Wattage	Voltage	Min. Load	Current (A)	Current (B)	I Peak	Dimensions L x W x H Inch (mm)	Mating Connectors: Housing Input	Housing Output	Contacts	Signal Housing	Signal Contact	Digi-Key Part No.	Price Each 1	10	25	50	Condor Part No.
Quad Output - GLC75 Series (See Amperage Rating Notes Below)																	
75	+5.1V +12V -12V 12V*	1A 0.5A — —	8A 2.5A 1A 2.5A	10A 3A 1A 3A	12A 4A 1.2A 4A	7.00" x 4.25" x 1.30" (177.80 x 107.95 x 33.02)	WM2125	WM17404	WM17403	—	—	271-1116-ND	73.96	70.27	66.57	62.86	GLC75A
75	+5.1V +24V -12V 12V*	1A 0.5A — —	8A 2.5A 1A 2.5A	10A 3A 1A 3A	12A 4A 1.2A 4A	7.00" x 4.25" x 1.30" (177.80 x 107.95 x 33.02)	WM2125	WM17404	WM17403	—	—	271-1117-ND	73.96	70.27	66.57	62.86	GLC75D
Single Output - GLC110 Series (See Amperage Rating Notes Below)																	
110	+12V +15V +24V	0 0 0	6.3A 5A 3.2A	9.1A 7.3A 4.6A	9.5A 7.7A 5A	7.00" x 4.25" x 1.30" (177.80 x 107.95 x 33.02)	A19953 A19953 A19953	A28761 A28761 A28761	A19990 A19990 A19990	— — —	— — —	271-2203-ND 271-2204-ND 271-2207-ND	73.63 73.63 73.63	69.94 69.94 69.94	66.27 66.27 66.27	62.58 62.58 62.58	GLC110-12 GLC110-15 GLC110-24
Double Output - GLC110 Series (See Amperage Rating Notes Below)																	
110	+12V -12V	0 0	6.3A 2.5A	9.1A 3A	9.5A 4A	7.00" x 4.25" x 1.30" (177.80 x 107.95 x 33.02)	A19953	A28761	A19990	—	—	271-2205-ND	79.17	75.21	71.25	67.29	GLC110-212
110	+15V -15V	1A 0	6.3A 2.5A	7.3A 3A	7.7A 4A	7.00" x 4.25" x 1.30" (177.80 x 107.95 x 33.02)	A19953	A28761	A19990	—	—	271-2206-ND	79.17	75.21	71.25	67.29	GLC110-215
110	+24V +5V	1A 0	3.2A 1.5A	4.6A 2A	5A 2.5A	7.00" x 4.25" x 1.30" (177.80 x 107.95 x 33.02)	A19953	A28761	A19990	—	—	271-2208-ND	79.17	75.21	71.25	67.29	GLC110-524
Chassis and Cover for GLC75 and GLC110 Multiple Output Series, 7.30" x 4.50" x 2.10" (185.42mm x 114.30mm x 53.34mm)												271-1137-ND	13.31	—	—	—	08-30466-2175
Single Output - GPFC110 Series																	
110	+5.1V +12V +15V +24V +28V +48V	— — — — — —	12A 6.7A 5.3A 3.4A 2.9A 1.7A	— — — — — —	20A 10A 8A 5A 4.3A 2.5A	6.3" x 3.75" x 1.62" (160.02 x 95.25 x 41.15)	A19953 A19953 A19953 A19953 A19953 A19953	A19957 A19957 A19957 A19957 A19957 A19957	A19990 A19990 A19990 A19990 A19990 A19990	— — — — — —	— — — — — —	271-2180-ND 271-2175-ND 271-2176-ND 271-2177-ND 271-2178-ND 271-2179-ND	100.53 100.53 100.53 100.53 100.53 100.53	95.50 95.50 95.50 95.50 95.50 95.50	90.48 90.48 90.48 90.48 90.48 90.48	76.18 76.18 76.18 76.18 76.18 76.18	GPFC110-5 GPFC110-12 GPFC110-15 GPFC110-24 GPFC110-28 GPFC110-48
Cover for GPFC110 Series, 6.30" x 3.75" x 1.75" (160.02mm x 95.25mm x 44.45mm)												271-1133-ND	13.31	—	—	—	08-30466-2110
GPFC125 Series ‡																	
125	+5V +12V 12V† -12V	2A+V4 Current	9A 4A 2.5A 0.3A	16A 7A 4A 1A	—	6.00" x 3.50" x 1.50" (152.40 x 88.90 x 38.10)	WM2125	WM17404	WM17403	—	—	271-2215-ND	177.58	168.69	159.82	150.94	GPFC125A
125	+5V +12V 12V† -5V	2A+V4 Current	9A 4A 2.5A 0.3A	16A 7A 4A 1A	—	6.00" x 3.50" x 1.50" (152.40 x 88.90 x 38.10)	WM2125	WM17404	WM17403	—	—	271-2216-ND	177.58	168.69	159.82	150.94	GPFC125B
125	+5V +24V 12V† -12V	2A+V4 Current	9A 3A 2.5A 0.3A	16A 4.5A 4A 1A	—	6.00" x 3.50" x 1.50" (152.40 x 88.90 x 38.10)	WM2125	WM17404	WM17403	—	—	271-2217-ND	177.58	168.69	159.82	150.94	GPFC125D
125	+5V +3.3V 12V† -12V	2A+V4 Current	9A 7A 2.5A 0.3A	16A 10A 4A 1A	—	6.00" x 3.50" x 1.50" (152.40 x 88.90 x 38.10)	WM2125	WM17404	WM17403	—	—	271-2218-ND	177.58	168.69	159.82	150.94	GPFC125G
Cover for GPFC125												271-2220-ND	13.31	—	—	—	08-30466-2125
Single Output - GPFC160 Series																	
160	5.1V 12V 24V	— — —	26A 11.7A 5.8A	— — —	— — —	7.00" x 4.50" x 1.69" (177.80 x 114.30 x 42.93)	WM2125 WM2125 WM2125	WM17400 WM17400 WM17400	WM17403 WM17403 WM17403	WM2013 WM2013 WM2013	WM2200 WM2200 WM2200	271-1118-ND 271-1119-ND 271-1120-ND	181.95 181.95 181.95	172.85 172.85 172.85	163.77 163.77 163.77	154.67 154.67 154.67	GPFC160-5 GPFC160-12 GPFC160-24
Cover with Fan for GPFC160 Series, 7.00" x 4.50" x 1.75" (177.80mm x 114.30mm x 44.45mm)												271-1134-ND	18.46	—	—	—	09-160CF

Amperage Rating Notes for GLC75 and GLC110 Series: • **Current A:** Rating with unrestricted convection cooling. Total power not to exceed 75W. • **Current B:** Rating with 26cfm forced air cooling. Total power not to exceed 110W. • **I Peak:** During peak load conditions output regulation may exceed specified limits.

† Output 3 is isolated. Can be connected as + or - output. ‡ Peak rating or continuous rating with 150 LFM air cooling.

TOKO Power Supplies SW Series





FEATURES: • Very low profile and small size • Wide Variation: 7 type 94 part number • Worldwide Input Voltage: all type 85VAC ~ 264VAC (cont.) • High Dialectic Strength: 2000VAC between input and output • Safety Standards: Designed to meet UL1950(D3).

GENERAL SPECIFICATIONS:

- **Frequency Range:** 47-63 Hz
- **Inrush Current:** 5V~15V = 30/60A; 30V~100V = 45/90A
- **Ripple Voltage (max.):** 5V-12V: 120mVpp; 15V: 150mVpp; 24V: 200mVpp; 48V: 400mVpp:
- **Overall Output Req.:** 3%
- **Overload Protection:** +105% of rated current, automatic recovery
- **Dielectric Strength:** 2.0KVAC for 1 minute applied between input/output
- **Insulation Resistance:** 100mΩ between output/frame and input/output, measured with a 500 VDC tester
- **Operating Temp.:** 0°C to +60°C
- **Operating Humidity:** 30% to 85% RH
- **Weight:** SW30: 250g; SW50: 400g; SW100: 600g

Input Volt. (Vac)	Output Volt.(s)	Output Current	Dim. (mm) H x D x W	Digi-Key Part No.	Price Each 1	50	Toko Part No.
Output Power — 30 Watts — Open Frame							
85-264	24V	1.33A	97 x 114 x 25.4	TS9996-ND	73.56	69.14	SW30-24F
Output Power — 100 Watts — Enclosed Frame							
85-264	5V	20.0A	97 x 194 x 35	TS9864-ND	179.12	—	SW100-05C

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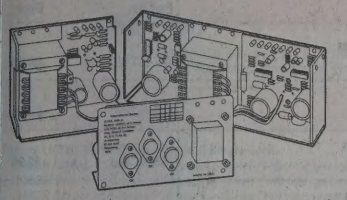


Features: • Worldwide AC input Capabilities • Meets domestic and foreign safety standards: UL, CSA, IEC, VDE, BPO, ECMA, CE • Low output ripple • Two hour burn-in • Made in U.S.A.

Overvoltage Protection Options: Optional overvoltage protection modules are offered, each is user adjustable from 6.4V to 34V. Note: Outputs with factory built-in OVP are indicated in the Voltage/Current Rating Chart for each model.

General Specifications: • AC Input: 100/120/220/240 VAC +10%, -13%. 47-63 Hz. Tolerance for 230 VAC operation is +15%, -10%. Factory wired for 120V operation • DC Output: Adjustment range ±5% minimum. Voltage non-adjustable on "3 terminal regulator" outputs • Line Regulation: ±.05% for a 10% line change. Exceptions: ±.01% for F, G case models, ±0.5% for all other outputs using "3 terminal regulators" • Load Regulation: ±.05% for a 50% load change. Exceptions: ±.02% for F, G case models, ±0.5% for all other outputs using "3 terminal regulators" • Output Ripple: 5V through 15V models: 5.0 mV PK-PK maximum. (3.0 mV PK-PK maximum for F, G case models). 24V through 250V models: 3.0 mV PK-PK plus .02% of output voltage, maximum. All "3 terminal regulator" outputs: 0.2% PK-PK maximum • Overvoltage Protection: Provided on 5V outputs where indicated. Set at 6.2V ±0.4%. Other outputs use optional overvoltage protectors OVP12 and OVP24. • Operating Temperature: 0°C to 50°C full rated, derated linearly to 40% at 70°C. • Efficiency: 5V outputs — 45%, 12V and 15V outputs — 55%, 24V through 250V outputs — 60% • Master/Slave Operation: Provided on F, G models only. For parallel operation of up to 6 units.

Safety Specifications: All models exceed the following safety standards — Leakage Current Line to Ground (max.): 0.05 mA • Dielectric Withstand Voltage (min.): Input to Ground — 3750VRMS, Input to Outputs — 3750VRMS, Outputs to Ground — 500VDC • 2 year warranty

Overvoltage Protection

Voltage Adjustment Range: 6.4 - 33VDC		
Maximum Current Rating		
Model	Intermittent	Continuous
OVP-12	12.0A	8.0A
OVP-24	30.0A	20.0A

Dimensions – In. (mm) Height x Width x Thickness	Digi-Key Part No.	Price Each 1	10	25	Power-One Part No.
1.50 x 1.55 x 0.56 (38.10 x 39.37 x 14.22)	179-2057-ND	9.75	9.50	9.25	OVP-12
2.00 x 2.75 x 0.77 (50.80 x 69.85 x 19.56)	179-2058-ND	16.25	15.71	15.50	OVP-24

OVP SELECTION GUIDE		
Model	Case Size	OVP Modules Required
Single Output	B, C, N, D	(1) OVP-12
	E, F	(1) OVP-24
Dual Output	AA, B, BB, CC	(1) OVP-12 protects both outputs
	E	(1) OVP-24 protects both outputs
Triple Output	AA, BAA, D, CBB 131, DBB, DCC	(1) OVP-12 protects both 12V through 15V outputs
Peak Current Models	PW9935-ND	(1) OVP-12 protects any output not provided with built-in OVP

International Series Single Output

Voltage/ Current	Case Size	Digi-Key Part No.	Price Each 1	10	25	50	Power-One Part No.
5V @ 1.5A*	B	179-2061-ND	34.75	33.75	33.00	31.25	HA5-1.5/OVP-A
5V @ 3A†	B	179-2035-ND	36.50	35.50	34.75	33.00	HB5-3/OVP-A
5V @ 6A†	C	179-2040-ND	57.50	55.75	55.00	51.75	HC5-6/OVP-A
5V @ 9A†	N	179-2056-ND	78.50	76.00	74.50	70.50	HN5-9/OVP-A
5V @ 12A†	D	179-2046-ND	89.00	86.25	84.50	80.00	HD5-12/OVP-A
5V @ 18A†	E	179-2051-ND	131.00	127.25	124.50	118.01	HE5-18/OVP-A
5V @ 25A†	F	179-2026-ND	184.50	179.00	175.50	166.25	F5-25/OVP-A
12V @ 0.9A**	B	179-2027-ND	32.13	31.25	30.50	29.00	HA15-0.9-A
12V @ 1.7A†	B	179-2029-ND	34.50	33.50	32.75	31.25	HB12-1.7-A
12V @ 3.4A†	C	179-2036-ND	52.25	50.75	49.75	47.00	HC12-3.4-A
12V @ 5.1A†	N	179-2052-ND	73.25	71.00	69.50	66.00	HN12-5.1-A
12V @ 6.8A†	D	179-2041-ND	83.75	81.25	79.50	75.26	HD12-6.8-A
12V @ 10.2A†	E	179-2047-ND	115.00	111.50	109.25	103.51	HE12-10.2-A
12V @ 16A†**	F	179-2024-ND	184.50	179.00	175.50	166.25	F15-15-A
15V @ 1.5A†	B	179-2030-ND	35.75	34.75	34.00	32.26	HB15-1.5-A
15V @ 3A†	C	179-2037-ND	52.25	50.75	49.75	47.00	HC15-3-A
15V @ 4.5A†	N	179-2053-ND	73.25	71.00	69.50	66.00	HN15-4.5-A
15V @ 6A†	D	179-2042-ND	83.75	81.25	79.50	75.26	HD15-6-A
15V @ 9A†	E	179-2048-ND	115.00	111.50	109.25	103.51	HE15-9-A
24V @ 0.5A**	B	179-2028-ND	34.75	33.75	33.00	31.25	HA24-0.5-A
24V @ 1.2A†	B	179-2032-ND	36.50	35.25	34.75	32.76	HB24-1.2-A
24V @ 2.4A†	C	179-2038-ND	52.25	50.75	49.75	47.00	HC24-2.4-A
24V @ 3.6A†	N	179-2054-ND	73.25	71.00	69.50	66.00	HN24-3.6-A
24V @ 4.8A†	D	179-2043-ND	83.75	81.25	79.50	75.26	HD24-4.8-A
24V @ 7.2A†	E	179-2049-ND	115.00	111.50	109.25	103.51	HE24-7.2-A
24V @ 12A†**	F	179-2025-ND	184.50	179.00	175.50	166.25	F24-12-A
28V @ 1A†	B	179-2033-ND	36.50	35.25	34.75	32.76	HB28-1-A
28V @ 2A†	C	179-2039-ND	52.25	50.75	49.75	47.00	HC28-2-A
28V @ 3A†	N	179-2055-ND	73.25	71.00	69.50	66.00	HN28-3-A
28V @ 4A†	D	179-2044-ND	83.75	81.25	79.50	75.26	HD28-4-A
48V @ 0.5A	B	179-2034-ND	42.00	40.75	39.75	37.75	HB48-0.5-A
48V @ 3A†	D	179-2045-ND	89.00	86.25	84.50	80.00	HD48-3-A
48V @ 4A†	E	179-2050-ND	125.50	121.75	119.26	113.00	HE48-4-A

* Overvoltage protection provided. Set at 6.2V ±0.4V. ** Adjustable outputs: F15-15-A: 12-15V, F24-12-A: 24-28V, HA24-0.5-A: 24-28V † Remote sense provided

Case Size

Case	Overall Size – In. (mm)	Weight
CBB	11.00 x 4.87 x 3.28 (279.40 x 123.70 x 83.31)	8 Lbs
D	9.00 x 4.87 x 3.28 (228.60 x 123.70 x 83.31)	7.5 Lbs
DBB	14.25 x 4.87 x 3.38 (361.95 x 123.70 x 85.85)	11 Lbs
DCC	15.00 x 4.88 x 4.55 (381.00 x 123.95 x 115.57)	12 Lbs
E	14.00 x 4.87 x 3.53 (355.60 x 123.70 x 89.66)	10 Lbs
F	16.75 x 4.88 x 5.00 (425.45 x 123.95 x 127.00)	19 Lbs
AA	6.50 x 4.00 x 2.10 (165.10 x 101.60 x 53.34)	2.5 Lbs
B	4.87 x 4.00 x 2.10 (123.70 x 101.60 x 53.34)	2.2 Lbs

Case	Overall Size – In. (mm)	Weight
BB	7.00 x 4.87 x 2.95 (177.80 x 123.70 x 74.93)	4.4 Lbs
BAA	10.25 x 4.00 x 2.95 (260.35 x 101.60 x 74.93)	5 Lbs
C	5.62 x 4.87 x 2.95 (142.75 x 123.70 x 74.93)	4.25 Lbs
CC	9.38 x 4.87 x 3.28 (238.25 x 123.70 x 83.31)	7 Lbs
N	7.00 x 4.87 x 3.20 (177.80 x 123.70 x 81.28)	6 Lbs
CP131	11.00 x 4.87 x 3.20 (279.40 x 123.70 x 81.28)	9 Lbs
NRG275	9.00 x 5.00 x 2.50 (228.60 x 127.00 x 63.50)	3 Lbs

International Series Dual Output

Output #1	Output #2	Case Size	Digi-Key Part No.	Price Each 1	10	25	50	Power-One Part No.
+12V @ 0.4A§ +15 @ 0.4A§	-12V @ 0.4A§ -15V @ 0.4A§	B	179-2065-ND 179-2066-ND	38.75 38.75	37.50 37.50	36.75 36.75	34.76 34.76	HAD12-0.4-A HAD15-0.4-A
+12V @ 1A or +15V @ 0.8A†	-12V @ 1A or -15V @ 0.8A or -5V @ 0.4A†	AA	179-2062-ND	45.00	43.75	42.75	40.51	HAA15-0.8-A
+12V @ 1.7A or +15V @ 1.5A†	-12V @1.7A or -15V @ 1.5A or -5V @ 0.7A†	BB	179-2068-ND	57.50	55.75	55.00	51.76	HBB15-1.5-A
+12V @ 3.4A or +15V @ 3A†	-12V @ 3.4A or -15V @ 3A†	CC	179-2073-ND	92.00	89.25	87.51	82.75	HCC15-3-A
+12V or 15V @ 5A†	(-)12V or 15V @ 5A†	E	179-2078-ND	136.00	131.75	129.01	122.25	HDD15-5-A
+18-20V @ 0.4A or +24V @ 0.6A	(-)18-20V @ 0.4A or -24V @ 0.6A	AA	179-2063-ND	48.46	47.00	46.25	43.76	HAA24-0.6-A
+18-20V @ 0.9A or +24V @ 1.2A	(-)18-20V @ 0.9A or -24V @ 1.2A	BB	179-2069-ND	63.00	62.00	61.01	57.01	HBB24-1.2-A
+18-20V @ 1.8A or +24V @ 2.4A†	(-)18-20V @ 1.8A or -24V @ 2.4A†	CC	179-2074-ND	101.00	98.00	96.00	91.00	HCC24-2.4-A
5V @ 2A*‡	9-15V @ 0.5A	AA	179-2064-ND	52.25	50.75	49.75	47.00	HAA512-A
5V @ 3A*‡†	12-15V @ 1.25A†	BB	179-2070-ND	62.75	61.00	59.50	56.50	HBB512-A
5V @ 6A*‡†	12-15V @ 2.5A†	CC	179-2075-ND	99.25	96.25	94.25	89.50	HCC512-A
+5V @ 2A*	+12V @ 4A	N	179-2060-ND	92.00	89.25	87.51	82.75	CP323-A

* Overvoltage protection provided. Set at 6.2V ±0.4%. † Remote sense provided. ‡ Isolated outputs, can be referenced as + or -. § Non-adjustable 3 terminal regulator.

International Series Triple Output

Output #1	Output #2	Output #3	Case Size	Digi-Key Part No.	Price Each 1	10	25	50	Power-One Part No.
5V @ 2A*‡	+12 to 15V @ 0.4A	(-)12 to 15V @ 0.4A or -5V @ 0.4A	AA	179-2079-ND	57.50	55.75	54.75	51.76	HTAA-16W-A
5V @ 3A*†‡	+12V @ 1A or +15V @ 0.8A†	(-)12 @ 1A or -15V @ 0.8A or -5V @ 0.4A†	BAA	179-2067-ND	79.50	77.00	75.50	71.51	HBAA-40W-A
+5V @ 6A*†	+12 to 15V @1.0A	(-)12 to 15V @ 1A or -5V @ 0.4A	D	179-2071-ND	94.00	91.25	89.50	84.75	HCAA-60W-A
5V @ 6A*†‡	+12V @ 1.7A or +15V @ 1.5A†	-12V @ 1.7A or -15V @ 1.5A or -5V @ 0.7A†	CBB	179-2072-ND	109.75	106.50	104.25	98.76	HCBB-75W-A
5V @ 8A*†‡	+12V @ 1.7A or +15V @ 1.5A†	-12V @ 1.7A or -15V @ 1.5A or -5V @ 0.7A†	131	179-2059-ND	125.50	121.75	119.26	113.00	CP131-A
5V @ 12A*†‡	+12V @ 1.7A or +15V @ 1.5A†	-12V @ 1.7A or -15V @ 1.5A or -5V @ 0.7A†	DBB	179-2076-ND	148.07	143.63	140.67	133.27	HDBB-105W-A
5V @ 12A*†‡	+12V @ 3.4A or +15V @ 3A†	-12V @ 3.4A or -15V @ 3A†	DCC	179-2077-ND	162.00	157.25	154.00	145.75	HDCC-150W-A

* Overvoltage protection provided. Set at 6.2V ±0.4%. † Remote sense provided. ‡ Isolated outputs, can be referenced as + or -.

Input Filter Modules - FC100 Series

Fig. 1 — FC100V5A

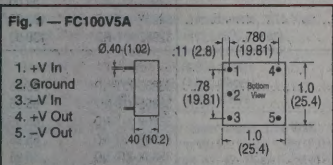


Fig. 2 — FC100V10A

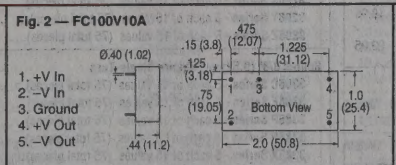
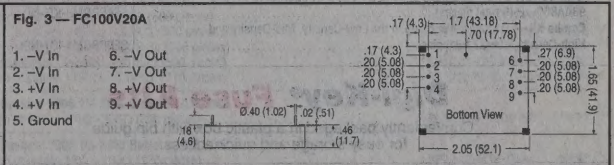


Fig. 3 — FC100V20A



FC100 industry standard series of input filter modules provide up to 30dB of common mode and differential mode filtering at 500KHz. The FC100 series are available in 5A, 10A, and 20A versions and are optimized for operation with IPD's converters. The filters can be operated with up to 100VDC source and have 1000VDC of insolation.

Features: • Meet class B conducted limits • PCB mountable • CM and DM filtering • Industry standard pinout • -40°C to 100°C case operation • Input frequency 100 Hz

Fig.	Oper. Curr. (Amps)	Insertion Loss Differential Mode (dB)	Insertion Loss Common Mode (dB)	Typical Resistance (mOhms)	Digi-Key Part No.	Price Each 1	10	25	50	Power-One Part No.
1	5 A	28	30	27	179-2178-ND	14.00	13.50	13.00	12.50	FC100V5A
2	10A	31	28	17	179-2179-ND	17.50	17.00	16.25	15.50	FC100V10A
3	20 A	26	32	6.6	179-2180-ND	31.50	29.40	27.30	25.20	FC100V20A

Digi-Key® Capacitor Kits

Conveniently packaged in a plastic box with bin guide for easy storage and quick access.

Description	Digi-Key Part No.	Price Each
Panasonic Miniature Aluminum Electrolytic		
KG Series - 10 each of 18 popular values (180 total pieces)	P900-KIT-ND	34.95
Panasonic Miniature Radial Lead Electrolytic		
M-Series - 10 each of 17 popular values (170 total pieces)	M-KIT-ND	69.95
NHG-Series - 10 each of 18 popular values (180 total pieces)	NHG-KIT-ND	69.95
Panasonic Miniature Radial Lead Electrolytic		
KA-Series - 10 each of 16 popular values (160 total pieces)	P835-KIT-ND	29.95
Panasonic Stacked Metal Film		
V-Series, 50 Volt - 10 each of 18 popular values (180 total pieces)	P4542-KIT-ND	49.95
V-Series, 100 Volt - 10 each of 18 popular values (180 total pieces)	P4700-KIT-ND	49.95
Panasonic Metal Film (Interference Suppressors)		
X-Y Series - 10 each of 10 popular values (100 total pieces)	P4650-KIT-ND	59.95
Panasonic Metallized Polyester		
E-Series - 10 each of 14 popular values and 30 pieces of #E2104 (170 total pieces)	E-KIT-ND	59.95
Panasonic Polyester		
B-Series - Various quantities of 12 popular values (300 total pieces)	P4550-KIT-ND	29.95
Panasonic Polyester Foil		
M-Series, 200 Volt - 10 each of 15 popular values (150 total pieces)	M200-KIT-ND	29.95
M-Series, 400 Volt - 10 each of 15 popular values (150 total pieces)	M400-KIT-ND	29.95
Panasonic Polypropylene		
P-Series - 10 each of 15 popular values (150 total pieces)	P3100-KIT-ND	69.95
Panasonic SMT Film		
ECH-U Series - 10 each of 18 popular values (180 total pieces)	PCF1-KIT-ND	59.95
Panasonic SMT Specialty Polymer Aluminum Electrolytic Chip		
CD/UD/UE/S Series - 15 each of 12 popular values (180 total pieces)	SP2-KIT-ND	34.99
Panasonic 0402 Chip Ceramic		
NPO Series - 10 each of 28 popular values (280 total pieces)	PCC13-KIT-ND	49.95
X7R Series - 10 each of 30 popular values (300 total pieces)	PCC14-KIT-ND	45.95
Panasonic 0603 Chip Ceramic		
NPO Series -10 each of 30 popular values (300 total pieces)	PCC9-KIT-ND	29.95
X7R and X5R Series - 10 each of 30 popular values (300 total pieces)	PCC15-KIT-ND	29.95
Panasonic 0805 Chip Ceramic		
NPO Series - 10 each of 30 popular values (300 total pieces)	PCC7-KIT-ND	29.95
X7R Series - 10 each of 30 popular values (300 total pieces)	PCC16-KIT-ND	29.95
Panasonic 1206 Chip Ceramic		
NPO Series - 10 each of 14 popular values (140 total pieces)	PCC17-KIT-ND	89.95
Panasonic Multilayer Ceramic Chip (MLCC) Capacitor		
X5R Series - 20 each of 20 popular values (400 total pieces)	PCC18A-KIT-ND	49.95
NEW! **Panasonic 0201/0402 High-Q (MLCC) Chip Ceramic**		
0201/High-Q Series - 20 each of 21 popular values (420 total pieces)	PCC19-KIT-ND	59.00
0402/High-Q Series - 20 each of 30 popular values (600 total pieces)	PCC20-KIT-ND	59.00

Digi-Key® Serial EEPROM Kits

Conveniently packaged in a plastic box with bin guide for easy storage and quick access.

Description	Digi-Key Part No.	Price Each
Microchip Serial EEPROM Kits		
Low-Density — 3 pieces each of parts 24AA01-I/PDK, 25AA040-I/P and 93AA46B-I/P (9 total pieces)	SEEPROM1-KIT-ND	17.95
Mid-Density — 3 pieces each of parts 24AA16-I/P, 25AA080B-I/P and 93AA66C-I/P (9 total pieces)	SEEPROM2-KIT-ND	17.95
High-Density — 3 pieces each of parts 24AA512-I/P, 25AA640-I/P and 93AA86C-I/P (9 total pieces)	SEEPROM3-KIT-ND	19.95
Combo Kit — Contains everything in the Low-Density, Mid-Density and High-Density Kits (27 total pieces)	SEEPROM4-KIT-ND	29.95

Digi-Key® Fuse Kits

Conveniently packaged in a plastic box with bin guide for easy storage and quick access.

Description	Digi-Key Part No.	Price Each
Littelfuse Pico SMD and Nano² SMF Fuses		
5 each of 30 fuses (150 total pieces)	SMF-KIT-ND	99.95
Littelfuse 434 Series 0603 Fast Acting Fuses		
10 each of 13 fuses (130 total pieces)	434-KIT-ND	89.95
Littelfuse 467 Series 0603 Lead Free Fast Acting Fuses		
10 each of 14 fuses (140 total pieces)	467-KIT-ND	99.95
Littelfuse 433 Series 1206 Fast Acting Fuses		
10 each 15 fuses (150 total pieces)	433-KIT-ND	79.95
Littelfuse 466 Series 1206 Lead Free Fast Acting Fuses		
10 each 15 fuses (150 total pieces)	466-KIT-ND	89.95
Littelfuse 154 Series Nano² SMT Fast/Slo-Blo® Fuses		
5 each 18 fuses (90 total pieces)	154-KIT-ND	149.95
Littelfuse 251/473 Series PICO II Fast/Slo-Blo® Axial Fuses		
5 each 18 fuses (90 total pieces)	251-473-KIT-ND	99.96
Littelfuse 216 Series Fast Acting Hi-Breaking 5x20mm Fuses		
5 each 18 fuses (90 total pieces)	216-KIT-ND	159.97
Littelfuse 217 Series Fast Acting 5x20mm Fuses		
5 each 18 fuses (90 total pieces)	217-KIT-ND	39.95
Littelfuse 218 Series Slo-Blo® 5x20mm Fuses		
5 each 18 fuses (90 total pieces)	218-KIT-ND	59.95
Littelfuse 257/297 Series Mini and ATO Blade Fuses		
5 each 18 fuses (90 total pieces)	257-297-KIT-ND	33.95
Littelfuse 225/229 Series Fast/Slo-Blo® 2AG Fuses		
5 each 18 fuses (90 total pieces)	225-229-KIT-ND	39.95
Littelfuse 312 Series Fast Acting 3AG Fuses		
5 each 34 fuses and 10 each 2 fuse clips (190 total pieces)	312-KIT-ND	89.95
Littelfuse 313 Series Slo-Blo® 3AG Fuses		
5 each 34 fuses and 10 each 2 fuse clips (190 total pieces)	313-KIT-ND	109.96
Wickman Fuses		
10 each of 17 popular fuses and 15 of TR5 Fuseholder (185 total pieces)	WK0113-KIT-ND	74.95
10 each of 17 popular fuses and 15 of TR5 Fuseholder (185 total pieces)	WK0116-KIT-ND	79.95
10 each of 17 popular fuses and 20 of TE5 Fuseholder (190 total pieces)	WK0117-KIT-ND	79.95
10 each of 17 popular fuses and 5 of Shock-Safe Fuseholder (175 total pieces)	WK0119-KIT-ND	59.95
10 each of 17 popular fuses and 5 of Shock-Safe Fuseholder (175 total pieces)	WK0120-KIT-ND	59.95

Digi-Key® Inductor Kits

Conveniently packaged in a plastic box with bin guide for easy storage and quick access.

Description	Digi-Key Part No.	Price Each
Panasonic SMT Inductors		
RE Type (2% Tolerance) - 10 each of 23 inductors (230 total pieces)	PCD4-KIT-ND	79.95
RE Type (5% Tolerance) - 10 each of 23 inductors (230 total pieces)	PCD1-KIT-ND	69.95
ND Type - 10 each of 25 inductors (***PCD1185CT-ND not included***) (250 total pcs.)	PCD2-KIT-ND	99.95
RF Type - 10 each of 20 inductors (200 total pieces)	PCD3-KIT-ND	69.95

Digi-Key® Potentiometer Kits

Conveniently packaged in a plastic box with bin guide for easy storage and quick access.

Description	Digi-Key Part No.	Price Each
Bourns 3/4" (19.05mm) Rectangular 15-Turn		
10 each of 15 popular values (150 total pieces)	3006P-KIT-ND	159.00
Bourns 3/8" (9.52mm) Square 25-Turn		
3296P Series - 5 each of 15 values (75 total pieces)	3296P-KIT-ND	139.00
3296W Series - 5 each of 15 values (75 total pieces)	3296W-KIT-ND	139.00
3296X Series - 5 each of 15 values (75 total pieces)	3296X-KIT-ND	139.00
3296Y Series - 5 each of 15values (75 total pieces)	3296Y-KIT-ND	139.00
3296Z Series - 5 each of 15 values (75 total pieces)	3296Z-KIT-ND	139.00
Bourns 3/8" (9.52mm) Square Single-Turn		
3386C Series - 5 each of 15 values (75 total pieces)	3386C-KIT-ND	65.95
3386F Series - 5 each of 15 values (75 total pieces)	3386F-KIT-ND	65.95
3386P Series - 5 each of 15 values (75 total pieces)	3386P-KIT-ND	65.95
3386R Series - 5 each of 15 values (75 total pieces)	3386R-KIT-ND	65.95
3386X Series - 5 each of 15 values (75 total pieces)	3386X-KIT-ND	65.95
Bourns 1/2" (12.70mm) Square 25-Turn		
5 each of 18 popular values (90 total pieces)	3252-KIT-ND	599.00
Bourns 1/4" (6.35mm) Square Cermet 12-Turn		
3266W Series - 5 each of 17 values (85 total pieces)	3266W-KIT-ND	199.00
3266X Series - 5 each of 17 values (85 total pieces)	3266X-KIT-ND	199.00

(Continued)

Digi-Key® Potentiometer Kits (Cont.)

Conveniently packaged in a plastic box with bin guide for easy storage and quick access.

Description	Digi-Key Part No.	Price Each
Bourns 1/4" (6.35mm) Square Cermet Single-Turn		
3362H Series - 10 each of 14 popular values (140 total pieces)	3362H-KIT-ND	89.95
3362M Series - 10 each of 14 popular values (140 total pieces)	3362M-KIT-ND	89.95
3362R Series - 10 each of 14 popular values (140 total pieces)	3362R-KIT-ND	89.95
3362U Series - 10 each of 14 popular values (140 total pieces)	3362U-KIT-ND	89.95
3362X Series - 10 each of 14 popular values (140 total pieces)	3362X-KIT-ND	89.95
Bourns 9mm Round Cermet Single-Turn		
10 each of values (180 total pieces)	3309-KIT-ND	69.95
Bourns 1/4" (6.35mm) Round Cermet Single-Turn		
3329H Series - 5 each of 14 popular values (70 total pieces)	3329H-KIT-ND	129.95
3329P Series - 5 each of 14 popular values (70 total pieces)	3329P-KIT-ND	129.95
3329S Series - 5 each of 14 popular values (70 total pieces)	3329S-KIT-ND	129.95
3329W Series - 5 each of 14 popular values (70 total pieces)	3329W-KIT-ND	129.95
3329X Series - 5 each of 14 popular values (70 total pieces)	3329X-KIT-ND	129.95
Bourns 5/16" (7.95mm) Round Cermet 4-Turn		
3339P Series - 5 each of 14 popular values (70 total pieces)	3339P-KIT-ND	269.00
3339W Series - 5 each of 14 popular values (70 total pieces)	3339W-KIT-ND	269.00
Bourns 3/8" (9.52mm) Round Cermet Single-Turn		
3352E Series - 5 each of 15 popular values (75 total pieces)	3352E-KIT-ND	49.95
3352H Series - 5 each of 15 popular values (75 total pieces)	3352H-KIT-ND	49.95
3352P Series - 5 each of 15 popular values (75 total pieces)	3352P-KIT-ND	49.95
3352T Series - 5 each of 15 popular values (75 total pieces)	3352T-KIT-ND	49.95
3352W Series - 5 each of 15 popular values (75 total pieces)	3352W-KIT-ND	49.95
Bourns 1/2" (12.70mm) Round Wirewound Single-Turn		
5 each of 9 popular values (45 total pieces)	3345P-KIT-ND	199.95
Bourns SMD 4mm Square Cermet Single-Turn Open Frame		
5 each of 11 popular values (55 total pieces)	3364W-KIT-ND	35.95
CTS 1/4 Watt Carbon Linear Taper		
270 Series, With Switch - 5 each of 8 values (40 total pieces)	270-A-KIT-ND	109.95
270 Series, Without Switch - 5 each of 8 values (40 total pieces)	270-B-KIT-ND	89.95
CTS 1/4 Watt Carbon Logarithmic Taper		
270 Series, With Switch - 5 each of 8 values (40 total pieces)	270-C-KIT-ND	109.95
270 Series, Without Switch - 5 each of 8 values (40 total pieces)	270-D-KIT-ND	89.95
CTS 1/8 Watt Carbon		
296 Series, Top Adjust - 5 each of 11 values (55 total pieces)	296U-KIT-ND	59.95
296 Series, Side Adjust - 5 each of 11 values (55 total pieces)	296X-KIT-ND	59.95
CTS 5 Watt Wirewound		
026 Series - 5 each of 7 values (35 total pieces)	26-KIT-ND	99.95
CTS 1/4 Watt Trimmer		
201 Series, Top Adjust - 5 each of 13 values (65 total pieces)	201U-KIT-ND	29.95
201 Series, Side Adjust - 5 each of 13 values (65 total pieces)	201X-KIT-ND	29.95
CTS .15 Watt Trimmer		
262 Series, Top Adjust - 5 each of 11 values (55 total pieces)	U262-KIT-ND	27.95
262 Series, Side Adjust - 5 each of 11 values (55 total pieces)	X262-KIT-ND	27.95
Panasonic 6mm Carbon Trimmer, Laydown and Standup Version		
10 each of 14 popular values (140 pieces)	DXA-KIT-ND	29.95
Panasonic 6mm Cermet Dust-Proof		
Both Sides Adjust - 10 each of 13 popular values (130 total pieces)	31G-KIT-ND	52.95
Vertical Both Sides Adjust - 10 each of 13 popular values (130 total pieces)	36G-KIT-ND	52.95
Panasonic SMT Trimmer		
P1S Series - 10 each of 12 values (120 total pieces)	P1S-KIT-ND	43.95
P1D Series - 10 each of 13 values (130 total pieces)	P1D-KIT-ND	43.95
P1E Series - 10 each of 13 values (130 total pieces)	P1E-KIT-ND	43.95

Digi-Key® Resistor Kits

Conveniently packaged into bags per value.

Description	Digi-Key Part No.	Price Each
Panasonic 0402 1% Chip Resistor Assortments, 1/16 Watt		
50 each of values 10 ohm to 97.6 ohm (4,800 pieces)	RSM1L-ND	189.00
50 each of values 100 ohm to 976 ohm (4,800 pieces)	RSM2L-ND	189.00
50 each of values 1.00K to 9.76K (4,800 pieces)	RSM3L-ND	189.00
50 each of values 10.0K to 97.6K (4,800 pieces)	RSM4L-ND	189.00
50 each of values 100K to 1.00M (4,850 pieces)	RSM5L-ND	189.00
Panasonic 0402 5% Chip Resistor Assortments, 1/16 Watt		
50 each of every other value from 10, 12, 15 etc 1.0M (3,050 pieces)	CR7A-KIT-ND	89.95
200 each of every other value from 10, 12, 15 etc 1.0M (12,200 pieces)	CR7-KIT-ND	169.00
50 each of every other value from 11, 13, 16 etc. 910K (3,000 pieces)	CR8A-KIT-ND	89.95
200 each of every other value from 11, 13, 16 etc. 910K (12,000 pieces)	CR8-KIT-ND	169.00
Panasonic 0603 1% Chip Resistor Assortments, 1/16 Watt		
50 each of values 10 ohm to 97.6 ohm (4,800 pieces)	RSM1H-ND	129.00
50 each of values 100 ohm to 976 ohm (4,800 pieces)	RSM2H-ND	129.00
50 each of values 1.00K to 9.76K (4,800 pieces)	RSM3H-ND	129.00
50 each of values 10.0K to 97.6K (4,800 pieces)	RSM4H-ND	129.00
50 each of values 100K to 1.00M (4,850 pieces)	RSM5H-ND	129.00
Panasonic 0603 5% Chip Resistor Assortments, 1/16 Watt		
50 each of every other value from 10, 12, 15 etc 1.0M (3,050 pieces)	CR5A-KIT-ND	85.95
200 each of every other value from 10, 12, 15 etc 1.0M (12,200 pieces)	CR5-KIT-ND	129.00
50 each of every other value from 11, 13, 16 etc. 910K (3,000 pieces)	CR6A-KIT-ND	85.95
200 each of every other value from 11, 13, 16 etc. 910K (12,000 pieces)	CR6-KIT-ND	129.00
Panasonic 0805 1% Chip Resistor Assortments, 1/10 Watt		
50 each of values 10 ohm to 97.6 ohm (4,800 pieces)	RSM1CA-ND	119.95
200 each of values 10 ohm to 97.6 ohm (19,200 pieces)	RSM1C-ND	299.00
50 each of values 100 ohm to 976 ohm (4,800 pieces)	RSM2CA-ND	119.95
200 each of values 100 ohm to 976 ohm (19,200 pieces)	RSM2C-ND	299.00
50 each of values 1.00K to 9.76K (4,800 pieces)	RSM3CA-ND	119.95
200 each of values 1.00K to 9.76K (19,200 pieces)	RSM3C-ND	299.00
50 each of values 10.0K to 97.6K (4,800 pieces)	RSM4CA-ND	119.95
200 each of values 10.0K to 97.6K (19,200 pieces)	RSM4C-ND	299.00
50 each of values 100K to 1.00M (4,850 pieces)	RSM5CA-ND	119.95
200 each of values 100K to 1.00M (19,400 pieces)	RSM5C-ND	299.00
Panasonic 0805 5% Chip Resistor Assortments, 1/10 Watt		
50 each of every other value from 10, 12, 15 etc. 1.0M (3,050 pieces)	CR3A-KIT-ND	79.95
200 each of every other value from 10, 12, 15 etc. 1.0M (12,200 pieces)	CR3-KIT-ND	129.00
50 each of every other value from 11, 13, 16 etc. 910K (3,000 pieces)	CR4A-KIT-ND	79.95
200 each of every other value from 11, 13, 16 etc. 910K (12,000 pieces)	CR4-KIT-ND	129.00
Panasonic 1206 1% Chip Resistor Assortments, 1/8 Watt		
50 each of values 10.0 ohm to 97.6 ohm (4,800 pieces)	RSM1FA-ND	129.95
200 each of values 10.0 ohm to 97.6 ohm (19,200 pieces)	RSM1F-ND	299.00
50 each of values 100 ohm to 976 ohm (4,800 pieces)	RSM2FA-ND	129.95
200 each of values 100 ohm to 976 ohm (19,200 pieces)	RSM2F-ND	299.00
50 each of values 1.00K to 9.76K (4,800 pieces)	RSM3FA-ND	119.95
200 each of values 1.00K to 9.76K (19,200 pieces)	RSM3F-ND	299.00
50 each of values 10.0K to 97.6K (4,800 pieces)	RSM4FA-ND	129.95
200 each of values 10.0K to 97.6K (19,200 pieces)	RSM4F-ND	299.00
50 each of values 100K to 1.00M (4,850 pieces)	RSM5FA-ND	129.95
200 each of values 100K to 1.00M (19,400 pieces)	RSM5F-ND	299.00
Panasonic 1206 5% Chip Resistor Assortments, 1/8 Watt		
50 each of every other value from 10, 12, 15 etc. 1.0M (3,050 pieces)	CR1A-KIT-ND	79.95
200 each of every other value from 10, 12, 15 etc. 1.0M (12,200 pieces)	CR1-KIT-ND	129.00
50 each of every other value from 11, 13, 16 etc. 910K (3,000 pieces)	CR2A-KIT-ND	79.95
200 each of every other value from 11, 13, 16 etc. 910K (12,000 pieces)	CR2-KIT-ND	129.00
***NEW!* Susumu 0201 .5% SMD Resistor, 1/20 Watt**		
10 each of values 47Ω ~ 8.2KΩ (150 pieces)	RR0306PD-1-KIT-ND	9.95
***NEW!* Susumu 0402 .5% SMD Resistor, 1/16 Watt**		
10 each of values 10Ω ~ 82Ω (190 pieces)	RR0510RD-1-KIT-ND	4.95
10 each of values 100Ω ~ 4.3KΩ (400 pieces)	RR0510PD-1-KIT-ND	9.95
10 each of values 4.7KΩ ~ 100KΩ (330 pieces)	RR0510PD-2-KIT-ND	7.95
***NEW!* Susumu 0402 1% SMD Resistor, 1/5 Watt**		
10 each of values .10Ω ~ 47Ω (330 pieces)	RP1005SF-1-KIT-ND	59.95
***NEW!* Susumu 0603 .05% SMD Resistor, 1/16 Watt**		
10 each of values 47Ω ~ 750Ω (300 pieces)	RG1608NW-1-KIT-ND	175.95
10 each of values 820Ω ~ 13KΩ (300 pieces)	RG1608NW-2-KIT-ND	175.95
10 each of values 15KΩ ~ 270KΩ (310 pieces)	RG1608NW-3-KIT-ND	175.95
***NEW!* Susumu 0603 .1% SMD Resistor, 1/16 Watt**		
10 each of values 100Ω ~ 1.0KΩ (500 pieces)	RR0816PB-1-KIT-ND	59.95
10 each of values 1.05KΩ ~ 3.9KΩ (500 pieces)	RR0816PB-2-KIT-ND	59.95
10 each of values 3.92KΩ ~ 15.0KΩ (500 pieces)	RR0816PB-3-KIT-ND	59.95
10 each of values 15.4KΩ ~ 75KΩ (500 pieces)	RR0816PB-4-KIT-ND	59.95
10 each of values 76.8KΩ ~ 332KΩ (370 pieces)	RR0816PB-5-KIT-ND	49.95
***NEW!* Susumu 0603 .5% SMD Resistor, 1/16 Watt**		
10 each of values 11Ω ~ 91Ω (420 pieces)	RR0816QD-1-KIT-ND	13.95
10 each of values 100Ω ~ 806Ω (500 pieces)	RR0816PD-1-KIT-ND	15.95
10 each of values 820Ω ~ 4.75KΩ (500 pieces)	RR0816PD-2-KIT-ND	15.95
10 each of values 4.87KΩ ~ 18.0KΩ (500 pieces)	RR0816PD-3-KIT-ND	15.95
10 each of values 18.2KΩ ~ 68.1KΩ (500 pieces)	RR0816PD-4-KIT-ND	15.95
10 each of values 69.8KΩ ~ 360KΩ (390 pieces)	RR0816PD-5-KIT-ND	12.95
***NEW!* Susumu 0603 1% SMD Resistor, 1/5 Watt**		
10 each of values .10Ω ~ 68Ω (350 pieces)	RP1608SF-1-KIT-ND	49.95
***NEW!* Susumu 0805 .05% SMD Resistor, 1/10 Watt**		
10 each of values 47Ω ~ 910Ω (320 pieces)	RG2012NW-1-KIT-ND	199.95
10 each of values 1.0KΩ ~ 20KΩ (320 pieces)	RG2012NW-2-KIT-ND	199.95
10 each of values 22KΩ ~ 470KΩ (330 pieces)	RG2012NW-3-KIT-ND	199.95
***NEW!* Susumu 0805 .1% SMD Resistor, 1/10 Watt**		
10 each of values 100Ω ~ 1.02KΩ (500 pieces)	RR1220PB-1-KIT-ND	59.95
10 each of values 1.05KΩ ~ 4.75KΩ (500 pieces)	RR1220PB-2-KIT-ND	59.95
10 each of values 4.87KΩ ~ 21KΩ (500 pieces)	RR1220PB-3-KIT-ND	59.95
10 each of values 21.5KΩ ~ 88.7KΩ (500 pieces)	RR1220PB-4-KIT-ND	59.95
10 each of values 90.9KΩ ~ 1.0M (370 pieces)	RR1220PB-5-KIT-ND	49.95
***NEW!* Susumu 0805 .5% SMD Resistor, 1/10 Watt**		
10 each of values 10Ω ~ 91Ω (390 pieces)	RR1220QD-1-KIT-ND	12.95
10 each of values 100Ω ~ 1.6KΩ (500 pieces)	RR1220PD-1-KIT-ND	15.95
10 each of values 1.65KΩ ~ 5.9KΩ (500 pieces)	RR1220PD-2-KIT-ND	15.95
10 each of values 6.04KΩ ~ 24.3KΩ (500 pieces)	RR1220PD-3-KIT-ND	15.95
10 each of values 24.9KΩ ~ 110KΩ (500 pieces)	RR1220PD-4-KIT-ND	15.95
10 each of values 115KΩ ~ 1.0MΩ (310 pieces)	RR1220PD-5-KIT-ND	9.95
***NEW!* Susumu 0805 1% SMD Resistor, 1/4 Watt**		
10 each of values .10Ω ~ 6.8Ω (300 pieces)	RL1220SF-1-KIT-ND	19.95
***NEW!* Susumu 0805 1% SMD Resistor, 1/3 Watt**		
10 each of values 12Ω ~ 100Ω (120 pieces)	RP2012SF-1-KIT-ND	13.95
10 each of values .10Ω ~ 10Ω (250 pieces)	RP2012TF-1-KIT-ND	29.95
***NEW!* Susumu 0805 2% SMD Resistor, 1/4 Watt**		
10 each of values .10Ω ~ 10Ω (220 pieces)	RL1220SG-1-KIT-ND	15.95
Yageo 5% Carbon Film, 1/6 Watt		
5 each of values 1.0, 1.2, 1.5, 1.8, 2.2Ω etc. thru 1.0MΩ (365 total pieces)	RS112-ND	16.96
5 each of values 1.1, 1.3, 1.6, 2.0, 2.4Ω etc. thru 910KΩ (360 total pieces)	RS212-ND	16.99
200 each of all 161 standard values 1.0Ω - 4.7MΩ (32,200 total pieces)	RSE200-ND	409.00

(Continued)

Digi-Key® Resistor Kits (Cont.)

Conveniently packaged into bags per value.

Description	Digi-Key Part No.	Price Each
Yageo 5% Carbon Film, 1/4 Watt		
5 ea. of values 1.0, 1.2, 1.5, 1.8, 2.2Ω etc. thru 1.0MΩ (365 total pieces)	RS125-ND	14.95
5 ea. of values 1.1, 1.3, 1.6, 2.0, 2.4Ω etc. thru 910kΩ (360 total pieces)	RS225-ND	14.95
200 ea. of all 169 standard values 1.0Ω - 10MΩ (33,800 total pieces)	RSQ200-ND	239.00
Yageo 5% Carbon Film, 1/2 Watt		
5 ea. of values 1.0, 1.2, 1.5, 1.8, 2.2Ω etc. thru 1.0MΩ (365 total pieces)	RS150-ND	16.95
5 ea. of values 1.1, 1.3, 1.6, 2.0, 2.4Ω etc. thru 910kΩ (360 total pieces)	RS250-ND	16.95
200 ea. of all 161 standard values 1.0Ω - 4.7MΩ (32,200 total pieces)	RSH200-ND	335.00
Yageo 1% Metal Film, 1/4 Watt		
5 each of values 10 ohm to 97.6 ohm (480 total pieces)	RS1X-ND	29.95
5 each of values 100 ohm to 976 ohm (480 total pieces)	RS2X-ND	29.95
5 each of values 1.00K to 9.76K (480 total pieces)	RS3X-ND	29.95
5 each of values 10.0K to 97.6K (480 total pieces)	RS4X-ND	29.95
5 each of values 100K to 1.00M (480 total pieces)	RS5X-ND	29.95
Yageo 5% Metal Oxide, 1 Watt		
5 each of values 0.47 ohm to 56 ohm (255 total pieces)	RS101-ND	26.95
5 each of values 62 ohm to 7.5K (255 total pieces)	RS201-ND	26.95
5 each of values 8.2K to 1.0M (255 total pieces)	RS301-ND	26.95
Yageo 5% Metal Oxide, 2 Watt		
5 each of values 0.47 ohm to 56 ohm (255 total pieces)	RS102-ND	29.95
5 each of values 62 ohm to 7.5K (255 total pieces)	RS202-ND	29.95
5 each of values 8.2K to 1.0M (255 total pieces)	RS302-ND	29.95
Yageo 5% Wirewound Rectangular, 5 Watt		
5 each of values 0.30 ohm to 0.91 ohm (60 pieces)	RS105-ND	23.95
4 each of values 1.0 ohm to 9.1 ohm (96 pieces)	RS205-ND	32.95
4 each of values 10 ohm to 91 ohm (96 pieces)	RS305-ND	32.95
3 each of values 100 ohm to 2.0K (96 pieces)	RS405-ND	32.95
Yageo 5% Wirewound Rectangular, 10 Watt		
2 each of all 10 watt resistor values (168 total pieces)	RS110-ND	72.95
Yageo America 0402 1% Thick Film Chip Resistor Assortments, 1/16 Watt		
50 each of values 1.00 ohm to 75.0 ohm (850 total pieces)	PHL1-KIT-ND	20.95
50 each of values 100 ohm to 910 ohm (1,100 pieces)	PHL2-KIT-ND	25.95
50 each of values 1.00K ohm to 9.53K ohm (1,650 pieces)	PHL3-KIT-ND	35.95
50 each of values 10.0K ohm to 97.6K ohm (2,800 pieces)	PHL4-KIT-ND	59.95
50 each of values 100K ohm to 1.00M ohm (1,600 pieces)	PHL5-KIT-ND	39.95
Yageo America 0603 1% Thick Film Chip Resistor Assortments, 1/10 Watt		
50 each of values 1.00 ohm to 7.50 ohm (1,100 total pieces)	PHH1-KIT-ND	19.95
50 each of values 10.0 ohm to 97.6 ohm (5,650 total pieces)	PHH2-KIT-ND	79.95
50 each of values 100 ohm to 976 ohm (5,700 total pieces)	PHH3-KIT-ND	79.95
50 each of values 1.00K ohm to 9.76K ohm (5,700 total pieces)	PHH4-KIT-ND	79.95
50 each of values 10.0K ohm to 97.6K ohm (5,700 total pieces)	PHH5-KIT-ND	79.95
50 each of values 100K ohm to 1.00M ohm (5,800 total pieces)	PHH6-KIT-ND	79.95
Yageo America 0805 1% Thick Film Chip Resistor Assortments, 1/8 Watt		
50 each of values 1.00 ohm to 9.76 ohm (5,200 total pieces)	PHC1A-KIT-ND	79.95
200 each of values 1.00 ohm to 9.76 ohm (20,800 total pieces)	PHC1-KIT-ND	169.95
50 each of values 10.0 ohm to 97.6 ohm (5,700 total pieces)	PHC2A-KIT-ND	79.95
200 each of values 10.0 ohm to 97.6 ohm (22,800 total pieces)	PHC2-KIT-ND	169.95
50 each of values 100 ohm to 976 ohm (5,700 total pieces)	PHC3A-KIT-ND	79.95
200 each of values 100 ohm to 976 ohm (22,800 total pieces)	PHC3-KIT-ND	169.95
50 each of values 1.00K ohm to 9.76K ohm (5,700 total pieces)	PHC4A-KIT-ND	79.95
200 each of values 1.00K ohm to 9.76K ohm (22,800 total pieces)	PHC4-KIT-ND	169.95
50 each of values 10.0K ohm to 97.6K ohm (5,650 total pieces)	PHC5A-KIT-ND	79.95
200 each of values 10.0K ohm to 97.6K ohm (22,600 total pieces)	PHC5-KIT-ND	169.95
50 each of values 100K ohm to 1.00M ohm (5,750 total pieces)	PHC6A-KIT-ND	79.95
200 each of values 100K ohm to 1.00M ohm (23,000 total pieces)	PHC6-KIT-ND	169.95
Yageo America 1206 1% Thick Film Chip Resistor Assortments, 1/4 Watt		
50 each of values 1.00 ohm to 9.76 ohm (5,700 total pieces)	PHF1A-KIT-ND	125.95
200 each of values 1.00 ohm to 9.76 ohm (22,800 total pieces)	PHF1-KIT-ND	239.95
50 each of values 10.0 ohm to 97.6 ohm (5,700 total pieces)	PHF2A-KIT-ND	125.95
200 each of values 10.0 ohm to 97.6 ohm (22,800 total pieces)	PHF2-KIT-ND	239.95
50 each of values 100 ohm to 976 ohm (5,700 total pieces)	PHF3A-KIT-ND	125.95
200 each of values 100 ohm to 976 ohm (22,800 total pieces)	PHF3-KIT-ND	239.95
50 each of values 1.00K ohm to 9.76K ohm (5,700 total pieces)	PHF4A-KIT-ND	125.95
200 each of values 1.00K ohm to 9.76K ohm (22,800 total pieces)	PHF4-KIT-ND	239.95
50 each of values 10.0K ohm to 97.6K ohm (5,650 total pieces)	PHF5A-KIT-ND	125.95
200 each of values 10.0K ohm to 97.6K ohm (22,600 total pieces)	PHF5-KIT-ND	239.95
50 each of values 100K ohm to 1.00M ohm (5,750 total pieces)	PHF6A-KIT-ND	125.95
200 each of values 100K ohm to 1.00M ohm (23,000 total pieces)	PHF6-KIT-ND	239.95
Yageo America 0402 5% Thick Film Chip Resistor Assortments, 1/16 Watt		
50 each of values 1.0, 2.0, 3.0, 3.9 ohm etc. to 1.0M ohm (2,600 total pieces)	PHJ1A-KIT-ND	45.95
200 each of values 1.0, 2.0, 3.0, 3.9 ohm etc. to 1.0M ohm (10,400 total pieces)	PHJ1-KIT-ND	85.95
50 each of values 1.1, 2.2, 3.3, 4.3 ohm etc. to 680K ohm (2,550 total pieces)	PHJ2A-KIT-ND	45.95
200 each of values 1.1, 2.2, 3.3, 4.3 ohm etc. to 680K ohm (10,200 pieces)	PHJ2-KIT-ND	85.95
Yageo America 0603 5% Thick Film Chip Resistor Assortments, 1/10 Watt		
50 each of values 1.0, 1.2, 1.5, 1.8 ohm etc. to 910K ohm (3,600 total pieces)	PHG1A-KIT-ND	49.95
200 each of values 1.0, 1.2, 1.5, 1.8 ohm etc. to 910K ohm (14,400 total pieces)	PHG1-KIT-ND	89.95
50 each of values 1.1, 1.3, 1.6, 2.2 ohm etc. to 1.0M ohm (3,600 total pieces)	PHG2A-KIT-ND	49.95
200 each of values 1.1, 1.3, 1.6, 2.2 ohm etc. to 1.0M ohm (14,400 pieces)	PHG2-KIT-ND	89.95
Yageo America 0805 5% Thick Film Chip Resistor Assortments, 1/8 Watt		
50 each of values 1.0, 1.2, 1.5, 1.8 ohm etc. to 1.0M ohm (3,650 total pieces)	PHA1A-KIT-ND	59.95
200 each of values 1.0, 1.2, 1.5, 1.8 ohm etc. to 1.0M ohm (14,600 total pieces)	PHA1-KIT-ND	109.95
50 each of values 1.1, 1.3, 1.6, 2.0 ohm etc. to 910K ohm (3,600 total pieces)	PHA2A-KIT-ND	59.95
200 each of values 1.1, 1.3, 1.6, 2.0 ohm etc. to 910K ohm (14,400 pieces)	PHA2-KIT-ND	109.95
Yageo America 1206 5% Thick Film Chip Resistor Assortments, 1/4 Watt		
50 each of values 1.0, 1.2, 1.5, 1.8 ohm etc. to 910K ohm (3,600 total pieces)	PHE1A-KIT-ND	59.95
200 each of values 1.0, 1.2, 1.5, 1.8 ohm etc. to 910K ohm (14,400 total pieces)	PHE1-KIT-ND	109.95
50 each of values 1.1, 1.3, 1.6, 2.0 ohm etc. to 1.0M ohm (3,600 total pieces)	PHE2A-KIT-ND	59.95
200 each of values 1.1, 1.3, 1.6, 2.0 ohm etc. to 1.0M ohm (14,400 pieces)	PHE2-KIT-ND	109.95

Digi-Key® Thermistor Kits

Conveniently packaged in a plastic box with bin guide for easy storage and quick access.

Description	Digi-Key Part No.	Price Each
Keystone Thermistors		
PTC - 2 each of 10 popular thermistors (20 total pieces)	KCPTC1-KIT-ND	37.95
NTC - 2 each of 15 popular thermistors (30 total pieces)	KCNTC-KIT-ND	39.96

Digi-Key® Miscellaneous Kits

Conveniently packaged in a plastic box with bin guide for easy storage and quick access.

Description	Digi-Key Part No.	Price Each
3M Heatshrink Precut Lengths		
FP-301 Series - 50 each of 5 sizes and 100 of 1 size (350 total pieces)	FP-KIT-ND	15.95
VFP-876 Series - 50 each of 5 sizes and 100 of 1 size (350 total pieces)	VFP-KIT-ND	16.95
3M Colored Heatshrinkable Tubing		
FP-301 Series- 1-5 ft. tubing of each color in 8 series (55 total pieces)	FPC-KIT-ND	62.95
CW Industries Switches		
Various quantities of 14 switches (130 total pieces)	SW-KIT-ND	69.95
Daburn Shrinkable Tubing, Polyolefin: Black		
5 feet of 6 popular sizes (30 total feet of tubing)	STA-KIT-ND	10.95
Diodes SOT-23 SMD Zener Diode Kit		
10 each of 18 popular diodes (180 total pieces)	BZX2-KIT-ND	23.79
ECS, Inc. Crystals		
3 each of 27 popular crystals (81 total pieces)	XC-KIT-ND	169.00
Hamlin Magnetic Switches		
Various quantities of 18 switches (22 total pieces)	HE1-KIT-ND	69.95
1 each of 18 switches (18 total pieces)	HE2-KIT-ND	49.95
Hardware - 100 each of machine screws, hex nuts and lock washers in each of the following kits:		
Slotted - (1,600 total pieces)	1600-KIT-ND	17.95
Slotted - (1,600 total pieces)	1601-KIT-ND	27.95
Phillips - (1,600 total pieces)	1602-KIT-ND	17.95
Phillips - (1,600 total pieces)	1603-KIT-ND	27.78
Nylon - (1,500 total pieces)	1604-KIT-ND	53.94
Phillips, Stainless Steel - (1,400 total pieces)	1607-KIT-ND	39.95
Phillips, Stainless Steel - (1,500 total pieces)	1608-KIT-ND	79.95
Hardware (Metric) - 100 each of machine screws, hex nuts, lock washers and flat washers in each of the following kits:		
Metric Phillips, Zinc Plated - (1,500 total pieces)	1605-KIT-ND	59.95
Metric Phillips, Zinc Plated - (1,500 total pieces)	1606-KIT-ND	99.95
Johnson Components Plugs and Jacks		
10 each of 15 popular plugs and jacks (150 total pieces)	J100-KIT-ND	76.95
***NEW!* On-Semiconductor Zener Regulator Diodes Design Kit**		
180 pieces of 18 popular values	ZENREGA-KIT-ND	18.95
***NEW!* On-Semiconductor Analog Switches Logic Design Kit**		
180 pieces of 18 popular values	ANLGSWITCHA-KIT-ND	75.95
***NEW!* On-Semiconductor Bipolar Power Transistors Design Kit**		
44 pieces of 18 popular values	BIPAUDIOA-KIT-ND	525.00
***NEW!* On-Semiconductor ESD Protection Devices Design Kit**		
180 pieces of 18 popular values	ZENESDA-KIT-ND	25.95
***NEW!* On-Semiconductor MiniGate™ Logic Design Kit**		
180 pieces of 18 popular values	MINIGATEA-KIT-ND	38.99
***NEW!* On-Semiconductor Schottky Rectifier SMD Sample Kit**		
227 pieces of 30 popular values	SCHOTTRECA-KIT-ND	149.95
***NEW!* On-Semiconductor Small Signal BRT Design Kit**		
180 pieces of 18 popular values	SMSIGBRTA-KIT-ND	39.95
***NEW!* On-Semiconductor Small Signal Diodes Design Kit**		
180 pieces of 18 popular values	SMSIGDIODEA-KIT-ND	31.95
***NEW!* On-Semiconductor Thyristor SCR Design Kit**		
84 pieces of 18 popular values	SCRA-KIT-ND	119.95
***NEW!* On-Semiconductor Thyristor TRIAC Design Kit**		
72 pieces of 18 popular values	TRIACA-KIT-ND	125.95
***NEW!* On-Semiconductor TO-220 Rectifier Design Kit**		
68 pieces of 17 popular values	RECTO220A-KIT-ND	185.95
***NEW!* On-Semiconductor TVS Design Kit**		
180 pieces of 18 popular values	TVSA-KIT-ND	49.95
***NEW!* On-Semiconductor Ultrafast Surface Mount Rectifier Design Kit**		
131 pieces of 18 popular values	ULTRAFSTRECA-KIT-ND	99.95
Panasonic LEDs		
10 each of 18 popular LEDs (180 total pieces)	LED-KIT-ND	33.98

ig.	Isolation Voltage	Current Transfer Ratio - Typ.	VCEO (Max.)	Typ. t_{on}/t_{off} (µsec.)	Pkg.	Digi-Key Part No.	Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Size	Pricing
1	5000	80-600%	80	3/5	Dip	PS2501-1-ND	.42	.35	.30	—	—	—
2	5000	80-600%	80	3/5	Dip	PS2501-2-ND	.87	.73	.62	—	—	—
3	5000	80-600%	80	3/5	Dip	PS2501-4-ND	1.47	1.23	1.04	—	—	—
1	5000	50-400%	70	5/7	Dip	PS2501A-1-A-ND† **NEW!**	.36	.30	.26	—	—	—
1	5000	50-400%	70	5/7	SMT	PS2501AL-1-ND§† **NEW!**	.41	.34	.29	PS2501AL-1TR-ND† **NEW!**	1,000	210.00
1	5000	80-600%	80	3/5	SMT	PS2501L-1-ND	.51	.43	.36	—	—	—
2	5000	80-600%	80	3/5	SMT	PS2501L-2-ND	1.02	.85	.72	—	—	—
3	5000	80-600%	80	3/5	SMT	PS2501L-4-ND	1.92	1.60	1.36	—	—	—
4	5000	200-2000%	40	100/100	Dip	PS2502-1-ND	.60	.50	.43	—	—	—
5	5000	200-2000%	40	100/100	Dip	PS2502-2-ND	1.44	1.20	1.02	—	—	—
6	5000	200-2000%	40	100/100	Dip	PS2502-4-ND	2.15	1.94	1.65	—	—	—
16	5000	100-400%	40	20/30	Dip	PS2503-1-A-ND† **NEW!**	.92	.77	.65	—	—	—
17	5000	100-400%	40	20/30	Dip	PS2503-2-A-ND† **NEW!**	1.80	1.50	1.27	—	—	—
18	5000	100-400%	40	20/30	Dip	PS2503-4-A-ND† **NEW!**	2.73	2.46	2.09	—	—	—
16	5000	100-400%	40	20/30	SMT	PS2503L-1A-ND§† **NEW!**	.99	.83	.70	PS2503L-1ATR-ND† **NEW!**	2,000	495.00/M
17	5000	100-400%	40	20/30	SMT	PS2503L-2-A-ND† **NEW!**	1.86	1.55	1.31	—	—	—
18	5000	100-400%	40	20/30	SMT	PS2503L-4-A-ND† **NEW!**	2.75	2.48	2.11	—	—	—
7	5000	80-600%	80	3/5	Dip	PS2505-1-ND	.51	.43	.36	—	—	—
8	5000	80-600%	80	3/5	Dip	PS2505-2-ND	1.17	.98	.83	—	—	—
9	5000	80-600%	80	3/5	Dip	PS2505-4-ND	2.37	1.98	1.67	—	—	—
7	5000	80-600%	80	3/5	SMT	PS2505L-1-ND	.60	.50	.43	—	—	—
8	5000	80-600%	80	3/5	SMT	PS2505L-2-ND	1.23	1.03	.87	—	—	—
9	5000	80-600%	80	3/5	SMT	PS2505L-4-ND	2.13	1.92	1.63	—	—	—
10	5000	200-2000%	40	100/100	Dip	PS2506-1-ND	.78	.65	.55	—	—	—
11	5000	200-2000%	40	100/100	Dip	PS2506-2-ND	1.56	1.30	1.10	—	—	—
12	5000	200-2000%	40	100/100	Dip	PS2506-4-ND	2.60	2.34	2.00	—	—	—
1	5000	50-200%	120	5/25	Dip	PS2513-1-A-ND† **NEW!**	.60	.50	.43	—	—	—
1	5000	50-200%	120	5/25	SMT	PS2513L-1-ND§† **NEW!**	.64	.54	.46	PS2513L-1TR-ND† **NEW!**	2,000	339.00/M
1	5000	20-80%	80	3/5	Dip	PS2521-1-A-ND† **NEW!**	1.08	.90	.76	—	—	—
1	5000	20-80%	80	3/5	SMT	—	—	—	—	PS2521L-1TR-ND† **NEW!**	1,000	600.00
2	5000	20-80%	80	3/5	SMT	PS2521L-2-ND† **NEW!**	2.30	1.92	1.62	—	—	—
7	5000	20-80%	80	3/5	Dip	PS2525-1-A-ND† **NEW!**	1.29	1.08	.91	—	—	—
13	5000	1500-6500%	300	100/100	Dip	PS2532-1-ND	.84	.70	.60	—	—	—
14	5000	1500-6500%	300	100/100	Dip	PS2532-2-ND	1.77	1.48	1.25	—	—	—
15	5000	1500-6500%	300	100/100	Dip	PS2532-4-ND	2.75	2.48	2.11	—	—	—
13	5000	1500-6500%	300	100/100	SMT	PS2532L-1-ND	.93	.78	.66	—	—	—
14	5000	1500-6500%	300	100/100	SMT	PS2532L-2-ND	2.10	1.75	1.48	—	—	—
15	5000	1500-6500%	300	100/100	SMT	PS2532L-4-ND	3.55	3.20	2.73	—	—	—
13	5000	1500-6500%	350	100/100	Dip	PS2533-1-ND	1.50	1.25	1.06	—	—	—
14	5000	1500-6500%	350	100/100	Dip	PS2533-2-ND	2.98	2.68	2.29	—	—	—
1	5000	80-400%	80	3/5	Dip	PS2561-1-V-ND‡	.57	.48	.41	—	—	—
2	5000	80-400%	80	3/5	Dip	PS2561-2-V-ND‡	1.14	.95	.81	—	—	—
3	5000	80-400%	80	3/5	Dip	PS2561-4-V-ND‡	2.65	2.39	2.04	—	—	—
1	5000	50-300%	70	5/7	Dip	PS2561A-1-A-ND† **NEW!**	.45	.38	.32	—	—	—
1	5000	50-300%	70	5/7	SMT	PS2561AL-1CT-ND§† **NEW!**	.47	.39	.33	PS2561AL-1TR-ND† **NEW!**	2,000	232.50/M
1	5000	80-400%	80	3/5	SMT	PS2561L-1-V-ND‡	.63	.53	.45	—	—	—
2	5000	80-400%	80	3/5	SMT	PS2561L-2-V-ND‡	1.23	1.03	.87	—	—	—
1	5000	80-400%	80	3/5	Dip	PS2561L1-1-V-ND*‡	.63	.53	.45	—	—	—
1	5000	80-400%	80	3/5	SMT	PS2561L2-1-V-ND*‡	.63	.53	.45	—	—	—
4	5000	200-2000%	40	100/100	Dip	PS2562-1-A-ND† **NEW!**	1.02	.85	.72	—	—	—
4	5000	200-2000%	40	100/100	SMT	PS2562L-1-ND§† **NEW!**	.89	.74	.63	PS2562L-1TR-ND† **NEW!**	2,000	442.50/M
7	5000	80-400%	80	3/5	Dip	PS2565-1-V-ND‡	.69	.58	.49	—	—	—
8	5000	80-400%	80	3/5	Dip	PS2565-2-V-ND‡	1.41	1.18	1.00	—	—	—
7	5000	80-400%	80	3/5	SMT	PS2565L-1-V-ND‡	.72	.60	.51	—	—	—
8	5000	80-400%	80	3/5	SMT	PS2565L-2-V-ND‡	1.44	1.20	1.02	—	—	—
10	5000	200-2000%	40	100/100	Dip	PS2566-1-A-ND† **NEW!**	1.02	.85	.72	—	—	—
10	5000	200-2000%	40	100/100	SMT	PS2566L-1-ND§† **NEW!**	1.07	.89	.75	PS2566L-1TR-ND† **NEW!**	2,000	499.50/M
1	3750	50-300%	40	3/5	SOP	PS2701-1-ND	.60	.50	.43	PS2701-1TR-ND	3,500	333.00/M
1	3750	50-300%	70	5/7	SOP	PS2701A-1-ND§† **NEW!**	.48	.40	.34	PS2701A-1TR-ND† **NEW!**	3,500	240.00/M
4	3750	200-2000+%	40	200/200	SOP	PS2702-1-ND	.90	.75	.64	PS2702-1TR-ND	3,500	500.00/M
1	3750	50-400%	120	10/10	SOP	PS2703-1-ND	.66	.55	.47	PS2703-1TR-ND	3,500	367.00/M
2	3750	50-400%	120	10/10	SOP	PS2703-2-ND	1.44	1.20	1.02	—	—	—
7	3750	50-300%	40	3/5	SOP	PS2705-1-ND	.69	.58	.49	PS2705-1TR-ND	3,500	383.00/M
7	3750	50-300%	70	5/7	SOP	PS2705A-1-ND§† **NEW!**	.51	.43	.36	PS2705A-1TR-ND† **NEW!**	3,500	255.00/M
10	3750	200-2000%	40	200/200	SOP	PS2706-1-ND§† **NEW!**	.86	.72	.61	PS2706-1TR-ND† **NEW!**	3,500	457.50/M
13	2500	1500-4000%	300	100/100	SOP	PS2732-1-ND§† **NEW!**	1.07	.89	.75	PS2732-1TR-ND† **NEW!**	3,500	540.00/M
13	2500	1500-4000%	350	100/100	SOP	PS2733-1A-ND§† **NEW!**	.99	.83	.70	PS2733-1ATR-ND† **NEW!**	3,500	525.00/M
1	3750	50-400+%	40	4/5	SOP	PS2761-1-ND	.60	.50	.43	—	—	—
7	3750	50-400%	40	4/5	SOP	PS2765-1A-ND§† **NEW!**	.72	.60	.51	PS2765-1ATR-ND† **NEW!**	3,500	337.50/M
1	2500	80-600%	80	3/5	SSOP	PS2801-1CT-ND§	.75	.63	.53	PS2801-1TR-ND	3,500	417.00/M
3	2500	80-600%	80	3/5	SSOP	PS2801-4-ND	2.88	2.59	2.21	PS2801-4TR-ND	2,500	1773.00/M
1	2500	50-400%	70	5/7	SSOP	PS2801A-1-ND§† **NEW!**	.63	.53	.45	PS2801A-1TR-ND† **NEW!**	3,500	315.00/M
4	2500	200-2000+%	40	200/200	SSOP	PS2802-1CT-ND§	1.65	1.38	1.17	PS2802-1TR-ND	3,500	825.00/M

ut Tape pricing * 10.16mm (0.4") wide row spacing; standard spacing is 7.62mm (0.3") ‡ VDE Approved † Lead Free/RoHS Compliant

Fig. 1

Photo Transistor Output Dip or SMT

Fig. 2

Dual Photo Transistor Output Dip or SMT

Fig. 3

Quad Photo Transistor Output Dip or SMT

Fig. 4

Photo Darlington Output Dip or SMT

Fig. 5

Dual Photo Darlington Output Dip or SMT

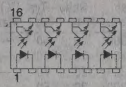
Fig. 6

Quad Photo Darlington Output Dip or SMT

Fig. 7

Photo Transistor Output Dip or SMT

Fig. 8

Dual Photo Transistor Output Dip or SMT

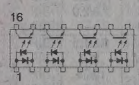
Fig. 9

Quad Photo Transistor Output Dip or SMT

Fig. 10

Photo Darlington Output Dip

Fig. 11

Dual Photo Darlington Output Dip

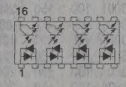
Fig. 12

Quad Photo Darlington Output Dip

Fig. 13

Photo Darlington Output Dip or SMT

Fig. 14

Dual Photo Darlington Output Dip or SMT

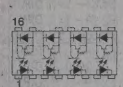
Fig. 15

Quad Photo Darlington Output Dip or SMT

Fig. 16 *NEW!*

Photo Transistor Output Dip or SMT

Fig. 17 *NEW!*

Photo Transistor Output Dip or SMT

FAIRCHILD
SEMICONDUCTOR

Optoisolators

Fig. 1 Photo-Transistor Output

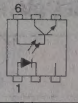


Fig. 2 Photo-Darlington Output

Fig. 3 High-Speed Transistor Output

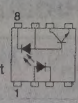


Fig. 4 High Gain Split Darlington Output

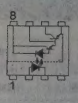


Fig. 5 AC Input Photo-Transistor Output

Fig. 6 High Voltage Photo-Darlington Output

Fig. 7 Dual Channel High Speed Transistor Output

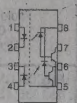


Fig. 8 Dual Split Darlington Output

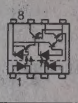


Fig. 9 Dual Photo Transistor Output

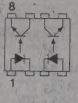


Fig. 10 SMT Dual Photo Transistor Output MCT9001QT-ND not SMT

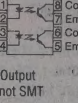


Fig. 11 Non-zero Crossing Triac Output

Fig. 12 SCR Output

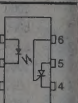


Fig. 13 Darlington Output

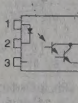


Fig. 14 SMT. Transistor Output

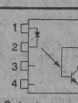


Fig. 15 SMT. Darlington Output

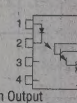


Fig. 16 SMT. AC Input Transistor Output

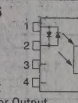


Fig. 17 Zero-Cross Triac Output

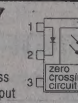


Fig. 18 SMT Dual Channel Darlington Output

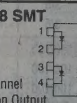


Fig. 19

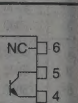


Photo Transistor Output Optoisolators

Fig.	Iso. Volt.	Current Transfer Ratio - Typ. (%) (Min.	Typ.	Max.)	V_{CEO} (Max.)	Typ. t_{on}/t_{off} (µsec.)	Pkg. Type	Digi-Key Part No.	Price Each 1	10	100
	5300	20	50	—	30	2.0/2.0	DIP	4N25FS-ND	.56	.45	.34
	5300	20	70	—	30	2.0/2.0	SMT	4N25SM-ND	.56	.45	.34
	5300	20	70	—	30	2.0/2.0	DIP	4N25MFS-ND	.56	.45	.34
	5300	20	50	—	30	2.0/2.0	DIP	4N26FS-ND	.56	.45	.34
1	5300	20	70	—	30	2.0/2.0	DIP	4N26MFS-ND	.56	.45	.34
	5300	20	50	—	30	2.0/2.0	DIP	4N27-ND	.56	.45	.34
	5300	10	50	—	30	2.0/2.0	DIP	4N27MFS-ND	.56	.45	.34
	5300	20	50	—	30	2.0/2.0	DIP	4N28-ND	.56	.45	.34
	5300	10	50	—	30	2.0/2.0	DIP	4N28MFS-ND	.56	.45	.34
	5300	100	—	—	30	5.0/40	DIP	4N29-ND	.55	.42	.32
	5300	100	—	—	30	5.0/40	DIP	4N30-ND	.55	.42	.32
2	5300	50	—	—	30	5.0/40	DIP	4N31-ND	.55	.42	.32
	5300	500	—	—	30	5.0/100	DIP	4N32-ND	.55	.42	.32
	5300	500	—	—	30	5.0/100	SMT	4N32S-ND	.55	.42	.32
	5300	500	—	—	30	5.0/100	DIP	4N33-ND	.55	.42	.32
	5300	100	300	—	30	2.0/2.0	DIP	4N35FS-ND	.56	.45	.34
	5300	100	—	—	30	2.0/2.0	SMT	4N35SFS-ND	.56	.45	.34
	5300	100	300	—	30	2.0/2.0	SMT	4N35SM-ND	.56	.45	.34
	5300	100	300	—	30	2.0/2.0	DIP	4N35MFS-ND	.56	.45	.34
1	5300	100	—	—	30	2.0/2.0	DIP	4N35300-ND†	.56	.45	.34
	5300	100	300	—	30	2.0/2.0	DIP	4N36-ND	.56	.45	.34
	5300	100	300	—	30	2.0/2.0	DIP	4N36M-ND	.56	.45	.34
	5300	100	300	—	30	2.0/2.0	DIP	4N37FS-ND	.56	.45	.34
	5300	100	300	—	30	2.0/2.0	DIP	4N37MFS-ND	.56	.45	.34
	5300	20	—	—	80	—	DIP	4N38-ND	.87	.66	.50
3	2500	7	18	50	15V	1.5/1.5	DIP	6N135QT-ND	.86	.72	.58
	2500	19	27	50	15V	.8/.8	DIP	6N136QT-ND	.86	.72	.58
4	2500	300	1300	—	7V	10/35	DIP	6N138QT-ND	.83	.69	.56
	2500	400	1100	—	18V	1/7	DIP	6N139QT-ND	.86	.72	.58
	5300	40	—	80	70	6.0/5.5	DIP	CNY17F1FS-ND	.52	.40	.30
19	5300	63	—	125	70	6.0/5.5	DIP	CNY17F2FS-ND	.52	.40	.30
	5300	100	—	200	70	6.0/5.5	DIP	CNY17F3FS-ND	.52	.40	.30
	5300	40	—	80	70	5.0/34	DIP	CNY171FS-ND	.52	.40	.30
	5300	40	60	80	70	5.0/34	DIP	CNY171MFS-ND	.57	.46	.35
	5300	63	100	125	70	8.0/39	DIP	CNY172M-ND	.58	.46	.35
	5300	100	150	200	70	8.0/39	DIP	CNY173M-ND	.58	.46	.35
	5300	40	60	80	70	5.0/34	DIP	CNY171300-ND †	.52	.40	.30
1	5300	63	100	125	70	8.0/39	DIP	CNY172FS-ND	.52	.40	.30
	5300	63	100	125	70	8.0/39	DIP	CNY172300-ND †	.52	.40	.30
	5300	100	150	200	70	8.0/39	DIP	CNY173FS-ND	.52	.40	.30
	5300	100	150	200	70	8.0/39	DIP	CNY173300-ND †	.52	.40	.30
	5300	160	—	320	70	8.0/39	DIP	CNY174FS-ND	.52	.40	.30
	5300	160	—	320	70	8.0/39	DIP	CNY174300-ND †	.52	.40	.30
	5300	50	120	—	70	—	DIP	H11A1FS-ND	.56	.45	.34
	5300	50	120	—	30	2.0/2.0	SMT	H11A1SM-ND	.56	.45	.34
	5300	50	120	—	30	2.0/2.0	DIP	H11A1MFS-ND	.56	.45	.34
1	5300	50	120	—	30	2.0/2.0	DIP	H11A1300-ND †	.56	.45	.34
	5300	20	—	—	70	—	DIP	H11A2FS-ND	.56	.45	.34
	5300	20	—	—	30	2.0/2.0	DIP	H11A3FS-ND	.56	.45	.34
	2500	30	—	—	30	2.0/2.0	DIP	H11A5FS-ND	.56	.45	.34
	5300	20	—	—	30	—	DIP	H11AA1300-ND †	.62	.47	.35
	2500	20	—	—	30	2.0/2.0	DIP	H11AA1-ND	.62	.47	.35
5	2500	10	—	—	30	2.0/2.0	DIP	H11AA2-ND	.60	.46	.34
	2500	50	—	—	30	2.0/2.0	DIP	H11AA3-ND	.60	.46	.34
	2500	100	—	—	30	2.0/2.0	DIP	H11AA4-ND	.72	.54	.41
	4000	300	—	—	30	5.0/5.0	DIP	H11AG1-ND	.76	.64	.51
1	5300	100	—	300	70	15.0/15.0	DIP	H11AV1AM-ND*	.70	.53	.40
	5300	100	—	300	70	15.0/15.0	DIP	H11AV1M-ND	.67	.51	.38
	5300	500	—	—	25	—	DIP	H11B1-ND	.55	.42	.32
2	5300	500	—	—	25	—	DIP	H11B1300-ND †	.55	.42	.32
	5300	200	—	—	25	—	DIP	H11B2-ND	.55	.42	.32
	5300	100	—	—	55	25.0/18.0	DIP	H11B255-ND	.55	.42	.32
	5300	20	—	—	300	—	DIP	H11D1FS-ND	.93	.70	.53
	5300	20	—	—	300	5.0/5.0	DIP	H11D1300-ND †	.87	.66	.50
1	5300	20	—	—	300	—	DIP	H11D2-ND	.93	.70	.53
	5300	20	—	—	300	5.0/5.0	DIP	H11D2300-ND †	.93	.70	.53
	5300	20	—	—	200	—	DIP	H11D3-ND	.93	.70	.53
	4000	1000	—	—	100	5/100	DIP	H11G1-ND	.90	.68	.51
	5300	500	—	—	100	5.0/100	SMT	H11G1S-ND	.90	.68	.51
6	4000	1000	—	—	80	5/100	DIP	H11G2-ND	.90	.68	.51
	5300	200	—	—	25	—	DIP	H11G3-ND	.82	.62	.47
	4000	—	250	—	55	50/500	DIP	H11G45QT-ND	1.40	1.12	.84
3	2500	12	27	—	15V	.45/.3	DIP	HCPL2503QT-ND	.97	.81	.65
7	2500	16	18	—	—	4.5/.5	DIP	HCPL2530-ND	1.94	1.56	1.17
	2500	19	27	—	—	.45/.3	DIP	HCPL2531-ND	1.69	1.35	1.02
8	2500	300	—	—	7V	20/35	DIP	HCPL2730QT-ND	1.87	1.50	1.13
	2500	400	—	—	18V	2/10	DIP	HCPL2731QT-ND	1.93	1.54	1.16
	2500	150	225	—	30	5/5	DIP	MCT210-ND	.77	.58	.44
1	5300	20	60	—	30	6/5	DIP	MCT2200300-ND †	.52	.40	.30
	2500	20	50	—	30	5/5	DIP	MCT26QT-ND	.33	.31	.28
	2500	45	67	—	30	7/7	DIP	MCT271-ND	.52	.40	.30

Fig.	Iso. Volt.	Current Transfer Ratio - Typ. (%) (Min.	Typ.	Max.)	V_{CEO} (Max.)	Typ. t_{on}/t_{off} (µsec.)	Pkg. Type	Digi-Key Part No.	Price Each 1	10	100
	2500	20	60	—	30	5/5	DIP	MCT2E-ND	.51	.39	.29
	5300	20	70	—	30	2.8/4.5	DIP	MCT2EM-ND	.58	.46	.35
	2500	20	70	—	30	5/5	DIP	MCT2-ND	.51	.39	.29
1	5300	20	70	—	30	2.8/4.5	DIP	MCT2M-ND	.51	.39	.29
	2500	120	225	—	30	6/19	DIP	MCT5201-ND	.76	.64	.51
	2500	70	400	—	30	10/12	DIP	MCT5210-ND	.76	.64	.51
	2500	150	350	—	30	20/20	DIP	MCT5211-ND	.81	.68	.54
	2500	50	—	—	30	2.4/15	DIP	MCT61-ND	.84	.63	.48
9	2500	100	—	—	30	2.4/15	DIP	MCT62-ND	.90	.68	.51
	2500	10	—	—	30	5.0/25.0	SMT	MCT62S-ND	.90	.68	.51
	2500	20	—	—	30	2.4/15	DIP	MCT6-ND	.84	.63	.48
10	2500	50	—	600	55	2.4/2.4	DIP	MCT9001-ND	.96	.72	.54
1	5300	100	300	—	70	10/10	DIP	TIL111-ND	.52	.40	.30
13	5300	300	450	—	30	3.5/95	DIP	MOC119-ND	.66	.50	.37
	3000	40	60	80	70	3.0/2.8	SMT	MOC205M-ND	.67	.51	.38
14	3000	63	94	125	70	3.0/2.8	SMT	MOC206M-ND	.67	.51	.38
	3000	100	150	200	70	3.0/2.8	SMT	MOC207M-ND	.67	.51	.38
	3000	40	80	125	70	3.0/2.8	SMT	MOC208M-ND	.67	.51	.38
	3000	20	65	—	30	7.5/5.7	SMT	MOC211M-ND	.67	.51	.38
	3000	50	90	—	30	7.5/5.7	SMT	MOC212M-ND	.67	.51	.38
14	3000	100	140	—	30	7.5/5.7	SMT	MOC213M-ND	.67	.51	.38
	3000	20	—	—	30	4.0/4.0	SMT	MOC215M-ND	.67	.51	.38
	3000	50	—	—	30	4.0/4.0	SMT	MOC216M-ND	.67	.51	.38
	3000	100	—	—	30	4.0/4.0	SMT	MOC217M-ND	.67	.51	.38
15	3000	500	1000	—	30	3.5/95	SMT	MOC223M-ND	.93	.70	.53
16	3000	20	150	—	30	—	SMT	MOC256M-ND	.85	.71	.57
	5300	500	—	—	50	3.5/95	DIP	MOC8020-MQT-ND	1.05	.99	.91
	5300	500	—	—	50	3.5/95	DIP	MOC8020-ND	.66	.50	.37
13	5300	1000	—	—	50	3.5/95	DIP	MOC8021-ND	.66	.50	.37
	5300	300	—	—	50	3.5/95	DIP	MOC8030-ND	.72	.54	.41
	5300	500	—	—	50	3.5/95	DIP	MOC8050-ND	.77	.58	.44
1	5300	50	100	—	30	20.0/20.0	DIP	MOC8100M-ND	.51	.39	.29
	5300	50	65	80	30	7.5/5.7	DIP	MOC8101-ND	.58	.44	.33
	5300	50	—	150	70	7.5/5.7	DIP	MOC8106-ND	.54	.41	.31
19	5300	20	—	—	70	6.0/5.5	DIP	MOC8111-ND	.48	.36	.27
	5300	50	—	—	70	6.0/5.5	DIP	MOC8112-ND	.48	.36	.27
	5300	100	—	—	70	6.0/5.5	DIP	MOC8113-ND	.48	.36	.27
	2500	100	150	200	70	3.0/2.8	SMT	MOCD207M-ND	.97	.81	.65
	2500	40	—	125	70	3.0/2.8	SMT	MOCD208M-ND	1.00	.84	.67
10	2500	20	65	—	30	7.5/5.7	SMT	MOCD211M-ND	.90	.75	.60
	2500	100	—	—	70	3.0/2.8	SMT	MOCD213M-ND	.99	.83	.66
	2500	100	130	—	30	7.5/5.7	SMT	MOCD217M-ND	1.00	.84	.67
18	2500	500	1000	—	30	3.5/95	SMT	MOCD223M-ND	.97	.81	.65

† VDE approval * .4" Lead Spacing

SCR and Triac Output Optoisolators

Fig.	Iso. Volt.	Max I_F Trigger (mA)	Min. Blocking Voltage	Max. I_{DRM}	Pkg. Type	Digi-Key Part No.	Price Each 1	10	100
	5300	15	250V	.100	DIP	MOC3010M-ND	.82	.62	.47
	5300	10	250V	.100	DIP	MOC3011M-ND	.82	.62	.47
	5300	5	250V	.100	DIP	MOC3012M-ND	.77	.58	.44
	5300	5	250V	.100	SMT	MOC3012SM-ND	.77	.58	.44
	5300	30	400V	.100	DIP	MOC3020MFS-ND	.82	.62	.47
11	5300	15	400V	.100	DIP	MOC3021MFS-ND	.77	.58	.44
	5300	10	400V	.100	DIP	MOC3022MFS-ND	.77	.58	.44
	5300	10	400V	.100	DIP	MOC3022VM-ND †	.77	.58	.44
	5300	5	400V	.100	SMT	MOC3023SM-ND	.77	.58	.44
	5300	5	400V	.100	DIP	MOC3023TM-ND*	.77	.58	.44
	5300	5	400V	.100	DIP	MOC3023MFS-ND	.77	.58	.44
	5300	30	200V	50	DIP	4N39-ND	1.12	.93	.75
	5300	14	400V	150	DIP	4N40QT-ND	1.21	1.01	.81
	5300	20	200V	50	DIP	H11C1-ND	1.21	1.01	.81
12	5300	20	200V	50	DIP	H11C2-ND	1.08	.90	.72
	5300	30	200V	50	DIP	H11C3-ND	1.08	.90	.72
	5300	20	400V	150	DIP	H11C4-ND	1.26	1.05	.84
	5300	20	400V	150	DIP	H11C5-ND	1.21	1.01	.81
	5300	30	400V	150	DIP	H11C6-ND	1.12	.94	.75
	5300	15	250V	.100	DIP	MOC3031M-ND	.92	.77	.62
17	5300	10	250V	.100	DIP	MOC3032M-ND	.92	.77	.62
	5300	5	250V	.100	DIP	MOC3033M-ND	.92	.77	.62
	5300	15	400V	.100	DIP	MOC3041M-ND	.92	.77	.62
	5300	10	400V	.100	DIP	MOC3042M-ND	.92	.77	.62
	5300	5	400V	.100	DIP	MOC3043M-ND	.92	.77	.62
11	5300	15	600V	.100	DIP	MOC3051M-ND	.92	.77	.62
	5300	10	600V	.100	DIP	MOC3052M-ND	.92	.77	.62
	5300	15	600V	.500	DIP	MOC3061M-ND	.97	.81	.65
	5300	10	600V	.500	DIP	MOC3062M-ND	.81	.68	.54
	5300	5	600V	.500	DIP	MOC3063M-ND	.97	.81	.65
	5300	5	600V	.500	DIP	MOC3063TM-ND*	.97	.81	.65
17	5300	15	800V	.500	DIP	MOC3081M-ND	1.46	1.22	.98
	5300	10	800V	.500	DIP	MOC3082M-ND	1.46	1.22	.98
	5300	5	800V	.500	DIP	MOC3083M-ND	1.46	1.22	.98
	5300	10	600V	.100	DIP	MOC3162M-ND	1.50	1.20	.90
	5300	5	600V	.100	DIP	MOC3163M-ND	1.50	1.20	.90

† VDE approval * .4" Lead Spacing

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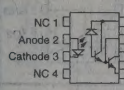
Fig. 1

Fig. 2


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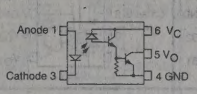

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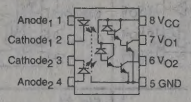

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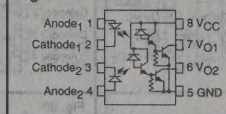

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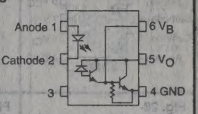

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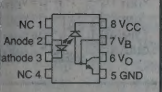

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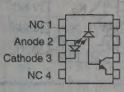

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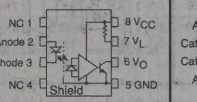

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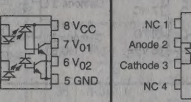

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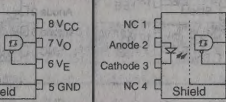

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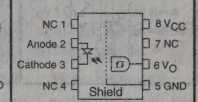
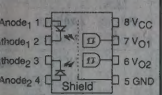


Fig. 13

Fig. 14


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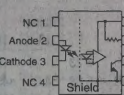

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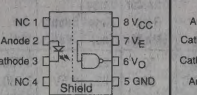

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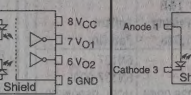

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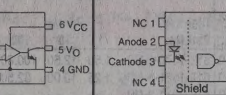

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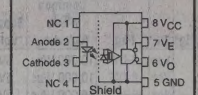


Fig. 20

hototransistor Optocouplers

Pkg.	CTR Range (%)	V_{CEO}	Rise/Fall Time (µS)	Iso. Volt.	Digi-Key Part No.	Pricing 1	10	100	Agilent Part No.
	40/80	70V	5/5	5,000	516-1002-5-ND	.40	2.75	20.00	CNY17-1
6-DIP	63/125	70V	5/5	5,000	516-1003-5-ND	.40	2.75	20.00	CNY17-2
	160/320	70V	5/5	5,000	516-1005-5-ND	.40	2.75	20.00	CNY17-4

ptocouplers - Low Input Current, High Gain

Pkg.	CTR (Typical)	Supply Volt.	Iso. Volt.	Digi-Key Part No.	Pricing 1	10	100	T&R Pricing 1,500 *	Agilent Part No.
8-DIP	1600%@1.6mA	7V	3,750	516-1007-5-ND	1.35	11.25	90.00	—	6N138
8-SOIC	1600%@1.6mA	7V	3,750	516-1008-5-ND	1.48	11.80	97.35	—	HCPL-0700
8-DIP	1600%@1.6mA	18V	3,750	516-1009-5-ND	1.35	11.25	90.00	—	6N139
8-SOIC	1600%@1.6mA	18V	3,750	516-1010-2-ND	—	—	—	884.00/M	HCPL-0701#500
8-SOIC	1600%@1.6mA	18V	3,750	516-1010-5-ND	1.65	13.20	108.90	—	HCPL-0701
8-SOIC	1600%@1.6mA	18V	3,750	516-1488-1-ND§	1.70	13.60	112.20	884.00/M	HCPL-0701-500E
8-DIP(W)	3000%@1.6mA	18V	5,000	516-1011-5-ND	2.41	19.80	160.50	—	HCNW139
5-SOIC	1600%@1.6mA	18V	3,750	516-1012-5-ND	1.95	15.60	128.70	—	HCPL-M701
8-SOIC	3500%@40µA	18V	3,750	516-1013-5-ND	2.39	19.61	159.00	—	HCPL-070A
8-DIP	3500%@40µA	18V	3,750	516-1018-5-ND	4.86	39.96	324.00	—	HCPL-4731
8-SOIC	3500%@40µA	18V	3,750	516-1019-5-ND	6.50	53.47	433.50	—	HCPL-073A
8-SOIC	1300%@0.5mA	3.3V	3,750	516-1020-5-ND	3.60	29.60	240.00	—	HCPL-073L
8-DIP	1600%@1.6mA	7V	3,750	516-1014-5-ND	2.36	19.43	157.50	—	HCPL-2730
8-DIP	1600%@1.6mA	7V	3,750	516-1542-5-ND§	2.36	19.43	157.50	—	HCPL-2730-000E
8-SOIC	1600%@1.6mA	7V	3,750	516-1015-5-ND	3.35	27.57	223.50	—	HCPL-0730
8-DIP	1600%@1.6mA	18V	3,750	516-1016-5-ND	2.48	20.35	165.00	—	HCPL-2731
8-DIP	1600%@1.6mA	18V	3,750	516-1543-5-ND§	2.48	20.35	165.00	—	HCPL-2731-000E
8-SOIC	1600%@1.6mA	18V	3,750	516-1017-2-ND	—	—	—	2184.00/M	HCPL-0731#500
8-SOIC	1600%@1.6mA	18V	3,750	516-1017-5-ND	3.74	30.71	249.00	—	HCPL-0731
8-SOIC	1600%@1.6mA	18V	3,750	516-1535-1-ND§	3.36	29.40	235.20	2126.88/M	HCPL-0731-500E
6-DIP	1200%@1.0mA	7V	3,750	516-1021-5-ND	2.03	16.20	133.65	—	4N45
	1500%@1.0mA	20V	3,750	516-1022-5-ND	2.43	19.40	160.05	—	4N46

ptocouplers

Pkg.	CTR Range (%)	Supply Volt.	Iso. Volt.	Digi-Key Part No.	Pricing 1	10	100	T&R Pricing 1,500 *	Agilent Part No.
8-DIP	7~50	15V	3,750	516-1023-5-ND	1.35	11.25	90.00	—	6N135
8-SOIC	7~50	30V	3,750	516-1024-5-ND	1.30	10.40	85.80	—	HCPL-0500
8-DIP(W)	7~50	30V	5,000	516-1025-5-ND	1.90	15.20	125.40	—	HCNW135
8-DIP	19~50	15V	3,750	516-1026-5-ND	1.35	11.25	90.00	—	6N136
8-DIP	19~50	15V	3,750	516-1520-5-ND§	1.13	9.00	74.25	—	6N136-000E
8-SOIC	19~50	30V	3,750	516-1027-2-ND	—	—	—	780.00/M	HCPL-0501#500
8-SOIC	19~50	30V	3,750	516-1027-5-ND	1.45	11.60	95.70	—	HCPL-0501
8-SOIC	19~50	30V	3,750	516-1529-1-ND§	1.50	12.00	90.00	765.00/M	HCPL-0501-500E
8-DIP(W)	19~50	30V	5,000	516-1028-5-ND	2.00	16.00	132.00	—	HCNW136
8-DIP(W)	19~50	30V	5,000	516-1524-5-ND§	2.00	16.00	132.00	—	HCNW136-000E
8-DIP	19~50	30V	3,750	516-1029-5-ND	1.47	12.25	98.00	—	HCPL-4502
8-SOIC	19~50	30V	3,750	516-1030-5-ND	1.43	11.40	94.05	—	HCPL-0452
8-DIP(W)	19~50	30V	5,000	516-1031-5-ND	2.00	16.00	132.00	—	HCNW4502
8-DIP(W)	19~50	30V	5,000	516-1525-5-ND§	2.00	16.00	132.00	—	HCNW4502-000E
8-DIP	19~50	30V	3,750	516-1032-5-ND	1.88	15.00	123.75	—	HCPL-4503
8-DIP	19~50	30V	3,750	516-1548-5-ND§	1.88	15.00	123.75	—	HCPL-4503-000E
8-SOIC	19~50	30V	3,750	516-1033-5-ND	2.05	16.40	135.30	—	HCPL-0453
8-SOIC	19~50	30V	3,750	516-1528-5-ND§	2.05	16.40	135.30	—	HCPL-0453-000E
8-DIP(W)	19~50	30V	5,000	516-1034-5-ND	2.41	19.80	160.50	—	HCNW4503
8-DIP	15~22	30V	3,750	516-1049-5-ND	1.98	15.80	130.35	—	HCPL-2502

Fig.	Pkg.	CTR Range (%)	Supply Volt.	Iso. Volt.	Digi-Key Part No.	Pricing 1	10	100	T&R Pricing 1,500 *	Agilent Part No.
8	8-DIP	26~65	30V	3,750	516-1035-5-ND	2.10	16.80	138.60	—	HCPL-4504
	8-DIP	26~65	30V	3,750	516-1479-5-ND§	2.10	16.80	138.60	—	HCPL-4504-000E
	8-SOIC	26~65	30V	3,750	516-1036-5-ND	2.30	18.40	151.80	—	HCPL-0454
	8-DIP(W)	25~65	30V	5,000	516-1037-5-ND	2.68	22.02	178.50	—	HCNW4504
9	8-DIP	44~90	30V	3,750	516-1038-5-ND	2.33	18.60	153.45	—	HCPL-4506
	8-DIP	44~90	30V	3,750	516-1549-5-ND§	2.33	18.60	153.45	—	HCPL-4506-000E
	8-SMD	44~90	30V	3,750	516-1039-5-ND	2.38	19.00	156.75	—	HCPL-4506#300
	8-SOIC	44~90	30V	3,750	516-1040-5-ND	2.86	23.50	190.50	—	HCPL-0466
	8-DIP(W)	44~90	30V	5,000	516-1041-5-ND	2.75	22.57	183.00	—	HCNW4506
10	8-DIP	7~50	30V	3,750	516-1042-5-ND	2.10	16.80	138.60	—	HCPL-2530
	8-SOIC	7~50	30V	3,750	516-1043-5-ND	3.04	24.98	202.50	—	HCPL-0530
	8-DIP	19~50	30V	3,750	516-1044-5-ND	2.20	17.60	145.20	—	HCPL-2531
	8-DIP	19~50	30V	3,750	516-1474-5-ND§	2.20	17.60	145.20	—	HCPL-2531-000E
	8-SMD	19~50	30V	3,750	516-1045-5-ND	2.25	18.00	148.50	—	HCPL-2531#300
	8-SOIC	19~50	30V	3,750	516-1046-2-ND	—	—	—	1846.00/M	HCPL-0531#500
		19~50	30V	3,750	516-1046-5-ND	3.15	25.90	210.00	—	HCPL-0531
		19~50	30V	3,750	516-1484-1-ND§	2.84	24.85	198.80	1846.00/M	HCPL-0531-500E
		19~50	30V	3,750	516-1530-5-ND§	3.15	25.90	210.00	—	HCPL-0531-000E
		19~50	30V	3,750	516-1047-5-ND	4.79	39.41	319.50	—	HCPL-0534
		15~50	3.3V	3,750	516-1048-5-ND	3.42	28.12	228.00	—	HCPL-053L

High Bandwidth Analog/Video Optocouplers

Fig.	Pkg.	CTR % (Typ.)	Bandwidth MHz (Typ.)	Supply Volt.	Iso. Volt.	Digi-Key Part No.	Pricing 1	10	100	Agilent Part No.
7	8-DIP(W)	52	9	30V	5,000	516-1050-5-ND	2.72	22.39	181.50	HCNW4562
	8-SMD(W)	52	9	30V	5,000	516-1051-5-ND	2.77	22.76	184.50	HCNW4562#300
	8-DIP	45	17	30V	3,750	516-1052-5-ND	2.32	19.06	154.50	HCPL-4562

Logic Gate Optocouplers - 5MBd, 8MBd

Fig.	Pkg.	Common Mode Rejection	Supply Volt.	Iso. Volt.	Digi-Key Part No.	Pricing 1	10	100	T&R Pricing 1,500 *	Agilent Part No.
11	8-DIP	1,000V/µs	20V	3,750	516-1053-5-ND	2.50	20.54	166.50	—	HCPL-2200
	8-SMD	1,000V/µs	20V	3,750	516-1054-5-ND	2.54	20.91	169.50	—	HCPL-2200#300
12	8-SOIC	1,000V/µs	20V	3,750	516-1055-2-ND	—	—	—	1560.00/M	HCPL-0201#500
		1,000V/µs	20V	3,750	516-1055-5-ND	2.66	21.83	177.00	—	HCPL-0201
		1,000V/µs	20V	3,750	516-1483-1-ND§	2.40	21.00	168.00	1560.00/M	HCPL-0201-500E
		10,000V/µs	20V	3,750	516-1056-2-ND	—	—	—	1794.00/M	HCPL-0211#500
		10,000V/µs	20V	3,750	516-1056-5-ND	3.06	25.16	204.00	—	HCPL-0211
	8-SOIC	10,000V/µs	20V	3,750	516-1526-1-ND§	2.84	24.85	198.80	1747.08/M	HCPL-0211-500E
	8-DIP	1,000V/µs	20V	3,750	516-1057-5-ND	2.43	19.98	162.00	—	HCPL-2201
	8-DIP	10,000V/µs	20V	3,750	516-1059-5-ND	2.75	22.57	183.00	—	HCPL-2211
	8-DIP	10,000V/µs	20V	3,750	516-1537-5-ND§	2.75	22.57	183.00	—	HCPL-2211-000E
	8-DIP(W)	10,000V/µs	20V	5,000	516-1065-5-ND	3.15	25.90	210.00	—	HCNW2211
	8-SMD(W)	10,000V/µs	20V	5,000	516-1066-5-ND	3.20	26.27	213.00	—	HCNW2211#300
13	8-DIP	1,000V/µs	20V	3,750	516-1058-5-ND	2.43	19.98	162.00	—	HCPL-2202
	8-DIP	10,000V/µs	20V	3,750	516-1060-5-ND	2.75	22.57	183.00	—	HCPL-2212
14	8-DIP	1,000V/µs	20V	3,750	516-1061-5-ND	6.35	52.17	423.00	—	HCPL-2231
	8-SMD	1,000V/µs	20V	3,750	516-1062-5-ND	6.39	52.54	426.00	—	HCPL-2231#300
	8-DIP	10,000V/µs	20V	3,750	516-1063-5-ND	8.21	67.53	547.50	—	HCPL-2232
	8-DIP	10,000V/µs	20V	3,750	516-1473-5-ND§	8.21	67.53	547.50	—	HCPL-2232-000E
	8-SMD	10,000V/µs	20V	3,750	516-1064-5-ND	8.26	67.90	550.50	—	HCPL-2232#300
15	8-SOIC	100V/µs	5V	3,750	516-1067-5-ND†	5.78	47.55	385.50	—	HCPL-0300
	8-DIP	100V/µs	5V	3,750	516-1068-5-ND†	4.50	37.00	300.00	—	HCPL-2300
	8-DIP	100V/µs	5V	3,750	516-1538-5-ND†§	4.50	37.00	300.00	—	HCPL-2300-000E
	8-SMD	100V/µs	5V	3,750	516-1069-5-ND†	4.55	37.37	303.00	—	HCPL-2300#300

† 8MBd ‡ Dual Channel *For Tape & Reel Part No., change -1 to -2 § Lead Free
(Note: 8-SMD = PDip Package with Gullwing Leads; (W) = .4 in. row spacing)

(Continued)

N

Fig. 21

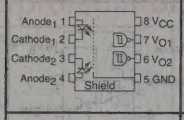


Fig. 22

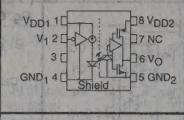


Fig. 23

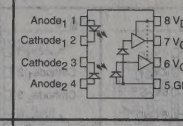


Fig. 24

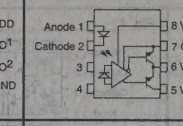


Fig. 25

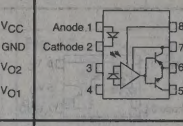


Fig. 26

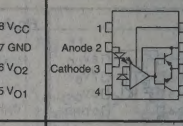


Fig. 27

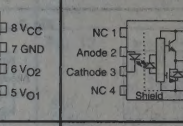


Fig. 28

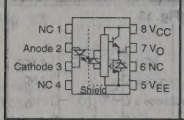


Fig. 29

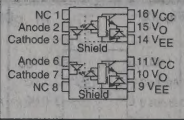


Fig. 30

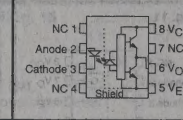


Fig. 31

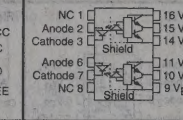


Fig. 32

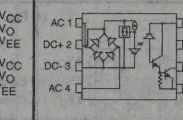


Fig. 33

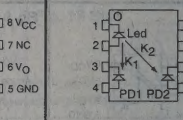
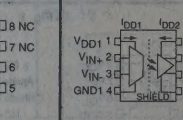


Fig. 34



Logic Gate Optocouplers - 10MBd

Fig.	OE	Pkg.	Common Mode Rejection	Supply Volt.	Iso. Volt.	Digi-Key Part No.	Pricing 1	10	100	T&R Pricing 1,500 *	Agilent Part No.
16	Yes	8-DIP	10,000 V/µs	5V	3,750	516-1070-5-ND	1.50	12.50	100.00	—	6N137
	Yes	8-DIP	10,000 V/µs	5V	3,750	516-1521-5-ND§	1.25	10.00	82.50	—	6N137-000E
	Yes	8-SOIC	10,000 V/µs	5V	3,750	516-1071-2-ND	—	—	—	936.00/M	HCPL-0600#500
	Yes	8-SOIC	10,000 V/µs	5V	3,750	516-1071-5-ND	1.75	14.00	115.50	—	HCPL-0600
	Yes	8-SOIC	10,000 V/µs	5V	3,750	516-1485-1-ND§	1.80	14.40	118.80	936.00/M	HCPL-0600-500E
	Yes	8-DIP(W)	10,000 V/µs	5V	5,000	516-1072-5-ND	2.35	18.80	155.10	—	HCNW137
	Yes	8-DIP(W)	10,000 V/µs	5V	5,000	516-1074-5-ND	2.50	20.54	166.50	—	HCNW2601
	Yes	8-SOIC	10,000 V/µs	5V	3,750	516-1075-2-ND	—	—	—	936.00/M	HCPL-0601#500
	Yes	8-SOIC	10,000 V/µs	5V	3,750	516-1075-5-ND	1.75	14.00	115.50	—	HCPL-0601
	Yes	8-SOIC	10,000 V/µs	5V	3,750	516-1471-5-ND§	1.75	14.00	115.50	—	HCPL-0601-000E
	Yes	8-DIP	10,000 V/µs	5V	3,750	516-1076-5-ND	1.68	13.40	110.55	—	HCPL-2601
	Yes	8-DIP	10,000 V/µs	5V	3,750	516-1540-5-ND§	1.68	13.40	110.55	—	HCPL-2601-000E
	Yes	8-SMD	10,000 V/µs	5V	3,750	516-1077-5-ND	1.73	13.80	113.85	—	HCPL-2601#300
	Yes	8-DIP	15,000 V/µs	5V	3,750	516-1078-5-ND	1.69	13.88	112.50	—	HCPL-2611
	Yes	8-SMD	15,000 V/µs	5V	3,750	516-1079-5-ND	1.73	14.25	115.50	—	HCPL-2611#300
	Yes	8-SOIC	15,000 V/µs	5V	3,750	516-1080-2-ND	—	—	—	1196.00/M	HCPL-0611#500
	Yes	8-SOIC	15,000 V/µs	5V	3,750	516-1080-5-ND	2.03	16.65	135.00	—	HCPL-0611
	Yes	8-SOIC	15,000 V/µs	5V	3,750	516-1486-1-ND§	1.84	16.10	128.80	1196.00/M	HCPL-0611-500E
	Yes	8-DIP(W)	15,000 V/µs	5V	5,000	516-1082-5-ND	2.70	22.20	180.00	—	HCNW2611
	Yes	8-SMD(W)	15,000 V/µs	5V	5,000	516-1083-5-ND	2.75	22.57	183.00	—	HCNW2611#300
	Yes	8-SOIC	5,000 V/µs	5V	3,750	516-1084-5-ND	2.32	19.06	154.50	—	HCPL-061A
	Yes	8-SOIC	5,000 V/µs	5V	3,750	516-1085-5-ND	2.48	20.35	165.00	—	HCPL-061N
17	No	8-DIP	10,000 V/µs	5V	3,750	516-1086-5-ND	2.81	23.13	187.50	—	HCPL-2630
	No	8-DIP	10,000 V/µs	5V	3,750	516-1475-5-ND§	2.81	23.13	187.50	—	HCPL-2630-000E
	No	8-SMD	10,000 V/µs	5V	3,750	516-1087-5-ND	2.86	23.50	190.50	—	HCPL-2630#300
	No	8-SOIC	10,000 V/µs	5V	3,750	516-1088-2-ND	—	—	—	2392.00/M	HCPL-0630#500
	No	8-SOIC	10,000 V/µs	5V	3,750	516-1088-5-ND	4.10	33.67	273.00	—	HCPL-0630
	No	8-SOIC	10,000 V/µs	5V	3,750	516-1487-1-ND§	3.68	32.20	257.60	2392.00/M	HCPL-0630-500E
	No	8-DIP	10,000 V/µs	5V	3,750	516-1089-5-ND	3.04	24.98	202.50	—	HCPL-2631
	No	8-DIP	10,000 V/µs	5V	3,750	516-1541-5-ND§	3.04	24.98	202.50	—	HCPL-2631-000E
	No	8-SMD	10,000 V/µs	5V	3,750	516-1090-5-ND	3.08	25.35	205.50	—	HCPL-2631#300
	No	8-SOIC	10,000 V/µs	5V	3,750	516-1091-2-ND	—	—	—	2392.00/M	HCPL-0631#500
	No	8-SOIC	10,000 V/µs	5V	3,750	516-1091-5-ND	4.10	33.67	273.00	—	HCPL-0631
	No	8-SOIC	10,000 V/µs	5V	3,750	516-1472-5-ND§	4.10	33.67	273.00	—	HCPL-0631-000E
	No	8-DIP	15,000 V/µs	5V	3,750	516-1092-5-ND	5.04	41.44	336.00	—	HCPL-4661
	No	8-SOIC	15,000 V/µs	5V	3,750	516-1093-5-ND	6.75	55.50	450.00	—	HCPL-0661
	No	8-SOIC	15,000 V/µs	5V	3,750	516-1533-5-ND§	6.75	55.50	450.00	—	HCPL-0661-000E
	No	8-DIP	5,000 V/µs	5V	5,000	516-1094-5-ND	4.39	36.08	292.50	—	HCPL-263A
	No	8-SOIC	5,000 V/µs	5V	3,750	516-1095-2-ND	—	—	—	3081.00/M	HCPL-063A#500
	No	8-SOIC	5,000 V/µs	5V	3,750	516-1095-5-ND	5.29	43.48	352.50	—	HCPL-063A
	No	8-SOIC	5,000 V/µs	5V	3,750	516-1531-5-ND§	5.29	43.48	352.50	—	HCPL-063A-000E
	No	8-DIP	25,000 V/µs	5V	5,000	516-1096-5-ND	5.04	41.44	336.00	—	HCPL-263N
	No	8-SOIC	25,000 V/µs	5V	3,750	516-1097-5-ND	6.98	57.35	465.00	—	HCPL-063N
	No	8-SOIC	25,000 V/µs	5V	3,750	516-1532-5-ND§	6.98	57.35	465.00	—	HCPL-063N-000E
18	No	5-SOIC	10,000 V/µs	5V	3,750	516-1073-5-ND	1.88	15.00	123.75	—	HCPL-M600
	No	5-SOIC	15,000 V/µs	5V	3,750	516-1081-5-ND	2.38	19.00	156.75	—	HCPL-M611
	No	5-SOIC	15,000 V/µs	5V	3,750	516-1554-5-ND§	2.38	19.00	156.75	—	HCPL-M611-000E
19	No	8-DIP	5,000 V/µs	5V	3,750	516-1098-5-ND	2.70	22.20	180.00	—	HCPL-7601
	No	8-DIP	15,000 V/µs	5V	3,750	516-1099-5-ND	2.90	23.87	193.50	—	HCPL-7611

Optocouplers - 15MBd

Fig.	OE	Pkg.	Delay Time	Supply Volt.	Iso. Volt.	Digi-Key Part No.	Pricing 1	10	100	Agilent Part No.
16	Yes	8-SOIC	90ns; 75ns	3.3V	3,750	516-1100-5-ND	2.00	16.00	132.00	HCPL-060L
	Yes	8-DIP	90ns; 75ns	3.3V	3,750	516-1101-5-ND	2.15	17.20	141.90	HCPL-260L
17	No	8-DIP	90ns; 75ns	3.3V	3,750	516-1102-5-ND	3.60	29.60	240.00	HCPL-263L
	No	8-SOIC	90ns; 75ns	3.3V	3,750	516-1103-5-ND	4.50	37.00	300.00	HCPL-063L

Optocouplers - 20MBd

Fig.	OE	Pkg.	Delay Time	Supply Volt.	Iso. Volt.	Digi-Key Part No.	Pricing 1	10	100	Agilent Part No.
20	Yes	8-DIP	60ns	5V	3,750	516-1104-5-ND	5.99	49.21	399.00	HCPL-2400
	Yes	8-SMD	60ns	5V	3,750	516-1105-5-ND	6.03	49.58	402.00	HCPL-2400#300
21	No	8-DIP	60ns	5V	3,750	516-1106-5-ND	11.97	98.42	798.00	HCPL-2430
	No	8-DIP	60ns	5V	3,750	516-1539-5-ND§	12.06	99.16	804.00	HCPL-2430-000E
	No	8-SMD	60ns	5V	3,750	516-1107-5-ND	12.02	98.79	801.00	HCPL-2430#300

High Speed CMOS Optocouplers

Fig.	Pkg.	Transfer Rate (Mb/s)	Delay Time (ns)	Supply Volt.	Iso. Volt.	Digi-Key Part No.	Pricing 1	10	100	T&R Pricing 1,500 *	Agilent Part No.
22	8-SMD	50	22	5V	3,750	516-1108-5-ND	6.23	51.25	415.50	—	HCPL-7723-3
	8-SOIC	50	22	5V	3,750	516-1109-5-ND	6.68	54.95	445.50	—	HCPL-0723
	8-DIP	25	40	5V	3,750	516-1110-5-ND	5.63	46.25	375.00	—	HCPL-7721
	8-DIP	25	40	5V	3,750	516-1550-5-ND§	5.72	46.99	381.00	—	HCPL-7721-0
	8-SOIC	25	40	5V	3,750	516-1111-5-ND	6.08	49.95	405.00	—	HCPL-0721
	8-DIP	25	40	5V	3,750	516-1112-5-ND	4.95	40.70	330.00	—	HCPL-7720
	8-SOIC	25	40	5V	3,750	516-1113-5-ND	5.40	44.40	360.00	—	HCPL-0720
	8-SOIC	25	40	5V	3,750	516-1534-5-ND§	5.49	45.14	366.00	—	HCPL-0720-0
	8-DIP	12.5	40	5V	3,750	516-1114-5-ND	4.28	35.15	285.00	—	HCPL-7710
	8-DIP	12.5	40	5V	3,750	516-1480-5-ND§	4.37	35.89	291.00	—	HCPL-7710-0
	8-SMD	12.5	40	5V	3,750	516-1115-5-ND	4.32	35.52	288.00	—	HCPL-7710#3
	8-SOIC	12.5	40	5V	3,750	516-1116-2-ND	—	—	—	2756.00/M	HCPL-0710#5
	8-SOIC	12.5	40	5V	3,750	516-1116-5-ND	4.73	38.85	315.00	—	HCPL-0710
	8-SOIC	12.5	40	5V	3,750	516-1489-1-ND§	4.32	37.80	302.40	2808.00/M	HCPL-0710-5
23	8-SOIC	15	60	5V	3,750	516-1117-5-ND‡	7.43	61.05	495.00	—	HCPL-0738
		15	60	5V	3,750	516-1536-5-ND§	7.52	61.79	501.00	—	HCPL-0738-0

Integrated Driver Optocouplers

Fig.	Pkg.	Input Current	Output Current	Supply Volt.	Iso. Volt.	Delay Time	Digi-Key Part No.	Pricing 1	10	100	Agilent Part No.
24	8-DIP	8mA	0.6A	13V	5,000	5.00µs	516-1118-5-ND	2.13	17.00	140.25	HCPL-3000
25	8-DIP	12mA	0.1A	24V	5,000	2.00µs	516-1119-5-ND	2.48	20.35	165.00	HCPL-3100
26	8-DIP	8mA	0.1A	24V	5,000	0.50µs	516-1120-5-ND	2.70	22.20	180.00	HCPL-3101
27	8-DIP	7mA	2.0A	30V	3,750	0.50µs	516-1121-5-ND	2.45	19.60	161.70	HCPL-3120
	8-DIP	7mA	2.0A	30V	3,750	0.50µs	516-1476-5-ND§	2.45	19.60	161.70	HCPL-3120-00
	8-SMD	7mA	2.0A	30V	3,750	0.50µs	516-1122-5-ND	2.25	18.50	150.00	HCPL-3120#3
	8-SMD	7mA	2.0A	30V	3,750	0.50µs	516-1544-5-ND§	2.25	18.50	150.00	HCPL-3120-3
	8-DIP	7mA	2.0A	30V	3,750	0.50µs	516-1123-5-ND	3.04	24.98	202.50	HCPL-J312
28	8-DIP(W)	10mA	2.0A	30V	5,000	0.50µs	516-1124-5-ND	3.49	28.68	232.50	HCNW3120
		7mA	2.0A	30V	3,750	0.50µs	516-1470-5-ND§	3.49	28.68	232.50	HCNW3120-00
27	8-DIP	7mA	0.5A	30V	3,750	0.50µs	516-1125-5-ND	2.43	19.98	162.00	HCPL-3150
30	8-SOIC	8mA	0.4A	30V	3,750	0.70µs	516-1126-5-ND	1.88	15.00	123.75	HCPL-0314
		8mA	0.4A	30V	3,750	0.70µs	516-1527-5-ND§	1.88	15.00	123.75	HCPL-0314-00
29	8-DIP	8mA	0.4A	30V	3,750	0.70µs	516-1127-5-ND	1.80	14.40	118.80	HCPL-3140
	16-SOIC	7mA	0.5A	30V	3,750	0.50µs	516-1129-5-ND‡	5.36	44.03	357.00	HCPL-315J
31	16-SOIC	8mA	0.4A	30V	3,750	0.70µs	516-1128-5-ND‡	2.70	22.20	180.00	HCPL-314J
		8mA	0.4A	30V	3,750	0.70µs	516-1477-5-ND§	2.70	22.20	180.00	HCPL-314J-00
—	16-SOIC	1µA	2.0A	30V	3,750	0.50µs	516-1130-5-ND	4.61	37.93	307.50	HCPL-316J
		1µA	2.0A	30V	3,750	0.50µs	516-1478-5-ND§	4.61	37.93	307.50	HCPL-316J-00

AC/DC Logic Interface Optocouplers

Fig.	Pkg.	Hysteresis (Typ.)	Delay Time	Supply Volt.	Iso. Volt.	Digi-Key Part No.	Pricing 1	10	100	Agilent Part No.
32	8-DIP	1.2mA	40µs	18V	3,750	516-1131-5-ND	3.20	26.27	213.00	HCPL-3700
	8-DIP	1.2mA	40µs	18V	3,750	516-1545-5-ND§	3.20	26.27	213.00	HCPL-3700-000
	8-SMD	1.2mA	40µs	18V	3,750	516-1132-5-ND	3.24	26.64	216.00	HCPL-3700#300
	8-DIP	0.6mA	40µs	18V	3,750	516-1133-5-ND	5.00	41.07	333.00	HCPL-3760
	8-SMD	0.6mA	40µs	18V	3,750	516-1134-5-ND	5.04	41.44	336.00	HCPL-3760#300

High Linearity Analog Optocouplers

Fig.	Pkg.	Current Transfer Ratio (%)	Reverse Volt.	Iso. Volt.	Digi-Key Part No.	Pricing 1	10	100	Agilent Part No.
33	8-DIP(W)	0.25 ~ 0.75	-15	5,000	516-1135-5-ND	2.99	24.61	199.50	HCNR200
		0.25 ~ 0.75	-15	5,000	516-1522-5-ND§	2.99	24.61	199.50	HCNR200-000
		0.36 ~ 0.72	-15	5,000	516-1136-5-ND	3.98	32.75	265.50	HCNR201
		0.36 ~ 0.72	-15	5,000	516-1523-5-ND§	3.98	32.75	265.50	HCNR201-000

† 8MBd ‡ Dual Channel *For Tape & Reel Part No., change -1 to -2 § Lead Free
(Note: 8-SMD = PDip Package with Gullwing Leads; (W) = .4 in. row spacing) (Continue

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Fig. 35

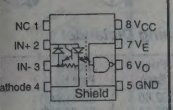


Fig. 36

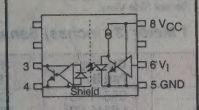


Fig. 37

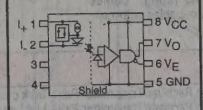


Fig. 38

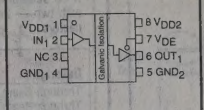


Fig. 39

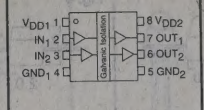


Fig. 40

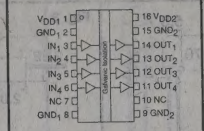
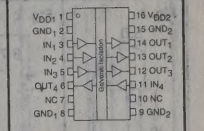


Fig. 41



Miniature Analog Isolation Amplifiers

Fig.	Pkg.	Gain Tol. ±	Delay Time	Supply Volt.	Iso. Volt.	Digi-Key Part No.	Pricing 1	10	100	Agilent Part No.
	8-SMD	3%	9.90µs	5V	3,750	516-1137-5-ND	4.21	34.60	280.50	HCPL-7510-300
	8-SMD	5%	9.90µs	5V	3,750	516-1138-5-ND	3.87	31.82	258.00	HCPL-7520-300
	8-DIP	3%	9.90µs	5V	3,750	516-1139-5-ND	8.44	69.38	562.50	HCPL-7800
	8-DIP	3%	9.90µs	5V	3,750	516-1481-5-ND§	8.44	69.38	562.50	HCPL-7800-000E
	8-SMD	3%	9.90µs	5V	3,750	516-1140-5-ND	8.48	69.75	565.50	HCPL-7800#300
	8-SMD	3%	9.90µs	5V	3,750	516-1551-5-ND§	8.48	69.75	565.50	HCPL-7800-300E
34	8-DIP	1%	9.90µs	5V	3,750	516-1141-5-ND	10.98	90.28	732.00	HCPL-7800A
	8-DIP	1%	9.90µs	5V	3,750	516-1552-5-ND§	10.98	90.28	732.00	HCPL-7800A-000E
	8-SMD	1%	9.90µs	5V	3,750	516-1142-5-ND	11.03	90.65	735.00	HCPL-7800A#300
	8-SMD	1%	9.90µs	5V	3,750	516-1553-5-ND§	11.03	90.65	735.00	HCPL-7800A-300E
	8-DIP	5%	9.90µs	5V	3,750	516-1143-5-ND	4.95	40.70	330.00	HCPL-7840
	8-DIP	5%	9.90µs	5V	3,750	516-1482-5-ND§	4.95	40.70	330.00	HCPL-7840-000E
	8-SMD	5%	9.90µs	5V	3,750	516-1144-5-ND	5.00	41.07	333.00	HCPL-7840#300
—	16-SOIC	5%	20.00µs	5V	3,750	516-1145-5-ND	6.68	54.95	445.50	HCPL-788J

Line Receivers

Fig.	Pkg.	Delay Time	Output Current	Supply Volt.	Iso. Volt.	Digi-Key Part No.	Pricing 1	10	100	Agilent Part No.
35	8-DIP	100ns	50mA	5V	3,750	516-1146-5-ND	5.72	46.99	381.00	HCPL-2602
		100ns	50mA	5V	3,750	516-1147-5-ND	9.00	74.00	600.00	HCPL-2612

20mA Loop Transmitters/Receivers

Fig.	Pkg.	Supply Volt.	Delay Time	Iso. Volt.	Digi-Key Part No.	Pricing 1	10	100	Agilent Part No.
36	8-DIP	4.5 ~ 20V	1.60µs	3,750	516-1148-5-ND	5.83	47.92	388.50	HCPL-4100
		4.5 ~ 20V	1.60µs	3,750	516-1546-5-ND§	5.83	47.92	388.50	HCPL-4100-000E
37	8-DIP	4.5 ~ 20V	1.60µs	3,750	516-1149-5-ND	5.83	47.92	388.50	HCPL-4200
		4.5 ~ 20V	1.60µs	3,750	516-1547-5-ND§	5.83	47.92	388.50	HCPL-4200-000E

Digital Isolators

Fig.	Pkg.	No. of Circuits	Transfer Rate (Bits, Bytes)	Supply Voltage	Digi-Key Part No.	Pricing 1	10	100	Agilent Part No.
38	8-SOIC	1	100Mb/s	3 ~ 5.5V	516-1150-5-ND	4.05	33.30	270.00	HCPL-0900
39	8-SOIC	2	100Mb/s	3 ~ 5.5V	516-1151-5-ND	5.85	48.10	390.00	HCPL-0930
40	16-SOIC(N)	4	100Mb/s	3 ~ 5.5V	516-1152-5-ND	8.51	69.93	567.00	HCPL-090J
41	16-SOIC(N)	4	100Mb/s	3 ~ 5.5V	516-1153-5-ND	8.51	69.93	567.00	HCPL-092J

† 8MBd ‡ Dual Channel *For Tape & Reel Part No., change -1 to -2 § Lead Free
(Note: 8-SMD = PDip Package with Gullwing Leads; (W) = .4 in. row spacing)

ANALOG DEVICES Digital Isolators

Coupler isolation technology combines the dc isolation properties of microtransformers with semiconductor processing techniques to provide performance, power and integration benefits superior to those offered by traditional optocoupler technology.

Coupler components operate at higher data rates, provide better timing accuracy and common-mode transient immunity and operate at lower power levels than optocouplers. They operate over wider temperature and supply voltage ranges than their optical competition.

The Coupler technology rescues modern designs from the poorly controlled, temperature sensitive and time-dependent current transfer characteristics of standard optocouplers.

Fig.	Supply Voltage	Package Type	Max. Data Rate Mbps	Digi-Key Part No.	Price Each 1	25	100
				Single Channel			
1	3.3/5.0V	8-SOIC	25	ADUM1100AR-ND	4.10	3.28	2.55
			25	ADUM1100AR-RL7CT-ND	4.10	3.28	2.55
			25	ADUM1100AR-RL7TR-ND†		2321.00/1,000	
			100	ADUM1100BR-ND	4.68	3.75	2.92
				NEW! Dual Channel NEW!			
2	2.7/5.5V	8-SOIC	1	ADUM1200AR-ND	3.08	2.47	1.92
			10	ADUM1200BR-RL7CT-ND	4.48	3.59	2.79
			10	ADUM1200BR-RL7TR-ND†		2537.00/1,000	
			25	ADUM1200CR-ND	5.52	4.42	3.73
3	2.7/5.5V	8-SOIC	1	ADUM1201AR-ND	3.08	2.47	1.92
			10	ADUM1201BR-ND	4.48	3.59	2.79
				Triple Channel			
4	3.0/5.0V	16-SOIC	1	ADUM1300ARW-ND	4.10	3.28	2.55
			1	ADUM1300ARWZ-ND	4.10	3.28	2.55
			10	ADUM1300BRW-ND	5.46	4.37	3.69
			90	ADUM1300CRW-ND	8.24	6.60	5.57
5	3.0/5.0V	16-SOIC	1	ADUM1301ARW-ND	4.10	3.28	2.55
			1	ADUM1301ARWZ-ND	4.10	3.28	2.55
			10	ADUM1301BRW-ND	5.46	4.37	3.69
			90	ADUM1301CRW-ND	8.24	6.60	5.57
				Quad Channel			
6	3.0/5.0V	16-SOIC	1	ADUM1400ARW-ND	4.86	3.89	3.29
			1	ADUM1400ARWZ-ND	4.86	3.89	3.29
			10	ADUM1400BRW-ND	7.28	5.83	4.92
			90	ADUM1400CRW-ND	8.13	7.32	6.50
7	3.0/5.0V	16-SOIC	1	ADUM1401ARW-ND	4.86	3.89	3.29
			1	ADUM1401ARWZ-ND	4.86	3.89	3.29
			10	ADUM1401BRW-ND	7.28	5.83	4.92
			10	ADUM1401BRWZ-ND	7.28	5.83	4.92
			90	ADUM1401CRW-ND	8.13	7.32	6.50
			90	ADUM1401CRWZ-ND	8.13	7.32	6.50
8	3.0/5.0V	16-SOIC	1	ADUM1402ARW-ND	4.86	3.89	3.29
			1	ADUM1402ARWZ-ND	4.86	3.89	3.29
			10	ADUM1402BRW-ND	7.28	5.83	4.92
			10	ADUM1402BRWZ-ND	7.28	5.83	4.92
			90	ADUM1402CRW-ND	8.13	7.32	6.50
			90	ADUM1402CRWZ-ND	8.13	7.32	6.50

† Tape and Reel Part No.

Fig. 1

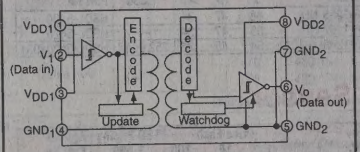


Fig. 2 *NEW!*

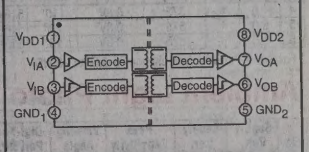


Fig. 3 *NEW!*

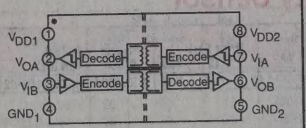


Fig. 4

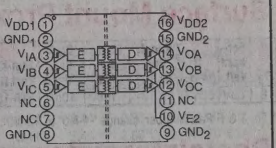


Fig. 5

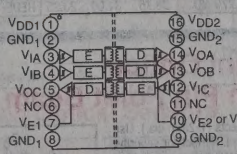


Fig. 6

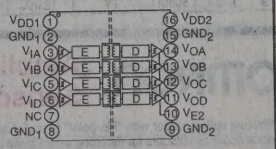


Fig. 7

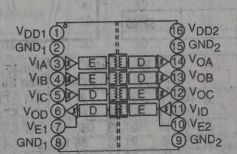
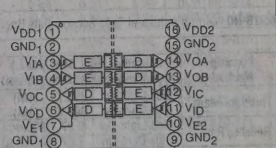


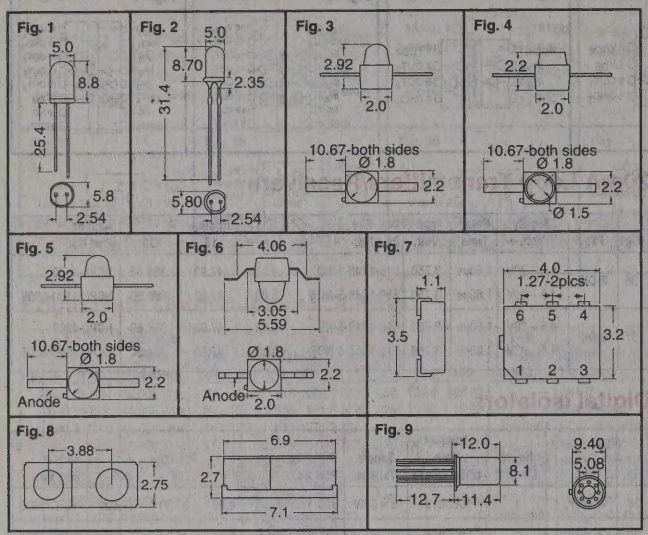
Fig. 8



Agilent Technologies

Authorized Distributor

Dim. in mm



IR Emitters

Fig.	Forward Voltage (V@mA)	If (mA)	Radiant Intensity m/W/sr	Beam Angle	Peak Length (nm)	Digi-Key Part No.	Price Each 1	10	100	T&R Pricing 1,500	Agilent Part No.
1	1.15@20	100	.4@20mA	50°	940	516-1260-ND	1.14	.95	.76	—	HEMT-3301
2	1.50@50	100	76@100mA	30°	875	516-1261-ND	.75	.63	.50	—	HSDL-4220
	1.50@50	100	150@100mA	17°	875	516-1262-ND	.75	.63	.50	—	HSDL-4230
3	1.50@50	100	32@100mA	24°	875	516-1263-ND	.66	.55	.44	—	HSDL-4420
	1.50@50	100	32@100mA	24°	875	516-1264-1-ND*	.69	.58	.46	322.00/M	HSDL-4420#011
	1.50@50	100	32@100mA	24°	875	516-1265-1-ND*	.69	.58	.46	322.00/M	HSDL-4420#031

* For T & R Part Number, change "-1-ND" to "-2-ND".

IR Detectors

Fig.	Output Cur. (µA)	Dark Cur. (nA)	Peak Sensitivity (nm)	Forward Volt.@1mA (Typ.)	Viewing Angle	Digi-Key Part No.	Price Each 1	10	100	T&R Pricing 1,500	Agilent Part No.
4	1.6	1	875	0.8V	110°	516-1266-ND	.68	.47	.34	—	HSDL-5400
5	6.0	1	875	0.8V	28°	516-1267-ND	.68	.47	.34	—	HSDL-5420
6	6.0	1	875	0.8V	28°	516-1268-1-ND*	.54	.45	.36	252.00/M	HSDL-5420#031

* For T & R Part Number, change "-1-ND" to "-2-ND".

Ambient Light Photo Sensor

Fig.	Supply Volt.	Supply Cur.	Peak Sensitivity	Viewing Angle	Digi-Key Part No.	Price Each 1	10	100	T&R Pricing 1,500	Agilent Part No.
7	3.3V	33µA	550nm	120°	516-1269-1-ND*	1.75	1.40	1.05	892.50/M	HSDL-9000

* For T & R Part Number, change "-1-ND" to "-2-ND".

Surface Mount Proximity Sensor

Fig.	Forward Volt.	If (Max.)	Supply Volt. (Max.)	Photo Cur. (Typ.)	Dark Cur. (Max.)	Digi-Key Part No.	Price Each 1	10	100	T&R Pricing 2,500	Agilent Part No.
8	1.5V	50mA	1.3V	.1mA	10nA	516-1555-1-ND*	1.83	1.46	1.10	930.76/M	HSDL-9100-021

* For T & R Part Number, change "-1-ND" to "-2-ND".

Photointerrupter

Fig.	Forward Volt.	If (Typ.)	Supply Volt. (Max.)	Photo Cur. (Typ.)	Dark Cur. (Typ.)	Digi-Key Part No.	Price Each 1	10	50	Agilent Part No.
9	1.72V	50mA	7V	125nA	50pA	516-1270-ND	38.75	31.00	23.25	HEDS-1500

OMRON Amplified Mini Optical Sensors with Pin Point Beam

Miniature optical sensor with "Pin-point" beam for sensing minute objects (1-2mm dia.). Use both indoors or outdoors for detecting where small body size is desired. Perfect for security, conveyor detection as well as emergency stop detection and limit control and more. Sensor not affected by ambient light. Comes standard with 2 meter molded cords attached.

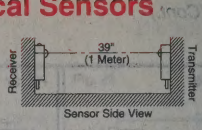
- Terminal Type: 2m Cable

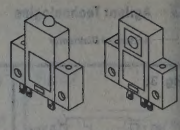
9297B-ND Omron Industrial Opto Sensor, Data Book **$2.00**

Sensing Method	Mounting Type/Features	Dist. (Max.) Inches	(M/mm)	Digi-Key Part No.	Price Each 1	25	100	Omron Part No.
Through-Beam	Side/Light-On	393.7	(1M)	OR591-ND	108.08	97.28	91.87	E3T-ST11
	Side/Dark-On	393.7	(1M)	OR592-ND	108.08	97.28	91.87	E3T-ST12
Reflect., Retro	Side/Light-On	7.87	(200mm)	OR593-ND	101.36	91.23	86.16	E3T-SR11
	Side/Dark-On	7.87	(200mm)	OR594-ND	101.36	91.23	86.16	E3T-SR12
Convergent Beam	Light-On	.59	(15mm)	Z1104-ND	67.13	62.16	53.88	E3T-SL11
	Dark-On	.59	(15mm)	Z1105-ND	67.13	62.16	53.88	E3T-SL12

Amplified Optical Sensors

- One meter sensing distance
- Supply voltage of 5–24 VDC for easy interface with TTL circuits, relays and programmable controllers
- IP60 sealability rating. Comes with two — 2m cables with connectors



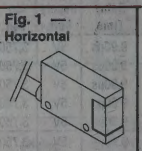


1 Meter (39 Inches) Sensing Distance!

Description	Digi-Key Part No.	Price Each	Omron Part No.
Through-Beam Receiver/Transmitter Pair - Dark on	OR544-ND	102.60	EE-SPW311
Through-Beam Receiver/Transmitter Pair - Light on	OR545-ND	102.60	EE-SPW411

Long Distance Amplified Optical Sensors

These general purpose optical sensors are small DC Sensors (10-30VDC input) available in both a transmitter-receiver pair or a reflected beam type with sensing distances of 23ft. (7 meters). Ideal for conveyor systems and doorway sensing with direct interface to PLC's. Meets NEMA 4X, 6 and IP67 standards. Through-beam sensors include separate transmitter and receiver. Reflective sensors include transceiver and E39-R1 reflector. Horizontal mount sensors include mounting bracket. All sensors include mounting hardware.

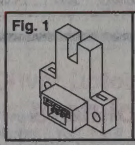


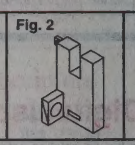
9297B-ND Omron Industrial Opto Sensor, Data Book **$2.00**

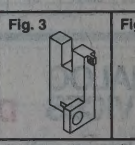
Fig.	Sensing Method	Mounting Type/Features	Dist. (Max.) Ft.	(M)	Terminal Type	Digi-Key Part No.	Price Each 1	25	100	Omron Part No.
1	Through-Beam	Horizontal	22.97	(7)	2m Cable	OR584-ND	189.28	170.36	160.89	E3S-AT1
	Reflective		6.56	(2)		OR585-ND	162.40	146.16	138.04	E3S-AR1
2	Through-Beam	Vertical	22.97	(7)	2m Cable	OR586-ND	189.28	170.36	160.89	E3S-AT6
	Reflective		6.56	(2)		OR587-ND	162.40	146.16	138.04	E3S-AR6
—	Mounting Bracket for Vertical Sensors (2 required for Through-Beam Type)					OR588-ND	5.38	4.84	4.57	E39-L59
—	Light Reflector for Confirming Optical Alignment during Setup (Clips onto Receiver)					OR589-ND	15.34	13.81	13.04	E39-R5

Amplified Optical Sensors

EE-SPX74/84 series of optical sensors feature a snap in connector which provides excellent shock and vibration resistance and prevents accidental disconnection of the sensor.







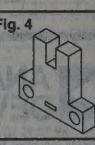
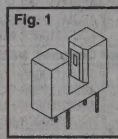
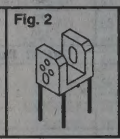


Fig.	Sensing Method	Sensing Distance	Output Type	Output	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
1	Slot	3.6mm	NPN	Dark-On	OR615-ND	82.35	74.12	65.88	EE-SPX740
				Light-On	OR616-ND	82.35	74.12	65.88	EE-SPX840
2	Slot	3.6mm	NPN	Dark-On	OR617-ND	82.35	74.12	65.88	EE-SPX742
				Light-On	OR618-ND	82.35	74.12	65.88	EE-SPX842
3	Slot	3.6mm	NPN	Dark-On	OR619-ND	82.35	74.12	65.88	EE-SPX743
				Light-On	OR620-ND	82.35	74.12	65.88	EE-SPX843
4	Slot	3.6mm	NPN	Dark-On	OR621-ND	82.35	74.12	65.88	EE-SPX741
				Light-On	OR622-ND	82.35	74.12	65.88	EE-SPX841
Snap-In connector w/cable for EE-SPX74/84 Series					OR623-ND	5.81	5.23	4.65	EE-1013

Non-Amplified Optical Sensors





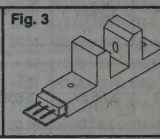
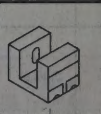


Fig.	Sensing Method	Sensing Distance	Terminal Type	Switch Time (MS)	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
1	Slot	5mm	PC Board	4/4	OR627-ND	1.75	1.58	1.40	EE-SX1081
		2mm			OR624-ND	1.75	1.58	1.40	EE-SX1018
		5mm			OR625-ND	1.75	1.58	1.40	EE-SX1041
		3.4mm			OR626-ND	1.75	1.58	1.40	EE-SX1071
		3mm			OR631-ND	1.75	1.58	1.40	EE-SX198
		3mm			OR632-ND	1.75	1.58	1.40	EE-SX199
2	Slot	2mm	PC Board	10/10	OR633-ND	1.28	1.15	1.02	EE-SX1103
		2mm			OR634-ND	1.28	1.15	1.02	EE-SX1105
		3mm			OR635-ND	1.28	1.15	1.02	EE-SX1106
3	Slot	5mm	AMP Connect Molex Connect	3KHz	OR629-ND	3.78	3.40	3.02	EE-SX4009-P1
					OR630-ND	4.68	4.21	3.74	EE-SX4009-P1

Non-Amplified Optical Sensors SMT



SMT compact size makes these sensors ideal for use in applications with restricted space. Dual channel model (EE-SX1131) is ideal for encoder applications.

Sensing Method	Sensing Dist.	Term. Type	Type On/Off	Digi-Key Part No.	Cut Tape Price Each 1	25	50	Digi-Key Part No.	Tape & Reel Size	Pricing	Omron Part No.
Slot (Dual)	2mm	SMT	10/10	OR628CT-ND	1.28	1.15	1.02	OR628TR-ND	2,000	637.50/M	EE-SX113
Slot	1mm	SMT	10/10	OR636CT-ND	1.28	1.15	1.02	OR636TR-ND	2,500	637.50/M	EE-SX110
	2mm			OR637CT-ND	1.28	1.15	1.02	OR637TR-ND	2,000	637.50/M	EE-SX110
	3mm			OR638CT-ND	1.28	1.15	1.02	OR638TR-ND	1,000	637.50	EE-SX110

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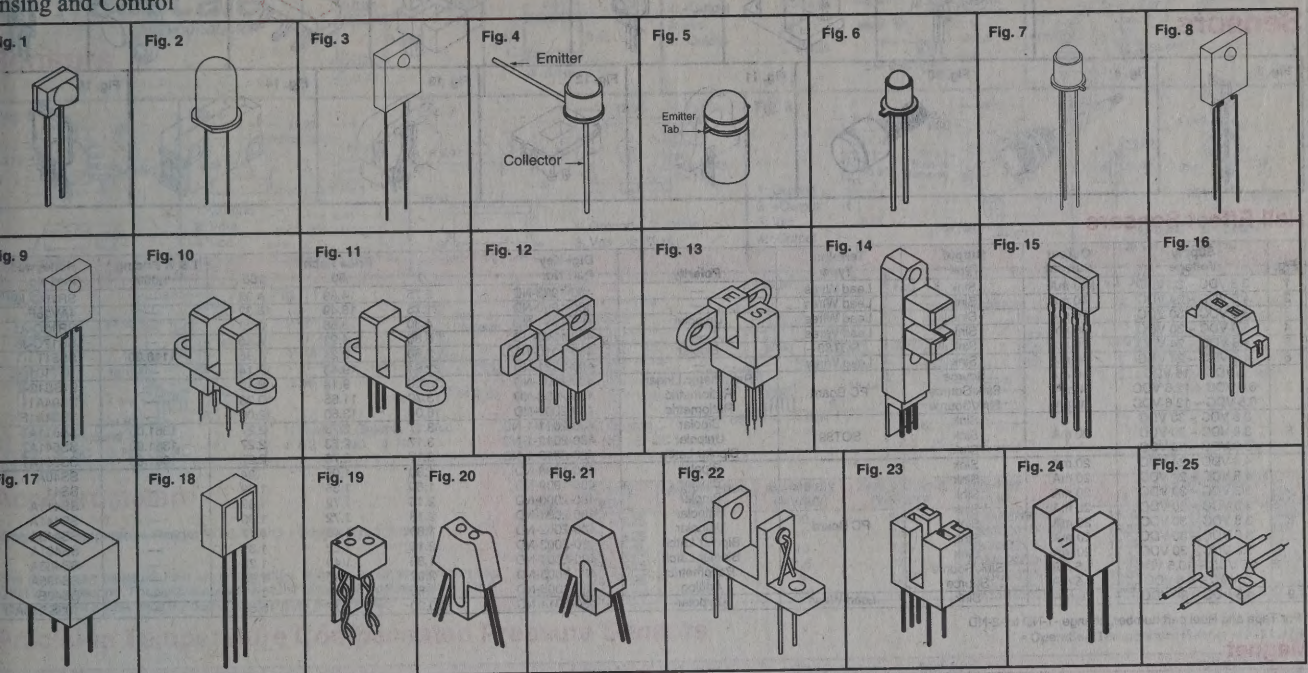
Optical Sensors



Infrared Light Emitting Diodes

Fig.	Style/ Pkg.	VCEO (V)	IC (mA)	Peak Sensitivity Wavelength	Digi-Key Part No.	Price Each 1	100	250	Honeywell Part No.
				AlGaAs					
1	Side-view	1.7	50	880nm	480-1968-ND	1.05	.76	.71	SEP8736-002
		1.7	50	880nm	480-1969-ND	1.10	.80	.74	SEP8736-003
2	T-1	1.7	50	880nm	480-1965-ND	1.10	.80	.74	SEP8705-003
3	Side-view	1.7	50	880nm	480-1966-ND	.91	.66	.62	SEP8706-002
		1.7	50	880nm	480-1967-ND	.96	.70	.65	SEP8706-003
4	Coaxial	1.8	50	880nm	480-1977-ND	3.41	2.48	2.30	SE1470-003L
		1.8	50	880nm	480-1978-ND	3.49	2.54	2.35	SE1470-004L
5	Mini-pill	1.8	75	880nm	480-1980-ND	1.79	1.30	1.21	SE2470-002
6	TO-46	1.9	100	880nm	480-1981-ND	2.72	1.98	1.84	SE3470-003
		1.9	100	880nm	480-1983-ND	2.61	1.90	1.76	SE5470-003
		1.9	100	880nm	480-1984-ND	2.67	1.94	1.80	SE5470-004
				GaAs					
2	T-1	1.5	50	935nm	480-1961-ND	1.02	.74	.69	SEP8505-002
3	Side-view	1.5	50	935nm	480-1962-ND	.74	.54	.50	SEP8506-001
		1.5	50	935nm	480-1963-ND	.85	.62	.58	SEP8506-002
		1.5	50	935nm	480-1964-ND	.91	.66	.62	SEP8506-003
4	Coaxial	1.6	50	935nm	480-1976-ND	2.94	2.14	1.98	SE1450-003L
5	Mini-pill	1.6	75	935nm	480-1979-ND	1.57	1.14	1.06	SE2460-003
6	TO-46	1.7	100	935nm	480-1982-ND	2.45	1.78	1.65	SE5455-003

NPN Silicon Phototransistors

Fig.	Output Type	Vcc (V)	Max. Output Current (mA)	Rise/ Fall (µs)	Digi-Key Part No.	Price Each 1	100	250	Honeywell Part No.
					Silicon				
1	Transistor	30	10.0	15	480-1957-ND	.96	.70	.65	SDP8436-002
		30	17.5	15	480-1958-ND	.96	.70	.65	SDP8436-003
2	Transistor	30	14	15	480-1951-ND	.94	.68	.63	SDP8405-002
		30	24	15	480-1952-ND	1.02	.74	.69	SDP8405-003
		30	0.92	15	480-1953-ND	1.05	.76	.71	SDP8405-013
		30	1.85	15	480-1954-ND	.94	.68	.63	SDP8405-014
3	Transistor	30	3.60	15	480-1955-ND	.74	.54	.50	SDP8406-002
		30	6.50	15	480-1956-ND	.74	.54	.50	SDP8406-003
4	Transistor	30	3.0	15	480-1970-ND	2.67	1.94	1.80	SD1440-003L
5	Transistor	30	4.0	15	480-1971-ND	1.49	1.08	1.00	SD2440-003
		30	7.0	15	480-1972-ND	1.54	1.12	1.04	SD2440-004
7	Transistor	30	8.0	2	480-1973-ND	2.67	1.94	1.80	SD5491-004
					Low Light Rejection				
3	Transistor	30	6.0	15	480-1959-ND	.85	.62	.58	SDP8476-201

Optoschmitt Detectors

Fig.	Output Type	Vcc (V)	Max. Output Current (mA)	Rise/ Fall (ns)	Digi-Key Part No.	Price Each 1	100	250	Honeywell Part No.
7	TTL	16	18	60/15	480-1974-ND	3.08	2.24	2.08	SD5600-001
		16	18	60/15	480-1975-ND	3.03	2.20	2.04	SD5620-001
8	TTL	12	18	60/15	480-1960-ND	1.65	1.20	1.11	SDP8600-001
					Open-Collector Output				
9	TTL	12	15	7	480-1950-ND	2.28	1.66	1.54	SDP8314-301

Slotted Optoschmitt Sensors

Fig.	Output Type	Vcc (V)	Max. Output Current (mA)	Rise/ Fall (ns)	Digi-Key Part No.	Price Each 1	100	250	Honeywell Part No.
					Transmissive				
10	Diode	7	15	70	480-1945-ND	6.27	4.56	4.22	HOA6990-T51
11	Transistor	10	10	60/15	480-1933-ND	3.74	2.72	2.52	HOA0961-N51
	Transistor	10	10	60/15	480-1934-ND	3.74	2.72	2.52	HOA0971-N51
	Open Collector	12	15	70	480-1943-ND	4.70	3.42	3.17	HOA6961-T51
12	Schmitt Trigger	12	12	60/15	480-1941-ND	4.54	3.30	3.06	HOA2004-001
13	Transistor	12	12	60/6	480-1942-ND	7.81	5.68	5.26	HOA2005-001
14	Totem Pole	7	15	70	480-1944-ND	3.91	2.84	2.63	HOA6972-N55
		12	15	70	480-1946-ND	6.19	4.50	4.17	HOA6991-T55
					Connectorized Transmissive				
14	Totem Pole	5.5	40	70	480-1947-ND	8.06	5.86	5.43	HOA7720-M22
					Encoder Detector				
15	Inverting Logic	5.5	7	100	480-1949-ND	2.59	1.88	1.74	HLC2701-001

Reflective Object Sensors

Fig.	Output Type	VCC (V)	Max. Output Current (mA)	Rise/ Fall (µs)	Digi-Key Part No.	Price Each 1	100	250	Honeywell Part No.
16	Transistor	30	30	15	480-1928-ND	3.36	2.44	2.26	HOA0149-001
17	Transistor	30	30	15	480-1935-ND	3.36	2.44	2.26	HOA1397-002
	Darlington	15	30	75	480-1936-ND	3.41	2.48	2.30	HOA1397-032
18	Transistor	30	30	15	480-1948-ND	2.01	1.46	1.36	HLC1395-001
19	Transistor	30	30	15	480-1985-ND	12.35	8.98	8.31	HOA1180-002
20	Transistor	30	30	15	480-1986-ND	10.31	7.50	6.94	HOA1404-002
21	Transistor	30	0.2	15	480-1987-ND	3.80	2.76	2.56	HOA1405-001
		30	0.8	15	480-1988-ND	3.85	2.80	2.59	HOA1405-002
					Transmissive				
22	Transistor	30	30	15	480-1989-ND	7.98	5.80	5.37	HOA1877-001

Slotted Optical Sensors

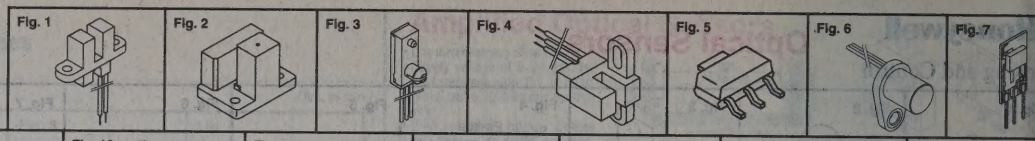
Fig.	Output Type	VCC (V)	Max. Output Current (mA)	Rise/ Fall (µs)	Digi-Key Part No.	Price Each 1	100	250	Honeywell Part No.
10	Transistor	30	15	15	480-1939-ND	5.28	3.84	3.56	HOA1881-012
		30	30	15	480-1931-ND	4.76	3.46	3.21	HOA0890-L51
11	Transistor	30	30	15	480-1938-ND	4.24	3.08	2.85	HOA1879-015
11	Transistor	30	30	15	480-1929-ND	2.83	2.06	1.91	HOA0866-T55
		30	30	15	480-1930-ND	3.33	2.42	2.24	HOA0875-N51
24	Transistor	30	82	15	480-1940-ND	2.50	1.82	1.69	HOA1882-012
25	Transistor	30	30	15	480-1937-ND	6.52	4.74	4.39	HOA1870-031
					Transmissive Encoder				
23	TTL	5.5	12	20µs	480-1932-ND	7.59	5.52	5.11	HOA0902-011

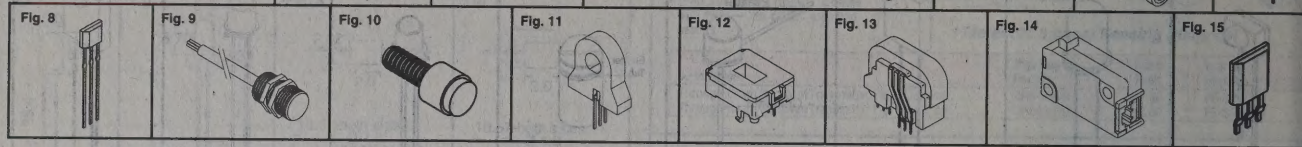
N

Honeywell

Sensing and Control

Sensors





Hall Effect Sensors

Fig.	Supply Voltage	Output Current	Output Type	Terminal Type	Polarity	Digi-Key Part No.	Price Each 1	50	100	T & R Pricing * 1,000	Honeywell Part No.
1	3.8 VDC ~ 30 VDC	10 mA	Sink	Lead Wires	—	480-1992-ND	5.75	4.89	4.32	—	SR16C-J6
2	4.5 VDC ~ 24 VDC	40 mA	Sink	Lead Wires	—	480-1990-ND	21.75	18.49	16.32	—	4AV16F
3	3.8 VDC ~ 30 VDC	20 mA	Sink	Lead Wires	Unipolar	480-1991-ND	4.30	3.66	3.23	—	SR13C-A1
4	3.8 VDC ~ 30 VDC	40 mA	Sink	Lead Wires	—	480-1993-ND	5.80	4.93	4.35	—	SR17C-J6
5	4.5 VDC ~ 24 VDC	20 mA	Sink	SOT89	Bipolar	480-2010-1-ND	2.60	2.24	1.86	1116.00	SS51T
6	4.5 VDC ~ 24 VDC	40 mA	Sink	Lead Wires	—	480-2021-ND	22.84	19.43	17.14	—	1GT101DC
7	8 VDC ~ 16 VDC	10 mA	Source	PC Board	Ratiometric Linear	480-2007-ND	10.80	9.18	8.10	—	91SS12-2
	6.6 VDC ~ 12.6 VDC	1 mA	Sink/Source		Ratiometric	480-2008-ND	13.70	11.65	10.28	—	SS94A1
	6.6 VDC ~ 12.6 VDC	1 mA	Sink/Source		Ratiometric	480-2009-ND	16.00	13.60	12.00	—	SS94A1F
5	3.8 VDC ~ 30 VDC	20 mA	Sink	SOT89	Bipolar	480-2011-1-ND	3.17	2.73	2.27	1361.00	SS511AT
	3.8 VDC ~ 30 VDC		Sink		Unipolar	480-2012-1-ND	3.17	2.73	2.27	1361.00	SS541AT
	3.8 VDC ~ 30 VDC		Sink		Bipolar Latch	480-2013-1-ND	3.17	2.73	2.27	1361.00	SS561AT
8	4.5 VDC ~ 24 VDC	20 mA	Sink	PC Board	Bipolar	480-1998-ND	1.30	1.05	.84	—	SS40A
	4.5 VDC ~ 24 VDC	20 mA	Sink		Bipolar	480-1999-ND	1.69	1.35	1.09	—	SS41
	3.8 VDC ~ 30 VDC	20 mA	Sink		Bipolar	480-2000-ND	2.15	1.72	1.39	—	SS411A
	3.8 VDC ~ 30 VDC	20 mA	Sink		Unipolar	480-2001-ND	2.15	1.72	1.39	—	SS441A
	3.8 VDC ~ 30 VDC	20 mA	Sink		Unipolar	480-2002-ND	1.80	1.45	1.17	—	SS443A
	3.8 VDC ~ 30 VDC	20 mA	Sink		Bipolar Latch	480-2003-ND	2.15	1.72	1.39	—	SS461A
	3.8 VDC ~ 30 VDC	20 mA	Sink		Bipolar Latch	480-2004-ND	1.86	1.49	1.20	—	SS466A
	4.5 VDC ~ 10.5 VDC	1.5 mA	Sink/Source		Ratiometric	480-2005-ND	3.02	2.42	1.95	—	SS495A
	3 VDC ~ 6.5 VDC	1.5 mA	Source		Analog	480-2006-ND	1.80	1.45	1.17	—	SS49E
9	4.5 VDC ~ 24 VDC	20 mA	Sink	Lead Wires	Unipolar	480-2014-ND	20.90	17.77	15.68	—	103SR13A-1

* For Tape and Reel part number, change -1-ND to -2-ND

Magnet

Fig.	Outside Diameter mm (inch)	Thread Dim.	Length mm (inch)	Digi-Key Part No.	Price Each 1	50	100	Honeywell Part No.
10	7.9 (0.31)	8-32	17.0 (0.67)	480-2015-ND	7.10	6.04	5.33	102MG11

Current Sensor

Fig.	Supply Voltage	Output Current	Output Type	Terminal Type	Polarity	Sensor Type	Current Type	Response Time	Digi-Key Part No.	Price Each 1	50	100	Honeywell Part No.
11	5.4 VDC ~ 13.2 VDC	—	Voltage	PCB	—	Open Loop Linear	AC or DC	3µs	480-1994-ND	14.05	11.95	10.54	CSLA2CD
12	4.5 VDC ~ 10.5 VDC	1.5 mA	Voltage	PCB	Positive	Open Loop	DC	50µs	480-1995-ND	6.35	5.40	4.77	CSLH3A45
13	4.75 VDC ~ 5.25 VDC	12.5 mA	Current	PCB	—	Closed Loop Linear	AC or DC	≤0.2µs	480-1996-ND	21.10	17.94	15.83	CSNX25

Switch

Fig.	Supply Voltage	Output Current	Output Type	Transistor State	Digi-Key Part No.	Price Each 1	50	100	Honeywell Part No.
14	4.5 VDC ~ 24.0 VDC	10 mA	Sink	Normally Off	480-2018-ND	7.30	6.21	5.45	VX10
					480-2019-ND	7.30	6.21	5.48	VX80
					480-2020-ND	10.50	8.93	7.88	VX80-C1

MR

Fig.	Supply Voltage	Output Current	Output Type	Polarity	Operate Point	Release Point @25°C	Digi-Key Part No.	Price Each 1	50	100	Honeywell Part No.
15	3.8 VDC ~ 30.0 VDC	20 mA	Sink	Omnipolar	1.5 mT	1.1 mT	480-1997-ND	2.68	2.14	1.73	2SS52M

Temperature

Fig.	Supply Voltage	Supply Current	Temp. Sensing Range	Length (Inch)	Termination	Packaging Type	Digi-Key Part No.	Price Each 1	50	100	Honeywell Part No.
9	10.0 VDC	1 mA	—	1.5	Lead Wires	3/8-24 UNF-2A	480-2016-ND	27.00	22.95	20.25	TD4A
8	10.0 VDC	1 mA	-40°C ~ 150°C	—	SIP	Plastic Case	480-2017-ND	3.50	2.98	2.63	TD5A

Panasonic®

Hall Effect Sensor ICs

Panasonic's Hall IC is a combination of a Hall element, amplifier, Schmidt circuit, and stabilized power supply/temperature compensator integrated on an identical chip by using the IC technology. It amplifies Hall element output at the amplifier, converts into a digital signal through the Schmidt circuit, and drives the TTL or MOS IC directly.

Features: • Stable temperature characteristics due to the additional temperature compensator • TTL and MOS ICs directly driveable by output • Semipermanent service life due to no contact parts • Small change of the operating flux density against mechanical stress • Provided with the output pull-up resistors (typ 27kΩ or open collector output (see chart) • Operating Temperature: -40°C ~ 100°C (-40°C ~ 85°C f DN6851 - DN6853) • Supply Current Max: 6mA • Output Circuit Ma 20mA

Applications: • Speed Sensors • Position Sensors • Rotation Senso • Keyboard Switches • Microswitches

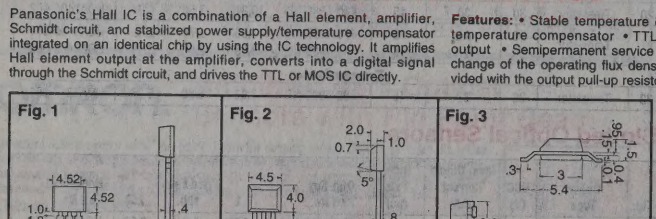


Fig.	Supply Voltage Range (V)	Oper.** Flux Density (Gauss) (L-H)	(H-L)	Output* Type	Oper.† Type	Pkg.	Digi-Key Part No.	Price Each 1	10	100
1	4.5 ~ 16	-175	175	Pull-up	Bidirectional	3-Sip	DN6847SE-ND	1.68	1.35	1.01
2	4.5 ~ 16	5	220	OC	Unidirectional	3-Sip	DN6848-ND	1.04	.87	.70
3	4.5 ~ 16	5	220	OC	Unidirectional	SOH-4D	DN6848S-ND	1.04	.87	.70
2	4.5 ~ 16	-175	175	OC	Bidirectional	3-Sip	DN6849-ND	1.69	1.36	1.02
3	4.5 ~ 16	-175	175	OC	Bidirectional	SOH-4D	DN6849S-ND	1.69	1.36	1.02
1	4.5 ~ 16	-175	175	OC	Bidirectional	3-Sip	DN6849SE-ND	1.69	1.36	1.02
2	3.6 ~ 16	-200	200	Pull-up	Bidirectional	3-Sip	DN6851-A-ND	.90	.76	.61
2	3.6 ~ 16	100	450	OC	Unidirectional	3-Sip	DN6852-A-ND	1.04	.87	.70
2	4.5 ~ 16	-120	120	Pull-up	Bidirectional	3-Sip	DN8897-ND	1.69	1.36	1.02
	4.5 ~ 16	-120	120	OC	Bidirectional	3-Sip	DN8899-ND	1.69	1.36	1.02

* Output Type: Pull-up Resistors = 27K Internal; OC = Open Collector. ** To convert Gauss to millitesla, divide by 10
† Unidirectional and is only sensitive to either north or southside of magnetic; Bidirectional is sensitive to an alternating magnetic fields of both north and south sides.

N

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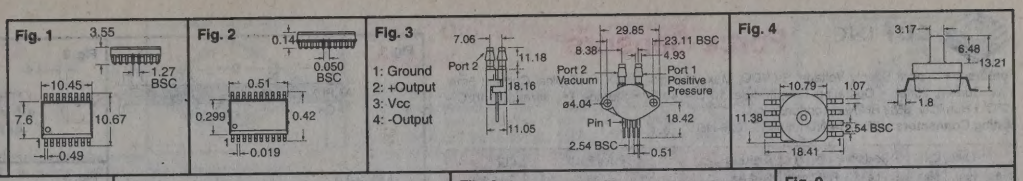
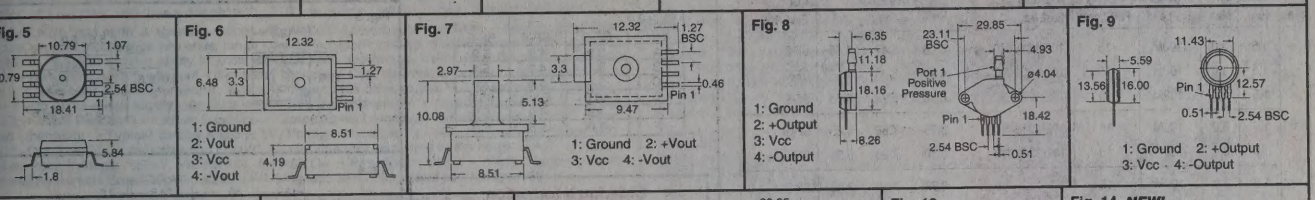
Sensors





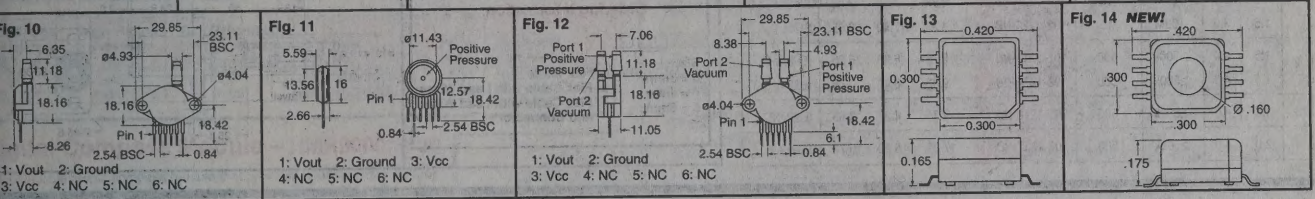


Fig. 10
1: Vout 2: Ground
3: Vcc 4: NC 5: NC 6: NC
Fig. 11
1: Vout 2: Ground 3: Vcc
4: NC 5: NC 6: NC
Fig. 12
1: Vout 2: Ground
3: Vcc 4: NC 5: NC 6: NC
Fig. 13
Fig. 14 NEW!

Accelerometers

Operating Temperature Range: -40°C ~ 85°C • **Supply (typ.):** 5.0VDC

The device can measure both +/- acceleration. With no input acceleration the output is at midsupply. For positive acceleration the output will increase above Vdd/2 and for negative acceleration the output will decrease below Vdd/2.

Fig.	Supply (VDC)	Acceleration Range	Sensitivity (mV/g/V)	Zero g Output (Vdd 5V)*	Digi-Key Part No.	Price Each 1	25	100
1	4.75 ~ 5.25	8g	50	2.5V	MMA1220D-ND	15.32	11.59	10.68
1	4.75 ~ 5.25	38g	10	2.5V	MMA2201D-ND	15.32	11.59	10.68
2	4.75 ~ 5.25	45g	10	2.5V	MMA3201D-ND	15.32	11.59	10.68
1	4.75 ~ 5.25	47g	1.6	2.5V	MMA1200D-ND	15.32	11.59	10.68
1	4.75 ~ 5.25	47g	8	2.5V	MMA2202D-ND	15.32	11.59	10.68
1	4.75 ~ 5.25	1.5g	240	2.5V	MMA2260D-ND	15.32	11.59	10.68

Precision Temperature Compensated Pressure Sensors

• **Operating Temperature Range:** -40°C ~ 125°C

Fig.	Pressure	Pressure Type	Output	Package	Supply (VDC)	Response Time*	Compensated Temp. Range (°C)	Digi-Key Part No.	Price Each 1	25	100
				Unamplified Uncompensated Pressure Sensors							
3	0 ~ 1.45 PSI	Differential	35mV	344C-01	3.0	1.0ms	—	MPX10DP-ND	12.03	9.16	8.59
				Unamplified Temperature Compensated Pressure Sensors							
9	0 ~ 1.45 PSI	Differential	25mV	344-15	10.0	1.0ms	0 ~ 85	MPX2010D-ND	13.63	10.49	9.85
3	0 ~ 1.45 PSI	Differential	25mV	344C-01	10.0	1.0ms	0 ~ 85	MPX2010DP-ND	14.43	11.15	10.48
8	0 ~ 1.45 PSI	Gage	25mV	344B-01	10.0	1.0ms	0 ~ 85	MPX2010GP-ND	14.27	11.02	10.35
6	0 ~ 1.45 PSI	Differential	25mV	MPAK	10.0	1.0ms	0 ~ 85	MPXM2010D-ND	7.90	5.80	5.40
7	0 ~ 1.45 PSI	Gage	25mV	Ported MPAK	10.0	1.0ms	0 ~ 85	MPXM2010GS-ND	8.07	5.93	5.53
8	0 ~ 7.25 PSI	Gage	40mV	344B-01	10.0	1.0ms	0 ~ 85	MPX2050GP-ND	15.85	12.34	11.61
6	0 ~ 7.25 PSI	Differential	40mV	MPAK	10.0	1.0ms	0 ~ 85	MPXM2053D-ND	7.90	5.80	5.40
7	0 ~ 7.25 PSI	Gage	40mV	Ported MPAK	10.0	1.0ms	0 ~ 85	MPXM2053GS-ND	8.07	5.93	5.53
6	0 ~ 14.5 PSI	Absolute	40mV	MPAK	10.0	1.0ms	0 ~ 85	MPXM2102A-ND	7.90	5.80	5.40
7	0 ~ 14.5 PSI	Absolute	40mV	Ported MPAK	10.0	1.0ms	0 ~ 85	MPXM2102AS-ND	8.07	5.93	5.53
6	0 ~ 14.5 PSI	Differential	40mV	MPAK	10.0	1.0ms	0 ~ 85	MPXM2102D-ND	7.90	5.80	5.40
7	0 ~ 14.5 PSI	Gage	40mV	Ported MPAK	10.0	1.0ms	0 ~ 85	MPXM2102GS-ND	8.07	5.93	5.53
6	0 ~ 29 PSI	Absolute	40mV	MPAK	10.0	1.0ms	0 ~ 85	MPXM2202A-ND	7.90	5.80	5.40
7	0 ~ 29 PSI	Absolute	40mV	Ported MPAK	10.0	1.0ms	0 ~ 85	MPXM2202AS-ND	8.07	5.93	5.53
6	0 ~ 29 PSI	Differential	40mV	MPAK	10.0	1.0ms	0 ~ 85	MPXM2202D-ND	7.90	5.80	5.40
7	0 ~ 29 PSI	Gage	40mV	Ported MPAK	10.0	1.0ms	0 ~ 85	MPXM2202GS-ND	8.07	5.93	5.53
8	0 ~ 29 PSI	Gage	40mV	344B-01	10.0	1.0ms	0 ~ 85	MPX2200GP-ND	15.85	12.34	11.61
3	0 ~10 KPA	Differential	55mV	344C-01	3.0	1.0ms	-40 ~ 125	MPX12DP-ND	12.45	9.42	8.68
3	0 ~ 50 KPA	Differential	40mV	344C-01	10.0	1.0ms	-40 ~ 125	MPX2053DP-ND	15.32	11.59	10.68
3	0 ~ 100 KPA	Differential	40mV	344C-01	10.0	1.0ms	-40 ~ 125	MPX2100DP-ND	17.24	13.04	12.02
8	0 ~ 100 KPA	Gage	40mV	344B-01	10.0	1.0ms	-40 ~ 125	MPX2100GP-ND	17.04	12.89	11.89
9	1 ~ 200 KPA	Differential	40mV	344-15	10.0	1.0ms	-40 ~ 125	MPX2200D-ND	16.28	12.31	11.35
8	0 ~ 50 KPA	Gage	60mV	344B-01	3.0	1.0ms	-40 ~ 125	MPX53GP-ND	11.30	8.55	7.88
				Amplified Temperature Compensated Pressure Sensors							
4	0 ~ 3.92 KPA	Gage	4.9V	Ported 8-SOP	5.0	—	0 ~ 85	MPXV5004GC6U-ND	18.19	14.31	13.48
12	0 ~ 1.45 PSI	Differential	4.7V	867C-05	5.0	1.0ms	-40 ~ 125	MPX5010DP-ND	18.34	14.44	13.61
10	0 ~ 1.45 PSI	Gage	4.7V	867B-04	5.0	1.0ms	-40 ~ 125	MPX5010GP-ND	18.19	14.31	13.48
11	0 ~ 7.25 PSI	Differential	4.7V	867-08	5.0	1.0ms	-40 ~ 125	MPX5050D-ND	17.57	13.78	12.98
12	0 ~ 7.25 PSI	Differential	4.7V	867C-05	5.0	1.0ms	-40 ~ 125	MPX5050DP-ND	18.34	14.44	13.61
10	0 ~ 7.25 PSI	Gage	4.7V	867B-04	5.0	1.0ms	-40 ~ 125	MPX5050GP-ND	18.19	14.31	13.48
10	0 ~ 14.5 PSI	Absolute	4.7V	867B-04	5.0	1.0ms	0 ~ 85	MPX5100AP-ND	18.19	14.31	13.48
12	0 ~ 14.5 PSI	Differential	4.7V	867C-05	5.0	1.0ms	0 ~ 85	MPX5100DP-ND	18.34	14.44	13.61
10	0 ~ 14.5 PSI	Gage	4.7V	867B-04	5.0	1.0ms	0 ~ 85	MPX5100GP-ND	18.19	14.31	13.48
4	2.18 ~ 14.8 PSI	Absolute	4.95V	Ported 8-SOP	5.1	15.0ms	-40 ~ 125	MPXA4101AC6U-ND	18.19	14.31	13.48
5	2.9 ~ 15.2 PSI	Absolute	4.9V	8-SOP	5.1	1.0ms	-40 ~ 125	MPXAZ4100A6U-ND	17.80	13.98	13.17
4	2.9 ~ 15.2 PSI	Absolute	4.9V	Ported 8-SOP	5.1	1.0ms	-40 ~ 125	MPXAZ4100AC6U-ND	18.42	14.50	13.67
10	2.9 ~ 15.2 PSI	Absolute	4.8V	867B-04	5.1	1.0ms	0 ~ 85	MPX4100AP-ND	18.19	14.31	13.48
11	2.2 ~ 16.7 PSI	Absolute	4.8V	867-08	5.1	1.0ms	-40 ~ 125	MPX4115A-ND	17.57	13.78	12.98
10	2.2 ~ 16.7 PSI	Absolute	4.8V	867B-04	5.1	1.0ms	-40 ~ 125	MPX4115AP-ND	18.19	14.31	13.48
5	2.9 ~ 15.2 PSI	Absolute	4.8V	8-SOP	5.1	1.0ms	-40 ~ 125	MPXA4100A6U-ND	17.57	13.78	12.98
4	2.9 ~ 15.2 PSI	Absolute	4.8V	Ported 8-SOP	5.1	1.0ms	-40 ~ 125	MPXA4100AC6U-ND	18.19	14.31	13.48
5	2.2 ~ 16.7 PSI	Absolute	4.8V	8-SOP	5.1	1.0ms	-40 ~ 125	MPXA4115A6U-ND	17.57	13.78	12.98
4	2.2 ~ 16.7 PSI	Absolute	4.8V	Ported 8-SOP	5.1	1.0ms	-40 ~ 125	MPXA4115AC6U-ND	18.19	14.31	13.48
5	2.2 ~ 16.7 PSI	Absolute	4.8V	8-SOP	5.0	1.0ms	-40 ~ 125	MPXA6115A6U-ND	17.57	13.78	12.98
4	2.2 ~ 16.7 PSI	Absolute	4.8V	Ported 8-SOP	5.0	1.0ms	-40 ~ 125	MPXA6115AC6U-ND	18.19	14.31	13.48
5	2.2 ~ 16.7 PSI	Absolute	4.8V	8-SOP	5.1	1.0ms	-40 ~ 125	MPXAZ4115A6U-ND	17.80	13.98	13.17
4	2.2 ~ 16.7 PSI	Absolute	4.8V	Ported 8-SOP	5.1	1.0ms	-40 ~ 125	MPXAZ4115AC6U-ND	18.42	14.50	13.67
10	2.9 ~ 36.3 PSI	Absolute	4.9V	867B-04	5.1	1.0ms	-40 ~ 125	MPX4250AP-ND	18.19	14.31	13.48
5	2.9 ~ 36.3 PSI	Absolute	4.9V	8-SOP	5.1	1.0ms	-40 ~ 125	MPXA4250A6U-ND	17.57	13.78	12.98
4	2.9 ~ 36.3 PSI	Absolute	4.9V	Ported 8-SOP	5.1	1.0ms	-40 ~ 125	MPXA4250AC6U-ND	18.19	14.31	13.48
14	0 ~ 637.5 KPA	Absolute	Vdd-0.8	8-TPMP	3.0	0.1ms	-40 ~ 125	MPXY8020A6T1CT-ND ***NEW!***	17.57	13.78	12.98
14	0 ~ 637.5 KPA	Absolute	Vdd-0.8	8-TPMP	3.0	0.1ms	-40 ~ 125	MPXY8020A6T1TR-ND ***NEW!***		12000.00/1,000	
12	0 ~ 101.5 PSI	Differential	4.7V	867C-05	5.0	1.0ms	0 ~ 85	MPX5700DP-ND	18.34	14.44	13.61
10	0 ~ 101.5 PSI	Gage	4.7V	867B-04	5.0	1.0ms	0 ~ 85	MPX5700GP-ND	18.19	14.31	13.48
11	0 ~ 101.5 PSI	Differential	4.7V	867-08	5.0	1.0ms	0 ~ 85	MPX5999D-ND	17.57	13.78	12.98
13	0 ~ 16.7 PSI	Absolute	4.7V	SSOP	5.0	1.0ms	-40 ~ 125	MPXH6115A6T1CT-ND	15.32	11.59	10.68
13	0 ~ 16.7 PSI	Absolute	4.7V	SSOP	5.0	1.0ms	-40 ~ 125	MPXH6115A6T1TR-ND		9816.00/1,000	
11	30 ~ 105 KPA	Absolute	4.9V	867-08	5.0	1.0ms	-40 ~ 125	MPX4100A-ND	17.57	13.78	12.98
12	0 ~ 250 KPA	Differential	4.9V	867C-05	5.0	1.0ms	-40 ~ 125	MPX4250DP-ND	18.45	14.47	13.63
				NEW! Sensor Development Kit NEW!							
	Tire Pressure Evaluation Kit Using MPXY8020A							KIT1951MPXY8020A-ND	413.40	368.10	360.00

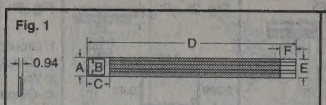
*Response time is defined as the time for the incremental change in output to go from 10% to 90% of its final value when subjected to a specified step change in pressure.

CUI INC Force Sensors

Features: • Typical Supply Voltage: 3-6VDC, Max. Voltage: 30VDC • Typical Current: 5mA, Max. Current: 20mA • Operating Temperature: 10°C ~ 40°C • Storage Temperature: -40°C ~ 70°C • Humidity: 85% RH Non-condensating
Mating Connectors: 455-1014-ND and 455-1028-ND

Fig.	Load (kgf) Nom.	Load (kgf) Max.	Resistance @(Ω) No Load	Resistance @(Ω) Full Load	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 25	CUI Part No.
1	1.5	3.0	100M	15	102-1218-ND	6.08	5.47	4.85	SF-3
	1.5	3.0	100M	15	102-1221-ND	6.25	5.63	4.95	SF-4
	1.5	3.0	100M	15	102-1224-ND	6.38	5.74	5.05	SF-5
	1.5	3.0	100M	15	102-1219-ND	8.75	7.88	6.45	SF-3L
	1.5	3.0	100M	15	102-1222-ND	8.10	7.20	6.55	SF-4L
	1.5	3.0	100M	15	102-1220-ND	8.78	7.80	7.05	SF-3LT
	1.5	3.0	100M	15	102-1223-ND	8.33	7.40	6.95	SF-4LT
2	1.5	4.0	≥500k	500	102-1212-ND	6.75	6.08	5.25	IESF-R-5
	1.5	4.0	≥500k	500	102-1214-ND	9.45	8.40	7.45	IESF-R-5LT
3	1.5	4.0	≥500k	500	102-1211-ND	4.75	4.28	3.65	IESP-12
4	2.0	4.0	≥500k	500	102-1227-ND	17.89	15.90	15.70	SS-13

Fig. 1



Model / Item	SF-3	SF-4	SF-5
A	3.9	4.9	5.9
B	3.1	4.1	5.1
C	5.0	5.8	7.0
D	50.0	50.0	65.0
E	3.9	4.9	5.9
F	5.0	5.5	5.0

Fig. 2

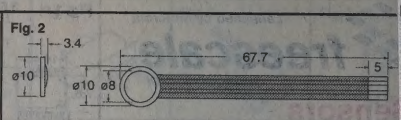


Fig. 3

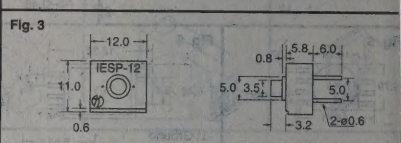
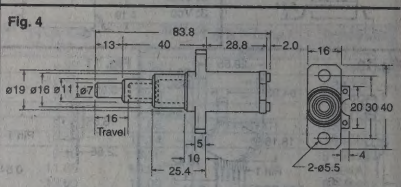


Fig. 4



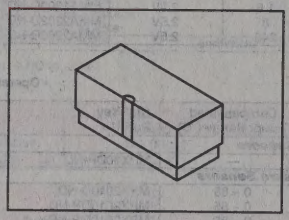
Ordering Information

Size
3 = 3mm
4 = 4mm
5 = 5mm

Blank: Flex Cable
L: Flex Cable with Lead Wires
LT: Flex Cable with Lead Wires and Connector

Honeywell Sensors

3-Axis Magnetoresistive



Configured as three magnetoresistive sensors in x, y and z orientation, these highly sensitive sensors convert all three magnetic field axes to a differential output voltage.

Features:

• Field range of ±6 gauss, (earth's field = 0.5 gauss) while maintaining high sensitivity with a minimal detectable field down to 85 µgauss • Small package designed to work as a single stand-alone three-axis (x, y, z) magnetoresistive sensing system • Custom Ball Grid Array (BGA), 1mm pitch, 16-pin miniature package provides a small footprint and accurate sensor placement for orthogonal three-axis sensing applications • Solid state device reduces board assembly costs, improves reliability and ruggedness compared to mechanical fluxgates • Patented on-chip set/reset and offset straps have been improved and now require 50% less power to drive the set-reset and offset functions • Operates with a 3V to 25V power supply, lowering power consumption and reducing support circuitry

Applications:

• Compassing • Navigation systems • Attitude reference • Virtual reality • Traffic detection • Proximity detection • Medical devices

Specifications:

• Operating Temperature: -40°C ~ 125°C, ambient
• Field Range: ±6 gauss; Full scale (FS) - total applied field
• Typical Linearity Error: 1.6% FS; Best fit straight line (at 25°C) ±6 gauss
• Typical Hysteresis Error: 0.08% FS; 3 sweeps across ±3 gauss @ 25°C
• Typical Sensitivity: 1.0mV/V/gauss; At Vbridge +5V
• Typical Resolution: 85 µgauss; Bandwidth = 10Hz, Vbridge = 5V
• Bandwidth: 5MHz; Magnetic signal (lower limit = DC)

Units: 1 gauss (G) = 1 Oersted (in air), 1G = 79.58A/m, 1G = 10E-4 Tesla, 1G = 10E5 gamma

Description	Digi-Key Part No.	Price Each	Honeywell Part No.
3-Axis Magnetoresistive Sensor	342-1006-ND	75.00	HMC1023
HMC Mounted on 16-Pin DIP Socket Demo Kit	342-1007-ND	100.00	HMC PCB

1, 2 and 3-Axis Magnetoresistive

Configured as a 4-element wheatstone bridge, these highly sensitive sensors convert magnetic fields to differential output voltages, capable of sensing magnetic fields as low as 30 µgauss.

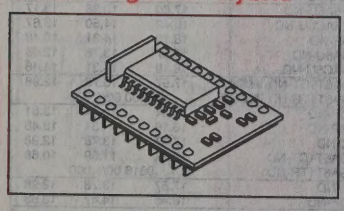
Features: • Field range up to ±6 gauss, (earth's field = 0.5 gauss) • Small package designed for 1- and 2-axis to work together to provide 3-axis (x, y, z) sensing • Solid state devices reduce board assembly costs, improve reliability and ruggedness compared to mechanical fluxgates • Patented on-chip set/reset straps to reduce effects of temperature drift, non linearity errors and loss of signal output due to the presence of high magnetic fields • Patented on-chip offset straps for elimination of the effects of hard iron distortion. **Applications:** • Compassing • Navigation systems • Attitude reference • Traffic detection • Medical devices • Non-contact switch

SPECIFICATIONS: (See notes below)	Digi-Key Part No. 342-1001-5-ND 342-1002-5-ND	342-1003-5-ND 342-1004-5-ND 342-1005-5-ND	342-1029-5-ND 342-1034-5-ND 342-1035-5-ND 342-1042-5-ND 342-1043-5-ND	342-1041-5-ND	Conditions
Operating Temp.	-40°C ~ 85°C *	-40°C ~ 85°C	-40°C ~ 125°C	-20°C ~ 70°C	Ambient
Field Range	±2 gauss †Δ*	±6 gauss	±6 gauss	0.10 to 0.75 gauss ‡	Full scale (FS) - total applied field
Sensitivity Typical (†Δ)	3.2 mV/V/gauss	1.0mV/V/gauss	1.0mV/V/gauss	20 gauss	At IOFFSET = ±50mA, Vbridge = 8V (Vbridge = 5V for 342-1003/1004/1005-5-ND) (Set/Rest Current = 0.5A for 342-1029/1034/1035/1042/1043-5-ND) (Enable set/reset function to restore sensitivity for 342-1041-5-ND)
Resolution Typical	27 µgauss	85 µgauss	—	—	Bandwidth = 10Hz, Vbridge = 5V
	—	—	120 µgauss	—	Bandwidth = 50Hz, Vbridge = 5V
	—	—	—	0.3°	—
Bandwidth	5MHz	5MHz	5MHz	—	Magnetic signal (lower limit = DC)
Units: 1 gauss (G) = 1 Oersted (in air), 1G = 79.58A/m, 1G = 10E-4 Tesla, 1G = 10E5 gamma					

Notes:
† VBridge = 4.3V, IS/R = 3.2A, T = 25°C . VOUT = VSET - VRESET
Δ If VBridge = 8.0V, IS/R = 2.0A, T = 25°C, lower S/R current leads to greater output variation
* Not tested, guaranteed by characterization
‡ Field upper limit can be extended by using external resistors across CA1/CA2 and CB1/CB2

Description	Digi-Key Part No.	Price Each 1	Price Each 5	Price Each 25	Honeywell Part No.
8-Pin SIP, Single Axis	342-1001-5-ND	25.50	19.13	17.00	HMC1001
20-Pin SOIC, Double Axis	342-1002-5-ND	40.50	30.38	27.00	HMC1002
8-Pin SOIC, Single Axis	342-1003-5-ND	10.50	7.88	7.00	HMC1021S
8-Pin SIP, Single Axis	342-1004-5-ND	10.50	7.88	7.00	HMC1021Z
16-Pin SOIC, Double Axis	342-1005-5-ND	13.50	10.13	9.00	HMC1022
10-Pin MSOP, Double Axis	342-1029-5-ND	12.75	9.57	8.50	HMC1052
8-Pin SIP, Single Axis	342-1034-5-ND	12.75	9.57	8.50	HMC1051Z
8-Pin In-Line LCC, Single Axis	342-1043-5-ND	30.00	22.50	20.00	HMC1051ZL
16-Pin LCC, Double Axis	342-1042-5-ND	27.00	20.25	18.00	HMC1052L
16-Pin LCC, Triple Axis	342-1035-5-ND	105.00	78.75	70.00	HMC1053
24-Pin LCC, Double Axis	342-1041-5-ND	50.00	—	—	HMC6352
3-Axis Compass Sensor Set with (1 each) HMC1051Z, HMC1052, MEMSIC MXS3334UL	342-1036-ND	60.00	45.00	40.00	HMC1055

3-Axis Magnetic - Hybrid



A complete 3-axis magnetometer with analog output in a 20-Pin hybrid DIP package.

Features: • DIP-20 footprint (1" x .75") allows easy insertion into system-level boards, reducing development costs • Solid state components improve reliability and ruggedness compared to mechanical fluxgates • Accurately measures fields from 40 µgauss to ±2 gauss at 1V/gauss • Low noise instrumentation amplifiers with 1kHz low pass filters, reject unwanted noise • No flux concentrators used in this design that can lead to hysteresis and non-repeatability • An externally accessible +2.5V reference improves measurement accuracy and stability • On-board excitation current source reduces temperature errors and regulates the power supply input • Magnetic field offsets or closed loop circuits can be applied using the built-in straps • Output signal accuracy may be enhanced by using the integral set/reset straps • All components selected and packaged in nonmagnetic material to reduce magnetic distortion and offsets.

Applications: • Compassing • Navigation systems • Attitude reference • Traffic detection • Proximity detection • Medical devices

Specifications (Power Supply: +15VDC; Set/Reset switching is active): • Operating Temperature: -40°C ~ 85°C, ambient @ 25°C • Supply Voltage: 6VDC ~ 15VDC; Transient protection circuitry should be added across V+ and Gnd if an unregulated power supply is used • Supply Current: 20mA • Output Voltage: 0.5V ~ 4.5V • Field Range: ±2 gauss • Typical Linearity Error: 1% FS; ±2 gauss applied field sweep • Typical Hysteresis Error: 0.05% FS; 3 sweeps across ±2 gauss • Typical Sensitivity: 1.0mV/V/gauss; At Vbridge +5V • Typical Resolution: 40 µgauss • Bandwidth: 1KHz

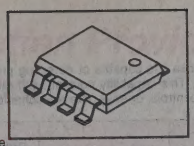
Units: 1 gauss (G) = 1 Oersted (in air), 1G = 79.58A/m, 1G = 10E-4 Tesla, 1G = 10E5 gamma

Description	Digi-Key Part No.	Price Each	Honeywell Part No.
3-Axis Magnet Sensor Hybrid	342-1011-ND	199.00	HMC2003

More Product Available Online: www.digikey.com
Toll-Free: 1-800-344-4539 • Phone: 218-681-6674 • Fax: 218-681-3380

Honeywell Sensors

near / Angular / Rotary Displacement ensors – HMC1501 / HMC1512

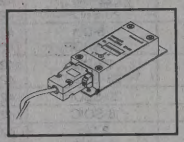


n resolution, low power MR sensor capable of measuring the angle ction of a magnetic field from a magnet with <0.07° resolution. Output is typical Wheatstone Bridge

tures: • No "rare earth" magnets; functions with Alnico or ceramic type magnets • Linear range of 8mm two sensors mounted on two ends; range may be increased through multiple sensor arrays operating ther • Absolute sensing ability to know exact position and require no indexing for proper positional ut • No moving parts to wear out • 8-pin SMT package • Case dimensions (exclusive of pins) of 5mm x n x 1.2mm total mounting envelope, with pins of less than 6mm square • Full scale output range of mV with 5V of power supply. **Applications:** • Linear Displacement • Angular Displacement • Motor trol • Valve Position • Proximity Detection • Current Spike Detection. **Specifications** (at 25°C except ed otherwise): • **Typical Bridge Supply:** 5V, Vbridge referenced to GND • Sensitivity Vbridge =5V, 80 Oe: 2.1mV/° @ zerocrossing; 1.8mV/° @ zero crossing, averaged in the range of 45° • **Typical k-to-Peak Voltage:** 120mV, Vbridge=5V, field=80 Oe • **Bandwidth:** 0MHz ~ 5MHz, Magnetic signal **pical Hysteresis Error:** 30μV°, 1.7x10⁻³ mV°, Magnetic field ≥saturation field, Vbridge = 5V

o. Bridge sistance @ 1mA	Angle Range ≥ Saturation Field	Typ. Resolution 10Hz Bandwidth Vbridge=5V <0.07°	Digi-Key Part No.	Price Each	Honeywell Part No.
5KΩ	±45°	<0.07°	342-1008-5-ND	6.15	HMC1501
2.1KΩ	±90°	<0.05°	342-1010-5-ND	6.45	HMC1512

igital Compass Module – HMR3000/3100



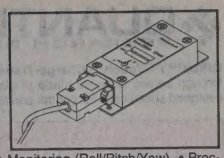
MR3000: Electronic compass module that provides heading, pitch and roll put for navigation and guidance systems. This solid state magoresistive sensors make this strapdown compass both rugged and able. This compass provides fast response time up to 20Hz and high ding accuracy of 0.5° with 0.1° resolution. HMR3100: Digital Compass ution circuit board that includes the basic magnetic sensors and ctronics to provide a digital indication of heading.

tures: HMR3000:• Built with solid state magnetic sensors and no moving parts improves response time, wing faster updates compared to gimballed fluxgates • Available as a circuit board 1.2" x 2.95", weighing s than one ounce, or in an aluminum enclosure • Operates with less than 35mA, allowing for long oper- n with a battery • Accuracy better than 0.5° with 0.1° resolution for critical positioning applications • Tilt ge of ±40° for both the roll and pitch allows operation for most applications • Calibration routines to npensate for distortion due to nearby ferrous objects and stray fields, such as vehicles • User settings of d rate, update rate, output format, units, filter settings, deviation angles, alarms, and warnings are stored rnally in non-volatile memory. HMR3100: • 5° Heading Accuracy, 0.5° Resolution • 2-axis capability mall size (19mm x 19mm x 4.5mm), light weight • Advanced hard iron calibration routine for stray fields d ferrous objects • 0°C ~ 70°C operating temperature range • 2.6 ~ 5 volt DC single supply operation

ecifications: HMR3000:• **Typical Supply Voltage:** 5.0VDC regulated, 6-15VDC unregulated • **Typical wer:** 35mA @ 6VDC Normal Operation, 13mA STOP Mode, 2.0mA SLEEP Mode • **Serial:** RS-232 / RS- 5 (Half Duplex) • **Baud Rate:** 1200 ~ 38400 bps HMR3100:• **Typical Supply Voltage:** 3.0VDC egulated • **Typical Power:** 0.2mA Normal Mode (Average 1Hz Sampling) • **Serial:** USART • **Baud te:** 2400 to 19200 bps

Serial Output	Description	Digi-Key Part No.	Price Each	Honeywell Part No.
RS-232	Without Enclosure	342-1024-ND	675.00	HMR3000-D00-232
RS-232	Enclosure, Extended Base	342-1025-ND	699.00	HMR3000-D21-232
RS-485	Without Enclosure	342-1026-ND	675.00	HMR3000-D00-485
RS-485	Enclosure, Extended Base	342-1027-ND	699.00	HMR3000-D21-485
HMR 3000 Development Kit, with RS-232 Output, Cables, Manual		342-1022-ND	750.00	HMR3000-Demo-232
USART Digital Compass Module		342-1037-ND	100.00	HMR3100
HMR 3100 Development Kit, with RS-232 Output, Cables, Manual		342-1038-ND	186.00	HMR3100-Demo-232

Smart Digital Magnetometer – HMR2300



Microcontroller-Based Smart Sensor with range of ±2 Gauss; <70μGauss Resolution. Has high accuracy over ±1 Gauss; <0.5%FS; and Output Rate Selectable of 10 to 154 Samples/Sec. This sensor has a three-axis digital output, BCD ASCII or Binary, RS-232 Serial Output (9600 or 19200), and a 9-pin D-Sub connector.

Applications: • Compassing – Avionics and Marine • Remote Vehicle Monitoring (Roll/Pitch/Yaw) • Process Control • Laboratory Instrumentation • Anomaly Detection • Traffic and Vehicle Detection • Security Systems. **Specifications:** • **Supply Voltage:** 6.5V ~ 15V; Pin 9 referenced to Pin 5 • **Typical Supply Current:** 27mA; Vsupply=15V, with S/R=ON • **Operating Temp:** -40°C ~ 85°C; Ambient • **Field Range:** ±2 gauss; Full scale (FS) - total applied field • **Typical Linearity Error:** 1%FS; Best fit straight line at 25°C ±2 Gauss • **Typical Hysteresis Error:** 0.01%FS; 3 sweeps across ±2 Gauss @ 25°C • **Minimum Resolution:** 67μgauss; Applied field to change output. (Units: 1 gauss (G) = 1 Oersted (in air), 1G=79.58A/m, 1G=10E-4 Tesla, 1G=10E5 gamma)

Serial Output	Description	Digi-Key Part No.	Price Each	Honeywell Part No.
RS-232	Without Enclosure	342-1014-ND	675.00	HMR2300-D00-232
RS-232	Flush Mount Enclosure, Aluminum, 3.25" x 1.50" x 1.13" (82.55 x 38.1 x 28.70mm)	342-1015-ND	699.00	HMR2300-D20-232
RS-232	Extended Enclosure, Aluminum, 4.00" x 1.50" x 1.13" (101.60 x 38.1 x 28.70mm)	342-1016-ND	699.00	HMR2300-D21-232
RS-485	Without Enclosure	342-1017-ND	675.00	HMR2300-D00-485
RS-485	Flush Mount Enclosure, Aluminum, 3.25" x 1.50" x 1.13" (82.55 x 38.1 x 28.70mm)	342-1018-ND	699.00	HMR2300-D20-485
RS-485	Extended Enclosure, Aluminum, 4.00" x 1.50" x 1.13" (101.60 x 38.1 x 28.70mm)	342-1019-ND	699.00	HMR2300-D21-485
RS-232	HMR2300 Development Kit with RS-232 Output, Cables, Manual	342-1012-ND	750.00	HMR2300-Demo-232

Digital Compass Module – HMR3200/3300

Electronic compassing solutions that provide heading information for use in navigation and guidance systems. Magnetoresistive sensors are utilized to provide the reliability and accuracy of these small, solid state compass designs. These compass solutions are easily integrated into systems using a UART interface in ASCII format.

Features: Accuracy: 1° heading accuracy, 0.1° resolution and 0.5° repeatability. **Tilt Range:** The HMR3300 may be operated up to a ±60° tilt range for both pitch and roll. Accuracy and performance are enhanced over a wider range of operating conditions and applications with this feature. The HMR3200 is not tilt compensated. Performance is optimized in horizontal or vertical orientations. **Low Power:** Typical operating current is 18mA for the HMR3200. **Response Time:** The HMR3200 has 15Hz response time for faster updates compared to gimballed, mechanical fluxgate compasses.

Specifications: • **Magnetic Field:** Range: ±2 gauss typical, Resolution: 0.1 mgauss • **Electrical:** Input Voltage: Unregulated: 6VDC ~ 15VDC, Regulated: 5.0Vdc • **Interface:** UART - User selectable baud rate 2400 ~ 19200 baud • **Physical:** Dimensions - Conditions: Circuit board, 1.0" x 1.45" x 0.4" (25.4 x 36.8 x 11 mm)

Header Pin Assignment	
Pin No.	Pin Name
1	SCK
2	RX/SDI
3	TX/SDO
4	CS
5	CAL
6	5V
7	GND
8	+V

Serial Output	Description	Digi-Key Part No.	Price Each	Honeywell Part No.
UART	Digital Compass Module 2-axis	342-1030-ND	300.00	HMR3200
UART	Digital Compass Module 3-axis	342-1032-ND	385.00	HMR3300
HMR 3200 Development Kit, with RS232 Output, Cables, Manual		342-1031-ND	365.00	HMR3200-Demo-232
HRMR 3300 Digital Compass Module with RS232 Motherboard		342-1039-ND	435.00	HMR3300-D00-232
HMR 3300 Development Kit, with RS232 Output, Cables, Manual		342-1033-ND	499.00	HMR3300-Demo-232

CHERRY Solid State Magnetic Hall Effect Sensors

Fig. 1

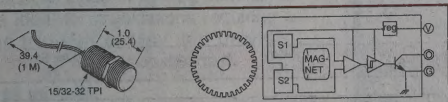


Fig. 2

Fig. 3

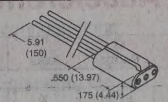


Fig. 4

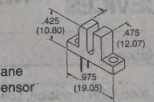


Fig. 5

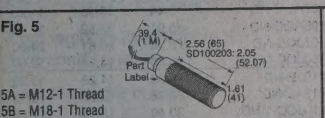


Fig. 6

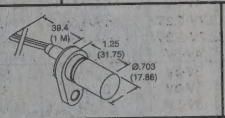


Fig. 7

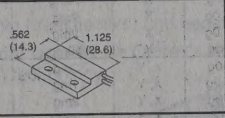
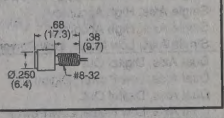


Fig. 8



herry magnetic sensors are used to detect anges in magnetic field polarities and the motion ferrous metals such as gear tooth movements. sed for such applications as speed and proximity ensing, magnetic polarity detection and current w monitoring. Solid state design for unlimited e.

eatures:

MP100 Series:

Aluminum threaded barrel sensor for speed and osition sensing • The threaded barrel allows recise positioning and adjustment

GS100 Series:

Barrel sensors intended for gear tooth speed ensing • High speed capability, ideal for sensing ower gears, conveyer speed and other rotating ears • Built-in magnet supplies its own bias field GS101202 is plastic housing with steel bushing

Fig.	Supply Voltage	Output Current	Terminal Type	Polarity	Digi-Key Part No.	Price Each 1	10	50	100	Cherry Part No.
1	4.5-24VDC	25mA	20AWG Wires	Gear Teeth	CH398-ND†	30.24	26.88	22.40	20.72	GS100701
2	4.75-24VDC	25mA	20AWG Wires	South Pole	CH396-ND†	24.44	21.72	18.10	16.75	MP100701
3	4.75-24VDC	25mA	24AWG Wires	South Pole	CH399-ND	6.08	5.40	4.50	4.17	MP101301
4	4.5-24VDC	25mA	PC Mount 24AWG Wires	Ferrous Vane	CH401-ND CH712-ND	5.08 7.29	4.52 6.48	3.76 5.40	3.48 5.00	VN101501 VN101503
5A	4.5-24VDC	25mA	20AWG Wires 22AWG Wires	Gear Teeth	CH416-ND† CH414-ND*	30.24 54.00	26.88 48.00	22.40 40.00	20.72 37.00	GS100502 GS100102
5A	4.75-24VDC 5-24VDC	25mA	20AWG Wires 22AWG Wires	South Pole	CH708-ND† CH707-ND*	24.44 36.18	21.72 32.16	18.10 26.80	16.75 24.79	MP100502 MP100102
5B	4.5-24VDC 4.5-24VDC 4.75-24VDC 5-24VDC	25mA 25mA 25mA —	12mm Conn. 22AWG Wires 12 inch Wires 20AWG Wires	Gear Teeth	CH705-ND* CH415-ND* CH855-ND CH706-ND*	58.86 57.24 58.97 52.92	52.32 50.88 52.42 47.04	43.60 42.40 43.68 39.20	40.33 39.22 40.41 36.26	GS100201 GS100202 SD100203 GS100203
6	5-24VDC	25mA	22AWG Wires	Gear Teeth	CH417-ND	32.29	28.71	23.92	22.13	GS101202
7	4.5-24VDC	25mA	24AWG Wires	North Pole	CH400-ND	6.89	6.12	5.10	4.72	MP102103
—	12mm Threaded Cord Set - straight female 36" Length				CH698-ND	29.03	25.80	21.50	19.89	AS000203
8	Threaded Actuator, South pole magnet, Aluminum Housed				CH700-ND	5.13	4.56	3.80	3.52	AS101001

* Industrial Grade-Stainless Steel † Commercial Grade Aluminum

QUANTUM RESEARCH GROUP Sensors

QProx™ / QTouch™ Charge-Transfer ("QT") General Description: These are self-contained digital capacitance ICs capable of detecting proximity, touch, and fluid level. With appropriate electrodes they can sen through sealed surfaces made of glass, plastic, stone, ceramic, and wood, up to thicknesses of several inches. This capability coupled with an ability to continuously calibrate leads to new product concepts. They a designed specifically for control panels in home appliances, PC peripherals, machinery, security systems, lighting controls, or anywhere a mechanical switch or button may be found. Versions also available for fluid sensing

Description	Supply Voltage Minimum	Supply Voltage Maximum	Supply Current (Typical)	Operating Temperature	Package	Digi-Key Part No.	Price Each 1	Price Each 50	Price Each 100	Quantum Part No.
QT110 QProx 8-Pin IC	2.45	5.25	20µA	0°C ~ 70°C	8-Dip	427-1000-ND	1.97	1.77	1.60	QT110-D
QT110 QProx 8-Pin IC				-40°C ~ 85°C	8-SOIC	427-1002-ND	1.97	1.77	1.60	QT110-IS
QT111 QProx 8-Pin IC	2.45	5.25	60µA	0°C ~ 70°C	8-Dip	427-1003-ND	1.97	1.77	1.60	QT111-D
QT111 QProx 8-Pin IC				-40°C ~ 85°C	8-SOIC	427-1005-ND	1.97	1.77	1.60	QT111-IS
QT112 QProx 8-Pin IC	2.45	5.25	60µA	-40°C ~ 85°C	8-SOIC	427-1008-ND	1.97	1.77	1.60	QT112-IS
QT113 QProx 8-Pin IC	2.45	5.25	700µA	0°C ~ 70°C	8-Dip	427-1009-ND	1.97	1.77	1.60	QT113-D
QT113 QProx 8-Pin IC				-40°C ~ 85°C	8-SOIC	427-1011-ND	1.97	1.77	1.60	QT113-IS
QT113H QProx 8-Pin IC				0°C ~ 70°C	8-Dip	427-1012-ND	1.97	1.77	1.60	QT113H-D
QT113H QProx 8-Pin IC				-40°C ~ 85°C	8-SOIC	427-1014-ND	1.97	1.77	1.60	QT113H-IS
QT114 QLevel™ 8-Pin IC	2.50	5.25	20µA	0°C ~ 70°C	8-Dip	427-1015-ND	1.97	1.77	1.60	QT114-D
QT114 QLevel 8-Pin IC				-40°C ~ 85°C	8-SOIC	427-1017-ND	1.97	1.77	1.60	QT114-IS
QT115 QProx 8-Pin IC	2.45	5.25	700µA	0°C ~ 70°C	8-Dip	427-1018-ND	1.97	1.77	1.60	QT115-D
QT115 QProx 8-Pin IC				-40°C ~ 85°C	8-SOIC	427-1020-ND	1.97	1.77	1.60	QT115-IS
QT118H QProx 8-Pin IC	2.45	5.25	20µA	0°C ~ 70°C	8-Dip	427-1021-ND	1.97	1.77	1.60	QT118H-D
QT118H QProx 8-Pin IC				-40°C ~ 85°C	8-SOIC	427-1022-ND	1.97	1.77	1.60	QT118H-IS
QT140 QProx 4-Key Sensor IC	3.0	5.5	2.5-8.0mA	0°C ~ 70°C	28-Dip	427-1059-ND	2.89	2.60	2.34	QT140-D
QT140 QProx 4-Key Sensor IC				-40°C ~ 105°C	28-SSOP	427-1060-ND	2.89	2.60	2.34	QT140-AS
QT150 QProx 5-Key Sensor IC	3.0	5.5	2.5-8.0mA	0°C ~ 70°C	28-Dip	427-1061-ND	3.27	2.94	2.65	QT150-D
QT150 QProx 5-Key Sensor IC				-40°C ~ 105°C	28-SSOP	427-1062-ND	3.27	2.94	2.65	QT150-AS
QT160 QProx 6-Key Sensor IC	3.0	5.5	2.5-8.0mA	0°C ~ 70°C	28-Dip	427-1063-ND	3.85	3.47	3.12	QT160-D
QT160 QProx 6-Key Sensor IC				-40°C ~ 105°C	28-SSOP	427-1064-ND	3.85	3.47	3.12	QT160-AS
QT161 QProx 6-Key Sensor IC	3.0	5.5	2.5-8.0mA	0°C ~ 70°	28-Dip	427-1081-ND	3.85	3.50	3.12	QT161-D
QT161 QProx 6-Key Sensor IC				-40°C ~ 105°C	28-SSOP	427-1080-ND	3.85	3.50	3.12	QT161-AS
QT240 QTouch 4-Key Sensor IC	3.9	5.0	1.5mA	-40°C ~ 85°C	20-SSOP	427-1074-ND	2.48	2.26	2.01	QT240-ISS
QT300 QProx Sensor IC	1.8	5.0	1500µA	-40°C ~ 85°C	8-SOIC	427-1058-ND	3.84	3.46	3.11	QT300-IS
QT301 Sensor IC CAC Analog Out	3.0	5.0	5000µA	0°C ~ 70°C	8-Dip	427-1072-ND	3.84	3.46	3.11	QT301-D
QT301 Sensor IC CAC Analog Out				-40°C ~ 85°C	8-SOIC	427-1073-ND	3.84	3.46	3.11	QT301-IS
QT401 QSlide™ Touch Slider IC	2.5	5.0	1.5mA max.	-40°C ~ 85°C	14-SOIC	427-1076-ND	4.25	3.87	3.45	QT401-IS
QT510 QWheel™ Touch Slider IC	2.5	5.0	1.5mA max.	-40°C ~ 85°C	14-SOIC	427-1077-ND	5.32	4.85	4.31	QT510-IS
QT1100 QTouch 10-Key Sensor IC	3.3	5.0	10mA max.	-40°C ~ 85°C	48-SSOP	427-1075-ND	4.62	4.20	3.74	QT1100A-IS
QT60040 4-Key QMatrix™ IC	2.75	5.25	650µA	0°C ~ 70°C	14-Dip	427-1032-ND	2.89	2.60	2.34	QT60040-D
QT60040 4-Key QMatrix IC				-40°C ~ 85°C	14-SOIC	427-1034-ND	2.89	2.60	2.34	QT60040-IS
QT60161B 16-Key QMatrix IC	4.75	5.25	25mA max.	-40°C ~ 105°C	44-TQFP	427-1071-ND	7.22	6.50	5.85	QT60161B-AS
QT60168 QProx 16-Key QMatrix IC	4.75	5.25	25mA max.	-40°C ~ 105°C	32-TQFP	427-1078-ND	6.18	5.57	5.01	QT60168-AS
QT60248 QProx 24-Key QMatrix™ IC	4.75	5.25	25mA max.	-40°C ~ 105°C	32-TQFP	427-1079-ND	7.78	7.02	6.31	QT60248-AS

QProx™ Evaluation Boards and Modules

Description	Digi-Key Part No.	Price Each	Quantum Part No.
QTM300CA Cloning Adapter for QT300, QT310, and QT320 ICs, with Software	427-1038-ND	49.00	QTM300CA
E3B Evaluation Board for QT310 and QT320 QProx ICs	427-1056-ND	20.00	E3B
E11X Demo Board for QT110, QT111, QT112, and QT113 QTouch™ ICs	427-1067-ND	19.95	E11X
E160 6-Key Evaluation Board	427-1068-ND	75.00	E160
E240 Evaluation Board for QT240 4-Key QTouch IC	427-1082-ND	60.00	E240
E401 Evaluation Kit for QT401 QSlide™ IC	427-1084-ND	95.00	E401 KIT
E510 Evaluation Kit for QT510 QWheel™ IC	427-1085-ND	95.00	E510 KIT
E616 Evaluation Board for QT60161 16-Key QMatrix™ IC with Software	427-1044-ND	180.00	E616
E1100 Evaluation Board for QT1100 10-Key QTouch IC	427-1083-ND	125.00	E1100
E6248 Evaluation Board for QT60248 24-Key QMatrix IC	427-1087-ND	185.00	E6248
E6486 Evaluation Board for QT60486 48-Key QMatrix IC	427-1088-ND	190.00	E6486

ANALOG DEVICES iMEMS® Accelerometers and Gyroscopes

Description	G Range	Axes	Resolution	Bandwidth	Voltage	Supply Current	Package	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 100
Accelerometers											
Single Axis, High Precision, Low Power	±1.5g	X	1mg	10Hz	3V-6V	0.7mA	8-CLCC	ADXL103CE-ND	15.83	14.25	12.64
Single Axis, Low Noise, Low Power	±50g	X	10mg	1kHz	4V-5V	1.8mA	14-CERPAK	ADXL150AQC-ND	16.44	15.35	14.25
Single Axis, High Accuracy	±5.0g	X	2mg	10KHz	2.7V-5.25V	1.9mA/1.3mA	14-CERPAK	ADXL105AQC-ND	35.91	33.52	31.13
Single Axis, High Accuracy	±5.0g	X	2mg	10KHz	2.7V-5.25V	1.9mA/1.3mA	14-CERPAK	ADXL105JQC-ND	28.73	26.81	24.90
Single Axis, Low Noise, Low Power	±50g	X	10mg	1KHz	4V-5V	1.8mA	14-CERPAK	ADXL150JQC-ND	15.86	14.28	12.67
Dual Axis, Digital Out	±10g	X, Y	2mg	60Hz	3V-5V	1mA	8-LCC	ADXL210JE-ND	15.30	14.28	13.26
Dual Axis, Low Power, Digital Out	±1.2g	X, Y	1mg	60Hz	3V-6V	0.7mA	8-LCC	ADXL213AE-ND	23.28	18.63	15.72
Dual Axis, Digital Out	±10g	X, Y	2mg	5KHz	3V-5V	1mA	14-CERPAK	ADXL210JQC-1-ND	20.40	19.04	17.68
Dual Axis, Low Noise, Low Power	±50g	X, Y	10mg	1KHz	4V-5V	3.5mA	14-CERPAK	ADXL250JQC-ND	20.40	19.04	17.68
Dual Axis, Low Power with Digital Output	±2g	X, Y	5mg	6kHz	2.7V-5V	0.5mA	8-LCC	ADXL202AE-ND*	17.46	16.30	15.14
							8-LCC	ADXL202JE-ND*	15.30	14.28	13.26
Dual Axis, High Precision, Low Power	±1.5g	X, Y	1mg	10Hz	3V-6V	0.7mA	8-CLCC	ADXL203CE-ND	22.50	21.00	19.50
Dual Axis, Low Power, Digital Output	±10g	X, Y	10mg	6kHz	2.7V-5V	0.5mA	8-LCC	ADXL210AE-ND*	17.46	16.30	15.14
Dual Axis, High Resolution	±50g	X, Y	10mg	1kHz	4V-5V	3.5mA	14-CERPAK	ADXL250AQC-ND	22.67	21.16	19.65
Dual Axis, Low-cost, with Analog Outputs	±2g	X, Y	5mg	6kHz	2.4V-5V	0.4mA	8-CLCC	ADXL311JE-ND	8.50	7.65	6.79
Dual Axis, Low Power, Small, Thin	±5g	X,Y	2mg	2.5kHz	2.4V-5.25V	0.45mA	16-Lead LFCSP	ADXL320JCP-ND ***NEW!***	8.33	7.50	6.65
Gyroscopes											
Single Chip Yaw Rate Gyro	±150°/s	Z	0.05°/s/√Hz	40Hz	4.75V-5.25V	6.0mA	32-BGA	ADXRS150ABG-ND	49.50	46.20	42.90
Single Chip Yaw Rate Gyro	±300°/s	Z	0.1°/s/√Hz	40Hz	4.75V-5.25V	6.0mA	32-BGA	ADXRS300ABG-ND	49.50	46.20	42.90
Single Chip Yaw Rate Gyro	±75°/s	Z	0.05°/s/√Hz	40Hz	4.75V-5.25V	6.0mA	32-BGA	ADXRS401ABG-ND	42.00	39.20	36.40

* Not recommended for new design.

ADXL190EM-1-ND	Evaluation Board for the ADXL190, Single Axis, 400 KHz Bandwidth	**$285.00**
ADXL202EB-ND	Evaluation Board for the ADXL202, Dual Axis ±2g Accelerometer	**$44.93**
ADXRS150EB-ND	Evaluation Board for the ADXRS150, ±150°/s Single Chip Rate Gyro	**$75.00**
ADXRS300EB-ND	Evaluation Board for the ADXRS300, ±300°/s Single Chip Rate Gyro	**$75.00**
ADXL210EB-ND	Evaluation Board for the ADXL210, Dual Axis ±10g Accelerometer	**$44.93**
ADXL311EB-ND	Evaluation Board for the ADXL311, Dual Axis ±2g Accelerometer	**$44.93**
ADXL320EB-ND	***NEW!*** Evaluation Board for the ADXL320, Dual Axis ±5g Accelerometer	**$44.93**

LCD Total Solution Provider
www.optrex.com

ndustrial TFT LCDs

trex manufactures the industry's widest range of digital TFT LCDs for a oad array of non-PC industrial applications. These rugged, high-rformance modules deliver best-in-class front-of-screen performance for gh-resolution color display of images from static to full-motion video.

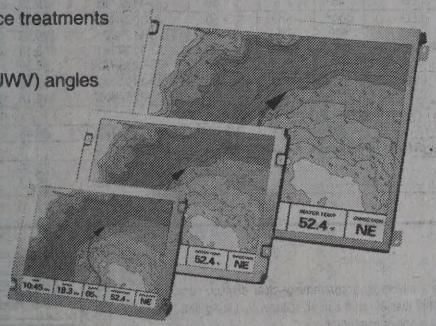
atures Include:

- Wide operating temperature ranges
- Wide viewing angles
- Powerful backlights
- High contrast
- High brightness
- Excellent color saturation
- VGA, SVGA and XGA formats

Description	Digi-Key Part No.
6.5" VGA TTL	73-1243-ND
8.4" VGA TTL	73-1226-ND
8.4" XGA LVDS	73-1227-ND
10.4" VGA TTL	73-1228-ND
12.1" SVGA TTL	73-1229-ND
12.1" XGA LVDS	73-1244-ND
12.1" SVGA LVDS	73-1245-ND
15.0" XGA TTL	73-1230-ND

trex TFT LCDs can also be provided with the latest technological vancements for enhanced performance, including:

- Anti-Reflection surface treatments
- LVDS interfaces
- Ultra-Wide Viewing (UWV) angles
- Natural Color Matrix (NCM) technology



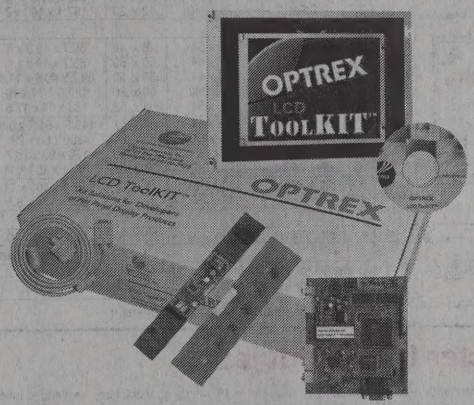
TFT LCD ToolKITs™

Optrex's LCD ToolKITs™ save engineering and procurement time by providing everything you need to put the LCD into operation – right out of the box.

Kits Include:

- TFT panel
- Controller board with on-screen display (OSD) board
- Inverter board and power cable
- 12V DC power supply with AC line cord
- VGA (analog RGB) cable
- Video input cable
- CD-ROM with Quick Set-Up and documentation

Description	Digi-Key Part No.
8.4" VGA ToolKIT	73-1246-ND
8.4" XGA ToolKIT	73-1247-ND
10.4" VGA ToolKIT	73-1224-ND
15.0" XGA ToolKIT	73-1243-ND

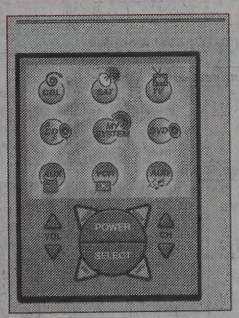


olor and Monochrome Graphic LCDs

ptrex's range of CSTN passive matrix CDs provide clear, sharp display of color raphics in all kinds of lighting conditions. ney're ideal for applications requiring a mall to mid-size display that provides uality color at an economical cost.

eatures include:

- Slim, compact, lightweight design
- High legibility in all ambient light conditions
- Fast response times
- Multiple backlighting options available



ptrex STN passive matrix monochrome graphic LCDs offer a wide range sizes and display formats.

eatures include:

- Wide variety of color/background combinations
- High brightness, high contrast
- Low power consumption
- LED or CCFL backlight options
- Transmissive, reflective or transflective types available

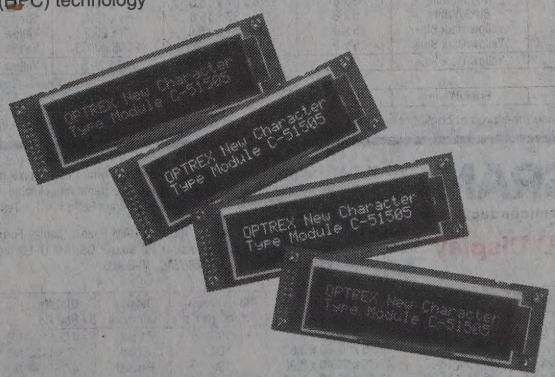
See following page for part numbers and specifications.

Character LCDs

Optrex manufactures a broad range of monochrome character LCDs in a wide variety of dot pixel formats and color/background combinations.

They provide:

- Industry-standard configurations
- High contrast
- Wide operating temperature ranges
- Low operating current, with more luminance per watt
- Positive (transflective) and negative (transmissive) options
- Superior legibility via Optrex's High Performance Color (HPC) technology


OPTREX New Character Type Module C-51505
OPTREX New Character Type Module C-51505
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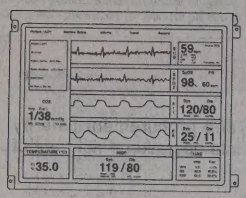
OPTREX New Character Type Module C-51505

See following page for part numbers and specifications.

OPTREX TFT LCD Modules



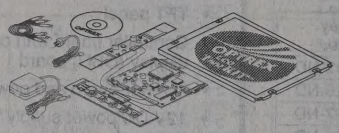
Size (Inch)	Dot Format	Dimension W x H x D (mm)	Interface	Luminance	Contrast Ratio	Vertical Viewing Angle	Horizontal Viewing Angle	Power Consumption	Operating Temp. (°C)	Digi-Key Part No.	Price Each 1	Price Each 100	Optrex Part No.
6.5	640 x RGB x 480	158 x 120.36 x 11.55	TTL	400	300:1	-60/30	±55	4.8W	0 ~ 60	73-1243-ND§	270.00	214.30	T-51750GD065J-FW-A
8.4	640 x RGB x 480	199.5 x 149 x 11.5	TTL	450	450:1	-60/50	±65	6.6W	0 ~ 50	73-1226-ND§	400.40	317.78	T-51638D084-FW-A-A
8.4	1024 x RGB x 768	205 x 152.4 x 11.3	LVDS	300	350:1	-40/50	±60	6.5W	0 ~ 50	73-1227-ND§	491.40	390.00	T-51639D084U-FW-A-
10.4	640 x RGB x 480	243 x 181.6 x 12.2	TTL	430	500:1	-45/55	±60	6.8W	-20 ~ 70	73-1228-ND§	400.40	317.78	T-51513D104JU-FW-A
12.1	800 x RGB x 600	280 x 210 x 12	TTL	400	500:1	-50/40	±60	7.6W	-20 ~ 70	73-1229-ND§	418.60	332.23	T-51512D121J-FW-A-A
12.1	1024 x RGB x 768	280 x 210 x 12	LVDS	320	550:1	-50/40	±60	8.0W	-20 ~ 70	73-1244-ND§	473.20	375.56	T-51756D121J-FW-A-A
12.1	800 x RGB x 600	280 x 210 x 12	LVDS	350	500:1	-75/45	±65	7.5W	-20 ~ 70	73-1245-ND§	418.60	332.23	T-51866D121J-FW-A-A
15.0	1024 x RGB x 768	326 x 255 x 15.5	TTL	300	450:1	-60/50	±75	16.3W	0 ~ 50	73-1230-ND§	436.80	346.68	T-51511D150-FW-A-AC

§ RoHS Compliant

TFT LCD ToolKITS™

ToolKITS Include: • TFT Panel • Controller Board • Backlight Inverter • Inverter Cable • Power Supply • VGA Cable • Video Input Cable • CD-ROM

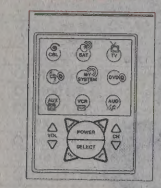
Note: *ToolKITS support VGA, composite video, and S-video interfaces*



Description	Digi-Key Part No.	Price Each	Optrex Part No.
8.4" VGA LCD ToolKIT	73-1246-ND§	632.55	TK084V00
8.4" XGA LCD ToolKIT	73-1247-ND§	783.57	TK084X00
10.4" VGA LCD ToolKIT	73-1224-ND§	666.45	TK104V00
15.0" XGA LCD ToolKIT	73-1223-ND§	746.89	TK150X00

§ RoHS Compliant

Graphic LCD Modules

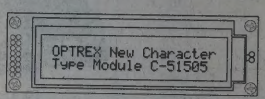


Size	LCD Mode	Dot Format	Dot Pitch (mm)	Outline Dim. W x H x D (mm)	Viewing Area	Backlight	Luminance	Contrast Ratio	Operating Temp. (°C)	Digi-Key Part No.	Price Each 1	Price Each 100	Optrex Part No.
Color Transmissive Graphic Displays													
3.8	Color	240 x RGB x 320	.24 x .24	73 x 94.4 x 7.3	59 x 80.3	CCFL	70	40:1	0 ~ 50	73-1238-ND§	106.38	78.80	F-51373GNC-FW-AH
3.8	Color	240 x RGB x 320	.24 x .24	73 x 94.4 x 7.3	59 x 80.3	LED	40	40:1	0 ~ 50	73-1239-ND§	113.73	84.25	F-51373GNC-LW-AJ
5.2	Color	240 x RGB x 64	.176 x .53	180 x 59.6 x 14	132 x 39	CCFL	150	40:1	0 ~ 50	73-1236-ND§	197.73	146.46	F-51168NCU-FW-AB
5.7	Color	320 x 240	.12 x .36	167.1 x 109 x 8	122 x 92	CCFL	120	40:1	0 ~ 50	73-1215-ND	180.08	133.39	F-51167NCU-FW-AA
Monochrome Transmissive Graphic Displays													
2.8	Blue/White	128 x 64	.48 x .48	89.7 x 49.8 x 6	66.8 x 35.5	LED(Blue/White)	100	6:1	0 ~ 50	73-1219-ND	28.45	21.07	F-51320GNB-LW-AB
2.8	Blue/White	128 x 64	.50 x .50	89.7 x 49.8 x 6	66.8 x 35.5	White LED	100	8:1	-20 ~ 70	73-1232-ND§	27.45	20.33	F-51553GNBJ-LW-AB
2.8	Ylw./Dk. Blue	128 x 64	.50 x .50	89.7 x 49.8 x 11.8	66.8 x 35.5	LED(Yellow)	60	4.5:1	0 ~ 50	73-1220-ND	28.45	21.07	F-51320GNY-LY-AA
4.7	Neutral/Blue	320 x 240	.30 x .30	129.4 x 94 x 10	99.9 x 77	CCFL	400	4.5:1	0 ~ 50	73-1234-ND§	82.03	60.77	F-51477GNB-FW-AD
5.2	Ylw./Dk. Blue	240 x 64	.53 x .53	180 x 65 x 17.6	132 x 39	LED	45	7:1	0 ~ 50	73-1157-ND	76.33	56.54	DMF-5005NY-LY-AKE
5.2	Blue/White	240 x 64	.53 x .53	149.5 x 51.7 x 9.8	130.2 x 36.7	LED	400*	5:1	0 ~ 50	73-1231-ND§	78.43	58.10	F-51405GNB-LW-AJ
5.2	Blue/White	240 x 64	.53 x .53	200 x 66 x 23	132 x 39	CCFL	400	7:1	0 ~ 50	73-1132-ND	129.55	95.96	DMF-5010NBU-FW-BD
5.4	Blue/White	240 x 128	.50 x .50	170 x 95 x 16.7	126 x 70	LED(Ylw/Grn)	40	6:1	0 ~ 50	73-1199-ND	159.10	117.86	DMF-50773NF-SLY
5.7	Blue/White	320 x 240	.36 x .36	167.1 x 109 x 11	120 x 90	CCFL	60	5:1	0 ~ 60	73-1235-ND§	95.00	70.37	DMF-50840NB-FW-AKE-
5.7	Black/White	320 x 240	.36 x .36	167.1 x 109 x 11	120 x 90	CCFL	50	15:1	0 ~ 60	73-1194-ND	95.00	70.37	DMF-50840NF-FW-ABE-
9.4	Black/White	640 x 480	.30 x .30	260 x 174 x 8.5	196 x 148	CCFL	110	14:1	0 ~ 50	73-1237-ND§	318.18	235.69	F-51430NFU-FW-AA
Monochrome Transflective Graphic Displays													
4.7	Black/White	320 x 240	.30 x .30	129.4 x 94 x 10	99.9 x 77	CCFL	200	3.5:1	-10 ~ 60	73-1233-ND§	86.48	64.07	F-51477GNFJ-SFW-AB
Inverters for CCFL Backlighting (Converts 12VDC ~ 900VAC 30KHz)													
Inverter for use with CCFL Backlit Graphic Modules										289-1036-ND	25.76	—	BXA-12565-6M
Inverter for use with CCFL Backlit Graphic Modules										289-1027-ND	15.12	—	BXA-24529

* At backlight surface § RoHS Compliant

Character LCD Modules

FEATURES: • Interface with 8-bit or 4-bit MPU is available • 192 kinds of characters, numerals, symbols and special characters can be displayed by built-in character generator (ROM) • Other preferred characters can be displayed by character generator (RAM) • Various functions of instruction are available by programming: clear display, cursor at home, on/off cursor, blink character, shift display, shift cursor, read/write display data, etc. • Compact and lightweight design • Low power consumption



Dot Format	LCD Mode	Character Format	Outline Dimension W x H x D (mm)	Viewing Area	Backlight	Luminance ‡	Contrast Ratio	Operating Temp. (°C)	Digi-Key Part No.	Price Each 1	Price Each 100	Optrex Part No.
Super-Twisted Nematic (STN) LCD Modules												
8 x 2	Clear/Reflective	5 x 8	40 x 35.4 x 8.2	30.4 x 13.9	No	—	7:1	0 ~ 50	73-1106-ND	8.66	6.46	DMC-50448N-E-AE
16 x 4	Neutral/Blue	5 x 8	87 x 60 x 11	61.8 x 25.2	No	—	4.5:1	0 ~ 50	73-1083-ND	31.82	23.57	DMC-16433N
Film Super-Twisted Nematic (FSTN) LCD Modules												
16 x 2	Black/White	5 x 7	64.2 x 27.6 x 2.2	60.2 x 16.6	No	—	7:1	0 ~ 50	73-1177-ND†	10.00	7.41	DMC-50747NF-AK
Super-Twisted Nematic (STN) LCD Modules with LED Backlighting												
16 x 1	Yellow/Dark Blue	5 x 8	80 x 36 x 15	64.5 x 13	Yellow LED	80	8:1	0 ~ 50	73-1018-ND	23.25	17.23	DMC-16105NY-LY
16 x 2	Yellow/Dark Blue	5 x 8	80 x 40 x 16.1	59.5 x 16	Yellow LED	35	8:1	0 ~ 50	73-1034-ND*	19.32	14.32	DMC-16204NY-LY
16 x 2	Yellow/Dark Blue	5 x 8	88 x 34 x 16.1	59.5 x 16	Yellow LED	35	8:1	0 ~ 50	73-1035-ND	19.32	14.32	DMC-16205NY-LY
16 x 2	Yellow/Dark Blue	5 x 7 +cursor	122 x 44 x 14.6	99 x 24	Yellow LED	70	8:1	0 ~ 50	73-1051-ND	23.90	17.70	DMC-16230NY-LY-AVE
20 x 4	Yellow/Dark Blue	5 x 8	98.5 x 61 x 15.6	76 x 25.2	Yellow LED	60	8:1	0 ~ 50	73-1094-ND	30.30	22.44	DMC-20481NY-LY-ABE
Transmissive Character Displays												
16 x 2	Yellow/Dark Blue	5 x 8	84 x 45 x 15.1	61 x 16	Yellow LED	55	10:1	0 ~ 50	73-1043-ND	16.33	12.09	DMC-16202NY-LY-AGE
16 x 2	Yellow/Dark Blue	5 x 7	122 x 44 x 14.6	99 x 24	Yellow LED	60	12:1	0 ~ 50	73-1052-ND	25.15	18.63	DMC-16230NY-LY-BQE-DZ
20 x 2	Yellow/Dark Blue	5 x 8	116 x 37 x 15.7	83 x 18.6	Yellow LED	40	12:1	0 ~ 50	73-1057-ND	20.60	15.26	DMC-20261NY-LY-AXE
20 x 2	Yellow/Dark Blue	5 x 8	116 x 37 x 15.7	83 x 18.6	Yellow LED	40	5:1	-20 ~ 70	73-1063-ND	20.60	15.26	DMC-20261NYJ-LY-BCE
20 x 2	Black/White	5 x 8	116 x 37 x 15.6	83 x 18.6	White LED	125	80:1	-20 ~ 70	73-1240-ND§	23.78	17.61	C-51505NFQJ-LW-AD
20 x 2	Neutral/Blue	5 x 8	116 x 37 x 15.6	83 x 18.6	Blue LED	38	80:1	-20 ~ 70	73-1241-ND§	23.38	17.31	C-51505NFQJ-LB-AE
20 x 2	Black/White	5 x 8	116 x 37 x 15.6	83 x 18.6	Green LED	160	80:1	-20 ~ 70	73-1242-ND§	23.38	17.31	C-51505NFQJ-LG-AF
20 x 4	Yellow/Dark Blue	5 x 8	98.5 x 61 x 15.6	76 x 25.2	Yellow LED	60	12:1	0 ~ 50	73-1095-ND	30.30	22.44	DMC-20481NY-LY-AGE
40 x 2	Yellow/Dark Blue	5 x 8	182 x 34.5 x 15.1	147.5 x 11.5	Yellow LED	55	12:1	0 ~ 50	73-1179-ND	38.23	28.31	DMC-40202NY-LY-AFE
40 x 4	Yellow/Dark Blue	5 x 8	190 x 54 x 13.6	147 x 29.5	Yellow LED	50	5:1	0 ~ 50	73-1101-ND	86.37	63.98	DMC-40457NY-LY-B
Transflective Character Display												
20 x 2	Black/White	5 x 8	116 x 37 x 15.6	83 x 18.6	White LED	125	5:1	-20 ~ 70	73-1248-ND§	20.73	15.35	C-51505NFJ-SLW-AC

‡ Luminance measured at backlight surface † Chip on glass display, uses SED1233DGB controller * Pin to Pin spacing = 2.0mm § RoHS Compliant

OSRAM Opto Semiconductors OLED Display

OLED DISPLAY: • Graphics display matrix • Single Color with 4-bit per pixel grayscale • True emissive technology • 160° viewing angle • Passive matrix driven by an industry standard Compatible IC • Fast response, video frame rate capable • High contrast • Wide operating temperature range • Thin Profile • Color: Yellow (X = .455; Y = .540) • Lifetime 10,000 hours @ 25°C • Contrast Ratio 100:1 • Temperature Range: -30°C ~ 70°C

PICTIVA EVALUATION KIT: ***Contents:*** • **OLED:** OSRAM Pictiva Display Format OLED display module *http://www.pictiva.com/pdf/datasheet-128x64.pdf* • **CD-ROM:** Windows compatible OSRAM CD ROM disk • **PC Board:** OSRAM OLED display Evaluation Board • **Cable:** USB Device (A to B) Communications Cable • **Power Supply:** Power adapter (9VDC@1A / 85-260VAC, 50-60Hz)

Fig. 1

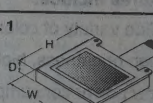


Fig. 2

Fig.	Display Format	Active Area W x H (mm)	Module Size W x H x D (mm)	Luminance cd/m² (typ.)	Display Interface	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Osram Part No.
1	96 x 64	25.4 x 16.9	34.75 x 32.89 x 3.82	100	Parallel	475-1122-ND	37.00	29.60	26.83	OS096064PK12MY0A00
	96 x 64	25.4 x 16.9	34.75 x 32.89 x 3.82	100	Serial	475-1123-ND	37.00	29.60	26.83	OS096064PK12MY0A01
	128 x 64	36.46 x 18.22	47.75 x 30.48 x 3.98	100	Parallel	475-1124-ND	42.00	33.60	30.45	OS128064PK16MY0A00
	128 x 64	36.46 x 18.22	47.75 x 30.48 x 3.98	100	Serial	475-1125-ND	42.00	33.60	30.45	OS128064PK16MY0A01
2	Pictiva Evaluation Kit					475-1121-ND		625.00/1		OE128064PK16MY0A00

More Product Available Online: www.digikey.com
Toll-Free: 1-800-344-4539 • Phone: 218-681-6674 • Fax: 218-681-3380

AIRCHILD MICONDUCTOR — Infrared Photosensors and Emitters

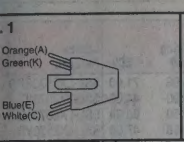


Fig. 2

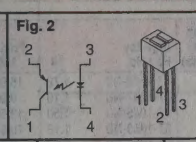
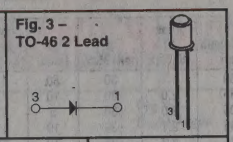


Fig. 3 – TO-46 2 Lead



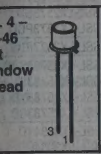


Fig. 5

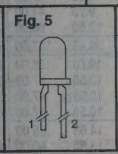


Fig. 6

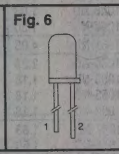


Fig. 7

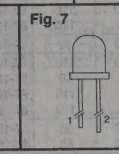
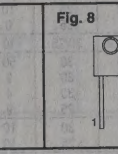


Fig. 8



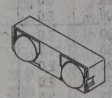
Reflective Photosensors

Output Type	Min/Max Output Ic @ If	Optimum Sensing Distance	Termination	Digi-Key Part No.	Price Each 1	10	100	500
Transistor	.6/3 @ 40mA	3.81mm	Leads	QRB1114-ND	1.35	1.13	.90	.63
Transistor	.6/3 @ 40mA	3.81mm	Wires	QRB1134-ND	1.94	1.56	1.17	1.05
Transistor	1/5 @ 20mA	1.27mm	Leads	QRD1114-ND	.94	.79	.63	.44

Semiconductor Infrared Emitters (IRED LEDs)

Forward Volt. (V)	Max. Forward Current (mA)	Min. Power Output	Beam Angle +/-	Peak Wave-Length (nm)	Pkg. Type	Digi-Key Part No.	Price Each 1	10	100	500
1.7	100	6.0mW/sr	8	940	TO-46	1N6264-ND	1.87	1.50	1.13	1.01
1.7	100	6.0mW	40	940	TO-46	1N6265-ND	1.83	1.47	1.10	.99
1.7	100	25.0mW/sr	10	940	TO-46	1N6266-ND	2.43	1.95	1.46	1.32
1.7	100	5.4mW	10	940	TO-46	COX14-ND	1.94	1.56	1.17	1.05
1.7	100	5.4mW	40	940	TO-46	COX15-ND	1.91	1.53	1.15	1.03
1.7	100	12.0mW	10	880	TO-46	F5D1-ND	2.09	1.67	1.26	1.13
1.7	100	9.0mW	10	880	TO-46	F5D2-ND	2.06	1.65	1.24	1.11
1.7	100	10.5mW	10	880	TO-46	F5D3-ND	2.09	1.67	1.26	1.13
1.7	100	12.0mW	40	880	TO-46	F5E1-ND	2.09	1.67	1.26	1.13
1.7	100	10.5mW	40	880	TO-46	F5E3-ND	2.09	1.67	1.26	1.13
1.7	100	1.5mW/sr	10	940	TO-46	LED56-ND	1.87	1.50	1.13	1.01
1.7	100	3.5mW/sr	40	940	TO-46	LED55BF-ND	1.87	1.50	1.13	1.01
1.7	100	3.5mW/sr	10	940	TO-46	LED55B-ND	1.91	1.53	1.15	1.03
1.7	100	5.4mW/sr	8	940	TO-46	LED55C-ND	1.93	1.54	1.16	1.04
1.7	50	14mW/sr	8	940	T-1	QEC113-ND	.45	.36	.27	.15
1.7	50	27mW/sr	8	880	T-1	QEC122-ND	.54	.41	.31	.19
1.5	100	80mW/sr	9	880	T-1 3/4	QED123-ND	.58	.46	.35	.20
1.7	100	16mW/sr	20	880	T-1 3/4	QED222-ND	.54	.41	.31	.19
1.7	100	25mW/sr	20	880	T-1 3/4	QED223-ND	.58	.46	.35	.20
1.5	100	10mW/sr	20	940	T-1 3/4	QED233-ND	.50	.41	.28	.17
1.5	100	27mW/sr	20	940	T-1 3/4	QED234-ND	.45	.36	.27	.15
1.7	100	18mW/sr	30	880	Plastic TO-46	QED423-ND	.76	.64	.51	.36
1.7	100	20mW/sr	15	880	Plastic TO-46	QED522-ND	.54	.41	.31	.19
1.7	100	40mW/sr	15	880	Plastic TO-46	QED523-ND	.60	.45	.34	.21
1.5	50	3mW/sr	25	940	SIDELOOK	QEE113-ND	.45	.36	.27	.15
1.7	50	8mW/sr	25	880	SIDELOOK	QEE123-ND	.54	.41	.31	.19

ZILOG — IrDA Transceiver Module



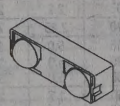
Zilog's opto-wireless transceiver module is compatible with IrDA standard.
Applications: • Portable printers • Handheld computers • Personal data assistants (PDAs)

Data Vcc (V)	Transfer Rate (kbps)	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Tape & Reel† Size	Pricing	Zilog Part No.
~ 5.5	115.2	269-3242-1-ND	3.90	2.93	2.60	2,000	2158.00/M	ZHX1010MV115THTR
~ 3.6	115.2	269-3243-1-ND	4.20	3.15	2.80	2,500	2324.00/M	ZHX1201MB115THTR
~ 3.6	115.2	269-3245-1-ND	4.44	3.33	2.96	3,500	2456.80/M	ZHX1203MB115THTR
~ 3.6	115.2	269-3204-1-ND	4.86	3.65	3.24	3,500	2689.20/M	ZHX1403MA115THTR
~ 5.5	115.2	269-3246-1-ND	4.05	3.04	2.70	2,000	2241.00/M	ZHX1810MV115THTR
~ 5.5	115.2	269-3126-1-ND	4.05	3.04	2.70	2,000	2241.00/M	ZHX1820TV115THTR
~ 5.5	115.2	269-3244-1-ND	4.20	3.15	2.80	2,000	2324.00/M	ZHX1820TV115XHTR
~ 5.5	4,000	269-3636-1-ND **NEW!**	4.65	3.49	3.10	1,000	2573.00	ZHX2022MV040THTR
~ 5.5	4,000	269-3637-1-ND **NEW!**	4.65	3.49	3.10	1,000	2573.00	ZHX2022TV040THTR

or Tape & Reel part number, change 1-ND to 2-ND.

Agilent Technologies — IrDA Transceiver Modules

Authorized Distributor



Supply Voltage	Data Rate Max.	Digi-Key Part No.	Price Each 1	10	100	Tape & Reel† Size	Pricing	Agilent Part No.
2.7 ~ 5.5V	115.2 kb/s	516-1271-1-ND	2.80	2.45	2.10	2,500	1862.00/M	HSDL-3000#007
2.7 ~ 3.6V	115.2 kb/s	516-1272-1-ND	3.40	2.98	2.55	500	1130.50	HSDL-3201#001
2.4 ~ 3.6V	115.2 kb/s	516-1273-1-ND	2.70	2.37	2.03	2,500	1795.50/M	HSDL-3208-021
2.7 ~ 3.6V	4.0 Mb/s	516-1274-1-ND	3.50	3.07	2.63	400	931.00	HSDL-3602-007
2.7 ~ 5.25V	115.2 kb/s	516-1275-1-ND	3.40	2.98	2.55	400	904.40	HSDL-3612-007
3/16 Encoder/Decoder.....		516-1276-1-ND	4.20	3.85	3.50	2,500	2030.00/M	HSDL-7001

or Tape & Reel part number, change 1-ND to 2-ND.

SHARP MICROELECTRONICS — Remote Control Receivers

Supply Voltage 2.4 to 5.5V

Fig. 1

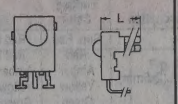


Fig. 2

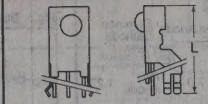


Fig. 3

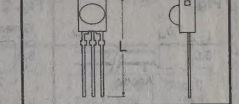


Fig.	Detecting Window	B.P.F. fo (kHz) Typ.	Current Dissipation Icc (mA) Max.	Length (mm)	Digi-Key Part No.	Price Each 1	10	100	Sharp Part No.
		36.7	.2	8.8	425-1117-ND	1.15	.92	.76	GP1UD262XK
		36.7	1.5	8.8	425-1134-ND	1.13	.90	.75	GP1UM262XK
		36.7	1.5	13.8	425-1141-ND#	1.13	.90	.75	GP1UM272RK
		36.7	1.5	13.8	425-1142-ND	1.13	.90	.75	GP1UM272XK
		36.7	.2	14	425-1121-ND	1.15	.92	.76	GP1UD272XK
		36.7	1.5	17.8	425-1150-ND#	1.13	.90	.75	GP1UM282RK
		36.7	1.5	17.8	425-1151-ND	1.13	.90	.75	GP1UM282XK
		36.7	.2	18	425-1126-ND	1.15	.92	.76	GP1UD282XK
		38	.2	8.8	425-1931-5-ND‡	1.15	.92	.76	GP1UD261XKOF
		38	0.6	8.8	425-1899-ND	1.08	.90	.72	GP1UE261XK
		38	1.5	8.8	425-1132-ND#	1.13	.90	.75	GP1UM261RK
		38	1.5	8.8	425-1133-ND	1.13	.90	.75	GP1UM261XK
		38	1.5	8.8	425-2007-ND▲ **NEW!**	1.13	.90	.75	GP1UM261XK0F
		38	1.5	13.8	425-1139-ND#	1.13	.90	.75	GP1UM271RK
		38	1.5	13.8	425-1140-ND	1.13	.90	.75	GP1UM271XK
		38	.2	14	425-1120-ND	1.15	.92	.76	GP1UD271XK
		38	0.6	14.0	425-1902-ND	1.08	.90	.72	GP1UE271XK
		38	.2	18	425-1124-ND	1.15	.92	.76	GP1UD281XK
		38	0.6	18.0	425-1905-ND	1.08	.90	.72	GP1UE281XK
1	Top	40	.2	8.8	425-1119-ND	1.15	.92	.76	GP1UD26XK
		40	0.6	8.8	425-1901-ND	1.08	.90	.72	GP1UE26XK
		40	1.5	13.8	425-1145-ND#	1.13	.90	.75	GP1UM27RK
		40	1.5	13.8	425-1146-ND	1.13	.90	.75	GP1UM27XK
		40	.2	14	425-1123-ND	1.15	.92	.76	GP1UD27XK
		40	0.6	14.0	425-1904-ND	1.08	.90	.72	GP1UE27XK
		40	1.5	17.8	425-1158-ND#	1.13	.90	.75	GP1UM28RK
		40	1.5	17.8	425-1159-ND	1.13	.90	.75	GP1UM28XK
		40	.2	18	425-1130-ND	1.15	.92	.76	GP1UD28XK
		40	0.6	18.0	425-1909-ND	1.08	.90	.72	GP1UE28XK
		56.8	.2	8.8	425-1118-ND	1.15	.92	.76	GP1UD267XK
		56.8	0.6	8.8	425-1900-ND	1.08	.90	.72	GP1UE267XK
		56.8	1.5	8.8	425-1136-ND	1.13	.90	.75	GP1UM267XK
		56.8	1.5	13.8	425-1143-ND#	1.13	.90	.75	GP1UM277RK
		56.8	1.5	13.8	425-1144-ND	1.13	.90	.75	GP1UM277XK
		56.8	.2	14	425-1122-ND	1.15	.92	.76	GP1UD277XK
		56.8	0.6	14.0	425-1903-ND	1.08	.90	.72	GP1UE277XK
		56.8	1.5	17.8	425-1154-ND#	1.13	.90	.75	GP1UM287RK
		56.8	1.5	17.8	425-1155-ND	1.13	.90	.75	GP1UM287XK
		56.8	.2	18	425-1128-ND	1.15	.92	.76	GP1UD287XK
		56.8	0.6	18.0	425-1907-ND	1.08	.90	.72	GP1UE287XK
		36.7	1.5	16.1	425-1149-ND#	1.13	.90	.75	GP1UM282QK
		36.7	1.5	16.1	425-1152-ND	1.13	.90	.75	GP1UM282YK
		36.7	.2	16.6	425-1127-ND	1.15	.92	.76	GP1UD282YK
		38	1.5	16.1	425-1147-ND#	1.35	1.13	.90	GP1UM281QK
		38	1.5	16.1	425-1148-ND	1.13	.90	.75	GP1UM281YK
		38	.2	16.6	425-1125-ND	1.15	.92	.76	GP1UD281YK
		38	0.6	16.6	425-1906-ND	1.08	.90	.72	GP1UE281YK
2	Side	40	1.5	16.1	425-1157-ND#	1.13	.90	.75	GP1UM28QK
		40	1.5	16.1	425-1160-ND	1.13	.90	.75	GP1UM28YK
		40	.2	16.6	425-1131-ND	1.15	.92	.76	GP1UD28YK
		40	0.6	16.6	425-1910-ND	1.08	.90	.72	GP1UE28YK
		56.8	1.5	16.1	425-1153-ND#	1.13	.90	.75	GP1UM287QK
		56.8	1.5	16.1	425-1156-ND	1.13	.90	.75	GP1UM287YK
		56.8	.2	16.6	425-1129-ND	1.15	.92	.76	GP1UD287YK
		56.8	0.6	16.6	425-1908-ND	1.08	.90	.72	GP1UE287YK
		36	1.5	28	425-1852-ND#	1.53	1.28	1.02	GP1UV700QS
		36	0.6	28	425-1856-ND#	1.53	1.28	1.02	GP1UW700QS
		36.7	1.5	28	425-1851-ND#	1.53	1.28	1.02	GP1UV702QS
		36.7	0.6	28	425-1855-ND#	1.53	1.28	1.02	GP1UW702QS
3	Side	38	1.5	28	425-1850-ND#	1.14	.95	.76	GP1UV701QS
		38	1.5	28.0	425-1911-ND	.84	.70	.56	GP1UX501QS
		38	0.6	28	425-1854-ND#	1.32	1.10	.88	GP1UW701QS
		40	1.5	28	425-1849-ND#	1.14	.95	.76	GP1UV70QS
		40	0.6	28	425-1853-ND#	1.20	1.00	.80	GP1UW70QS

‡ Tube # With mesh ▲ Lead Free/RoHS Compliant

IrDA Transceiver Module

Sharp's opto-wireless transceiver module is compatible with IrDA standard.
Applications: • Cellular phones • PDA • Personal computers

Data Vcc (V)	Transfer Rate SIR (kbps)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	T & R† Pricing 2,000	Sharp Part No.
IrDA 115 Kbit/s, 1 Meter							
2.4 ~ 5.5	9.6 ~ 115.2	425-1914-1-ND	2.86	2.51	2.01	1810.38/M	GP2W0004XP
IrDA 115 Kbit/s, 1 Meter and 4 Mbit/s, 1 Meter							
2.7 ~ 5.5	9.6 ~ 115.2	425-1171-1-ND	4.52	3.96	3.17	2861.16/M	GP2W1001YP
IrDA 115 Kbit/s, 20cm							
2.0 ~ 3.6	2.4 ~ 115.2	425-1172-1-ND	2.14	1.88	1.50	1354.62/M	GP2W0110YPS
1.7 ~ 2.5	2.4 ~ 115.2	425-1173-1-ND	2.56	2.24	1.80	1620.48/M	GP2W0112YP
2.0 ~ 3.6	2.4 ~ 115.2	425-1384-1-ND	2.18	1.91	1.53	1379.94/M	GP2W0114YPS
2.0 ~ 3.6	2.4 ~ 115.2	425-2058-1-ND▲ **NEW!**	2.18	1.91	1.53	1379.94/M	GP2W0114YP0F
2.0 ~ 3.6	2.4 ~ 115.2	425-1915-1-ND	2.00	1.75	1.40	1266.00/M	GP2W0116YPS
2.0 ~ 3.6	2.4 ~ 115.2	425-1916-1-ND	2.00	1.75	1.40	1266.00/M	GP2W0118YPS

† For Tape & Reel part number, change 1-ND to 2-ND ▲ Lead Free/RoHS Compliant

Fig. 1

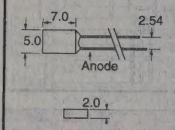


Fig. 2

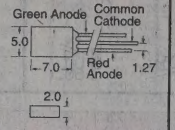


Fig. 3

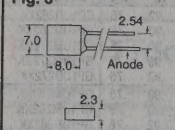


Fig. 4

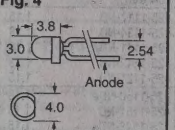


Fig. 5

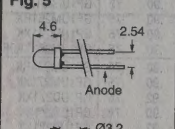


Fig. 6

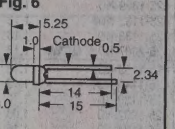


Fig. 7

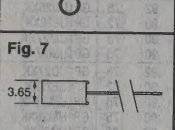


Fig. 8

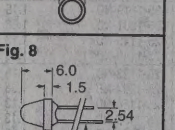


Fig. 9

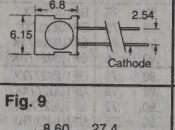


Fig. 10

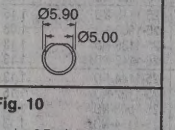


Fig. 11

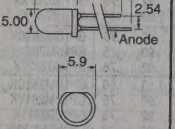


Fig. 12

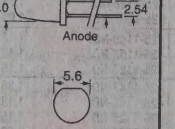


Fig. 13

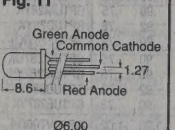


Fig. 14

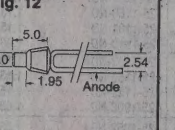


Fig. 15

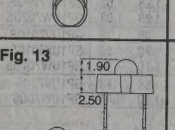


Fig. 16 (RGB)

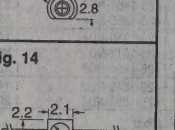


Fig.	Description	Emitted Color	Lens	Wavelength (nm)	Peak Vf (V) Typ.	If (mA) Max.	Io (mcd)	Viewing Angle (2x Theta)	Digi-Key Part No.	Pricing 10	100	500	Lumex Part No.
1	Rect. (2x5mm)	Sup. Red	Red Diff.	660	1.7	30	80	110	67-1049-ND	1.78	15.98	71.00	SSL-LX2573SRD
		Red	Red Diff.	635	2.0	30	10	110	67-1047-ND	1.10	9.90	44.00	SSL-LX2573ID
		Amber	Amber Diff.	605	2.0	30	5	110	67-1045-ND	1.50	13.50	60.00	SSL-LX2573AD
		Yellow	Yellow Diff.	585	2.1	30	10	110	67-1050-ND	1.18	10.58	47.00	SSL-LX2573YD
		Green	Green Diff.	565	2.2	25	10	110	67-1046-ND	1.03	9.23	41.00	SSL-LX2573GD
		Pure Green	Green Diff.	555	2.1	25	6	110	67-1048-ND	1.50	13.50	60.00	SSL-LX2573PGD
2	Rect. (2x5mm)	Red/Green	White Diff.	635/565	2.0/2.2	30/25	10	90	67-1051-ND	4.05	36.45	162.00	SSL-LX2577IGW
3	Rect. (2.3x7mm)	Sup. Red	Red Diff.	660	1.8	30	50	110	67-1054-ND	2.20	19.80	88.00	SSL-LX25783SRD
		Red	Red Diff.	635	2.0	30	9	80	67-1053-ND	1.18	10.58	47.00	SSL-LX25783ID
		Yellow	Yellow Diff.	585	2.1	30	4	110	67-1055-ND	1.18	10.58	47.00	SSL-LX25783YD
		Green	Green Diff.	565	2.2	25	9	110	67-1052-ND	1.18	10.58	47.00	SSL-LX25783GD
4	T-1 (3mm)	Yellow	Yellow Diff.	585	2.1	30	10	60	67-1057-ND	1.63	14.63	65.00	SSL-LX3034YD
		Green	Green Diff.	565	2.2	25	10	60	67-1056-ND	1.50	13.50	60.00	SSL-LX3034GD
5	T-1 (3mm)	Red	Red Diff.	635	12.0	12	6	60	67-1067-ND	2.63	23.63	105.00	SSL-LX3044ID-12
		Yellow	Yellow Diff.	585	12.0	12	6	60	67-1079-ND	2.63	23.63	105.00	SSL-LX3044YD-12
		Green	Green Diff.	565	12.0	12	6	60	67-1061-ND	2.63	23.63	105.00	SSL-LX3044GD-12
		Red	Red Diff.	635	5.0	12	6	60	67-1068-ND	3.30	29.70	132.00	SSL-LX3044ID-5V
		Yellow	Yellow Diff.	585	5.0	12	6	60	67-1080-ND	3.30	29.70	132.00	SSL-LX3044YD-5V
		Green	Green Diff.	565	5.0	12	6	60	67-1062-ND	3.30	29.70	132.00	SSL-LX3044GD-5V
		Dark Red	Red Diff.	700	2.0	25	6	60	67-1064-ND	.98	8.78	39.00	SSL-LX3044HD
		Sup. Red	Water Clear	660	1.8	30	600	30	67-1647-ND	2.78	24.98	111.00	SSL-LX3044SRC/D
		Red	Water Clear	635	2.1	30	125	30	67-1065-ND	1.23	11.03	49.00	SSL-LX3044IC
		Red	Red Diff.	635	2.0	30	30	60	67-1066-ND	1.38	12.38	55.00	SSL-LX3044ID
		Red	Red Trans.	635	2.0	30	30	30	67-1069-ND	1.23	11.03	49.00	SSL-LX3044IT
		Amber	Amber Diff.	605	2.1	30	15	60	67-1058-ND	1.23	11.03	49.00	SSL-LX3044AD
		Yellow	Water Clear	585	2.1	30	90	30	67-1077-ND	1.28	11.48	51.00	SSL-LX3044YC
		Yellow	Yellow Diff.	585	2.1	30	30	60	67-1078-ND	1.18	10.58	47.00	SSL-LX3044YD
		Yellow	Yellow Trans.	585	2.1	30	90	30	67-1081-ND	1.73	15.53	69.00	SSL-LX3044YT
		Green	Water Clear	565	2.2	25	100	30	67-1059-ND	1.20	10.80	48.00	SSL-LX3044GC
		Green	Green Diff.	565	2.2	25	40	60	67-1060-ND	1.10	9.90	44.00	SSL-LX3044GD
		Green	Green Trans.	565	2.2	25	40	30	67-1063-ND	1.20	10.80	48.00	SSL-LX3044GT
		Pure Green	Green Diff.	555	2.2	25	20	60	67-1073-ND	1.35	12.15	54.00	SSL-LX3044PGD
		Red	Red Diff.	635	2.0	30	30	60	67-1071-ND*	1.15	10.35	46.00	SSL-LX3044LID
		Yellow	Yellow Diff.	585	2.1	30	30	60	67-1072-ND*	1.13	10.13	45.00	SSL-LX3044LYD
		Green	Green Diff.	565	2.2	25	30	60	67-1070-ND*	1.05	9.45	42.00	SSL-LX3044LGD
6	T-1 (3mm)	Red	Red Diff.	635	2.1	30	30	60	67-1402-ND	1.48	13.28	59.00	SSL-LX3052ID
		Yellow	Yellow Diff.	585	2.1	30	15	80	67-1397-ND	1.50	13.50	60.00	SSL-LX3052YD
		Green	Green Diff.	565	2.2	25	15	80	67-1396-ND	1.50	13.50	60.00	SSL-LX3052GD
7	Rect. (4x7mm)	Red	Red Diff.	635	2.0	30	12	100	67-1083-ND	2.58	23.18	103.00	SSL-LX4673ID-LA2
		Yellow	Yellow Diff.	585	2.1	30	6	100	67-1084-ND	2.58	23.18	103.00	SSL-LX4673YD-LA2
		Green	Green Diff.	565	2.2	25	6	100	67-1082-ND	2.58	23.18	103.00	SSL-LX4673GD-LA2
8	T-1 3/4 (5mm)	Red	Red Diff.	700	2.0	25	5	60	67-1088-ND	1.13	10.13	45.00	SSL-LX5063HD
		Red	Water Clear	635	2.0	30	160	30	67-1089-ND	1.50	13.50	60.00	SSL-LX5063IC
		Red	Red Diff.	635	2.0	30	40	60	67-1090-ND	1.28	11.48	51.00	SSL-LX5063ID
		Red	Red Trans.	635	2.0	30	160	30	67-1091-ND	1.43	12.83	57.00	SSL-LX5063IT
		Yellow	Water Clear	585	2.1	30	100	30	67-1093-ND	1.80	16.20	72.00	SSL-LX5063YC
		Yellow	Yellow Diff.	585	2.1	30	20	60	67-1094-ND	1.43	12.83	57.00	SSL-LX5063YD
		Yellow	Yellow Trans.	585	2.1	30	100	30	67-1095-ND	1.45	13.05	58.00	SSL-LX5063YT
		Green	Water Clear	565	2.2	25	100	30	67-1085-ND	1.95	17.55	78.00	SSL-LX5063GC
		Green	Green Diff.	565	2.2	25	30	60	67-1086-ND	1.20	10.80	48.00	SSL-LX5063GD
		Green	Green Trans.	565	2.0	25	100	30	67-1087-ND	1.28	11.48	51.00	SSL-LX5063GT
		Green	Green Trans.	565	2.2	25	100	30	67-1092-ND*	1.95	17.55	78.00	SSL-LX5063LGT
9	T-1 3/4 (5mm)	Green	Green Diff.	565	12.0	12	20	60	67-1099-ND	3.30	29.70	132.00	SSL-LX5093GD-12V
		Red	Red Diff.	700	5.0	12	3	60	67-1103-ND	2.63	23.63	105.00	SSL-LX5093HD-5V
		Red	Red Diff.	635	5.0	12	20	60	67-1106-ND	2.63	23.63	105.00	SSL-LX5093ID-5V
		Green	Green Diff.	565	5.0	12	20	60	67-1100-ND	2.63	23.63	105.00	SSL-LX5093GD-5V
		Red	Red Diff.	700	2.0	25	5	60	67-1102-ND	.98	8.78	39.00	SSL-LX5093HD
		Red	Red Trans.	700	2.0	25	25	30	67-1104-ND	1.30	11.70	52.00	SSL-LX5093HT
		Sup. Red	Red Diff.	660	1.7	30	250	60	67-1648-ND	1.58	14.18	63.00	SSL-LX5093SRD/D
		Red	Red Diff.	635	2.0	30	40	60	67-1105-ND	1.05	9.45	42.00	SSL-LX5093ID
		Red	Red Trans.	635	2.0	30	80	30	67-1107-ND	1.23	11.03	49.00	SSL-LX5093IT
		Amber	Amber Diff.	605	2.0	30	30	60	67-1097-ND	1.23	11.03	49.00	SSL-LX5093AD
		Yellow	Yellow Diff.	585	2.1	30	30	60	67-1116-ND	1.13	10.13	45.00	SSL-LX5093YD
		Yellow	Yellow Trans.	585	2.1	30	40	30	67-1117-ND	1.25	11.25	50.00	SSL-LX5093YT
		Green	Green Diff.	565	2.2	25	30	60	67-1098-ND	1.03	9.23	41.00	SSL-LX5093GD
		Green	Green Trans.	565	2.2	25	50	30	67-1101-ND	1.20	10.80	48.00	SSL-LX5093GT
		Pure Green	Green Diff.	555	2.2	25	15	60	67-1112-ND	1.20	10.80	48.00	SSL-LX5093PGD
		Red	Red Diff.	635	2.0	30	40	60	67-1110-ND*	1.15	10.35	46.00	SSL-LX5093LID
		Yellow	Yellow Diff.	585	2.1	30	30	60	67-1111-ND*	1.15	10.35	46.00	SSL-LX5093LYD
		Green	Green Diff.	565	2.2	25	30	60	67-1108-ND*	1.08	9.68	43.00	SSL-LX5093LGD
		Green	Green Trans.	565	2.2	25	80	30	67-1109-ND*	1.23	11.03	49.00	SSL-LX5093LGT
		Violet	Water Clear	400	3.5	30	350	20	67-1830-ND	1.34	11.15	100.35	SSL-LX5093UVC
		Violet	Water Clear	380	3.4	25	70	30	67-1831-ND	4.08	34.00	306.00	SSL-LX5093SUVC
10	T-1 3/4 (5mm)	Red	Water Clear	635	2.0	30	600	20	67-1120-ND	1.50	13.50	60.00	SSL-LX5093XIC
		Amber	Water Clear	610	2.0	30	600	20	67-1118-ND	2.45	22.05	98.00	SSL-LX5093XAC
		Green	Water Clear	565	2.2	25	250	20	67-1119-ND	1.65	14.85	66.00	SSL-LX5093XGC
		Green	Water Clear	555	2.2	25	45	20	67-1121-ND	2.48	22.28	99.00	SSL-LX5093XPGC
11	T-1 3/4 (5mm)	Red/Green	White Diff.	635/565	2.1	30/25	20	60	67-1124-ND	3.70	33.30	148.00	SSL-LX5097IGW
12	T-3/4 (2mm)	Red	Red Diff.	635	2.0	30	25	70	67-1125-ND	1.48	13.28	59.00	SSL-LX20465ID
		Yellow	Yellow Diff.	585	2.1	30	10	70	67-1126-ND	1.50	13.50	60.00	SSL-LX20465YD
		Green	Green Diff.	565	2.2	25	10	70	67-1127-ND	1.35	12.15	54.00	SSL-LX20465GD
13	Sq. T-1 (3mm)	Sup. Yellow	Water Clear	590	2.25	70	800	50	67-1128-ND	6.78	60.98	271.00	SSL-LX30448SYC
14	Axial (1.8mm)	Red	Red Diff.	635	5.0	30	8	60	67-1131-ND	5.20	46.80	208.00	SSL-LXA227ID-5V
		Yellow	Yellow Diff.	585	5.0	30	8	60	67-1132-ND	5.20	46.80	208.00	SSL-LXA227YD-5V
		Green	Green Diff.	565	5.0	30	8	60	67-1130-ND	5.20	46.80	208.00	SSL-LXA227GD-5V
15	Axial (1.9mm)	Red	Water Clear	660	1.7	25	600	25	67-1137-ND*	3.43	30.83	137.00	SSL-LXA228SRC
		Red	Red Diff.	660	1.7	25	150	50	67-1138-ND*	3.85	34.65	154.00	SSL-LXA228SRD
		Red	Water Clear	635	2.0	30	30	25	67-1134-ND	2.45	22.05	98.00	SSL-LXA228IC
		Red	Red Diff.	635	2.0	30	25	50	67-1135-ND	2.25	20.25	90.00	SSL-LXA228ID
		Sup. Yellow	Water Clear	585	2.0	30	300	25	67-1139-ND	10.55	94.95	422.00	SSL-LXA228SYC
		Yellow	Water Clear	585	2.1	30	30	25	67-1140-ND	2.55	22.95	102.00	SSL-LXA228YC
		Green	Water Clear	565	2.2	25	50	25	67-1136-ND	2.93	26.33	117.00	SSL-LXA228GC
		Green	Green Diff.	565	2.2	25	12	25	67-1133-ND	2.25	20.25	90.00	SSL-LXA228GD
16	T-1 3/4 (5mm)	Red/Green	Water Clear	636/574	1.9/2.1	30	600/450	30	67-1829-ND	7.26	60.50	544.50	SSL-LX5099SIUBSUC
		Blue		470	3.65		150						

* Low Current Version Lights at (2mA)

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Fig. 1 — Surface Mount

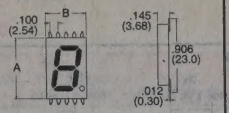


Fig. 2

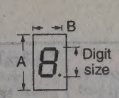


Fig. 3

Only .56" (14.20mm) and .80" (20.32mm) have active decimal points.

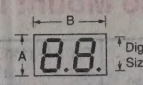


Fig. 4

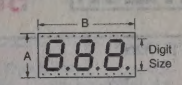


Fig. 5

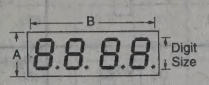


Fig. 6 — Right Angle

Multiplexed

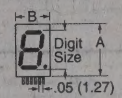
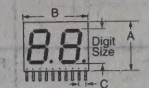


Fig. 7 — Right Angle

Multiplexed. Only .56" (14.20mm) has decimal points.



Size	No. of Pins	Dim. C In. (mm)
.56"	10	.10 (2.49)
.30"	9	.05 (1.27)

rface Mount 7-Segment Displays

Emitted Color	Digit Size Inch (mm)	Dimensions - Inch (mm) A x B	VF (V)	If (mA)	Iv (µcd)	Digi-Key Part No. Common Cathode	Cut Tape Price Each 1	10	100	T &R Pricing* 1,000	Lumex Part No. Common Cathode
Green	.56 (14.22)	.748 x .50 (19.0 x 12.70)	2.2	10	1800	67-1650-1-ND	3.89	3.41	2.92	1613.52	LDS-SMC5602RD-TR

r Tape & Reel Part No., change -1 to -2

hrough-Hole 7-Segment Displays

g.	Emitted Color	Digit Size In. (mm)	Dimensions - Inch (mm) A x B	VF (V)	If (mA)	Iv (µcd)	Digi-Key Part No. Common Anode	Digi-Key Part No. Common Cathode	Price Each 1	10	100	Lumex Part No. Common Anode	Lumex Part No. Common Cathode
	Red/Orange	.30 (7.62)	.75 x .40 (19.05 x 10.16)	2.0	10	2500	67-1403-ND	67-1406-ND	1.57	1.43	1.23	LDS-A304RI	LDS-C304RI
	Green	.30 (7.62)	.75 x .40 (19.05 x 10.16)	2.2	10	2500	67-1404-ND	67-1407-ND	1.57	1.43	1.23	LDS-A302RI	LDS-C302RI
	Yellow	.30 (7.62)	.75 x .40 (19.05 x 10.16)	2.1	10	2000	67-1405-ND	67-1408-ND	1.57	1.43	1.23	LDS-A303RI	LDS-C303RI
	Super-Red	.30 (7.62)	.75 x .40 (19.05 x 10.16)	1.7	10	8000	67-1413-ND	67-1414-ND	2.31	2.10	1.81	LDS-A306RI	LDS-C306RI
	Red/Orange	.36 (9.14)	.55 x .30 (13.97 x 7.49)	2.0	10	2500	67-1415-ND	67-1417-ND	1.84	1.68	1.45	LDS-A324RI	LDS-C324RI
	Green	.36 (9.14)	.55 x .30 (13.97 x 7.49)	2.2	10	2500	67-1416-ND	67-1418-ND	1.84	1.68	1.45	LDS-A322RI	LDS-C322RI
	Red/Orange	.43 (10.92)	.74 x .50 (18.90 x 12.60)	2.0	10	2500	67-1431-ND	67-1434-ND	1.57	1.43	1.23	LDS-A414RI	LDS-C414RI
	Green	.43 (10.92)	.74 x .50 (18.90 x 12.60)	2.2	10	2500	67-1432-ND	67-1435-ND	1.57	1.43	1.23	LDS-A412RI	LDS-C412RI
	Yellow	.43 (10.92)	.74 x .50 (18.90 x 12.60)	2.1	10	2000	67-1433-ND	67-1436-ND	1.57	1.43	1.23	LDS-A413RI	LDS-C413RI
	Super-Red	.43 (10.92)	.74 x .50 (18.90 x 12.60)	1.8	10	8000	67-1445-ND	67-1446-ND	2.31	2.10	1.81	LDS-A416RI	LDS-C416RI
	Red/Orange	.50 (12.70)	.75 x .50 (19.00 x 12.70)	2.0	10	2500	67-1451-ND	67-1453-ND	1.84	1.68	1.45	LDS-A504RI	LDS-C504RI
	Green	.50 (12.70)	.75 x .50 (19.00 x 12.70)	2.2	10	2500	67-1452-ND	67-1454-ND	1.84	1.68	1.45	LDS-A502RI	LDS-C502RI
2	Red/Orange	.56 (14.22)	.75 x .48 (19.05 x 12.19)	2.0	10	2500	67-1463-ND	67-1466-ND	1.57	1.43	1.23	LDS-A514RI	LDS-C514RI
	Green	.56 (14.22)	.75 x .48 (19.05 x 12.19)	2.2	10	2500	67-1464-ND	67-1467-ND	1.57	1.43	1.23	LDS-A512RI	LDS-C512RI
	Yellow	.56 (14.22)	.75 x .48 (19.05 x 12.19)	2.1	10	2000	67-1465-ND	67-1468-ND	1.57	1.43	1.23	LDS-A513RI	LDS-C513RI
	Super-Red	.56 (14.22)	.75 x .48 (19.05 x 12.19)	1.7	10	8000	67-1475-ND	67-1476-ND	2.31	2.10	1.81	LDS-A516RI	LDS-C516RI
	Red/Orange	.80 (20.32)	1.09 x .788 (27.71 x 20.02)	2.0	10	2500	67-1477-ND	67-1480-ND	2.28	2.08	1.79	LDS-A814RI	LDS-C814RI
	Green	.80 (20.32)	1.09 x .788 (27.71 x 20.02)	2.2	10	2500	67-1478-ND	67-1481-ND	2.28	2.08	1.79	LDS-A812RI	LDS-C812RI
	Yellow	.80 (20.32)	1.09 x .788 (27.71 x 20.02)	2.1	10	2000	67-1479-ND	67-1482-ND	2.28	2.08	1.79	LDS-A813RI	LDS-C813RI
	Super-Red	.80 (20.32)	1.09 x .788 (27.71 x 20.02)	1.7	10	8000	67-1483-ND	67-1484-ND	3.14	2.85	2.46	LDS-A816RI	LDS-C816RI
	Red/Orange	1.0 (25.40)	1.34 x .95 (34.04 x 24.00)	4.0	10	2500	67-1485-ND	67-1487-ND	3.08	2.80	2.41	LDS-AA14RI	LDS-CA14RI
	Green	1.0 (25.40)	1.34 x .95 (34.04 x 24.00)	4.4	10	2500	67-1486-ND	67-1488-ND	3.08	2.80	2.41	LDS-AA12RI	LDS-CA12RI
	Red/Orange	2.25 (57.15)	2.76 x 1.89 (70.10 x 48.01)	8.0	10	2500	67-1489-ND	67-1491-ND	9.46	8.60	7.40	LDS-AD14RI	LDS-CD14RI
	Green	2.25 (57.15)	2.76 x 1.89 (70.10 x 48.01)	8.8	10	2500	67-1490-ND	67-1492-ND	9.46	8.60	7.40	LDS-AD12RI	LDS-CD12RI
	Super-Red	2.25 (57.15)	2.76 x 1.89 (70.10 x 48.01)	6.8	10	8000	67-1493-ND	67-1494-ND	10.84	9.85	8.48	LDS-AD16RI	LDS-CD16RI
	Red/Orange	.30 (7.62)	.60 x .61 (15.24 x 15.49)	2.0	10	2500	67-1409-ND†	67-1411-ND†	2.50	2.28	1.96	LDD-E304NI	LDD-F304NI
	Green	.30 (7.62)	.60 x .61 (15.24 x 15.49)	2.2	10	2500	67-1410-ND†	67-1412-ND†	2.50	2.28	1.96	LDD-E302NI	LDD-F302NI
	Red	.40 (10.16)	.63 x .80 (16.00 x 20.22)	2.0	10	2500	67-1437-ND	67-1438-ND	2.39	2.18	1.88	LDD-A404NI	LDD-C404NI
	Green	.40 (10.16)	.63 x .80 (16.00 x 20.22)	2.2	10	2500	67-1419-ND	67-1421-ND	2.39	2.18	1.88	LDD-A402NI	LDD-C402NI
	Yellow	.40 (10.16)	.63 x .80 (16.00 x 20.22)	2.1	10	2000	67-1420-ND	67-1422-ND	2.39	2.18	1.88	LDD-A403NI	LDD-C403NI
	Super-Red	.40 (10.16)	.63 x .80 (16.00 x 20.22)	1.7	10	8000	67-1447-ND	67-1448-ND	3.69	3.35	2.89	LDD-A406NI	LDD-C406NI
3	Red/Orange	.56 (14.22)	.75 x .98 (19.05 x 24.89)	2.0	10	2500	67-1455-ND	67-1458-ND	2.39	2.18	1.88	LDD-A514RI	LDD-C514RI
	Green	.56 (14.22)	.75 x .98 (19.05 x 24.89)	2.2	10	2500	67-1456-ND	67-1459-ND	2.39	2.18	1.88	LDD-A512RI	LDD-C512RI
	Yellow	.56 (14.22)	.75 x .98 (19.05 x 24.89)	2.1	10	2000	67-1457-ND	67-1460-ND	2.39	2.18	1.88	LDD-A513RI	LDD-C513RI
	Super-Red	.56 (14.22)	.75 x .98 (19.05 x 24.89)	1.7	10	8000	67-1461-ND	67-1462-ND	3.69	3.35	2.89	LDD-A516RI	LDD-C516RI
	Red/Orange	.80 (20.32)	1.01 x 1.41 (25.65 x 35.81)	2.0	10	2500	67-1469-ND	67-1472-ND	3.99	3.63	3.12	LDD-A814RI	LDD-C814RI
	Green	.80 (20.32)	1.01 x 1.41 (25.65 x 35.81)	2.2	10	2500	67-1470-ND	67-1473-ND	3.99	3.63	3.12	LDD-A812RI	LDD-C812RI
	Yellow	.80 (20.32)	1.01 x 1.41 (25.65 x 35.81)	2.1	10	2000	67-1471-ND	67-1474-ND	3.99	3.63	3.12	LDD-A813RI	LDD-C813RI
4	Red/Orange	.56 (14.22)	.75 x 1.48 (19.05 x 37.59)	2.0	10	2500	67-1423-ND	67-1425-ND	5.09	4.63	3.98	LDT-A514RI	LDT-C514RI
	Green	.56 (14.22)	.75 x 1.48 (19.05 x 37.59)	2.2	10	2500	67-1424-ND	67-1426-ND	5.09	4.63	3.98	LDT-A512RI	LDT-C512RI
	Red/Orange	.28 (7.11)	.40 x 1.264 (10.11 x 32.11)	2.0	10	2500	67-1427-ND†•	—	7.40	6.73	5.79	LDQ-M284RI	—
	Green	.28 (7.11)	.40 x 1.264 (10.11 x 32.11)	2.2	10	2500	67-1428-ND†•	—	7.40	6.73	5.79	LDQ-M282RI	—
	Yellow	.28 (7.11)	.40 x 1.264 (10.11 x 32.11)	2.1	10	2000	67-1429-ND†•	—	7.40	6.73	5.79	LDQ-M283RI	—
	Super-Red	.28 (7.11)	.40 x 1.264 (10.11 x 32.11)	1.7	10	8000	67-1430-ND†•	—	14.16	12.88	11.08	LDQ-M286RI	—
5	Red/Orange	.56 (14.22)	.75 x 1.98 (19.00 x 50.29)	2.0	10	2500	67-1439-ND†	67-1442-ND†	7.40	6.73	5.79	LDQ-M514RI	LDQ-N514RI
	Green	.56 (14.22)	.75 x 1.98 (19.00 x 50.29)	2.2	10	2500	67-1440-ND†	67-1443-ND†	7.40	6.73	5.79	LDQ-M512RI	LDQ-N512RI
	Yellow	.56 (14.22)	.75 x 1.98 (19.00 x 50.29)	2.1	10	2000	67-1441-ND†	67-1444-ND†	7.40	6.73	5.79	LDQ-M513RI	LDQ-N513RI
	Super-Red	.56 (14.22)	.75 x 1.98 (19.00 x 50.29)	1.7	10	8000	67-1449-ND†	67-1450-ND†	7.40	6.73	5.79	LDQ-M516RI	LDQ-N516RI
6	Red	.56 (14.22)	.75 x .49 (19.05 x 12.50)	2.0	10	2500	67-1512-ND†	67-1513-ND†	1.98	1.80	1.55	LDS-M514RI-RA	LDS-N514RI-RA
	Green	.56 (14.22)	.75 x .49 (19.05 x 12.50)	2.2	10	2500	67-1514-ND†	67-1515-ND†	1.98	1.80	1.55	LDS-M512RI-RA	LDS-N512RI-RA
7	Red	.30 (7.62)	.59 x .61 (15.00 x 15.50)	2.0	10	2500	67-1516-ND†‡	67-1517-ND†‡	3.38	3.08	2.65	LDD-E304NI-RA	LDD-F304NI-RA
	Green	.30 (7.62)	.59 x .61 (15.00 x 15.50)	2.2	10	2500	67-1518-ND†‡	67-1519-ND†‡	3.38	3.08	2.65	LDD-E302NI-RA	LDD-F302NI-RA
	Red	.56 (14.20)	.75 x .98 (19.00 x 25.00)	2.0	10	2500	67-1520-ND†	67-1521-ND†	3.33	3.03	2.61	LDD-M514RI-RA	LDD-N514RI-RA
	Green	.56 (14.20)	.75 x .98 (19.00 x 25.00)	2.2	10	2500	67-1522-ND†	67-1523-ND†	3.33	3.03	2.61	LDD-M512RI-RA	LDD-N512RI-RA

Multiplexed Display • Inactive colon on display ‡ Non standard segment connections

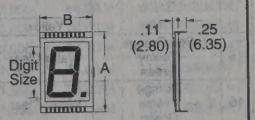
Large Liquid Crystal 7-Segment Displays

Digit Size Inch (mm)	Dim. - Inch (mm) A x B	Driving Method	Digi-Key Part No.	Price Each 1	25	100	Lumex Part No.
1.36 (34.54)	1.97 x 1.30 (50.00 x 33.00)	Static, 1/2 Bias	67-1506-ND	4.65	3.88	3.10	LCD-S101D14TR
2.21 (56.13)	3.00 x 2.20 (76.20 x 55.88)	Static	67-1507-ND	10.56	8.80	7.04	LCD-S101D22TR
2.99 (76.00)	4.03 x 3.00 (102.40 x 76.20)	Static	67-1508-ND	17.66	14.13	12.37	LCD-S101D30TR
3.00 (101.60)	4.83 x 3.20 (122.56 x 81.28)	Static, 1/2 Bias	67-1509-ND	22.86	18.29	16.01	LCD-S101D40TR

SPECIFICATIONS:

- **Fluid Type:** TN
- **Background Color:** Gray
- **Viewing Direction:** 6:00
- **Display Mode:** Reflective
- **Operating Voltage:** 3.0 to 5.0 VAC
- **Operating Temperature:** 0°C to +50°C
- **Storage Temperature:** -20°C to +70°C
- Can be driven with the CD4543BE

Note: 4" display does not have decimal point. Pin count varies with display height.



Surface Mount LEDs

Fig. 1 — 1206

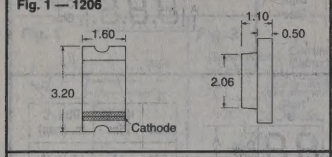


Fig. 2 — 1210

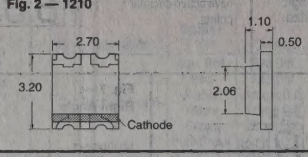
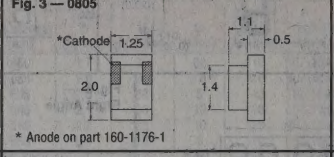


Fig. 3 — 0805



* Anode on part 160-1176-1

Fig. 4 *NEW!* — 0805

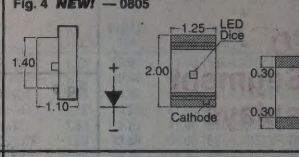


Fig. 5 — 0805 Super Thin

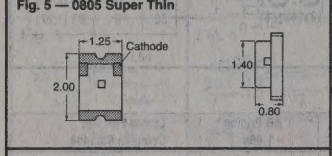
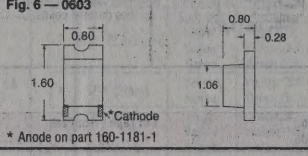


Fig. 6 — 0603



* Anode on part 160-1181-1

Fig. 7 *NEW!* — 0603

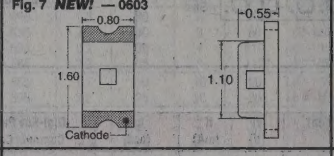


Fig. 8 — 0603 Super Thin

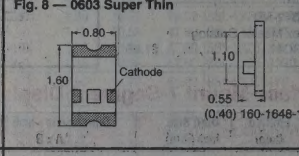


Fig. 9 — 0603 Super Thin

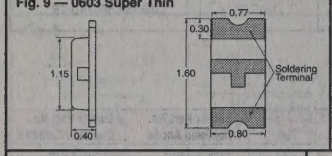


Fig. 10 — 0605 Dual LED

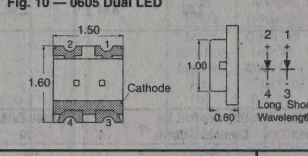


Fig. 11 — 1206 (Rear Mount)

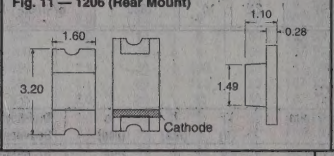


Fig. 12

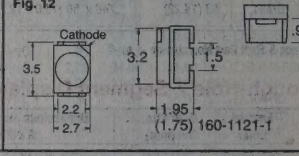


Fig. 13 — 0805 Right Angle

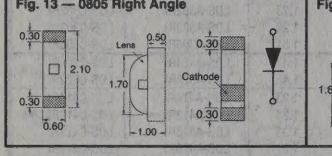


Fig. 14 — 0603 Right Angle

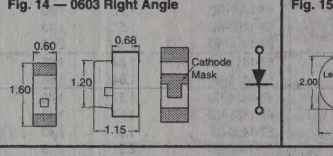


Fig. 15 — 1208 Right Angle

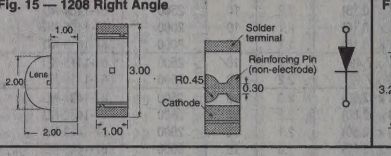


Fig. 16 — Domed

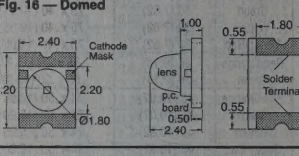


Fig.	Emitted Color	Lens	Peak Wavelength (nm)	Vf Typ. (V)	If (mA) Max.	Iv Typ. (mcd) @ mA		Viewing Angle (2x Theta)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape & Reel Size	Pricing	Lite-On Part No.
1	Red	Water Clear	660	1.8	40	25	20	130	160-1167-1-ND	.11	.95	7.60	160-1167-2-ND	3,000	57.00/M	LTST-C150CK
	Red Orange		630	2.0	30	6	10	130	160-1168-1-ND	.11	.88	7.00	160-1168-2-ND	3,000	52.50/M	LTST-C150EK
	Amber		610	2.1	30	6	10	130	160-1166-1-ND	.11	.88	7.00	160-1166-2-ND	3,000	52.50/M	LTST-C150AK
	Yellow		585	2.1	20	6	10	130	160-1170-1-ND	.11	.88	7.00	160-1170-2-ND	3,000	52.50/M	LTST-C150YK
	Green		565	2.1	30	6	10	130	160-1169-1-ND	.11	.88	7.00	160-1169-2-ND	3,000	52.50/M	LTST-C150GK
	White	Yellow	—	3.2	100	260	20	130	160-1737-1-ND ***NEW!***	.55	4.58	36.60	160-1737-2-ND ***NEW!***	3,000	274.50/M	LTW-150TK
2	Green/Yellow	Water Clear	565/585	2.1/2.1	30/20	7/6	10	130/130	160-1171-1-ND	.17	1.45	11.60	160-1171-2-ND	3,000	87.00/M	LTST-C155GY
	Green/Red Orange		565/630	2.1/2.0	30/30	7/6	10	130/130	160-1172-1-ND	.17	1.45	11.60	160-1172-2-ND	3,000	87.00/M	LTST-C155GE
3	Red	Water Clear	660	1.8	40	10	10	130	160-1176-1-ND	.12	1.00	8.00	160-1176-2-ND	3,000	60.00/M	LTST-C170CK
	Red Orange		630	2.0	30	2	10	130	160-1178-1-ND	.11	.93	7.40	160-1178-2-ND	3,000	55.50/M	LTST-C170EK
	Amber		610	2.1	30	2	10	130	160-1177-1-ND	.11	.93	7.40	160-1177-2-ND	3,000	55.50/M	LTST-C170AK
	Yellow		585	2.1	20	6	10	130	160-1175-1-ND	.11	.93	7.40	160-1175-2-ND	3,000	55.50/M	LTST-C170YK
	Green		565	2.1	30	6	10	130	160-1179-1-ND	.11	.93	7.40	160-1179-2-ND	3,000	55.50/M	LTST-C170GK
4	White	Yellow	—	3.3	100	281	20	130	160-1738-1-ND ***NEW!***	.55	4.58	36.60	160-1738-2-ND ***NEW!***	3,000	274.50/M	LTW-170TK
5	Red	Water Clear	660	1.8	40	25	20	130	160-1421-1-ND	.15	1.14	9.50	160-1421-2-ND	3,000	57.00/M	LTST-C171CK
	Red Orange		630	2.0	30	6	20	130	160-1422-1-ND	.14	1.05	8.75	160-1422-2-ND	3,000	52.50/M	LTST-C171EK
	Amber		610	2.1	30	4.5	20	130	160-1419-1-ND	.14	1.05	8.75	160-1419-2-ND	3,000	52.50/M	LTST-C171AK
	Yellow		585	2.1	20	4.5	20	130	160-1431-1-ND	.14	1.05	8.75	160-1431-2-ND	3,000	52.50/M	LTST-C171YK
	Green		565	2.1	30	12	20	130	160-1423-1-ND	.14	1.05	8.75	160-1423-2-ND	3,000	52.50/M	LTST-C171GK
6	Red	Water Clear	660	1.8	40	10	10	130	160-1181-1-ND	.10	.83	6.60	160-1181-2-ND	3,000	49.50/M	LTST-C190CK
	Red Orange		630	2.0	30	2	10	130	160-1182-1-ND	.09	.75	6.00	160-1182-2-ND	3,000	45.00/M	LTST-C190EK
	Amber		610	2.1	30	2	10	130	160-1180-1-ND	.09	.75	6.00	160-1180-2-ND	3,000	45.00/M	LTST-C190AK
	Yellow		585	2.1	20	6	10	130	160-1184-1-ND	.09	.75	6.00	160-1184-2-ND	3,000	45.00/M	LTST-C190YK
	Green		565	2.1	30	6	10	130	160-1183-1-ND	.09	.75	6.00	160-1183-2-ND	3,000	45.00/M	LTST-C190GK
7	White	Yellow	—	2.93	100	70	20	130	160-1724-1-ND ***NEW!***	.54	4.50	36.00	160-1724-2-ND ***NEW!***	3,000	270.00/M	LTW-C191TS5
8	Red Orange	Water Clear	630	2.0	30	4.5	20	130	160-1442-1-ND	.14	1.05	8.75	160-1442-2-ND	5,000	52.50/M	LTST-C191EK
	Amber		610	2.1	30	4.5	20	130	160-1440-1-ND	.14	1.05	8.75	160-1440-2-ND	5,000	52.50/M	LTST-C191AK
	Yellow		585	2.1	20	4.5	20	130	160-1449-1-ND	.14	1.05	8.75	160-1449-2-ND	5,000	52.50/M	LTST-C191YK
	Green		565	2.1	30	12	20	130	160-1443-1-ND	.14	1.05	8.75	160-1443-2-ND	5,000	52.50/M	LTST-C191GK
	White	Yellow	—	2.95	20	78	5	130	160-1720-1-ND	1.25	10.43	83.40	160-1720-2-ND	3,000	625.50/M	LTW-191TS5
9	White	Yellow	—	2.95	20	78	5	130	160-1721-1-ND	1.25	10.43	83.40	160-1721-2-ND	3,000	625.50/M	LTW-C193TS5
	White		—	2.70	100	38	20	130	160-1741-1-ND ***NEW!***	.55	4.58	36.60	160-1741-2-ND ***NEW!***	5,000	274.50/M	LTW-C192TL2
	White		—	2.93	100	70	20	130	160-1742-1-ND ***NEW!***	.55	4.58	36.60	160-1742-2-ND ***NEW!***	5,000	274.50/M	LTW-C192TL5
	White		—	2.93	100	70	20	130	160-1743-1-ND ***NEW!***	.55	4.58	36.60	160-1743-2-ND ***NEW!***	5,000	274.50/M	LTW-C192TS5
10	Green/Red	Water Clear	565/630	2.1/2.0	30/30	10/4.5	20	130	160-1450-1-ND	.23	1.74	14.50	160-1450-2-ND	4,000	87.00/M	LTST-C195GE
	Green/Yellow		565/585	2.1/2.1	30/20	10/4.5	20	130	160-1451-1-ND	.23	1.74	14.50	160-1451-2-ND	4,000	87.00/M	LTST-C195GY
11	Red	Water Clear	660	1.8	40	25	20	130	160-1186-1-ND	.12	1.00	8.00	160-1186-2-ND	3,000	60.00/M	LTST-C230CK
	Red Orange		630	2.0	30	6	20	130	160-1187-1-ND	.11	.93	7.40	160-1187-2-ND	3,000	55.50/M	LTST-C230EK
	Amber		610	2.1	30	4.5	20	130	160-1185-1-ND	.11	.93	7.40	160-1185-2-ND	3,000	55.50/M	LTST-C230AK
	Yellow		585	2.1	20	4.5	20	130	160-1189-1-ND	.11	.93	7.40	160-1189-2-ND	3,000	55.50/M	LTST-C230YK
	Green		565	2.1	30	14	20	130	160-1188-1-ND	.11	.93	7.40	160-1188-2-ND	3,000	55.50/M	LTST-C230GK
12	Red	Water Clear	635	2.0	30	12.4	10	120	160-1222-1-ND	.17	1.29	10.75	160-1222-2-ND	2,000	64.50/M	LTST-T670EK
	Amber		610	2.1	30	8	10	120	160-1121-1-ND	.27	2.28	18.20	160-1121-2-ND	1500	137.00/M	LTL-94PAKTA
	Amber		610	2.1	30	12.4	10	120	160-1221-1-ND	.17	1.29	10.75	160-1221-2-ND	2,000	64.50/M	LTST-T670AK
	Yellow		585	2.1	20	12.4	10	120	160-1224-1-ND	.17	1.29	10.75	160-1224-2-ND	2,000	64.50/M	LTST-T670YK
	Green		565	2.1	30	20	10	120	160-1223-1-ND	.17	1.29	10.75	160-1223-2-ND	2,000	64.50/M	LTST-T670GK
	White	Yellow	—	3.5	100	700	30	120	160-1725-1-ND ***NEW!***	.84	7.00	56.00	160-1725-2-ND ***NEW!***	2,000	420.00/M	LTW-670DS
13	Red Orange	Water Clear	630	2.0	30	4	20	130	160-1220-1-ND	.15	1.11	9.25	160-1220-2-ND	4,000	55.50/M	LTST-S220EK
	Green		565	2.1	30	10	20	130	160-1218-1-ND	.15	1.11	9.25	160-1218-2-ND	4,000	55.50/M	LTST-S220GK
14	Red Orange	Water Clear	630	2.0	30	4	20	130	160-1474-1-ND	.14	1.05	8.75	160-1474-2-ND	4,000	52.50/M	LTST-S270EK
	Amber		610	2.1	30	4	20	130	160-1472-1-ND	.22	1.65	13.75	—	—	—	LTST-S270AK
	Yellow		585	2.1	20	4	20	130	160-1482-1-ND	.14	1.05	8.75	160-1482-2-ND	4,000	52.50/M	LTST-S270YK
	Green		565	2.1	30	10	20	130	160-1475-1-ND	.14	1.05	8.75	160-1475-2-ND	4,000	52.50/M	LTST-S270GK
	White	Yellow	—	3.0	100	95	20	130	160-1739-1-ND ***NEW!***	1.16	9.63	77.00	160-1739-2-ND ***NEW!***	4,000	577.50/M	LTW-270TLA
15	Red Orange	Water Clear	630	2.0	30	4	20	130	160-1208-1-ND	.16	1.20	10.00	160-1208-2-ND	3,000	60.00/M	LTST-S320EK
	Yellow		585	2.1	20	4	20	130	160-1207-1-ND	.16	1.20	10.00	160-1207-2-ND	3,000	60.00/M	LTST-S320YK
	Green		565	2.1	30	10	20	130	160-1206-1-ND	.16	1.20	10.00	160-1206-2-ND	3,000	60.00/M	LTST-S320GK
16	Orange	Water Clear	630	2.0	30	25	10	25	160-1214-1-ND	.18	1.35	11.25	160-1214-2-ND	1,500	67.50/M	LTST-C930EK
	Yellow		585	2.1	20	16	10	25	160-1213-1-ND	.18	1.35	11.25	160-1213-2-ND	1,500	67.50/M	LTST-C930YK
	Green		565	2.1	30	40	10	25	160-1212-1-ND	.18	1.35	11.25	160-1212-2-ND	1,500	67.50/M	LTST-C930GK

(Conti

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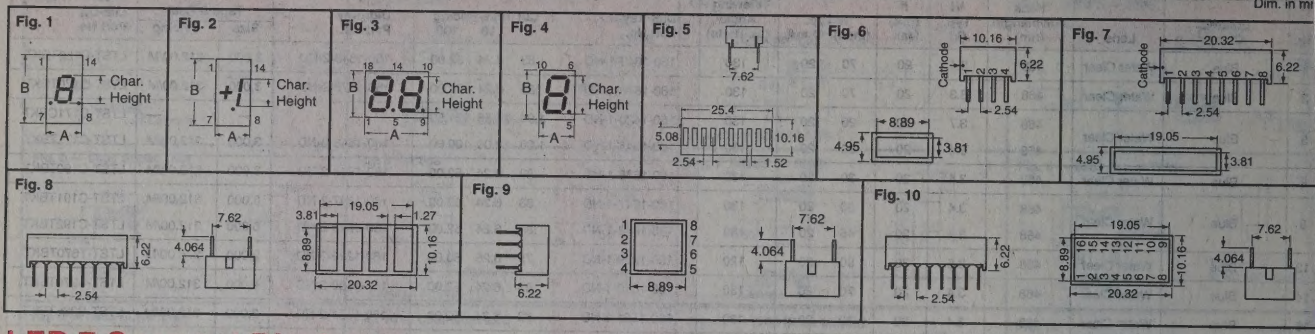
Blue Surface Mount LEDs

Fig.	Emitted Color	Lens	Peak Wavelength (nm)	Vf Typ. (V)	If (mA) Max.	Iv Typ. (mcd)	@ mA	Viewing Angle (2x Theta)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape & Reel Size	Pricing	Lite-On Part No.
1	Blue	Water Clear	468	3.4	20	70	20	130	160-1643-1-ND	.83	6.24	52.00	160-1643-2-ND	3,000	312.00/M	LTST-C150TBKT
3	Blue	Water Clear	468	3.3	20	70	20	130	160-1579-1-ND	.83	6.24	52.00	160-1579-2-ND	3,000	312.00/M	LTST-C170TBKT
5	Blue	Water Clear	468	3.7	20	20	20	130	160-1420-1-ND	1.94	14.58	121.50	—	—	—	LTST-C171CBKT
			468	3.4	20	30	20	130	160-1645-1-ND	1.60	12.00	100.00	160-1645-2-ND	3,000	312.00/M	LTST-C171TBKT
6	Blue	Water Clear	468	3.4	20	30	20	130	160-1646-1-ND	.83	6.24	52.00	160-1646-2-ND	3,000	312.00/M	LTST-C190TBKT
8	Blue	Water Clear	468	3.4	20	30	20	130	160-1647-1-ND	.83	6.24	52.00	160-1647-2-ND	5,000	312.00/M	LTST-C191TBKT
			468	3.4	20	45	20	130	160-1648-1-ND	.83	6.24	52.00	160-1648-2-ND	5,000	312.00/M	LTST-C192TBKT
12	Blue	Water Clear	468	3.5	30	90	20	120	160-1229-1-ND	.75	6.25	50.00	160-1229-2-ND	2,000	375.00/M	LTST-T670TBKT
14	Blue	Water Clear	468	3.4	20	70	20	130	160-1650-1-ND	.83	6.24	52.00	160-1650-2-ND	4,000	312.00/M	LTST-S270TBKT
15	Blue	Water Clear	468	3.4	20	30	20	130	160-1651-1-ND	.83	6.24	52.00	160-1651-2-ND	3,000	312.00/M	LTST-S320TBKT
16	Blue	Water Clear	468	3.7	30	180	20	25	160-1460-1-ND	2.28	17.10	142.50	160-1460-2-ND	1,500	855.00/M	LTST-C930CBKT
			468	3.4	20	450	20	25	160-1649-1-ND	.83	6.24	52.00	160-1649-2-ND	1,500	312.00/M	LTST-C930TBKT

Ultra-Bright AlInGaP Surface Mount LEDs

Fig.	Emitted Color	Lens	Peak Wavelength (nm)	VF Typ. (V)	If (mA) Max.	Iv Typ. (mcd)	@ mA	Viewing Angle (2x Theta)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape & Reel Size	Pricing	Lite-On Part No.
1	Super Red	Water Clear	639	2.0	30	54	20	130	160-1405-1-ND	.17	1.26	10.50	160-1405-2-ND	3,000	63.00/M	LTST-C150KRKT
	Red Orange		621	2.0	30	55	20	130	160-1402-1-ND	.17	1.26	10.50	160-1402-2-ND	3,000	63.00/M	LTST-C150KAKT
	Amber Yellow		595	2.0	30	50	20	130	160-1407-1-ND	.17	1.26	10.50	160-1407-2-ND	3,000	63.00/M	LTST-C150KYKT
	Yellow		588	2.0	30	60	20	130	160-1406-1-ND	.17	1.26	10.50	160-1406-2-ND	3,000	63.00/M	LTST-C150KSKT
	Green		574	2.0	30	35	20	130	160-1404-1-ND	.17	1.26	10.50	160-1404-2-ND	3,000	63.00/M	LTST-C150KGKT
2	Green/Super Red	Water Clear	574/639	2/2	30/30	35/45	20	130	160-1409-1-ND	.27	2.01	16.75	160-1409-2-ND	3,000	100.50/M	LTST-C155KGJRKT
	Green/Yellow		574/591	2/2	30/30	35/75	20	130	160-1410-1-ND	.27	2.01	16.75	160-1410-2-ND	3,000	100.50/M	LTST-C155KGJSKT
3	Super Red	Water Clear	639	2.0	30	54	20	130	160-1415-1-ND	.17	1.29	10.75	160-1415-2-ND	3,000	64.50/M	LTST-C170KRKT
	Red Orange		621	2.0	30	55	20	130	160-1412-1-ND	.17	1.29	10.75	160-1412-2-ND	3,000	64.50/M	LTST-C170KAKT
	Amber		611	2.0	30	60	20	130	160-1413-1-ND	.17	1.29	10.75	160-1413-2-ND	3,000	64.50/M	LTST-C170KFKT
	Amber Yellow		595	2.0	30	60	20	130	160-1417-1-ND	.17	1.29	10.75	160-1417-2-ND	3,000	64.50/M	LTST-C170KYKT
	Yellow		588	2.0	30	60	20	130	160-1416-1-ND	.17	1.29	10.75	160-1416-2-ND	3,000	64.50/M	LTST-C170KSKT
	Green		574	2.0	30	35	20	130	160-1414-1-ND	.17	1.29	10.75	160-1414-2-ND	3,000	64.50/M	LTST-C170KGKT
5	Super Red	Water Clear	639	2.0	30	54	20	130	160-1427-1-ND	.17	1.26	10.50	160-1427-2-ND	3,000	63.00/M	LTST-C171KRKT
	Red Orange		621	2.0	30	55	20	130	160-1424-1-ND	.22	1.65	13.75	—	—	—	LTST-C171KAKT
	Amber Yellow		595	2.0	30	50	20	130	160-1429-1-ND	.17	1.26	10.50	160-1429-2-ND	3,000	63.00/M	LTST-C171KYKT
	Yellow		588	2.0	30	60	20	130	160-1428-1-ND	.17	1.26	10.50	160-1428-2-ND	3,000	63.00/M	LTST-C171KSKT
	Green		574	2.0	30	35	20	130	160-1426-1-ND	.17	1.26	10.50	160-1426-2-ND	3,000	63.00/M	LTST-C171KGKT
6	Super Red	Water Clear	639	2.0	30	54	20	130	160-1436-1-ND	.15	1.11	9.25	160-1436-2-ND	3,000	55.50/M	LTST-C190KRKT
	Red Orange		621	2.0	30	55	20	130	160-1433-1-ND	.15	1.11	9.25	160-1433-2-ND	3,000	55.50/M	LTST-C190KAKT
	Amber		611	2.0	30	60	20	130	160-1434-1-ND	.15	1.11	9.25	160-1434-2-ND	3,000	55.50/M	LTST-C190KFKT
	Amber Yellow		595	2.0	30	50	20	130	160-1438-1-ND	.15	1.11	9.25	160-1438-2-ND	3,000	55.50/M	LTST-C190KYKT
	Yellow		588	2.0	30	60	20	130	160-1437-1-ND	.15	1.11	9.25	160-1437-2-ND	3,000	55.50/M	LTST-C190KSKT
	Green		574	2.0	30	35	20	130	160-1435-1-ND	.15	1.11	9.25	160-1435-2-ND	3,000	55.50/M	LTST-C190KGKT
8	Super Red	Water Clear	639	2.0	30	54	20	130	160-1447-1-ND	.17	1.26	10.50	160-1447-2-ND	5,000	63.00/M	LTST-C191KRKT
	Red Orange		621	2.0	30	55	20	130	160-1444-1-ND	.17	1.26	10.50	160-1444-2-ND	5,000	63.00/M	LTST-C191KAKT
	Yellow		591	2.0	30	60	20	130	160-1448-1-ND	.17	1.26	10.50	160-1448-2-ND	5,000	63.00/M	LTST-C191KSKT
	Green		574	2.0	30	35	20	130	160-1446-1-ND	.17	1.26	10.50	160-1446-2-ND	5,000	63.00/M	LTST-C191KGKT
10	Green/Red	Water Clear	574/639	2/2	30/30	35/45	20	130	160-1452-1-ND	.27	2.01	16.75	160-1452-2-ND	4,000	100.50/M	LTST-C195KGJRKT
	Green/Yellow		574/591	2/2	30/30	35/75	20	130	160-1453-1-ND	.27	2.01	16.75	160-1453-2-ND	4,000	100.50/M	LTST-C195KGJSKT
11	Super Red	Water Clear	639	2.0	30	54	20	130	160-1457-1-ND	.17	1.29	10.75	160-1457-2-ND	3,000	64.50/M	LTST-C230KRKT
	Red Orange		621	2.0	30	55	20	130	160-1455-1-ND	.22	1.65	13.75	—	—	—	LTST-C230KAKT
	Yellow		588	2.0	30	60	20	130	160-1458-1-ND	.17	1.29	10.75	160-1458-2-ND	3,000	64.50/M	LTST-C230KSKT
	Green		574	2.0	30	35	20	130	160-1456-1-ND	.17	1.29	10.75	160-1456-2-ND	3,000	64.50/M	LTST-C230KGKT
12	Red	Water Clear	639	2.0	30	100	20	120	160-1226-1-ND	.20	1.50	12.50	160-1226-2-ND	2,000	75.00/M	LTST-T670KRKT
	Yellow		591	2.0	30	100	20	120	160-1227-1-ND	.20	1.50	12.50	160-1227-2-ND	2,000	75.00/M	LTST-T670KSKT
	Green		574	2.0	30	60	20	120	160-1228-1-ND	.20	1.50	12.50	160-1228-2-ND	2,000	75.00/M	LTST-T670KGKT
	Amber		611	2.0	30	100	20	120	160-1225-1-ND	.20	1.50	12.50	160-1225-2-ND	2,000	75.00/M	LTST-T670KFKT
13	Super Red	Water Clear	639	2.0	30	54	20	130	160-1469-1-ND	.16	1.20	10.00	160-1469-2-ND	4,000	60.00/M	LTST-S220KRKT
	Yellow		591	2.0	30	60	20	130	160-1470-1-ND	.16	1.20	10.00	160-1470-2-ND	4,000	60.00/M	LTST-S220KSKT
	Green		574	2.0	30	35	20	130	160-1468-1-ND	.16	1.20	10.00	160-1468-2-ND	4,000	60.00/M	LTST-S220KGKT
14	Super Red	Water Clear	639	2.0	30	54	20	130	160-1479-1-ND	.17	1.26	10.50	160-1479-2-ND	4,000	63.00/M	LTST-S270KRKT
	Red Orange		621	2.0	30	55	20	130	160-1476-1-ND	.22	1.65	13.75	—	—	—	LTST-S270KAKT
	Amber		611	2.0	20	60	20	130	160-1477-1-ND	.17	1.26	10.50	160-1477-2-ND	4,000	63.00/M	LTST-S270KFKT
	Amber Yellow		595	2.0	30	50	20	130	160-1481-1-ND	.20	1.50	12.50	—	—	—	LTST-S270KYKT
	Yellow		591	2.0	30	60	20	130	160-1480-1-ND	.17	1.26	10.50	160-1480-2-ND	4,000	63.00/M	LTST-S270KSKT
	Green		574	2.0	30	35	20	130	160-1478-1-ND	.17	1.26	10.50	160-1478-2-ND	4,000	63.00/M	LTST-S270KGKT
15	Super Red	Water Clear	639	2.0	30	54	20	130	160-1487-1-ND	.19	1.41	11.75	160-1487-2-ND	3,000	70.50/M	LTST-S320KRKT
	Red Orange		621	2.0	30	55	20	130	160-1484-1-ND	.22	1.65	13.75	—	—	—	LTST-S320KAKT
	Amber Yellow		595	2.0	30	50	20	130	160-1489-1-ND	.17	1.29	10.75	160-1489-2-ND	3,000	64.50/M	LTST-S320KYKT
	Yellow		591	2.0	30	60	20	130	160-1488-1-ND	.19	1.41	11.75	160-1488-2-ND	3,000	70.50/M	LTST-S320KSKT
	Green		574	2.0	30	35	20	130	160-1486-1-ND	.17	1.29	10.75	160-1486-2-ND	3,000	64.50/M	LTST-S320KGKT
16	Super Red	Water Clear	639	2.0	30	850	20	25	160-1463-1-ND	.21	1.56	13.00	160-1463-2-ND	1,500	78.00/M	LTST-C930KRKT
	Red Orange		621	2.0	30	1050	20	25	160-1461-1-ND	.21	1.56	13.00	160-1461-2-ND	1,500	78.00/M	LTST-C930KAKT
	Yellow		591	2.0	30	800	20	25	160-1464-1-ND	.21	1.56	13.00	160-1464-2-ND	1,500	78.00/M	LTST-C930KSKT
	Green		574	2.0	30	365	20	25	160-1462-1-ND	.21	1.56	13.00	160-1462-2-ND	1,500	78.00/M	LTST-C930KGKT

Dim. in mm



LED 7-Segment Displays *(All 7-Segment displays have a right hand decimal point unless noted otherwise.)*

Fig.	Color	Char. Height (mm)	A Width (mm)	B Height (mm)	Forward Voltage (V)	Forward Current (mA)	Luminous Intensity µcd @ mA		Digi-Key Part No. Common Anode	Price Each 1	Price Each 10	Price Each 100	Mfg. Part No.	Digi-Key Part No. Common Cathode	Price Each 1	Price Each 10	Price Each 100	Agilent Part No.
1	HE Red	7.62	10.16	19.05	2.1	30	800	5	516-1186-5-ND†	3.54	2.44	1.99	5082-7610	—	—	—	—	—
	HE Red	7.62	10.16	19.05	2.1	30	800	5	516-1187-5-ND	3.54	2.44	1.99	5082-7611	516-1188-5-ND	3.54	2.44	1.99	5082-7613
	Green	7.62	10.16	19.05	2.1	30	2,700	10	516-1189-5-ND	3.54	2.44	1.99	HDSP-3601	516-1190-5-ND	3.54	2.44	1.99	HDSP-3603
	HE Red	10.92	12.70	19.05	2.1	30	1,115	5	516-1191-5-ND†	3.54	2.44	1.99	5082-7650	—	—	—	—	—
	HE Red	10.92	12.70	19.05	2.1	30	1,115	5	516-1192-5-ND	3.54	2.44	1.99	5082-7651	516-1193-5-ND	3.54	2.44	1.99	5082-7653
	Green	10.92	12.70	19.05	2.1	30	4,000	10	516-1194-5-ND	3.54	2.44	1.99	HDSP-4601	516-1195-5-ND	3.54	2.44	1.99	HDSP-4603
	HE Red	10.16	9.79	12.90	2.0	30	1,200	5	516-1198-5-ND	3.30	2.20	1.80	HDSP-F201	516-1199-5-ND	3.30	2.20	1.80	HDSP-F203
	Green	10.16	9.79	12.90	2.1	30	3,500	10	516-1200-5-ND	3.30	2.20	1.80	HDSP-F501	516-1201-5-ND	3.30	2.20	1.80	HDSP-F503
	HE Red	7.62	7.62	12.70	2.0	30	5,390	20	516-1202-5-ND	3.30	2.20	1.80	HDSP-7501	516-1203-5-ND	3.30	2.20	1.80	HDSP-7503
	Green	7.62	7.62	12.70	2.1	30	6,800	20	516-1204-5-ND	3.30	2.20	1.80	HDSP-7801	516-1205-5-ND	3.30	2.20	1.80	HDSP-7803
	Red	7.62	7.62	12.70	1.7	15	3,600	5	516-1220-5-ND	3.83	2.64	2.16	HDSP-A101	516-1221-5-ND	3.83	2.64	2.16	HDSP-A103
	HE Red	7.62	7.62	12.70	1.7	15	1,050	5	516-1222-5-ND	3.65	2.52	2.06	HDSP-7511	516-1223-5-ND	3.65	2.52	2.06	HDSP-7513
	Red	10.16	9.79	12.90	1.7	15	3,900	5	516-1224-5-ND	3.83	2.64	2.16	HDSP-F101	516-1225-5-ND	3.83	2.64	2.16	HDSP-F103
	Red	10.92	12.70	19.05	1.7	15	3,900	5	516-1226-5-ND	4.23	2.92	2.38	HDSP-E101	516-1227-5-ND	4.23	2.92	2.38	HDSP-E103
	HE Red	20.32	19.96	27.69	2.6	40	4,800	20	516-1232-5-ND	4.87	3.40	2.79	HDSP-3901	516-1233-5-ND	4.87	3.40	2.79	HDSP-3903
	Green	20.32	19.96	27.69	2.1	30	1,500	10	516-1234-5-ND	4.87	3.40	2.79	HDSP-8601	516-1235-5-ND	4.87	3.40	2.79	HDSP-8603
2	HE Red	7.11	10.16	19.05	2.1	30	800	5	516-1196-5-ND	3.54	2.44	1.99	5082-7616	—	—	—	—	—
	HE Red	10.92	12.70	19.05	2.1	30	1,115	5	516-1197-5-ND	3.54	2.44	1.99	5082-7656	—	—	—	—	—
3	HE Red	14.22	25.00	18.60	2.05	25	4,000	10	516-1206-5-ND	1.63	1.02	.77	HDSP-521E	516-1207-5-ND	1.63	1.02	.77	HDSP-523E
	Green	14.22	25.00	18.60	2.0	30	3,500	10	516-1208-5-ND	1.63	1.02	.77	HDSP-521G	516-1209-5-ND	1.63	1.02	.77	HDSP-523G
	HE Red	14.22	25.15	17.02	2.1	30	2,800	10	516-1216-5-ND	4.20	2.93	2.40	HDSP-5521	516-1217-5-ND	4.20	2.93	2.40	HDSP-5523
	Green	14.22	25.15	17.02	2.1	30	2,500	10	516-1218-5-ND	4.20	2.93	2.40	HDSP-5621	516-1219-5-ND	4.20	2.93	2.40	HDSP-5623
4	Red	14.22	12.57	17.02	1.8	40	16,000	20	516-1210-5-ND	3.63	2.50	2.04	HDSP-H151	516-1211-5-ND	3.63	2.50	2.04	HDSP-H153
	HE Red	14.22	12.57	17.02	2.1	30	2,800	10	516-1212-5-ND	3.00	2.00	1.63	HDSP-5501	516-1213-5-ND	3.00	2.00	1.63	HDSP-5503
	Green	14.22	12.57	17.02	2.1	30	2,500	10	516-1214-5-ND	3.00	2.00	1.63	HDSP-5601	516-1215-5-ND	3.00	2.00	1.63	HDSP-5603
	Red	14.22	12.57	17.02	1.7	15	4,200	5	516-1228-5-ND	3.48	2.40	1.96	HDSP-H101	516-1229-5-ND	3.48	2.40	1.96	HDSP-H103
	HE Red	14.22	12.57	17.02	1.7	15	1,200	5	516-1230-5-ND	3.45	2.30	1.88	HDSP-5551	516-1231-5-ND	3.45	2.30	1.88	HDSP-5553

† Left Hand Decimal

Light Bar Graph

Fig.	LED Color	No. of Elements	Forward Voltage (V)	Forward Current (mA)	Luminous Intensity mcd @ mA		Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Agilent Part No.
5	HE Red/ Yellow/Green	10	2.1/2.2/2.1	30/20/30	3.5 1.9 1.9	10 10 10	516-1236-5-ND	6.53	4.83	4.00	HDSP-4832
	HE Red/ Yellow/Green	10	2.1/2.2/2.1	30/20/30	3.5 1.9 1.9	10 10 10	516-1237-5-ND	6.53	4.83	4.00	HDSP-4836
	HE Red	10	2.1	30	3.5	10	516-1238-5-ND	5.20	3.80	3.10	HDSP-4830
	Red		1.6	15	1	1	516-1239-5-ND	6.19	4.53	3.69	HLCP-J100
	Yellow		2.2	20	1.9	10	516-1240-5-ND	6.19	4.53	3.69	HDSP-4840
	Green		2.1	30	1.9	10	516-1241-5-ND	6.19	4.53	3.69	HDSP-4850
6	Red	1	1.8	15	7.5	3	516-1242-5-ND	2.14	1.39	1.09	HLCP-A100
	HE Red		2.0	30	23	20	516-1243-5-ND	1.75	1.13	.87	HLMP-2300
	Yellow		2.1	25	20	20	516-1244-5-ND	1.75	1.13	.87	HLMP-2400
	Green		2.2	30	25	20	516-1245-5-ND	1.75	1.13	.87	HLMP-2500
7	HE Red	1	2.0	30	45	20	516-1246-5-ND	2.64	1.79	1.45	HLMP-2350
	Yellow		2.1	25	38	20	516-1247-5-ND	2.64	1.79	1.45	HLMP-2450
	Green		2.2	30	50	20	516-1248-5-ND	2.64	1.79	1.45	HLMP-2550
8	Red	4	1.8	15	7.5	3	516-1249-5-ND	4.18	2.88	2.35	HLCP-E100
	HE Red		2.0	30	23	20	516-1250-5-ND	3.63	2.50	2.04	HLMP-2620
	Yellow		2.1	25	20	20	516-1251-5-ND	3.63	2.50	2.04	HLMP-2720
	Green		2.2	30	25	20	516-1252-5-ND	3.63	2.50	2.04	HLMP-2820
9	HE Red	1	2.0	30	45	20	516-1253-5-ND	2.44	1.65	1.28	HLMP-2655
	Yellow		2.1	25	38	20	516-1254-5-ND	2.44	1.65	1.28	HLMP-2755
	Green		2.2	30	50	20	516-1255-5-ND	2.44	1.65	1.28	HLMP-2855
	HE Red/ Green	1	2.0/2.2	30	45 50	20 20	516-1259-5-ND	5.35	3.87	3.17	HLMP-2965
10	HE Red	1	2.0	30	80	20	516-1256-5-ND	3.63	2.50	2.04	HLMP-2685
	Yellow		2.1	25	70	20	516-1257-5-ND	3.63	2.50	2.04	HLMP-2785
	Green		2.2	30	100	20	516-1258-5-ND	3.63	2.50	2.04	HLMP-2885

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Dim. in mm

Fig. 1

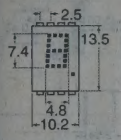


Fig. 2

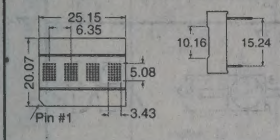


Fig. 3

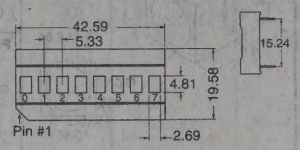


Fig. 4

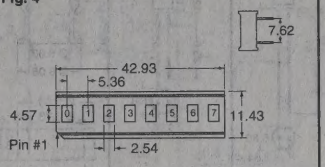


Fig. 5

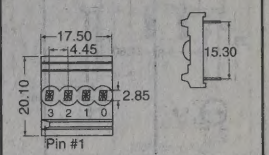


Fig. 6

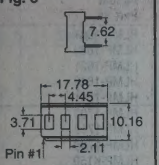


Fig. 7

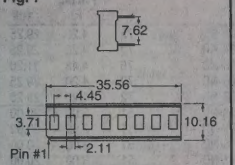


Fig. 8

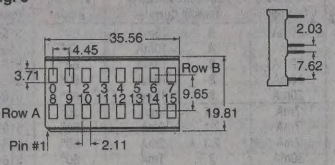


Fig. 9

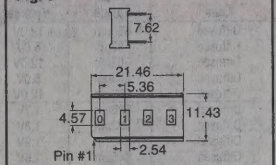
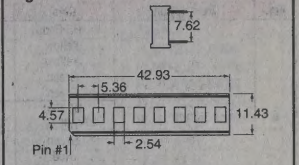


Fig. 10



Smart Displays

Fig.	No. of Char.	Color	Peak Length (nm)	Char. Height (in.)	Char. Format	Lumi-nous Intensity	Digi-Key Part No.	Price Each 1	10	100	Agilent Part No.
Numeric											
1	1	HE Red	635	0.290	1	140 µcd	516-1154-ND	34.83	28.58	25.01	HDSP-0760
Hexadecimal											
1	1	HE Red	635	0.290	1	140 µcd	516-1155-ND	36.31	29.80	26.07	HDSP-0762
		HE Red	635	0.290	1	620 µcd	516-1156-ND	36.31	29.80	26.07	HDSP-0772
		Green	568	0.290	1	1,100 µcd	516-1157-ND	31.47	25.83	22.60	HDSP-0962
7-Bit Parallel											
2	4	HE Red	635	0.200	4.0 x 1	3.50 mcd	516-1158-5-ND	18.67	15.12	12.67	HDLO-2416
		Yellow	583	0.200	4.0 x 1	3.70 mcd	516-1159-5-ND	18.67	15.12	12.67	HDLY-2416
		Green	568	0.200	4.0 x 1	5.60 mcd	516-1160-5-ND	18.67	15.12	12.67	HDLG-2416
8-Bit Parallel											
3	8	HE Red	635	0.189	8.0 x 1	7.50 mcd	516-1161-5-ND	34.40	28.23	24.70	HDSP-2112
		Yellow	583	0.189	8.0 x 1	7.50 mcd	516-1162-5-ND	34.40	28.23	24.70	HDSP-2111
		Green	568	0.189	8.0 x 1	7.50 mcd	516-1163-5-ND	34.40	28.23	24.70	HDSP-2113
		HE Red	635	0.270	8.0 x 1	7.50 mcd	516-1164-5-ND	40.66	33.17	29.43	HDSP-2502
		Green	568	0.270	8.0 x 1	7.50 mcd	516-1165-5-ND	40.66	33.17	29.43	HDSP-2503
4	8	Red	645	0.180	8.0 x 1	25.0 mcd	516-1166-5-ND	36.08	29.60	25.90	HDSP-2534
		HE Red	635	0.180	8.0 x 1	7.50 mcd	516-1167-5-ND	32.57	26.72	23.38	HDSP-2532
		Yellow	583	0.180	8.0 x 1	7.50 mcd	516-1168-5-ND	32.57	26.72	23.38	HDSP-2531

Fig.	No. of Char.	Color	Peak Length (nm)	Char. Height (in.)	Char. Format	Lumi-nous Intensity	Digi-Key Part No.	Price Each 1	10	100	Agilent Part No.
4	8	Green	568	0.180	8.0 x 1	7.50 mcd	516-1169-5-ND	32.57	26.72	23.38	HDSP-2533
7-Bit Parallel											
5	4	Red	655	0.112	4.0 x 1	1.0 mcd	516-1170-5-ND	19.78	15.55	13.43	HPDL-1414
Serial Input											
6	4	HER	635	0.146	4.0 x 1	64 µcd	516-1171-5-ND	21.32	17.38	14.93	HCMS-2902
		Yellow	583	0.146	4.0 x 1	64 µcd	516-1172-5-ND	21.32	17.38	14.93	HCMS-2901
		Green	568	0.146	4.0 x 1	114 µcd	516-1173-5-ND	21.32	17.38	14.93	HCMS-2903
7	8	HER	635	0.146	8.0 x 1	64 µcd	516-1174-5-ND	31.26	25.65	22.45	HCMS-2912
		Yellow	583	0.146	8.0 x 1	64 µcd	516-1175-5-ND	31.26	25.65	22.45	HCMS-2911
		Green	568	0.146	8.0 x 1	114 µcd	516-1176-5-ND	31.26	25.65	22.45	HCMS-2913
8	16	HER	635	0.146	8.0 x 2	64 µcd	516-1177-5-ND	64.12	53.43	47.20	HCMS-2922
		Yellow	583	0.146	8.0 x 2	64 µcd	516-1178-5-ND	64.12	53.43	47.20	HCMS-2921
		Green	568	0.146	8.0 x 2	114 µcd	516-1179-5-ND	64.12	53.43	47.20	HCMS-2923
9	4	HER	635	0.180	4.0 x 1	64 µcd	516-1180-5-ND	21.94	17.89	15.36	HCMS-2962
		Yellow	583	0.180	4.0 x 1	64 µcd	516-1181-5-ND	21.94	17.89	15.36	HCMS-2961
		Green	568	0.180	4.0 x 1	114 µcd	516-1182-5-ND	21.94	17.89	15.36	HCMS-2963
10	8	HER	635	0.180	8.0 x 1	64 µcd	516-1183-5-ND	32.57	26.72	23.38	HCMS-2972
		Yellow	583	0.180	8.0 x 1	64 µcd	516-1184-5-ND	32.57	26.72	23.38	HCMS-2971
		Green	568	0.180	8.0 x 1	114 µcd	516-1185-5-ND	32.57	26.72	23.38	HCMS-2973

Fig. 1

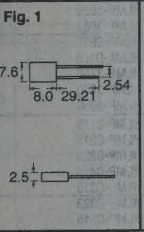


Fig. 2

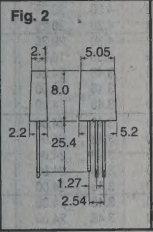


Fig. 3

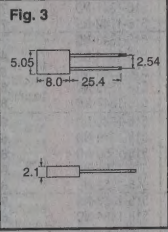


Fig. 4

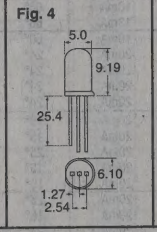


Fig. 5

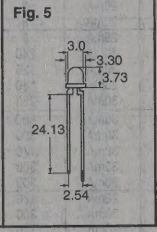


Fig. 6

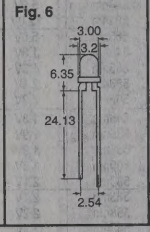


Fig. 7

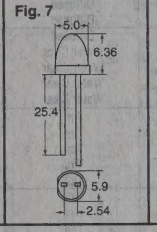


Fig. 8

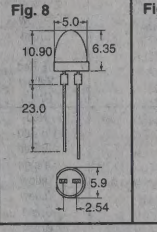
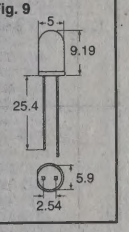


Fig. 9



Dim. in mm

LEDs

Fig.	Description	Color	Lens	Peak Length	Forward Voltage	Forward Current	Luminous Intensity mcd @ Current	Viewing Angle	Digi-Key Part No.	Pricing 1	10	100	Agilent Part No.
1	Rect. 2.5mm x 7.6mm	HE Red	Diffused	635nm	1.9V	30mA	2.1 min. 20mA	100°	516-1277-ND	.90	5.20	38.00	HLMP-0301
		Yellow	Diffused	583nm	2.1V	20mA	3.6 min. 20mA	100°	516-1278-ND	.90	5.20	38.00	HLMP-0401
		Green	Diffused	565nm	2.2V	30mA	2.6 min. 20mA	100°	516-1279-ND	.90	5.20	38.00	HLMP-0504
2	Rect. 2.0mm x 5.0mm	HE Red/Green	White/Diffused	635/568nm	1.9V/2.2V	30mA	2.1/2.5 20mA	100°	516-1280-ND	.95	5.72	41.80	HLMP-0800
3	Rect. 2.0mm x 5.0mm	Red	Diffused	645nm	1.8V	30mA	7.5 20mA	110°	516-1281-ND	.51	3.00	20.00	HLMP-S100
		HE Red	Diffused	635nm	1.9V	30mA	7.5 20mA	110°	516-1282-ND	.36	2.04	13.20	HLMP-S201
		HE Red	Diffused	635nm	1.9V	30mA	3.5 20mA	110°	516-1283-ND	.35	2.04	13.20	HLMP-S201-D0000
		Yellow	Diffused	583nm	2.1V	20mA	4 20mA	110°	516-1284-ND	.36	2.04	13.20	HLMP-S301
		Green	Diffused	565nm	2.2V	30mA	8 20mA	110°	516-1285-ND	.36	2.04	13.20	HLMP-S501
		Green	Diffused	565nm	2.2V	30mA	4 20mA	110°	516-1286-ND	.36	2.04	13.20	HLMP-S501-C0000
4	5mm	HE Red/Green	White/Diffused	635/568nm	1.9V/2.2V	30mA	2.1/4.2 10mA	65°	516-1287-ND	.72	4.20	29.25	HLMP-4000
5	3mm	HE Red	Diffused	635nm	1.9V	30mA	2.3 10mA	55°	516-1288-ND	.60	3.48	24.00	HLMP-1350
		Yellow	Diffused	583nm	2.0V	20mA	2.2 10mA	55°	516-1289-ND	.60	3.48	24.00	HLMP-1450
		Green	Diffused	565nm	2.1V	30mA	3.1 20mA	55°	516-1290-ND	.60	3.48	24.00	HLMP-1550
6	3mm	HE Red	Diffused	635nm	1.9V	30mA	5.5 10mA	60°	516-1291-ND	.36	2.04	13.20	HLMP-1301
		Yellow	Diffused	583nm	2.0V	20mA	6 10mA	60°	516-1292-ND	.36	2.04	13.20	HLMP-1401
		Green	Diffused	565nm	2.1V	30mA	5 10mA	60°	516-1293-ND	.36	2.04	13.20	HLMP-1503
		HE Red	Tint	635nm	1.9V	30mA	30 10mA	45°	516-1294-ND	.36	2.04	13.20	HLMP-1321
		Yellow	Microtint	583nm	2.0V	20mA	15 10mA	45°	516-1295-ND	.51	3.00	20.00	HLMP-1420
		Yellow	Tint	583nm	2.0V	20mA	15 10mA	45°	516-1296-ND	.36	2.04	13.20	HLMP-1421
		Green	Microtint	565nm	2.1V	30mA	22 10mA	45°	516-1297-ND	.51	3.00	20.00	HLMP-1520
		Green	Tint	565nm	2.1V	30mA	22 10mA	45°	516-1298-ND	.36	2.04	13.20	HLMP-1521
		HE Red	Water Clear	635nm	1.9V	30mA	55 20mA	45°	516-1299-ND	.45	2.56	16.80	HLMP-1340
		Yellow	Water Clear	583nm	2.1V	20mA	45 20mA	45°	516-1300-ND	.45	2.56	16.80	HLMP-1440
		Green	Water Clear	565nm	2.2V	30mA	45 20mA	45°	516-1301-ND	.45	2.56	16.80	HLMP-1540
		HE Red	Diffused	635nm	5.0V	20mA	8 10mA	60°	516-1302-ND	.72	4.20	29.25	HLMP-1600

(Continued)

Dim. in mm

Fig. 10

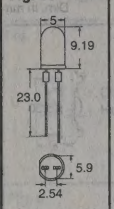


Fig. 11

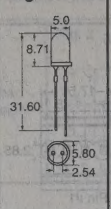


Fig. 12

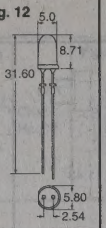


Fig. 13

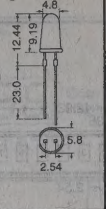


Fig. 14

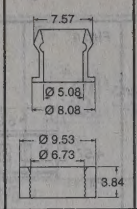


Fig. 15

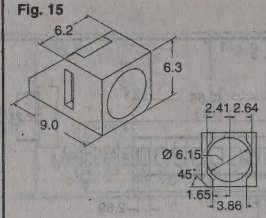


Fig. 16

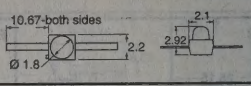


Fig. 17

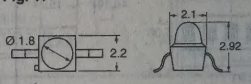


Fig. 18

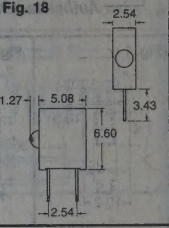


Fig.	Description	Color	Lens	Peak Length	Forward Voltage	Forward Current	Luminous Intensity mcd @ Current	Viewing Angle	Digi-Key Part No.	Pricing 1	10	100	Agilent Part No.
6	3mm	HE Red	Diffused	635nm	12.0V	20mA	8 13mA	60°	516-1303-ND	.72	4.20	29.25	HLMP-1601
		Yellow	Diffused	583nm	5.0V	20mA	8 10mA	60°	516-1304-ND	.72	4.20	29.25	HLMP-1620
		Yellow	Diffused	583nm	12.0V	20mA	8 13mA	60°	516-1305-ND	.76	4.48	31.20	HLMP-1621
		Green	Diffused	565nm	5.0V	20mA	8 10mA	60°	516-1306-ND	.72	4.20	29.25	HLMP-1640
		Green	Diffused	565nm	12.0V	20mA	8 13mA	60°	516-1307-ND	.72	4.20	29.25	HLMP-1641
		HE Red	Diffused	635nm	1.7V	7mA	2.1 2mA	50°	516-1308-ND	.51	3.00	20.00	HLMP-1700
		Yellow	Diffused	583nm	1.8V	7mA	2.1 2mA	50°	516-1309-ND	.51	3.00	20.00	HLMP-1719
		Green	Diffused	565nm	1.9V	7mA	2.3 2mA	50°	516-1310-ND	.51	3.00	20.00	HLMP-1790
		Red	Diffused	645nm	1.6V	30mA	2 1mA	60°	516-1311-ND	.51	3.00	20.00	HLMP-K150
		Red	Water Clear	645nm	1.6V	30mA	3 1mA	45°	516-1312-ND	.60	3.48	24.00	HLMP-K155
		Red	Diffused	645nm	1.8V	30mA	45 20mA	60°	516-1313-ND	.51	3.00	20.00	HLMP-K101
		Red	Water Clear	645nm	1.8V	30mA	65 20mA	45°	516-1314-ND	.45	2.56	16.80	HLMP-K105
7	5mm	HE Red	Diffused	635nm	1.9V	10mA	7 10mA	50°	516-1315-ND	.60	3.48	24.00	HLMP-3351
		HE Red	Tint	635nm	1.9V	10mA	18 10mA	45°	516-1316-ND	.60	3.48	24.00	HLMP-3366
		Yellow	Diffused	583nm	2.0V	10mA	10 10mA	50°	516-1317-ND	.60	3.48	24.00	HLMP-3451
		Green	Diffused	565nm	2.1V	10mA	10 10mA	50°	516-1318-ND	.60	3.48	24.00	HLMP-3554
		Green	Tint	565nm	2.1V	10mA	15 10mA	40°	516-1319-ND	.60	3.48	24.00	HLMP-3568
8	5mm	HE Red	Water Clear	635nm	1.9V	30mA	55 20mA	32°	516-1320-ND	.60	3.48	24.00	HLMP-3390
		Yellow	Water Clear	583nm	2.1V	20mA	55 20mA	32°	516-1321-ND	.60	3.48	24.00	HLMP-3490
		Green	Water Clear	565nm	2.2V	30mA	55 20mA	32°	516-1322-ND	.60	3.48	24.00	HLMP-3590
9	5mm	Red	Diffused	645nm	1.6V	30mA	3 1mA	65°	516-1323-ND	.51	3.00	20.00	HLMP-D150
		Red	Diffused	645nm	1.8V	30mA	70 20mA	65°	516-1324-ND	.45	2.56	16.80	HLMP-D101
		HE Red	Diffused	635nm	1.7V	7mA	2.3 2mA	50°	516-1325-ND	.51	3.00	20.00	HLMP-4700
		Yellow	Diffused	583nm	1.8V	7mA	2.1 2mA	50°	516-1326-ND	.51	3.00	20.00	HLMP-4719
		Green	Diffused	565nm	1.9V	7mA	2.3 2mA	50°	516-1327-ND	.51	3.00	20.00	HLMP-4740
		HE Red	Diffused	635nm	1.9V	30mA	7 10mA	60°	516-1328-ND	.36	2.04	13.20	HLMP-3301
		HE Red	Diffused	635nm	1.9V	30mA	12 10mA	60°	516-1329-ND	.60	3.48	24.00	HLMP-3762
		Orange	Diffused	600nm	1.9V	30mA	5.4 10mA	60°	516-1330-ND	.36	2.04	13.20	HLMP-D401
		Yellow	Diffused	583nm	2.0V	20mA	8 10mA	60°	516-1331-ND	.36	2.04	13.20	HLMP-3401
		Yellow	Diffused	583nm	2.0V	20mA	9.2 10mA	60°	516-1332-ND	.60	3.48	24.00	HLMP-3862
		Green	Diffused	565nm	2.1V	30mA	5.2 10mA	60°	516-1333-ND	.36	2.04	13.20	HLMP-3507
		Green	Diffused	565nm	2.1V	30mA	14 10mA	60°	516-1334-ND	.60	3.48	24.00	HLMP-3962
		HE Red	Tint	635nm	1.9V	30mA	60 10mA	35°	516-1335-ND	.36	2.04	13.20	HLMP-3316
		Yellow	Tint	583nm	2.0V	20mA	50 10mA	35°	516-1336-ND	.36	2.04	13.20	HLMP-3416
		Green	Tint	565nm	2.1V	30mA	70 10mA	24°	516-1337-ND	.36	2.04	13.20	HLMP-3519
10	5mm	Red	Water Clear	645nm	1.6V	30mA	10 1mA	24°	516-1338-ND	.60	3.48	24.00	HLMP-D155
		HE Red	Diffused	635nm	5.0V	20mA	8 10mA	60°	516-1339-ND	.72	4.20	29.25	HLMP-3600
		HE Red	Diffused	635nm	12.0V	20mA	8 13mA	60°	516-1340-ND	.72	4.20	29.25	HLMP-3601
		Yellow	Diffused	583nm	5.0V	20mA	8 10mA	60°	516-1341-ND	.72	4.20	29.25	HLMP-3650
		Yellow	Diffused	583nm	12.0V	20mA	8 13mA	60°	516-1342-ND	.72	4.20	29.25	HLMP-3651
		Green	Diffused	565nm	5.0V	20mA	8 10mA	60°	516-1343-ND	.72	4.20	29.25	HLMP-3680
		Red	Water Clear	645nm	1.8V	30mA	240 20mA	24°	516-1344-ND	.45	2.56	16.80	HLMP-D105
		HE Red	Water Clear	635nm	1.9V	30mA	125 20mA	24°	516-1345-ND	.60	3.48	24.00	HLMP-3750
		Yellow	Water Clear	583nm	2.1V	20mA	140 20mA	24°	516-1346-ND	.60	3.48	24.00	HLMP-3850
		Green	Water Clear	565nm	2.2V	30mA	265 20mA	24°	516-1347-ND	.60	3.48	24.00	HLMP-3950
11	5mm	Red	Tint	645nm	1.8V	30mA	600 20mA	15°	516-1348-ND	.60	3.48	24.00	HLMP-C115
		HE Red	Tint	635nm	1.9V	30mA	300 20mA	15°	516-1349-ND	.60	3.48	24.00	HLMP-C215
		HE Red	Tint	635nm	1.9V	30mA	170 20mA	25°	516-1350-ND	.60	3.48	24.00	HLMP-C223
		Orange	Tint	600nm	1.9V	30mA	308 20mA	15°	516-1351-ND	.60	3.48	24.00	HLMP-C415
		Yellow	Tint	583nm	2.1V	20mA	300 20mA	15°	516-1352-ND	.60	3.48	24.00	HLMP-C315
		Yellow	Tint	583nm	2.1V	20mA	170 20mA	25°	516-1353-ND	.60	3.48	24.00	HLMP-C323
		Green	Tint	568nm	2.2V	30mA	300 20mA	15°	516-1354-ND	.60	3.48	24.00	HLMP-C515
		Green	Tint	568nm	2.2V	30mA	170 20mA	25°	516-1355-ND	.60	3.48	24.00	HLMP-C523
		Green	Water Clear	524nm	3.8V	30mA	1,900 min. 20mA	15°	516-1356-ND	1.33	8.40	63.00	HLMP-CM15-S0000
		Green	Water Clear	524nm	3.5V	30mA	5,500 min. 20mA	15°	516-1357-ND	1.62	10.35	78.75	HLMP-CM15-W0000
		Green	Water Clear	524nm	3.5V	30mA	1,900 min. 20mA	30°	516-1358-ND	1.62	10.35	78.75	HLMP-CM30-S0000
		Green	Water Clear	524nm	3.8V	30mA	520 min. 20mA	30°	516-1359-ND	1.33	8.40	63.00	HLMP-CM30-M0000
		Blue	Water Clear	470nm	3.5V	30mA	1,500 min. 20mA	15°	516-1360-ND	1.33	8.40	63.00	HLMP-CB15-R0000
		Blue	Water Clear	470nm	3.8V	30mA	880 min. 20mA	15°	516-1361-ND	1.33	8.40	63.00	HLMP-CB15-P0000
		Blue	Water Clear	470nm	3.8V	30mA	310 min. 20mA	30°	516-1362-ND	1.33	8.40	63.00	HLMP-CB30-K0000
		Blue	Water Clear	470nm	3.8V	30mA	520 min. 20mA	30°	516-1363-ND	1.33	8.40	63.00	HLMP-CB30-M0000
		Red	Water Clear	639nm	2.0V	50mA	4,850 20mA	15°	516-1366-ND	.76	4.48	31.20	HLMP-ED16-TW000
		Red/Orange	Water Clear	623nm	2.08V	50mA	6,250 20mA	15°	516-1367-ND	.83	4.95	35.10	HLMP-EH16-UX000
		Amber	Water Clear	594nm	2.15V	50mA	8,100 20mA	15°	516-1368-ND	.80	4.76	33.15	HLMP-EL16-VY000
		Red	Water Clear	639nm	2.0V	50mA	4,850 20mA	23°	516-1369-ND	.83	4.95	35.10	HLMP-ED25-TW000
		Amber	Water Clear	594nm	2.15V	50mA	3,700 20mA	23°	516-1370-ND	.80	4.76	33.15	HLMP-EL25-SV000
		Red	Water Clear	639nm	2.0V	50mA	2,850 20mA	30°	516-1371-ND	.80	4.76	33.15	HLMP-ED31-RU000
		Red	Water Clear	639nm	2.0V	50mA	3,700 20mA	30°	516-1372-ND	.80	4.76	33.15	HLMP-ED31-SV000
		Red/Orange	Water Clear	623nm	2.08V	50mA	3,700 20mA	30°	516-1373-ND	.83	4.95	35.10	HLMP-EH31-SV000
		Amber	Water Clear	594nm	2.15V	50mA	3,700 20mA	30°	516-1374-ND	.80	4.76	33.15	HLMP-EL31-SV000
		Red	Water Clear	635nm	1.9V	50mA	11,550 20mA	6°	516-1375-ND	.60	3.48	24.00	HLMP-EG08-WZ000
		Red	Water Clear	635nm	1.9V	50mA	15,150 20mA	6°	516-1376-ND	.65	3.77	26.00	HLMP-EG08-X1000
		Red	Water Clear	635nm	1.9V	50mA	19,500 20mA	6°	516-1377-ND	.69	4.06	28.00	HLMP-EG08-Y2000
		Amber	Water Clear	592nm	2.02V	50mA	8,700 20mA	6°	516-1378-ND	.60	3.48	24.00	HLMP-EL08-VY000
		Red	Water Clear	635nm	1.9V	50mA	3,050 20mA	15°	516-1379-ND	.60	3.48	24.00	HLMP-EG15-RU000
		Red	Water Clear	635nm	1.9V	50mA	1,832.5 20mA	23°	516-1380-ND	.51	3.00	20.00	HLMP-EG24-PS000
		Red	Water Clear	635nm	1.9V	50mA	1,395 20mA	30°	516-1381-ND	.60	3.48	24.00	HLMP-EG30-NR000
		Amber	Water Clear	592nm	2.02V	50mA	840 20mA	30°	516-1382-ND	.60	3.48	24.00	HLMP-EL30-LP000
		Amber	Water Clear	592nm	2.02V	50mA	1,832.5 20mA	30°	516-1383-ND	.65	3.77	26.00	HLMP-EL30-PS000
		Red	Water Clear	635nm	1.9V	50mA	6,000 20mA	8°	516-1384-ND	.40	2.28	15.40	HLMP-C008-U0000
		Red	Water Clear	635nm	1.9V	50mA	1,000 20mA	25°	516-1385-ND	.40	2.28	15.40	HLMP-C025-P0000
		Amber	Water Clear	594nm	1.9V	50mA	3,000 20mA	8°	516-1386-ND	.40	2.28	15.40	HLMP-C208-S0000
		Red	Water Clear	650nm	1.9V	50mA	700 20mA	25°	516-1387-ND	.40	2.28	15.40	HLMP-C625-P0000
		White	Water Clear	—	3.6V	30mA	4,850 20mA	15°	516-1468-ND	1.33	8.40	63.00	HLMP-CW15-TW000
		White	Water Clear	—	3.6V	30mA	1,690 20mA	30°	516-1469-ND	1.33	8.40	63.00	HLMP-CW30-PS000

(Continued)

Dim. in mm

Fig. 19

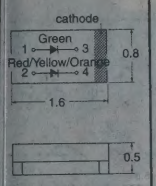


Fig. 20

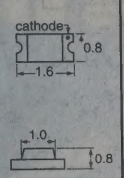


Fig. 21

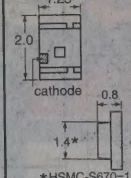


Fig. 22

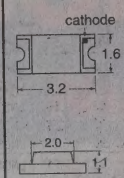


Fig. 23

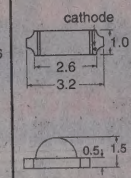


Fig. 24

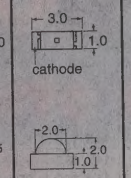


Fig. 25

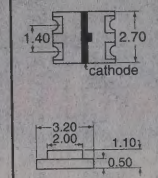


Fig. 26

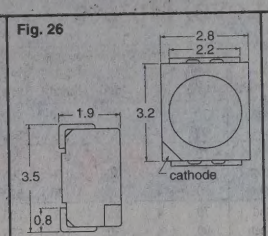


Fig. 27

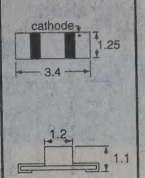


Fig.	Description	Color	Lens	Peak Length	Forward Voltage	Forward Current	Luminous Intensity mcd @ Current		Viewing Angle	Digi-Key Part No.	Pricing 1	10	100	Agilent Part No.
12	5mm	Red	Water Clear	639nm	2.0V	50mA	4,850	20mA	23°	516-1388-ND	.83	4.95	35.10	HLMP-ED27-TW000
		Amber	Water Clear	594nm	2.15V	50mA	4,850	20mA	23°	516-1389-ND	.80	4.76	33.15	HLMP-EL27-TW000
		Red	Water Clear	639nm	2.0V	50mA	3,700	20mA	30°	516-1390-ND	.80	4.76	33.15	HLMP-ED33-SV000
		Amber	Water Clear	594nm	2.15V	50mA	3,700	20mA	30°	516-1391-ND	.80	4.76	33.15	HLMP-EL33-SV000
		White	Water Clear	—	3.6V	30mA	1,500 min.	20mA	15°	516-1392-ND	1.48	9.60	70.00	HLMP-CW16-R0000
13	5mm	HE Red	Water Clear	650nm	1.8V	30mA	1,000	20mA	8°	516-1393-ND	.60	3.48	24.00	HLMP-4101
14	Mounting Clip and Ring, for T-1 3/4 (5mm) Lamps									516-1394-ND	—	1.25	10.00	HLMP-0103
15	LED Housing, Right Angle Snap-In									516-1395-ND	—	2.25	18.00	HLMP-5029
16	1.80mm	Red	Diffused	655nm	1.6V	50mA	1.2	10mA	90°	516-1396-ND	.60	3.48	24.00	HLMP-6000
		Red	Diffused	645nm	1.6V	30mA	1.8	1mA	90°	516-1397-ND	.65	3.77	26.00	HLMP-Q150
		HE Red	Diffused	635nm	1.8V	30mA	10	10mA	90°	516-1398-ND	.51	3.00	20.00	HLMP-6300
		HE Red	Water Clear	635nm	1.8V	30mA	40	10mA	28°	516-1399-ND	.51	3.00	20.00	HLMP-6305
		HE Red	Diffused	635nm	1.8V	30mA	1	2mA	90°	516-1400-ND	.60	3.48	24.00	HLMP-7000
		HE Red	Diffused	635nm	5.0V	30mA	2	5V	90°	516-1401-ND	.90	5.20	38.00	HLMP-6620
		Yellow	Diffused	583nm	2.0V	20mA	9	10mA	90°	516-1402-ND	.51	3.00	20.00	HLMP-6400
		Yellow	Water Clear	583nm	2.0V	20mA	20	10mA	28°	516-1403-ND	.51	3.00	20.00	HLMP-6405
		Yellow	Diffused	583nm	2.0V	20mA	0.6	2mA	90°	516-1404-ND	.60	3.48	24.00	HLMP-7019
		Green	Diffused	565nm	2.1V	30mA	7	10mA	90°	516-1405-ND	.51	3.00	20.00	HLMP-6500
		Green	Water Clear	565nm	2.1V	30mA	40	10mA	28°	516-1406-ND	.51	3.00	20.00	HLMP-6505
		Green	Diffused	565nm	2.1V	30mA	0.6	2mA	90°	516-1407-ND	.60	3.48	24.00	HLMP-7040
		Green	Diffused	565nm	5.0V	30mA	2	5V	90°	516-1408-ND	.90	5.20	38.00	HLMP-6820

Fig.	Description	Color	Lens	Peak Length	Forward Voltage	Forward Current	Luminous Intensity mcd @ Current		Viewing Angle	Digi-Key Part No.	Pricing 1	10	100	Tape and Reel Size	Tape and Reel Pricing	Agilent Part No.
16	1.60mm	Amber	Water Clear	592nm	2.0V	50mA	150	20mA	125°	516-1410-ND	.76	4.48	31.20	—	—	HLMT-PL00
17	1.60mm	Red/Orange	Water Clear	621nm	2.0V	50mA	120	20mA	125°	516-1409-1-ND†	.83	4.95	35.10	1,500	275.40/M	HLMT-PH00-P0011
		Amber	Water Clear	592nm	2.0V	50mA	150	20mA	125°	516-1411-1-ND†	.83	4.95	35.10	1,500	275.40/M	HLMT-PL00-P0W11
	1.80mm	Amber	Water Clear	592nm	2.0V	50mA	1,000	20mA	15°	516-1412-1-ND†	.83	4.95	35.10	1,500	275.40/M	HLMT-QL00-T0011
		Yellow	Water Clear	583nm	2.0V	20mA	20	10mA	28°	516-1413-1-ND†	.60	3.48	24.00	1,500	192.00/M	HLMP-6405-J0011
		Green	Water Clear	565nm	2.1V	30mA	40	10mA	28°	516-1414-1-ND†	.60	3.48	24.00	1,500	192.00/M	HLMP-6505-L0011
18	1.80mm	HE Red	Diffused	635nm	5.0V	30mA	2	5V	90°	516-1415-ND	1.00	6.25	46.25	—	—	HLMP-6620-F0010
		Yellow	Diffused	583nm	2.0V	20mA	9	10mA	90°	516-1416-ND	.72	4.20	29.25	—	—	HLMP-6400-F0010
		Green	Diffused	565nm	2.1V	30mA	7	10mA	90°	516-1417-ND	.72	4.20	29.25	—	—	HLMP-6500-F0010
		Green	Diffused	565nm	5.0V	30mA	2	5V	90°	516-1418-ND	1.00	6.25	46.25	—	—	HLMP-6820-F0010
19	0603	HE Red/Green	Diffused	630/570nm	2.1/2.2V	20mA	10/15	20mA	120°	516-1419-1-ND†	.45	2.56	16.80	4,000	120.00/M	HSMF-C165
20	0603	Red	Diffused	660nm	1.8V	25mA	17	20mA	170°	516-1420-1-ND†	.27	1.48	9.60	4,000	64.00/M	HSMH-C190
		Red	Diffused	637nm	1.9V	30mA	90	20mA	170°	516-1421-1-ND†	.45	2.56	16.80	4,000	120.00/M	HSMC-C190
		HE Red	Diffused	630nm	2.1V	20mA	10	20mA	170°	516-1422-1-ND†	.27	1.48	9.60	4,000	64.00/M	HSMS-C190
		Amber	Diffused	595nm	1.9V	30mA	90	20mA	170°	516-1423-1-ND†	.45	2.56	16.80	4,000	120.00/M	HSMA-C190
		Yellow	Diffused	589nm	2.1V	20mA	8	20mA	170°	516-1424-1-ND†	.27	1.48	9.60	4,000	64.00/M	HSMY-C190
		Green	Diffused	570nm	2.2V	20mA	15	20mA	170°	516-1425-1-ND†	.27	1.48	9.60	4,000	64.00/M	HSMG-C190
		Blue	Diffused	428nm	3.8V	20mA	6	20mA	170°	516-1426-1-ND†	1.17	7.50	54.00	4,000	420.00/M	HSMB-C190
21	0805	Red	Diffused	660nm	1.8V	25mA	17	20mA	170°	516-1427-1-ND†	.27	1.48	9.60	4,000	64.00/M	HSMH-C170
		Red	Diffused	637nm	1.9V	30mA	90	20mA	170°	516-1428-1-ND†	.49	2.79	18.90	4,000	135.00/M	HSMC-C170
		HE Red	Diffused	630nm	2.1V	20mA	10	20mA	170°	516-1429-1-ND†	.27	1.48	9.60	4,000	64.00/M	HSMS-C170
		Red	Diffused	630nm	1.9V	30mA	50	20mA	165°	516-1430-1-ND†	.80	4.76	33.15	4,000	246.50/M	HSMC-S670
		Amber	Diffused	595nm	1.9V	30mA	90	20mA	170°	516-1431-1-ND†	.49	2.79	18.90	4,000	135.00/M	HSMA-C170
		Amber	Diffused	592nm	1.9V	30mA	65	20mA	165°	516-1432-1-ND†	.80	4.76	33.15	4,000	246.50/M	HSMA-S670
		Yellow	Diffused	589nm	2.1V	20mA	8	20mA	170°	516-1433-1-ND†	.27	1.48	9.60	4,000	64.00/M	HSMY-C170
		Green	Diffused	570nm	2.2V	20mA	15	20mA	170°	516-1434-1-ND†	.27	1.48	9.60	4,000	64.00/M	HSMG-C170
		Green	Diffused	523nm	3.3V	20mA	120	20mA	170°	516-1435-1-ND†	1.87	12.38	95.15	4,000	756.25/M	HSMM-C170
		Blue	Diffused	469nm	3.4V	25mA	55	20mA	140°	516-1445-1-ND†	1.94	12.83	98.61	4,000	783.75/M	HSMR-C170
		Blue	Diffused	468nm	3.3V	20mA	35	20mA	170°	516-1437-1-ND†	1.87	12.38	95.15	4,000	756.25/M	HSMN-C170
		Blue	Diffused	428nm	3.8V	20mA	6	20mA	170°	516-1438-1-ND†	1.17	7.50	54.00	4,000	420.00/M	HSMB-C170
22	1206	Red	Diffused	660nm	1.8V	30mA	17	20mA	170°	516-1439-1-ND†	.31	1.75	11.25	3,000	80.00/M	HSMH-C150
		HE Red	Diffused	630nm	2.1V	25mA	10	20mA	170°	516-1440-1-ND†	.31	1.75	11.25	3,000	80.00/M	HSMS-C150
		Orange	Diffused	605nm	2.2V	25mA	8	20mA	170°	516-1441-1-ND†	.31	1.75	11.25	3,000	80.00/M	HSMD-C150
		Yellow	Diffused	589nm	2.1V	25mA	8	20mA	170°	516-1442-1-ND†	.31	1.75	11.25	3,000	80.00/M	HSMY-C150
		Green	Diffused	570nm	2.2V	25mA	15	20mA	170°	516-1443-1-ND†	.31	1.75	11.25	3,000	80.00/M	HSMG-C150
		Green	Diffused	520nm	3.4V	25mA	145	20mA	140°	516-1444-1-ND†	1.94	12.83	98.61	3,000	798.00/M	HSMQ-C150
		Blue	Diffused	469nm	3.4V	25mA	55	20mA	140°	516-1436-1-ND†	1.94	12.83	98.61	3,000	798.00/M	HSMR-C150
		Blue	Diffused	468nm	3.3V	20mA	35	20mA	170°	516-1446-1-ND†	1.87	12.38	95.15	3,000	770.00/M	HSMN-C150
		Blue	Diffused	428nm	3.8V	20mA	6	20mA	170°	516-1447-1-ND†	1.17	7.50	54.00	3,000	427.50/M	HSMB-C150
23	1206 R/A	Red	Diffused	660nm	1.8V	30mA	19	20mA	130°	516-1448-1-ND†	.31	1.75	11.25	3,000	80.00/M	HSMH-C110
		HE Red	Diffused	630nm	2.1V	25mA	11	20mA	130°	516-1449-1-ND†	.31	1.75	11.25	3,000	80.00/M	HSMS-C110
		Amber	Water Clear	595nm	1.9V	30mA	95	20mA	130°	516-1450-1-ND†	.51	3.00	20.00	3,000	150.00/M	HSMA-C110
		Yellow	Diffused	589nm	2.1V	25mA	9	20mA	130°	516-1451-1-ND†	.31	1.75	11.25	3,000	80.00/M	HSMY-C110
		Green	Diffused	570nm	2.2V	25mA	16	20mA	130°	516-1452-1-ND†	.31	1.75	11.25	3,000	80.00/M	HSMG-C110
24	1208 R/A	HE Red	Water Clear	639nm	1.9V	25mA	5	20mA	155°	516-1453-1-ND†	.51	3.00	20.00	3,000	150.00/M	HSMS-C660
		Green	Water Clear	570nm	2.2V	25mA	9	20mA	155°	516-1454-1-ND†	.51	3.00	20.00	3,000	150.00/M	HSMG-C660
25	1210	HE Red/Green	Diffused	630/570nm	2.1/2.2V	25mA	10/15	20mA	170°	516-1456-1-ND†	.45	2.56	16.80	3,000	124.00/M	HSMF-C155
		Yellow/Green	Diffused	589/570nm	2.1/2.2V	25mA	8/15	20mA	170°	516-1457-1-ND†	.45	2.56	16.80	3,000	124.00/M	HSMF-C156
26	Rect. 3.20mm x 2.80mm	Red	Water Clear	639nm	2.2V	30mA	400	20mA	120°	516-1459-1-ND†	.63	3.63	25.00	2,000	191.25/M	HSMZ-A100-R00J1
		Amber	Water Clear	594nm	2.2V	30mA	270	20mA	120°	516-1460-1-ND†	.60	3.48	24.00	2,000	186.00/M	HSMU-A100-R00J1
		Yellow/Green	Water Clear	565nm	2.2V	30mA	18	20mA	120°	516-1462-1-ND†	.27	1.43	9.12	2,000	64.60/M	HSMG-A100-J02J1
		Green	Water Clear	523nm	3.4V	30mA	350	20mA	120°	516-1463-1-ND†	1.29	7.94	59.58	2,000	479.95/M	HSMM-A100-S00J1
		Blue	Water Clear	468nm	3.4V	30mA	70	20mA	120°	516-1464-1-ND†	1.08	6.75	49.95	2,000	391.50/M	HSMN-A100-P00J1
27	Rect. 3.40mm x 1.25mm	Red	Water Clear	637nm	1.9V	25mA	75	20mA	170°	516-1465-1-ND†	.51	3.00	20.00	3,000	150.00/M	HSMC-C265
		Amber	Water Clear	595nm	1.9V	25mA	75	20mA	170°	516-1466-1-ND†	.51	3.00	20.00	3,000	150.00/M	HSMA-C265
		Green	Water Clear	570nm	2.2V	25mA	15	20mA	170°	516-1467-1-ND†	.40	2.28	15.40	3,000	108.50/M	HSMG-C265

† For Tape and Reel Part No., change the -1 to -2.

LEDs — Level Meters

Fig.	Package Elements	Color (Diffused)	Electro-Optical Characteristics (Ta=25°C) PD (mW)	VR (V)	IF (mA)	IO (mcd)	λp (nm)	Lens Size	Dimensions (mm) Lens Height	Lead Length	Digi-Key Part No.	Price Each 1	10	200	Panasonic Part No.
1	2	Red	70	4	25	0.6	700	□1.8x5.3	6.0	14.5, 16.0	P516-ND	.50	.45	.39	LN02202P
	2	Green	90	4	30	1.5	565	□1.8x5.3	6.0	14.5, 16.0	P517-ND	.66	.60	.52	LN02302P
	3	Red	70	4	25	0.6	700	□1.8x5.3	6.0	14.5, 16.0	P519-ND	.74	.68	.59	LN03202P
	3	Green	90	4	30	1.5	565	□1.8x5.3	6.0	14.5, 16.0	P520-ND	.98	.90	.77	LN03302P
	3	Amber	90	4	30	1.5	590	□1.8x5.3	6.0	14.5, 16.0	P521-ND	.98	.90	.77	LN03402P
	4	Red	70	4	25	0.6	700	□1.8x5.3	6.0	14.5, 16.0	P522-ND	.91	.83	.71	LN04202P
	4	Green	90	4	30	1.5	565	□1.8x5.3	6.0	14.5, 16.0	P523-ND	1.31	1.20	1.03	LN04302P
	5	Red	70	4	25	0.6	700	□1.8x5.3	6.0	14.5, 16.0	P525-ND	1.25	1.14	.98	LN05202P
	5	Green	90	4	30	1.5	565	□1.8x5.3	6.0	14.5, 16.0	P526-ND	1.64	1.49	1.28	LN05302P
	5	Amber	90	4	30	1.5	590	□1.8x5.3	6.0	14.5, 16.0	P527-ND	1.64	1.49	1.28	LN05402P
	6	Red	70	4	25	0.6	700	□1.8x5.3	6.0	14.5, 16.0	P528-ND	1.50	1.37	1.18	LN06202P
	6	Green	90	4	30	1.5	565	□1.8x5.3	6.0	14.5, 16.0	P529-ND	1.95	1.78	1.53	LN06302P
	6	Amber	90	4	30	1.5	590	□1.8x5.3	6.0	14.5, 16.0	P530-ND	1.95	1.78	1.53	LN06402P
	7	Red	70	4	25	0.6	700	□1.8x5.3	6.0	14.5, 16.0	P531-ND	1.75	1.60	1.37	LN07202P
	7	Green	90	4	30	1.5	565	□1.8x5.3	6.0	14.5, 16.0	P532-ND	2.28	2.08	1.79	LN07302P
	7	Amber	90	4	30	1.5	590	□1.8x5.3	6.0	14.5, 16.0	P533-ND	2.45	2.23	1.92	LN07402P
2	—	Red	70	4	25	0.4	700	□1.75x7.0	7.65	24.1, 25.6, 27.1	P397-ND	1.45	1.32	1.14	LN05201P
3	—	Green	90	4	30	1.0	565	Ø2.0	2.5	2.0	P401-ND	3.85	3.50	3.01	LN10304P
4	10	Green	60	5	20	1900	565	□1.52x5.08	—	4.6	P10722-ND	6.28	5.71	4.91	LNV310105A
	10	Red	60	3	20	1000	630	□1.52x5.08	—	4.6	P10723-ND	6.28	5.71	4.91	LNV810105A

Fig. 1

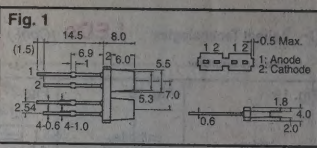


Fig. 2 – 1.75 x 7.0 Rectangular

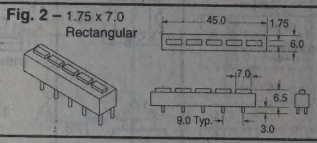


Fig. 3 – 2.8mm Round

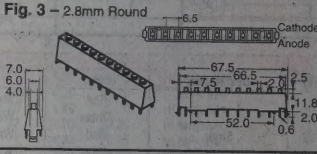
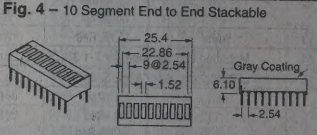


Fig. 4 – 10 Segment End to End Stackable



High Brightness LEDs

Fig. 1

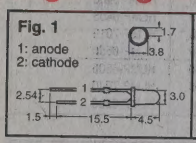


Fig. 2

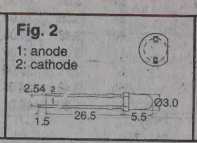


Fig. 3

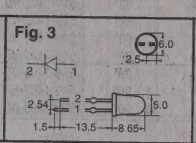


Fig. 4

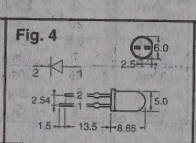
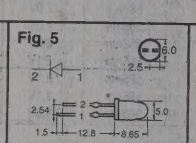


Fig. 5



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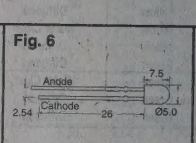


Fig. 7

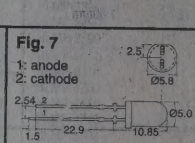


Fig.	Package	Color (Diffused)	IO (mcd @5mA) Typ.	Electro-Optical Characteristics (Ta=25°C) PD (mW)	VR (V)	IF (mA)	IO (mcd)	λp (nm)	Lens Size	Dimensions (mm) Lens Height	Lead Length	Digi-Key Part No.	Price Each 1	10	200	Panasonic Part No.
1	T-1	Red	6	70	3	30	50	665	Ø3.0	5.0	15.0, 16.5	P403-ND	.38	.35	.31	LN28RALUS
	T-1	Red (White)	14	70	3	30	50	665	Ø3.0	5.0	15.0, 16.5	P404-ND	.38	.35	.31	LN28WALUS
	T-1	Red†	20	70	3	30	85	665	Ø3.0	5.0	15.0, 16.5	P405-ND	.38	.35	.31	LN28CALUS
2	T-1	Red†	5.5	70	3	30	25	660	Ø3.0	5.5	26.5, 28.0	P604-ND	.38	.35	.31	LN28CALXU
	T-1	Red	3.8	70	3	30	25	660	Ø3.0	5.5	26.5, 28.0	P605-ND	.38	.35	.31	LN28RALXU
3	T-13/4	Red†	110	70	3	30	300	665	Ø5.0	8.65	12.0, 13.5	P406-ND	.39	.35	.31	LN21CALUS
	T-13/4	Red†	190	70	3	30	1000	665	Ø5.0	8.65	12.0, 13.5	P407-ND	.69	.63	.54	LN21CALURS
4	T-13/4	Red†	470	70	3	30	2000	665	Ø5.0	8.65	12.0, 13.5	P408-ND	.96	.88	.76	LN261CALUR
5	T-13/4	Red	20	70	3	30	200	660	Ø5.0	8.65	12.0, 13.5	P458-ND	.69	.63	.54	LN21RUQ
	T-13/4	Red†	20	70	3	30	85	665	Ø5.0	8.65	12.0, 13.5	P410-ND	.38	.35	.31	LN21CALU
6	T-13/4	Green†	—	90	4	30	120	565	Ø5.0	7.5	26, 27.5	P461-ND	.30	.28	.24	LNG305CFT
7	T-13/4	Red†	160	120	3	50	630	660	Ø5.0	8.25	22.9, 24.4	P597-ND	.69	.63	.54	LN289CUQ

† Nondiffused lens. Water clear lens when off.

Optoelectronics LEDs — Two Color

Fig. 1

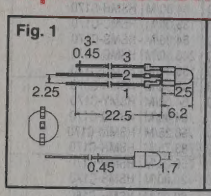


Fig. 2

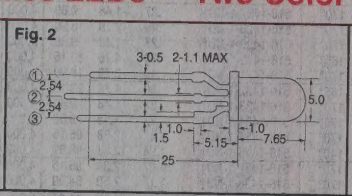


Fig. 3

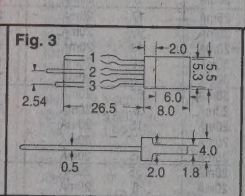


Fig. 4

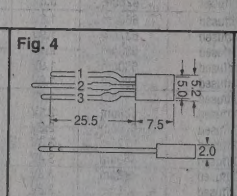


Fig. 5

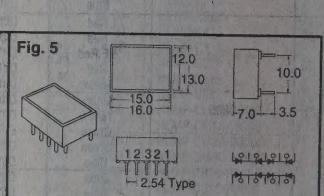
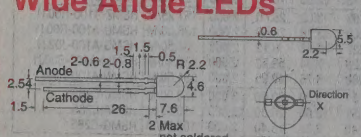


Fig.	Radiation Color/ Lens Color	Electro-Optical Characteristics (Ta=25°C) PD (mW)	IF (mA)	VR (V)	IO (mcd)	λp (nm)	Dimensions (mm) Lens Size	Lead Length	Digi-Key Part No.	Pricing 1	10	200	1,000	Panasonic Part No.
1	*1. Green/3. Orange/White Diffused	90/90	30/30	4/3	8.0/8.0	565/630	Ø3.0	22.5, 24.5, 26.5	P509-ND	.66	6.00	103.20	240.84	LN086WP38
2	*1. Green/3. Red/White Diffused	70	25	4	3.0	700	Ø5.0	24.1, 25.6, 27.1	P391-ND	.59	5.40	92.88	240.84	LN11WP23
	*1. Green/3. Red/Clear	70	25	4	3.0	700	Ø5.0	24.1, 25.6, 27.1	P392-ND	.59	5.40	92.88	240.84	LN11CP23
	*1. Amber/3. Red/White Diffused	70	25	4	3.0	700	Ø5.0	24.1, 25.6, 27.1	P393-ND	.66	6.00	103.20	240.84	LN11WP24
	*1. Amber/3. Green/White Diffused	90	30	4	15.0	565	Ø5.0	24.1, 25.6, 27.1	P395-ND	.66	6.00	103.20	240.84	LN11WP34
	*1. Orange/3. Green/White Diffused	90	30	4	15.0	565	Ø5.0	24.1, 25.6, 27.1	P399-ND	.66	6.00	103.20	240.84	LN11WP38
3	*1. Green/3. Red/White Diffused	70/90	25/30	4/4	.6/4.5	700/565	□1.8x5.3	26.5, 28.0, 29.5	P435-ND	.59	5.40	92.88	240.84	LN117WP23
4	*1. Orange/3. Green/White Diffused	90/90	30/30	4/3	3/2.5	565/630	□2.0x5.0	25.5, 27.0, 28.5	P436-ND	.66	6.00	103.20	240.84	LN142WP38
5	*1. Orange/3. Green/White Diffused	60	20	3	8.0	565	□12.0x15.0	3.5 typ.	P396-ND	3.22	29.24	502.95	2164.57	LN0801WP38

* Common Cathode

Wide Angle LEDs



Color	Io mcd Typ	Io mcd Min	(mA) IF	VF (V) Max	VF (V) Typ	λp Typ	Δλ Typ	(mA) IF	IR (μA) Max	IR (V) VR	Viewing Angle (deg) x	Viewing Angle (deg) y	IFDC Max	IFP‡ Max	Digi-Key Part No.	Pricing 1	10	200	Panasonic Part No.
Red	300	120	20	2.6	1.8	660	20	20	100	3	15	35	30	150	P462-ND	.59	5.40	92.88	LNG295LFCP2U
Green	120	75	20	2.8	2.2	565	30	20	10	4	17	35	30	150	P463-ND	.30	2.75	47.30	LNG395MFTP5U
Blue	370	145	20	4.0	3.5	470	30	20	10	5	15	35	30	100	P468-ND	2.67	24.95	463.32	LNG995PF8W

‡ The condition of IFP is duty 10%, pulse width 1ms.

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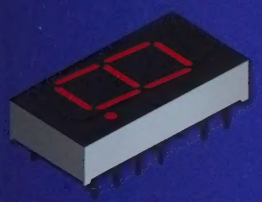
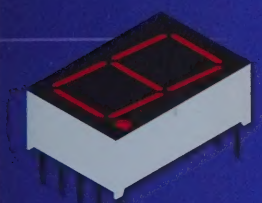
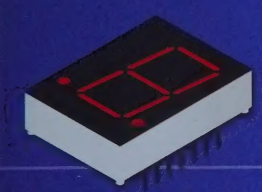
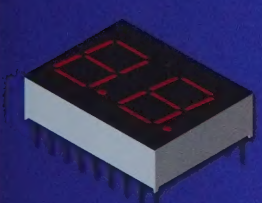
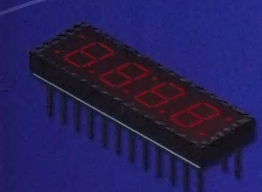

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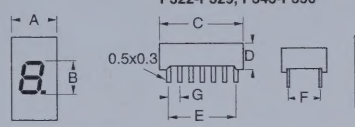
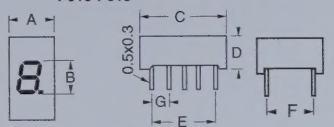
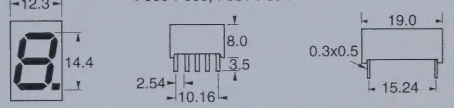


Size	A	B	C	D	E	F	G
0.3A	7.0	8.0	11.0	5.0	8.0	5.3	2.0
0.3B	10.0	7.6	19.0	5.5	15.24	7.6	2.54
.43	11.0	11.0	19.0	5.5	15.24	7.6	2.54

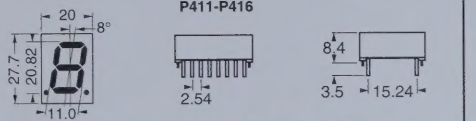
P510-P515



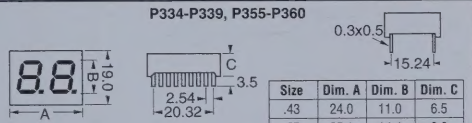
P330-P333, P351-P354



P411-P416

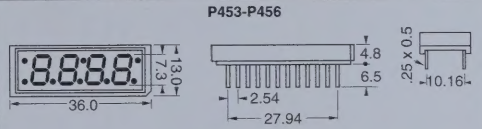


P334-P339, P355-P360



Size	Dim. A	Dim. B	Dim. C
.43	24.0	11.0	6.5
.57	25.1	14.4	8.0

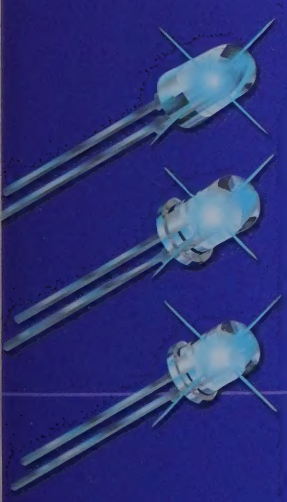
P453-P456



Color	Size	Absolute Max. Ratings (Ta = 25°C) VR (V)	IF (mA)	IFP† (mA)	PD (mW)	Characteristics (Ta = 25°C) at IF (mA)	IO Typ. (seg.) (µcd)	Typ. (D.P.) (µcd)	at IF (mA)	VF Typ. (V)	Digi-Key Part No. Common Anode	Common Cathode	Pricing 1	10	200	1000	Panasonic Part No. Common Anode	Common Cathode
Red	0.3A	5	15	80	40	5	200	70	10	2.1	P510-ND	P511-ND	2.09	18.97	326.24	1404.07	LN513RAM	LN513RKM
Green	0.3A	5	15	80	40	10	1,000	300	10	2.1	P512-ND	P513-ND	2.39	21.68	372.97	1605.20	LN513GAM	LN513GKM
Amber	0.3A	5	15	80	40	10	300	100	10	2.0	P514-ND	P515-ND	2.70	24.50	421.40	1813.62	LN513YAM	LN513YKM
Red	0.3B	5	20	100	60	5	400	150	20	2.2	P322-ND	P343-ND	1.56	14.18	243.81	1049.31	LN513RA	LN513RK
Green	0.3B	5	20	100	60	10	1,200	400	20	2.2	P323-ND	P344-ND	1.95	17.75	305.30	1313.95	LN513GA	LN513GK
Amber	0.3B	5	20	100	60	10	600	200	20	2.2	P324-ND	P345-ND	1.90	17.25	296.70	1276.93	LN513YA	LN513YK
Orange	0.3B	3	20	100	60	10	1,000	400	20	2.1	P325-ND	P346-ND	1.95	17.72	304.76	1311.63	LN5130A	LN5130K
Red	.43	5	20	100	60	5	450	150	20	2.2	P326-ND	P347-ND	1.57	14.25	245.10	1054.86	LN514RA	LN514RK
Green	.43	5	20	100	60	10	1,500	500	20	2.2	P327-ND	P348-ND	1.75	15.90	273.42	1176.72	LN514GA	LN514GK
Amber	.43	5	20	100	60	10	600	200	20	2.2	P328-ND	P349-ND	2.11	19.17	329.72	1419.06	LN514YA	LN514YK
Orange	.43	3	20	100	60	10	1,200	500	20	2.1	P329-ND	P350-ND	2.11	19.17	329.72	1419.06	LN5140A	LN5140K
Red	.57	5	20	100	60	5	600	250	20	2.2	P330-ND	P351-ND	1.62	14.72	253.10	1089.28	LN516RA	LN516RK
Green	.57	5	20	100	60	10	1,500	500	20	2.2	P331-ND	P352-ND	1.87	17.00	292.40	1258.43	LN516GA	LN516GK
Amber	.57	5	20	100	60	10	800	300	20	2.2	P332-ND	P353-ND	2.27	20.66	355.27	1528.99	LN516YA	LN516YK
Orange	.57	3	20	100	60	10	1,200	500	20	2.1	P333-ND	P354-ND	2.27	20.66	355.27	1528.99	LN5160A	LN5160K
Red	.82	5	20	100	60	5	450	150	20	2.2	P411-ND	P415-ND	3.16	28.75	494.50	2128.22	LN518RA	LN518RK
Green	.82	5	20	100	60	10	1,500	500	20	2.2	P412-ND	P416-ND	3.82	34.70	596.75	2568.30	LN518GA	LN518GK
Amber	.82	5	20	100	60	10	800	300	20	2.2	P413-ND	—	4.07	37.00	636.40	2738.93	LN518YA	—
Orange	.82	3	20	100	60	10	1,200	500	20	2.1	P414-ND	—	4.07	37.00	636.40	2738.93	LN5180A	—
Red	.43	5	20	100	60	5	450	150	20	2.2	P334-ND	P355-ND	2.11	19.17	329.72	1419.06	LN524RA	LN524RK
Green	.43	5	20	100	60	10	1,500	500	20	2.2	P335-ND	P356-ND	2.44	22.14	380.81	1638.92	LN524GA	LN524GK
Amber	.43	5	20	100	60	10	600	200	20	2.2	P336-ND	P357-ND	2.89	26.25	451.50	1943.16	LN524YA	LN524YK
Red	.57	5	20	100	60	5	600	250	20	2.2	P337-ND	P358-ND	2.06	18.75	322.50	1387.97	LN526RA	LN526RK
Green	.57	5	20	100	60	10	1,500	500	20	2.2	P338-ND	P359-ND	2.44	22.14	380.81	1638.92	LN526GA	LN526GK
Amber	.57	5	20	100	60	10	800	300	20	2.2	P339-ND	P360-ND	2.97	27.00	464.40	1998.68	LN526YA	LN526YK
Red	.28	5	10	60	30	5	200	100	10	2.03	P453-ND*	P454-ND*	9.76	88.75	1526.50	6569.74	LN543RAN8	LN543RKN8
Green	.28	5	10	60	30	10	200	80	10	2.03	P455-ND*	P456-ND*	10.48	95.25	1638.30	7050.90	LN543GAN8	LN543GKN8

* Multiplexed display † The condition of IFP is duty 10%, pulse width is 1 msec.

Blue LEDs



High Brightness

Max Ratings:

Power Consumption: 120mW
Forward Current: 30mA
Reverse Voltage: 5V
Operating Ambient Temperature: -25 ~ +80°C.
Storage Temperature: -30 ~ +100°C
Water clear lens when off.

Blue LED Precautions in Handling:

A blue LED is sensitive to static electricity and care should be fully taken in handling it. Particularly, when an overvoltage is applied, which exceeds the absolute maximum rating of the blue LED, its energy damages the LED.

Fig. 1 T-1¾

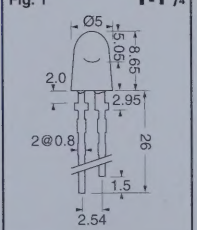


Fig. 2 T-1¾

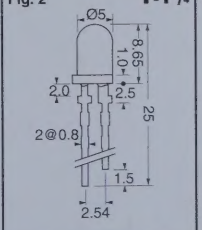


Fig. 3 T-1¾

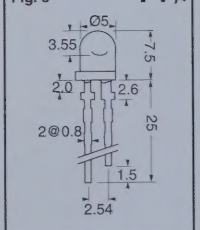


Fig.	Io mcd Typ	Io mcd Min	(mA) IF	VF (V) Max	VF (V) Typ	λp Typ	Δλ Typ	(mA) IF	IR (µA) Max	IR (V) VR	Viewing Angle (deg)	Digi-Key Part No.	Pricing 1	10	200	1,000	Panasonic Part No.
1	1500	640	20	4.0	3.5	470	30	20	10	5	15	P465-ND	2.67	24.95	463.32	1797.50	LNG992CFBW
2	650	260	20	4.0	3.5	470	30	20	10	5	30	P466-ND	2.67	24.95	463.32	1797.50	LNG901CFBW
3	350	140	20	4.0	3.5	470	30	20	10	5	45	P467-ND	2.67	24.95	463.32	1797.50	LNG91LCFBW

Panasonic® LEDs

Package	Lens Size	Color	Electro-Optical Character (Ta=25°C) PD (mW)	IF (mA)	VR (V)	IO (mcd)	λP (nm)	Dimensions (mm) Lens Height	Lead Length	Lead Spacing	Digi-Key Part No.	Pricing 10	200	1,000	5,000	Panasonic Part No.
T-1	ϕ5.0	Green Clear	90	30	4	20.0	565	8.65	25.0, 26.5	2.54	P584-ND	2.70	43.41	127.03	117.04/M	LN31GCPH
	ϕ3.0	Red Diffused	70	25	4	0.8	700	5.0	15.0, 16.5	2.54	P363-ND	1.68	27.00	105.46	97.17/M	LN28RP
	ϕ3.0	Red Clear	70	25	4	1.5	700	5.0	15.0, 16.5	2.54	P308-ND•	1.68	27.00	107.85	99.37/M	LN28RCP
	ϕ3.0	Green Diffused	90	30	4	2.0	565	5.0	15.0, 16.5	2.54	P364-ND	2.15	34.50	112.64	103.78/M	LN38GP
	ϕ3.0	Green Clear	90	30	4	4.0	565	5.0	15.0, 16.5	2.54	P309-ND•	2.15	34.50	112.64	103.78/M	LN38GCP
	ϕ3.0	Amber Diffused	90	30	4	4.0	590	5.0	15.0, 16.5	2.54	P365-ND	2.24	36.00	122.23	112.61/M	LN48YP
	ϕ3.0	Amber Clear	90	30	4	6.0	590	5.0	15.0, 16.5	2.54	P310-ND•	2.24	36.00	122.23	112.61/M	LN48YCP
	ϕ3.0	Orange Red Diff.	90	30	4	6.0	630	5.0	15.0, 16.5	2.54	P366-ND	2.24	36.00	122.23	112.61/M	LN88RP
	ϕ3.0	Red Diffused	70	25	4	0.8	700	5.0	15.0, 16.5	2.54	P363-ND	1.68	27.00	105.46	97.17/M	LN28RP
	ϕ3.0	Red Clear	70	25	4	3.0	700	5.0	15.0, 16.5	2.54	P562-ND	2.24	36.00	124.62	114.82/M	LN28RCPP
	ϕ3.0	Red Diffused	70	25	4	2.8	700	5.5	26.5, 28.0	2.54	P563-ND	2.24	36.00	124.62	114.82/M	LN28RPX
	ϕ3.0	Green Diffused	90	30	4	10.0	565	5.5	26.5, 28.0	2.54	P564-ND	2.84	45.57	139.01	128.08/M	LN38GPX
	ϕ3.0	Amber Diffused	90	30	4	5.0	590	5.5	26.5, 28.0	2.54	P565-ND	3.50	60.20	187.32	171.29/M	LN48YPX
	ϕ3.0	Orange Red Diff.	90	30	3	5.0	630	5.5	26.5, 28.0	2.54	P566-ND	3.18	51.07	155.79	143.54/M	LN88RPX
	ϕ3.0	Clear Red Diffused	70	25	4	3.0	700	5.5	26.5, 28.0	2.54	P606-ND	1.87	31.11	105.76	99.54/M	LN28RCPX
	ϕ3.0	Clear Green Diff.	90	30	4	8.0	565	5.5	26.5, 28.0	2.54	P607-ND	2.15	34.50	112.64	103.78/M	LN38GCPX
	ϕ3.0	Clear Amber Diff.	90	30	4	15.0	590	5.5	26.5, 28.0	2.54	P608-ND	2.24	36.00	122.23	112.61/M	LN48YCPX
	ϕ3.2	Red Diffused	70	25	4	1.0	700	4.6	24.5, 26.0	2.54	P567-ND	2.70	43.44	131.81	121.45/M	LN276RPX
	ϕ3.2	Red Clear	70	25	4	1.5	700	4.6	24.5, 26.0	2.54	P568-ND	2.70	43.44	131.81	121.45/M	LN276RCX
	ϕ3.2	Green Diffused	90	30	4	5.0	565	4.6	24.5, 26.0	2.54	P569-ND	2.84	45.57	139.01	128.08/M	LN376GPX
	ϕ3.2	Green Clear	90	30	4	15.0	565	4.6	24.5, 26.0	2.54	P570-ND	2.84	45.57	139.01	128.08/M	LN376GCPX
	ϕ3.2	Orange Red Clear	90	30	3	10.0	630	4.6	24.5, 26.0	2.54	P571-ND	3.18	51.07	155.79	143.54/M	LN876RCPX
T-1½	ϕ4.0	Red Diffused	70	25	4	2.0	700	6.0	26.45, 27.95	2.54	P572-ND	2.24	36.00	124.62	114.82/M	LN29RPX
	ϕ4.0	Green Diffused	90	30	4	6.0	565	6.0	26.45, 27.95	2.54	P573-ND	2.84	45.57	139.01	128.08/M	LN39GPX
	ϕ4.0	Amber Diffused	90	30	4	10.0	590	6.0	26.45, 27.95	2.54	P574-ND	3.50	60.20	187.32	171.29/M	LN49YPX
	ϕ4.0	Red Diffused	70	25	4	1.5	700	6.0	15.0, 16.5	2.54	P367-ND	1.68	27.00	107.85	99.37/M	LN29RPP
	ϕ4.0	Red Clear	70	25	4	1.5	700	6.0	15.0, 16.5	2.54	P311-ND•	1.68	27.00	107.85	99.37/M	LN29RCP
	ϕ4.0	Green Diffused	90	30	4	5.0	565	6.0	15.0, 16.5	2.54	P368-ND	2.15	34.50	112.64	103.78/M	LN39GPP
	ϕ4.0	Green Clear	90	30	4	3.0	565	6.0	15.0, 16.5	2.54	P312-ND•	2.15	34.50	112.64	103.78/M	LN39GCP
	ϕ4.0	Amber Diffused	90	30	4	10.0	590	6.0	15.0, 16.5	2.54	P369-ND	2.24	36.00	122.23	112.61/M	LN49YPP
	ϕ4.0	Amber Diffused	90	30	4	5.0	590	6.0	15.0, 16.5	2.54	P314-ND•	2.24	36.00	122.23	112.61/M	LN49YP
	ϕ4.0	Orange Red Diff.	90	30	3	10.0	630	6.0	15.0, 16.5	2.54	P370-ND	2.24	36.00	122.23	112.61/M	LN89RPP
	ϕ4.0	Orange Red Clear	90	30	3	30.0	630	6.0	15.0, 16.5	2.54	P371-ND	2.24	36.00	122.23	112.61/M	LN89RCPP
	ϕ4.0	Clear Red Diffused	70	25	4	3.5	700	6.0	26.5, 28.0	2.54	P602-ND	1.87	31.11	105.76	99.54/M	LN29RCPX
	ϕ4.0	Clear Green Diff.	90	30	4	20.0	565	6.0	26.5, 28.0	2.54	P603-ND	2.15	34.50	112.64	103.78/M	LN39GCPXUY
	ϕ4.8	Red Clear	70	25	4	4.0	700	6.7	12.5, 14.0	2.54	P575-ND	2.15	34.51	119.83	110.41/M	LN21RCPSS
T-1¾	ϕ5.0	Red Diffused	70	25	4	3.0	700	8.65	12.0, 13.5	2.54	P300-ND•	1.68	27.00	107.85	99.37/M	LN21RPHL
	ϕ5.0	Red Clear	70	25	4	5.0	700	8.65	12.0, 13.5	2.54	P301-ND•	1.68	27.00	107.85	99.37/M	LN21RCPHL
	ϕ5.0	Green Diffused	90	30	4	15.0	565	8.65	12.0, 13.5	2.54	P303-ND•	2.15	34.50	112.64	103.78/M	LN31GPHL
	ϕ5.0	Green Clear	90	30	4	20.0	565	8.65	12.0, 13.5	2.54	P302-ND•	2.15	34.50	112.64	103.78/M	LN31GCPHL
	ϕ5.0	Amber Diffused	90	30	4	8.0	590	8.65	12.0, 13.5	2.54	P306-ND•	2.24	36.00	122.23	112.61/M	LN41YPHL
	ϕ5.0	Amber Clear	90	30	4	20.0	590	8.65	12.0, 13.5	2.54	P304-ND•	2.24	36.00	122.23	112.61/M	LN41YCPHL
	ϕ5.0	Orange Red Diff.	90	30	3	10.0	630	8.65	12.0, 13.5	2.54	P307-ND•	2.24	36.00	122.23	112.61/M	LN81RPHL
	ϕ5.0	Orange Red Clear	90	30	3	20.0	630	8.65	12.0, 13.5	2.54	P305-ND•	2.24	36.00	122.23	112.61/M	LN81RCPHL
	ϕ5.0	Orange Red Clear†	90	30	3	25.0	630	8.65	12.0, 13.5	2.54	P457-ND	2.24	36.00	122.23	112.61/M	LN81CPHL
	ϕ5.0	Red Diffused	70	25	4	3.0	700	8.65	25.0, 26.5	2.54	P374-ND	1.68	27.00	107.85	99.37/M	LN21RPH
	ϕ5.0	Green Diffused	90	30	4	15.0	565	8.65	25.0, 26.5	2.54	P375-ND	2.15	34.50	112.64	103.78/M	LN31GPH
	ϕ5.0	Amber Diffused	90	30	4	8.0	590	8.65	25.0, 26.5	2.54	P372-ND	2.24	36.00	122.23	112.61/M	LN41YPH
	ϕ5.0	Orange Red Diff.	90	30	3	10.0	630	8.65	25.0, 26.5	2.54	P373-ND	2.24	36.00	122.23	112.61/M	LN81RPH
	ϕ5.0	Red Clear†	70	25	4	5.0	700	8.65	12.0, 13.5	2.54	P576-ND	2.24	36.00	124.62	114.82/M	LN21CPHL
	ϕ5.0	Green Clear	90	30	4	7.5	555	8.65	12.0, 13.5	2.54	P577-ND	2.70	43.41	127.03	117.04/M	LN31GCPHLG
	ϕ5.0	Orange Red Diff.#	90	30	3	15.0	630	8.65	12.0, 13.5	2.54	P578-ND	3.50	60.20	187.32	171.29/M	LN81WPHL
	ϕ5.0	Red Diffused	70	25	4	3.0	700	7.5	13.0, 14.5	2.54	P579-ND	2.65	42.59	124.62	114.82/M	LN21RPSL
	ϕ5.0	Green Diffused	90	30	4	15.0	565	7.5	13.0, 14.5	2.54	P580-ND	2.70	43.41	127.03	117.04/M	LN31GPSL
	ϕ5.0	Red Clear	70	25	4	5.0	700	8.65	25.0, 26.5	2.54	P581-ND	2.15	34.51	119.83	110.41/M	LN21RCPH
	ϕ5.0	Red Diffused#	70	25	4	3.0	700	8.65	25.0, 26.5	2.54	P582-ND	2.15	34.51	119.83	110.41/M	LN21WPH
	ϕ5.0	Red Clear†	70	25	4	5.0	700	8.65	25.0, 26.5	2.54	P583-ND	2.15	34.51	119.83	110.41/M	LN21CPH
	ϕ5.0	Green Clear	90	30	4	20.0	565	8.65	25.0, 26.5	2.54	P584-ND	2.70	43.41	127.03	117.04/M	LN31GCPH
	ϕ5.0	Green Yellow Clear	90	30	4	56.0	563	8.65	25.0, 26.5	2.54	P585-ND	2.70	43.41	127.03	117.04/M	LN31YCPH
	ϕ5.0	Amber Clear	90	30	4	20.0	590	8.65	25.0, 26.5	2.54	P586-ND	2.75	44.23	129.42	119.24/M	LN41YCPH
	ϕ5.0	Orange Red Clear	90	30	3	20.0	630	8.65	25.0, 26.5	2.54	P587-ND	2.80	45.02	136.62	125.87/M	LN81RCPH
	ϕ5.0	Orange Red Clear†	90	30	3	25.0	630	8.65	25.0, 26.5	2.54	P588-ND	2.80	45.02	136.62	125.87/M	LN81CPH
	ϕ5.0	Red Diffused	70	25	4	3.0	700	8.65	27.0, 28.5	2.54	P589-ND	2.24	36.00	124.62	114.82/M	LN21RPX
	ϕ5.0	Green Diffused	90	30	4	15.0	565	8.65	27.0, 28.5	2.54	P590-ND	2.70	43.41	127.03	117.04/M	LN31GPX
	ϕ5.0	Orange Red Diff.	90	30	3	10.0	630	8.65	26.5, 28.0	2.54	P601-ND	2.24	36.00	122.23	112.61/M	LNG801RKD
	ϕ5.0	Amber Diffused	90	30	4	15.0	590	8.65	27.0, 28.5	2.54	P600-ND	2.24	36.00	122.23	112.61/M	LNG401YKX
	ϕ5.0	Red Diffused	70	25	4	4.0	700	7.5	26.5, 28.0	2.54	P598-ND	2.52	40.97	125.79	115.01/M	LNG21LRKR
	ϕ5.0	Green Diffused	90	30	4	20.0	565	7.5	26.5, 28.0	2.54	P599-ND	2.56	41.76	128.22	117.24/M	LN31GPSLX

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† Water clear lens when off. # White diffused lens when off.

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